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# EXECUTIVE SUMMARY

Since 2013, the Milestones have allowed for continuous tracking of competence development for resident and fellow physicians throughout their graduate medical education (GME). This report is a snapshot of Milestone ratings for the first half of the 2019-2020 academic year (the period ending in December 2019).

## What's New for 2020

Due to the burdens that the outbreak of COVID-19 placed on many residency and fellowship programs, the spring 2020 Milestones reporting were optional. As a consequence, this document will report the 2019-2020 mid-year data. It is anticipated that normal reporting will resume for the 2020-2021 academic year, and the 2021 edition of this document will again report year-end data.

This edition continues reporting predictive probability values (PPVs), which began with the last edition. However, the PPVs in this report will be based on the mid-year data, so programs will need to take that into account when applying the PPVs at Clinical Competency Committee (CCC) reviews. Additional instructions are provided in the PPV section below. The PPVs allow program directors to estimate when residents/fellows are not on track to achieve a Milestone rating of Level 4 (the recommended graduation target). PPVs are provided to help program directors identify residents/fellows who may be struggling to match normative national data during each six-month block of the educational program. This can then be used to support decisions for remediation or individualized learning plans. These PPVs may be especially important to help programs identify struggling residents or fellows whose education and training has been disrupted as a result of the COVID-19 pandemic.

### **General Summary of Findings**

1) The box plots show the average Milestone ratings within each specialty or subspecialty, as well as the variance, in general attainment across educational program years.

2) Rates of straight-lining (which may be an indicator of bias, or difficulty interpreting specific Milestones within a local context), show great variation between specialties.

3) Longitudinal PPVs show variation between subcompetencies that may be useful for program directors in knowing when to implement individualized learning plans for a struggling resident or fellow.

A *Milestones Bibliography* is posted on the ACGME website to track the published literature on the Milestones. The Milestones Bibliography is updated approximately every six months. The Milestones section of the ACGME website includes many more resources to help understand the purpose and effective use of the Milestones and Milestone ratings. These include the Milestones Guidebook, Milestones FAQs, the Clinical Competency Committee Guidebook, and the Milestones Guidebook for Residents and Fellows.

(See https://www.acgme.org/What-We-Do/Accreditation/Milestones/Overview)

### **Intended Audience**

The intended audience for this report includes program directors, leaders within specialty societies who oversee the development of national curricula, members of the ACGME Review Committees that oversee accreditation of individual programs, and residents, fellows, and faculty members within these programs. Other stakeholders who may benefit from this report include specialty boards, designated institutional officials (DIOs), policymakers, and the public.

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# BACKGROUND

The ACGME Milestones are intended to be used as a tool to better prepare physicians for a changing health care system by emphasizing a focus on the competencies of residents and fellows and ensuring they match patients' needs in a variety of clinical settings. The Milestones provide narrative descriptors of the ACGME Core Competencies and subcompetencies along a developmental continuum with varying degrees of granularity (Batalden et al 2002; Ericcson 2007; Hodges 2010).

The Milestones allow for continuous monitoring and quality improvement for GME. Individual programs can focus on making improvements that align with the specific competencies outlined by the Milestones, up to the point of graduation. This will help to ensure that graduates from these programs meet the expected standards of the profession and the goal of unsupervised practice.

### **Intended Purpose**

Tracking of Milestones data for individual residents and fellows is part of the ACGME's commitment to meet the responsibility of professional self-regulation (IOM 2014; Nasca 2015; Nasca et al 2012), and the expectations for quality and safety from its primary stakeholder, the public. While the Milestones data allow for tracking of educational achievement at the individual level, the primary goal of the ACGME continues to be accreditation of institutions and residency and fellowship programs. The collection of individual residents' and fellows' Milestones data is only used in aggregate form by the ACGME to address this goal. The ACGME will continue to collaborate with the American Board of Medical Specialties (ABMS), the American Osteopathic Association (AOA), and the various specialty boards toward ensuring high quality graduates and maintaining the public trust. The Milestones are not designed or intended for use in making high-stakes decisions such as state medical licensing, granting hospital privileges, or credentialing by medical specialty boards (https://www.acgme.org/Portals/0/PDFs/Milestones/UseofIndividualMilestonesDatabyExternalEntitiesforHighStakesDecisions.pdf).

### Using Milestones Data to Provide Useful Feedback to Programs

The spirit of the ACGME's accreditation model implies an educational continuous quality improvement (CQI) framework. The collection, sharing, and interpretation of Milestones data allow for refinement of policies and accreditation standards for effective education and training. These data provide the empirical basis for working with specialty groups and programs that may require guidance to meet the expectations set out in the ACGME's accreditation model and the Institute for Healthcare Improvement (IHI) Quadruple Aim. In essence, the field must work together to ensure residents and fellows are ready for unsupervised practice following graduation, and the Milestones can provide detailed guidance for achieving this goal.

### **Development of the Milestones**

Individual milestones were developed based on subcompetencies within each specialty (Sullivan et al 2013). The creation of these detailed developmental markers of progression involved physician members of the ACGME Review Committees; representatives from the ABMS member certification boards, AOA specialty certification boards; program directors; faculty members; residents and fellows; representatives from specialty societies; and non-physicians. The Milestones were written to cover the six Core Competencies, and resulted in an average of 24 subcompetencies per specialty (range 10-41), with educational programs that range from single-year fellowships to residency programs lasting seven years.

To make sense of such a large and complex data set, program directors and specialty societies are encouraged to assist

in interpreting these data, given the rich contextual knowledge offered by these stakeholders. Program directors can assist by considering alternatives for what might explain the observed patterns presented here, and share this with the wider community, including other program directors within the specialty and the ACGME Milestones team, to ensure the data are interpreted properly, and ultimately fulfill their potential to improve GME.

# HOW TO USE THESE FINDINGS

As can be seen in the data set, there are Competency areas where the range of Milestones attainment is wide. This variation is likely due to variation in curriculum and/or assessment practices. This should be viewed as welcome news, as it is a signal the Milestones data are providing useful information to drive CQI in GME.

CONSTITUENCY OR STAKEHOLDER	PURPOSE/FUNCTION
Residents and Fellows	<ul> <li>Provide a descriptive roadmap for education and training</li> <li>Increase transparency of performance requirements</li> <li>Encourage informed self-assessment and self-directed learning</li> <li>Facilitate better feedback to learner</li> <li>Encourage self-directed feedback-seeking behaviors</li> </ul>
Residency and Fellowship Programs	<ul> <li>Guide curriculum and assessment tool development</li> <li>Provide meaningful framework for the Clinical Competency Committee (CCC) (e.g., help create shared mental model)</li> <li>Provide more explicit expectations of residents and fellows</li> <li>Support better systems of assessment</li> <li>Enhance opportunity for early identification of under- performers</li> <li>Enhance opportunity to identify advanced learners to offer them innovative educational opportunities</li> </ul>
ACGME	<ul> <li>Accreditation – enable continuous improvement of programs and lengthening of site visit cycles</li> <li>Public Accountability – report at an aggregated national level on Competency outcomes</li> <li>Community of practice for evaluation and research, with focus on continuous improvement</li> </ul>
Certification Boards	Enable ongoing research to improve certification processes

# METHODS

Every six months, the ACGME receives more than 3.6 million Milestone ratings of more than 140,000 learners from residency and fellowship programs in over 150 specialties and subspecialties across the United States. The box plots in the following pages summarize these data.

# OVERARCHING THEMES

Examining the dataset in terms of gradual progression of competence shows that:

- 1) Generally, across all specialties and all programs, the Milestones data show Milestones attainment levels across years in a program.
- 2) Not all residents/fellows reach Level 4 in all Competencies by graduation.
- 3) Each specialty shows variation in attainment of the Milestones, which needs to be investigated further.

Early research suggests the following possible reasons for this:

- 1) Meaningful differences in actual performance;
- 2) Differences in the complexity of the Milestones Competency language as written for a particular specialty
- 3) Differences in clinical exposure of some residents/fellows in some programs
- 4) Variation in scoring by raters or CCCs
- 5) Differences in the quality of assessment rating forms
- 6) Differences in the types of assessment methods used to show attainment of the Milestones

Of course, many other factors may be at play, and these are the subject of ongoing research. Until this research is mature, the data should only be reported in the context of interpretive statements and assumptions that are relevant to the particular stakeholder group, (e.g., DIOs, program directors, residents/fellows, the public). In communicating the results of Milestones analysis, there must be full awareness of the consequences, with appropriate diligence in providing context for proper interpretation (Hubley and Zumbo 2011; Messick 1989).

### Straight-Lining Ratings

Straight-lining ratings are defined as a string of identical Milestones ratings for a learner across all subcompetencies within that specialty. In the original vision of the ACGME's current accreditation model (aka "the Next Accreditation System"), it was assumed that performance across subcompetencies would likely vary due to contextual factors, curricular design, and variability among learner abilities, according to the content of each subcompetency. For example, a learner would not necessarily be expected to have exactly the same Milestone ratings for Patient Care, Interpersonal and Communication Skills, and Systems-based Practice during a given six-month period. Accurate detection of true variation in ratings would theoretically be useful for tailoring specific feedback to each learner.

It is possible that an individual learner be assigned identical Milestone ratings across all subcompetencies (e.g., straightlining for Milestones in Level 4 can be a valid rating pattern for the senior-most residents who, at the time of graduation, have truly achieved Level 4 in all subcompetencies). However, the data show several instances in which the rate of straight-lining is higher than what might be expected, and these rates are presented in Table 3.

The rate of straight-lining was calculated as follows: if any resident's/fellow's string of Milestone ratings were identical across all subcompetencies, the resident/fellow was assigned a value of "1;" otherwise, "0."

Table 3 shows the percent of residents/fellows with straight-lining ratings by program year. For example, there are 152 first-year residents in December 2019 Milestones data for the allergy and immunology specialty (see Table 2). Of these, 13 residents' assessments show the straight-lining rating patterns. Therefore, 8.6 percent (13/152) of the first-year residents in the specialty were given identical Milestones ratings across all 10 subcompetencies for that specialty.

**Interpretation:** What should be determined is whether this straight-lining effect represents true lack of variation in competence, or whether CCCs are simply providing similar ratings across subcompetencies for other reasons, such as a belief that the description of individual milestones for some subcompetencies does not fit with their local setting, or they are otherwise having difficulty obtaining valid and defensible ratings through lack of resources or attention to educational assessment within their programs. These issues continue to be the subject of ongoing qualitative studies with collaborators from various specialties.

### **Predictive Probability Values**

PPVs are included in tables following the box plots for each core specialty. In the 2019 reports, PPVs were estimates that Milestone ratings will fall below Level 4 at time of graduation, based on national longitudinal Milestone ratings. For the 2020 report, the year-end Milestone data is not available; the mid-year data (ratings entered in December-January) will serve as the outcome data for this year only. In each table, PPVs are listed in columns that correspond to each six-month period in which Milestones data are reported. For example, a value of 65.0 indicates a 65 percent probability that residents rated at a certain level or lower at that point in time will not reach Level 4 by time of the 2019-2020 mid-year rating during the final year of the educational program. It is important to note that these estimates are based on previously-collected national Milestone ratings for that particular subcompetency in each specialty and are not necessarily indicative of future ratings.

**Interpretation:** Values in each cell can be used to help program directors identify residents/fellows who may be struggling to match normative national data for that period and intervene accordingly. Variation among subcompetencies may be useful for knowing when to address specific subcompetencies (Holmboe et al 2020). Because the outcome variable for the 2020 report is the mid-year ratings, the PPV percentages will likely be higher than year-end, graduation PPVs. CCCs will need to take this into account when using the 2020 PPV tables.

## FUTURE DIRECTIONS

The Milestones data show interesting patterns of variation that require further research to understand their full implications. In the meantime, caution should be exercised in how these results are interpreted and communicated to various stakeholders.

### **Milestones 2.0**

In response to the information received to date, a system-wide project has been implemented to revise the Milestones language to make it easier for program directors to understand and implement locally, as well as to examine areas in which the Milestones language can be harmonized across specialties, especially under Professionalism, Interpersonal and Communication Skills, Systems-based Practice, and Practice-based Learning and Improvement. This revision process – known as "Milestones 2.0" – is underway, with a small number of specialties having already completed the task. The current target completion date for the majority of specialties and subspecialties is 2022.

### Summary of Current Research

In addition to work on Milestones 2.0, several projects have been initiated by the ACGME's Milestones staff, as well as collaboratively with academic colleagues, to investigate the following specific areas:

- 1) predictive validity of Milestones ratings versus Board exam scores (and other clinically-relevant performance data) in various specialties
- CCC processes to examine best practices to maximize validity of the Milestones ratings reported to the ACGME

3) "analytics" research, looking at national patterns of data to determine how these findings might be useful to individual programs

The Milestones Bibliography on the ACGME website is updated approximately every six months. The current iteration lists abstracts from 374 peer-reviewed published studies dating from 2012. (See https://www.acgme.org/What-We-Do/Accreditation/Milestones/Research)

This work is ongoing and will continue to appear in the peer-reviewed literature to help build a stronger evidence base for the ability of this accreditation model to meet the larger vision outlined in the Introduction above. Finally, every member of the GME community should engage in research and debate regarding the potential for Milestones data to effect meaningful change in GME.

### Limitations

While the interpretations and conclusions that can be drawn from the data presented in this report are based on a single point in time (i.e., December 2019-January 2020), trends for stability in the data patterns for academic year-end since June 2014 have recently been examined for the earliest reporting specialties. Most of the Milestones data show signs of stability across this period, which lends greater confidence to the potential interpretations and conclusions that can be drawn from them.

### Acknowledgments

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# REFERENCES

- Batalden, Paul, David Leach, Susan Swing, Hubert Dreyfus, and Stuart Dreyfus. 2002. "General Competencies and Accreditation in Graduate Medical Education." *Health Affairs* 21:103-111.
- Ericsson, K.A. 2007. "An Expert-Performance Perspective of Research on Medical Expertise: The Study of Clinical Performance. *Medical Educator* 41:1124-30.
- Hodges, B.D. 2010. "A Tea-Steeping or i-Doc Model for Medical Education?," *Academic Medicine* 85 (September Supplement): S34-S44.
- Holmboe, Eric S., Kenji Yamazaki, Thomas J. Nasca, and Stan J. Hamstra. 2020. "Using Longitudinal Milestones Data and Learning Analytics to Faciliate the Professional Development of Residents: Early Lessons From Three Specialties." *Academic Medicine* 95(1):97-103.
- Hubley, A.M. and B.D. Zumbo. 2011. "Validity and the Consequences of Test Interpretation and Use." *Social Indicators Research* 103:219-230.
- Institute of Medicine (IOM). 2014. *Graduate Medical Education that Meets the Nation's Health Needs*. Washington, DC: The National Academies Press.
- Messick, S. 1989. "Validity." In *Educational Measurement, Third Edition* edited by R.L. Linn, 13-103. New York, NY: American Council on Education and Macmillan.
- Milestones Bibliography June 2020.

Accessed at https://www.acgme.org/What-We-Do/Accreditation/Milestones/Research

- Nasca, Thomas J. 2015. "Professionalism and its Implications for Governance and Accountability of Graduate Medical Education in the United States." *JAMA* 313(18):1801-2.
- Nasca, Thomas J., Ingrid Philibert, Timothy Brigham, and T.C. Flynn. 2012. "The Next Accreditation System: Rationale and Benefits. *New England Journal of Medicine* 366:1051-1056.
- Sullivan, G., D. Simpson, T. Cooney, and E. Beresin. 2013. "A Milestone in the Milestones Movement: The *JGME* Milestones supplement." *Journal of Graduate Medical Education* Supplement: 1-4.

	Number of Subcompetencies							
Specialty/Subspecialty Name	Total	РС	мк	SBP	PBLI	PROF	ICS	
Allergy and Immunology	10	4	1	1	2	1	1	
Anesthesiology	25	10	1	2	4	5	3	
-Adult Cardiothoracic Anesthesiology	15	2	4	3	2	3	1	
-Critical Care Medicine	16	5	2	3	2	3	1	
-Obstetric Anesthesiology	15	4	2	3	2	3	1	
-Pain Medicine (multidisciplinary)	24	6	3	4	4	4	3	
-Pediatric Anesthesiology	14	3	2	3	2	3	1	
-Regional Anesthesiology and Acute Pain Medicine	17	3	3	3	2	3	3	
Colon and Rectal Surgery	21	8	9	1	1	1	1	
Dermatology	28	7	5	4	4	3	5	
-Dermatopathology (multidisciplinary)	12	2	2	2	2	2	2	
-Micrographic Surgery and Dermatologic Oncology	14	4	2	2	2	2	2	
Emergency Medicine	23	14	1	3	1	2	2	
-Emergency Medical Services	14	5	1	2	2	2	2	
-Medical Toxicology	14	3	3	2	2	2	2	
-Pediatric Emergency Medicine	23	11	1	2	1	5	3	
-Sports Medicine	14	3	3	2	2	2	2	
Family Medicine	22	5	2	4	3	4	4	
-Geriatric Medicine	23	5	3	4	4	4	3	
-Hospice and Palliative Medicine (multidisciplinary)	20	5	3	4	4	4	3	
-Sports Medicine	14	3	3	2	2	2	2	
Internal Medicine	22	5	2	4	4	4	3	
-Adult Congenital Heart Disease	24	6	3	4	4	4	3	
-Advanced Heart Failure and Transplant Cardiology	24	6	3	4	4	4	3	
-Cardiovascular Disease	24	6	3	4	4	4	3	
-Clinical Cardiac Electrophysiology	24	6	3	4	4	4	3	
-Clinical Informatics	20	6	2	3	2	5	2	
-Critical Care Medicine	24	6	3	4	4	4	3	
-Endocrinology, Diabetes, and Metabolism	24	6	3	4	4	4	3	
-Gastroenterology	24	6	3	4	4	4	3	
-Geriatric Medicine	23	5	3	4	4	4	3	
-Hematology and Medical Oncology	24	6	3	4	4	4	3	
-Infectious Disease	22	4	3	4	4	4	3	
-Interventional Cardiology	24	6	3	4	4	4	3	
-Medical Oncology	24	6	3	4	4	4	3	
-Nephrology	24	6	3	4	4	4	3	
-Pulmonary Disease	24	6	3	4	4	4	3	
-Pulmonary Disease and Critical Care Medicine	24	6	3	4	4	4	3	
-Rheumatology	24	6	3	4	4	4	3	
-Sleep Medicine (multidisciplinary)	23	5	3	4	4	4	3	
-Transplant Hepatology	24	6	3	4	4	4	3	

		Nu	mber of	Subcor	npetend	cies	
Specialty/Subspecialty Name	Total	РС	мк	SBP	PBLI	PROF	ICS
Medical Genetics and Genomics	20	9	2	2	2	3	2
-Medical Biochemical Genetics	16	3	3	3	2	3	2
-Molecular Genetic Pathology (multidisciplinary)	14	3	3	2	2	2	2
Neurological Surgery	20	8	2	3	3	2	2
Neurology	29	18	3	2	2	2	2
-Clinical Neurophysiology	21	7	6	2	2	2	2
-Epilepsy	18	6	3	3	2	2	2
-Neurodevelopmental Disabilities	30	17	4	3	2	2	2
-Neuromuscular Medicine	21	9	4	2	2	2	2
-Vascular Neurology	20	4	7	3	2	2	2
Child Neurology	27	15	4	2	2	2	2
Nuclear Medicine	19	5	7	2	2	1	2
Obstetrics and Gynecology	28	11	7	2	2	3	3
-Female Pelvic Medicine and Reconstructive Surgery	23	7	8	3	2	1	2
-Gynecologic Oncology	20	5	7	2	2	2	2
-Maternal-Fetal Medicine	18	4	5	2	3	2	2
-Reproductive Endocrinology and Infertility	15	3	3	2	3	2	2
Ophthalmology	24	8	2	3	3	4	4
Orthopaedic Surgery	41	16	16	3	2	2	2
-Adult Reconstructive Orthopaedics	23	7	7	3	2	2	2
-Foot and Ankle Orthopaedics	24	8	8	3	1	2	2
-Hand Surgery	18	7	7	1	1	1	1
-Musculoskeletal Oncology	19	5	5	3	2	2	2
-Orthopaedic Sports Medicine	14	3	3	2	2	2	2
-Orthopaedic Surgery of the Spine	15	4	4	1	2	2	2
-Orthopaedic Trauma	18	5	5	2	2	2	2
-Pediatric Orthopaedics	21	6	6	3	2	2	2
Osteopathic Neuromusculoskeletal Medicine	15	4	2	2	2	3	2
Otolaryngology - Head and Neck Surgery	17	8	4	2	1	1	1
-Neurotology	13	3	2	2	2	2	2
-Pediatric Otolaryngology	13	3	2	2	2	2	2
Pathology (Anatomic and Clinical)	21	7	3	7	2	6	2
-Blood Banking/Transfusion Medicine	16	3	2	3	3	3	2
-Cytopathology	18	2	2	5	2	4	3
-Forensic Pathology	18	2	3	4	2	5	2
-Hematopathology	19	3	4	4	3	3	2
-Neuropathology	19	6	2	3	3	3	2
-Pediatric Pathology	17	4	3	3	2	3	2
-Selective Pathology (Focused Anatomic)	15	1	2	3	4	3	2
-Selective Pathology (Surgical)	15	1	2	3	4	3	2

		Number of Subcompetencies							
Specialty/Subspecialty Name	Total	РС	мк	SBP	PBLI	PROF	ICS		
Pediatrics	21	5	1	3	4	6	2		
-Adolescent Medicine	21	4	1	5	4	4	3		
-Child Abuse Pediatrics	21	4	1	5	4	4	3		
-Developmental-Behavioral Pediatrics	21	4	1	5	4	4	3		
-Neonatal-Perinatal Medicine	21	4	1	5	4	4	3		
-Pediatric Cardiology	21	4	1	5	4	4	3		
-Pediatric Critical Care Medicine	21	4	1	5	4	4	3		
-Pediatric Emergency Medicine	23	11	1	2	1	5	3		
-Pediatric Endocrinology	21	4	1	5	4	4	3		
-Pediatric Gastroenterology	21	4	1	5	4	4	3		
-Pediatric Hematology/Oncology	21	4	1	5	4	4	3		
-Pediatric Infectious Diseases	21	4	1	5	4	4	3		
-Pediatric Nephrology	21	4	1	5	4	4	3		
-Pediatric Pulmonology	21	4	1	5	4	4	3		
-Pediatric Rheumatology	21	4	1	5	4	4	3		
-Sports Medicine	14	3	3	2	2	2	2		
Physical Medicine and Rehabilitation	19	7	1	3	3	3	2		
-Brain Injury Medicine	16	5	2	3	2	2	2		
-Pediatric Rehabilitation Medicine	16	5	2	2	3	2	2		
-Spinal Cord Injury Medicine	15	4	2	2	3	2	2		
-Sports Medicine	14	3	3	2	2	2	2		
Plastic Surgery	36	14	14	3	2	2	1		
Plastic Surgery - Integrated	36	14	14	3	2	2	1		
-Hand Surgery	18	7	7	1	1	1	1		
Preventive Medicine (Aerospace Medicine)	27	15	4	3	1	2	2		
Preventive Medicine (Occupational Medicine)	26	14	4	3	1	2	2		
Preventive Medicine (Public Health)	23	12	3	3	1	2	2		
Psychiatry	22	5	6	4	3	2	2		
-Addiction Medicine (multidisciplinary)	16	2	3	3	2	3	3		
-Addiction Psychiatry	16	3	3	4	2	2	2		
-Child and Adolescent Psychiatry	21	5	6	4	2	2	2		
-Consultation-Liaison Psychiatry	15	2	3	4	2	2	2		
-Forensic Psychiatry	13	2	2	3	2	2	2		
-Geriatric Psychiatry	16	3	3	4	2	2	2		
Radiation Oncology	21	11	1	3	2	2	2		
Diagnostic Radiology	12	2	2	2	3	1	2		
-Abdominal Radiology	13	3	2	2	2	2	2		
-Musculoskeletal Radiology	14	3	3	2	2	2	2		
-Neuroradiology	14	3	3	1	3	2	2		
-Pediatric Radiology	14	3	3	2	2	1	3		
-Vascular and Interventional Radiology	14	3	3	2	2	2	2		
Interventional Radiology - Integrated	20	6	5	2	2	2	3		

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		Nu	mber of	Subcor	npetend	ies	
Specialty/Subspecialty Name	Total	PC	МК	SBP	PBLI	PROF	ICS
Surgery	16	3	2	2	3	3	3
-Complex General Surgical Oncology	23	10	1	2	4	4	2
-Pediatric Surgery	22	9	2	3	2	4	2
-Surgical Critical Care	30	10	9	2	3	4	2
-Vascular Surgery	31	8	12	3	3	3	2
Vascular Surgery - Integrated	31	8	12	3	3	3	2
Thoracic Surgery	26	8	10	3	2	2	1
Thoracic Surgery - Integrated	26	8	10	3	2	2	1
Transitional Year	19	6	2	3	2	3	3
Urology	34	8	4	4	7	6	5
-Female Pelvic Medicine and Reconstructive Surgery	23	7	8	3	2	1	2
-Pediatric Urology	22	7	2	3	3	3	4
Internal Medicine/Pediatrics	43	10	3	7	8	10	5

### Note:

PC - Patient Care	PBLI - Practice-Based Learning and Improvement
MK - Medical Knowledge	<b>PROF</b> - Professionalism
SBP - Systems-Based Practice	ICS - Interpersonal and Communication Skills

Resident Year								
Specialty/Subspecialty Name	Total	1	2	3	4	5	6	7
Allergy and Immunology	309	152	157					
Anesthesiology	6,780	1,341	1,864	1,827	1,748			
-Adult Cardiothoracic Anesthesiology	226	226						
-Critical Care Medicine	203	203						
-Obstetric Anesthesiology	39	39						
-Pain Medicine (multidisciplinary)	403	403						
-Pediatric Anesthesiology	218	218						
-Regional Anesthesiology and Acute Pain Medicine	72	72						
Colon and Rectal Surgery	105	105						
Dermatology	1,525	520	512	493				
-Dermatopathology (multidisciplinary)	70	70						
-Micrographic Surgery and Dermatologic Oncology	89	89						
Emergency Medicine (Three-Year)	5,746	2,004	1,869	1,873				
Emergency Medicine (Four-Year)	2,602	672	663	655	612			
-Emergency Medical Services	92	92						
-Medical Toxicology	72	39	33					
-Pediatric Emergency Medicine	136	55	47	34				
-Sports Medicine	17	17						
Family Medicine	13,592	4,692	4,495	4,405				
-Geriatric Medicine	44	44						
-Hospice and Palliative Medicine (multidisciplinary)	388	388						
-Sports Medicine	264	264						
Internal Medicine	29,434	11,545	9,115	8,774				
-Adult Congenital Heart Disease	26	13	13					
-Advanced Heart Failure and Transplant Cardiology	111	111						
-Cardiovascular Disease	3,120	1,084	1,048	988				
-Clinical Cardiac Electrophysiology	259	147	112					
-Clinical Informatics	40	19	21					
-Critical Care Medicine	268	159	109					
-Endocrinology, Diabetes, and Metabolism	682	353	329					
-Gastroenterology	1,807	614	613	580				
-Geriatric Medicine	272	272						
-Hematology and Medical Oncology	1,860	635	618	607				
-Infectious Disease	780	400	380					
-Interventional Cardiology	352	352						
-Medical Oncology	36	19	17					
-Nephrology	851	437	414					1
-Pulmonary Disease	73	42	31					
-Pulmonary Disease and Critical Care Medicine	2,009	720	685	604				
-Rheumatology	525	264	261					1
-Sleep Medicine (multidisciplinary)	187	187						1
-Transplant Hepatology	55	55						

				Reside	nt Year			
Specialty/Subspecialty Name	Total	1	2	3	4	5	6	7
Medical Genetics and Genomics	55	33	22					
-Medical Biochemical Genetics	16	16						
-Molecular Genetic Pathology (multidisciplinary)	56	56						
Neurological Surgery	1,532	237	227	224	214	224	207	199
Neurology	3,090	560	895	844	791			
-Clinical Neurophysiology	170	170						
-Epilepsy	127	127						
-Neurodevelopmental Disabilities	24	7	5	5	7			
-Neuromuscular Medicine	78	78						
-Vascular Neurology	129	129						
Child Neurology	407	142	134	131				
Nuclear Medicine	81	41	19	21				
Obstetrics and Gynecology	5,719	1,481	1,447	1,409	1,382			
-Female Pelvic Medicine and Reconstructive Surgery	148	51	45	52				
-Gynecologic Oncology	210	73	72	65				
-Maternal-Fetal Medicine	372	134	121	117				
-Reproductive Endocrinology and Infertility	170	59	53	58				
Ophthalmology	1,523	516	505	502				
Orthopaedic Surgery	4,321	881	885	867	847	841		
-Adult Reconstructive Orthopaedics	46	46						
-Foot and Ankle Orthopaedics	16	16						
-Hand Surgery	156	156						
-Musculoskeletal Oncology	18	18						
-Orthopaedic Sports Medicine	216	216						
-Orthopaedic Surgery of the Spine	35	35						
-Orthopaedic Trauma	20	20						
-Pediatric Orthopaedic Surgery	38	38						
Osteopathic Neuromusculoskeletal Medicine	48	5	17	26				
Otolaryngology - Head and Neck Surgery	1,700	351	345	339	331	334		
-Neurotology	35	21	14					
-Pediatric Otolaryngology	36	36						
Pathology (Anatomic and Clinical)	2,345	617	613	599	516			
-Blood Banking/Transfusion Medicine	52	52						
-Cytopathology	128	128						
-Forensic Pathology	58	58						
-Hematopathology	135	135						
-Neuropathology	59	32	27					
-Pediatric Pathology	23	23						
-Selective Pathology (Focused Anatomic)	84	84						
-Selective Pathology (Surgical)	85	85						

				Reside	nt Year			
Specialty/Subspecialty Name	Total	1	2	3	4	5	6	7
Pediatrics	9,402	3,260	3,157	2,985				
-Adolescent Medicine	98	40	29	29				
-Child Abuse Pediatrics	47	19	14	14				
-Developmental-Behavioral Pediatrics	120	45	34	41				
-Neonatal-Perinatal Medicine	788	270	262	256				
-Pediatric Cardiology	459	172	150	137				
-Pediatric Critical Care Medicine	562	199	188	175				
-Pediatric Emergency Medicine	430	156	134	140				
-Pediatric Endocrinology	233	81	76	76				
-Pediatric Gastroenterology	325	115	111	99				
-Pediatric Hematology/Oncology	491	167	155	169				
-Pediatric Infectious Diseases	177	55	59	63				
-Pediatric Nephrology	116	37	43	36				
-Pediatric Pulmonology	168	65	56	47				
-Pediatric Rheumatology	94	28	32	34				
-Sports Medicine	26	26						
Physical Medicine and Rehabilitation	1,463	142	458	440	423			
-Brain Injury Medicine	18	18						
-Pediatric Rehabilitation	42	19	23					
-Spinal Cord Injury Medicine	21	21						
-Sports Medicine	32	32						
Plastic Surgery	229	73	77	79				
Plastic Surgery - Integrated	963	173	174	167	159	153	137	
-Hand Surgery	23	23						
Preventive Medicine (Aerospace Medicine)	43	18	25					
Preventive Medicine (Occupational Medicine)	122	60	62					
Preventive Medicine (Public Health)	185	98	87					
Psychiatry	6,650	1,881	1,811	1,717	1,241			
-Addiction Medicine (multidisciplinary)	80	80						
-Addiction Psychiatry	75	75						
-Child and Adolescent Psychiatry	917	492	425					
-Forensic Psychiatry	85	85		Ì				
-Geriatric Psychiatry	42	42						
-Consultation-Liaison Psychiatry	91	91						
Radiation Oncology	774	193	196	192	193			
Diagnostic Radiology	4,545	1,166	1,117	1,167	1,095			
-Abdominal Radiology	52	52						
-Musculoskeletal Radiology	33	33						
-Neuroradiology	283	283						
-Pediatric Radiology	61	61						
-Vascular and Interventional Radiology	261	261		ĺ				

	Resident Year							
Specialty/Subspecialty Name	Total	1	2	3	4	5	6	7
Interventional Radiology - Integrated	426	142	122	65	72	25		
Surgery	8,896	2,784	1,747	1,523	1,446	1,396		
-Complex General Surgical Oncology	116	59	57					
-Pediatric Surgery	87	47	40					
-Surgical Critical Care	301	301						
-Vascular Surgery	251	126	125					
Vascular Surgery - Integrated	308	68	63	65	57	55		
Thoracic Surgery (Two-Year)	152	74	78					
Thoracic Surgery (Three-Year)	91	29	31	31				
Thoracic Surgery - Integrated	195	36	36	37	33	30	23	
Transitional Year	1,583	1,583						
Urology	1,745	382	359	349	344	311		
-Female Pelvic Medicine and Reconstructive Surgery	36	10	14	12				
-Pediatric Urology	20	20						
Internal Medicine/Pediatrics								

Specialty/Subspecialty Name	Number of Subcomp	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7
Allergy and Immunology (306)	10	8.6%	14.6%					
Anesthesiology (6,524)	25	33.2%	26.3%	24.5%	29.6%			
-Adult Cardiothoracic Anesthesiology (221)	15	16.8%						
-Critical Care Medicine (193)	16	14.8%						
-Obstetric Anesthesiology (46)	15	28.2%						
-Pain Medicine (multidisciplinary) (383)	24	28.0						
-Pediatric Anesthesiology (219)	14	19.7%						
-Regional Anesthesiology and Acute Pain (61)	17	27.8%						
Colon and Rectal Surgery (101)	21	6.7%						
Dermatology (1,501)	28	15.8%	12.1%	12.0%				
-Dermatopathology (multidisciplinary) (69)	12	17.1%						
-Micrographic Surgery and Dermatologic Oncology (82)	14	11.2%						
Emergency Medicine (Three-Year) (5,417)	23	11.9%	7.5%	7.7%				
Emergency Medicine (Four-Year) (2,535)	23	14.9%	7.1%	10.2%	9.3%			
-Emergency Medical Services (67)	14	7.6%						
-Medical Toxicology (69)	14	2.6%	9.1%					
-Pediatric Emergency Medicine (122)	23	9.1%	8.5%	5.9%				
-Sports Medicine (16)	14	5.9%						
Family Medicine (12,797)	22	8.3%	4.9%	5.6%				
-Geriatric Medicine (49)	23	4.5%						
-Hospice and Palliative Medicine (367)	20	6.7%						
-Sports Medicine (240)	14	6.1%						
Internal Medicine (28,434)	22	12.5%	12.3%	15.7%				
-Adult Congenital Heart Disease (25)	24	7.7%	15.4%					
-Advanced Heart Failure and Transplant (103)	24	10.9%						
-Cardiovascular Disease (3012)	24	18.2%	17.5%	20.7%				
-Clinical Cardiac Electrophysiology (260)	24	18.4%	19.6%					
-Clinical Informatics (36)	20	5.3	0.0%					
-Critical Care Medicine (255)	24	8.8%	10.1%					
-Endocrinology, Diabetes, and Metabolism (665)	24	5.7%	9.7%					
-Gastroenterology (1,749)	24	9.6%	12.6%	18.4%				
-Geriatric Medicine (267)	23	8.6%						
-Hematology and Medical Oncology (1,784)	24	11.8%	13.9	22.1%				
-Infectious Disease (765)	22	5.8%	17.1%					
-Interventional Cardiology (343)	24	25.9%						
-Nephrology (827)	24	4.3%	13.8%					
-Medical Oncology (39)	24	10.5%	29.4%					
-Pulmonary Disease (70)	24	4.8%	12.9%					
-Pulmonary Disease and Critical Care (1,903)	24	13.2%	15.8%	19.9%				
-Rheumatology (504)	24	8.0%	13.8%					
-Sleep Medicine (multidisciplinary) (180)	23	9.1%						
-Transplant Hepatology (50)	24	7.3%						

Specialty/Subspecialty Name	Number of Subcomp	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7
Medical Genetics and Genomics (65)	20	3.0%	4.5%					
-Medical Biochemical Genetics (15)	16	12.5%						
-Molecular Genetic Pathology (multidisciplinary) (61)	14	10.7						
Neurological Surgery (1,462)	20	11.0%	5.7%	5.4%	5.6%	7.6%	5.3%	6.5%
Neurology (2,904)	29	5.7%	3.4%	4.0%	6.7%			
-Clinical Neurophysiology (164)	21	1.8%						
-Epilepsy (115)	18	8.7%						
-Neurodevelopmental Disabilities (25)	30	0.0%	0.0%	0.0%	0.0%			
-Neuromuscular Medicine (69)	21	5.81						
-Vascular Neurology (130)	20	3.1%						
Child Neurology (386)	27	3.5%	0.7%	6.1%				
Nuclear Medicine (78)	19	19.5%	10.5%	23.8%				
Obstetrics and Gynecology (5,595)	28	4.2%	3.0%	3.3%	6.4%			
-Female Pelvic Medicine and Reconstructive Surgery (145)	23	2.0%	0.0%	0.0%				
-Gynecologic Oncology (197)	20	1.4%	1.4%	3.1%				
-Maternal-Fetal Medicine (352)	18	2.2%	1.7%	3.4%				
-Reproductive Endocrinology and Infertility (164)	15	0.0%	0.0%	5.2%				
Ophthalmology (1,478)	24	14.3%	10.1%	12.5%				
Orthopaedic Surgery (4,125)	41	13.6%	7.7%	8.5%	10.7%	13.0%		
-Adult Reconstructive Orthopaedics (47)	23	9.3%						
-Foot and Ankle Orthopaedics (15)	24	50.0%						
-Hand Surgery (153)	18	21.2%						
-Musculoskeletal Oncology (14)	19	16.%						
-Orthopaedic Sports Medicine (207)	14	24.1%						
-Orthopaedic Surgery of the Spine (30)	15	17.1%						
-Orthopaedic Trauma (19)	18	45.0%						
-Pediatric Orthopaedics (37)		10.5%						
Osteopathic Neuromusculoskeletal Medicine (36)	15	0.0%	0.0%	0.0%				
Otolaryngology - Head and Neck Surgery (1,653)	17	20.5%	8.1%	8.3%	5.4%	6.9%		
-Neurotology (32)	13	9.5%	7.1%					
-Pediatric Otolaryngology (34)	13	5.6%						
Pathology (Anatomic and Clinical) (2,333)	21	7.3%	7.2%	7.0%	10.7%			
-Blood Banking/Transfusion Medicine (59)	16	0.0%						
-Cytopathology (136)	18	4.7%						
-Forensic Pathology (47)	18	1.7%						
-Hematopathology (133)	19	3.0%						
-Neuropathology (53)	19	3.1%	7.4%					
-Pediatric Pathology (23)	17	0.0%						
-Selective Pathology (Focused Anatomic) (84)	15							
-Selective Pathology (Surgical) (83)	15							

Specialty/Subspecialty Name	Number of Subcomp	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7
Pediatrics (9,244)	21	3.8%	3.7%	5.2%				
-Adolescent Medicine (88)	21	0.0%	6.9%	3.4%				
-Child Abuse Pediatrics (38)	21	5.3%	0.0%	0.0%				
-Developmental-Behavioral Pediatrics (108)	21	2.2%	5.9%	4.9%				
-Neonatal-Perinatal Medicine (774)	21	3.7%	1.1%	6.6%				
-Pediatric Cardiology (445)	21	6.4%	8.0%	10.2%				
-Pediatric Critical Care Medicine (535)	21	6.5%	2.1%	9.1%				
-Pediatric Emergency Medicine (417)	23	0.6%	2.3%	2.2%				
-Pediatric Endocrinology (244)	21	3.7%	1.3%	6.6%				
-Pediatric Gastroenterology (312)	21	7.0%	10.8%	7.1%				
-Pediatric Hematology Oncology (491)	21	6.0%	4.5%	7.7%				
-Pediatric Infectious Diseases (177)	21	0.0%	0.0%	4.8%				
-Pediatric Nephrology (120)	21	10.8%	4.7%	5.6%				
-Pediatric Pulmonology (166)	21	6.2%	5.4%	4.3%				
-Pediatric Rheumatology (91)	21	0.0%	0.0%	2.9%				
-Sports Medicine (26)	14	3.8%						
Physical Medicine and Rehabilitation (1,395)	19	16.9%	6.8%	8.2%	13.7%			
-Brain Injury Medicine (17)	16	5.6%						
-Spinal Cord Injury Medicine (21)	15	19.0%						
-Pediatric Rehabilitation Medicine (38)	16	5.3%	0.0%					
-Sports Medicine (30)	14	13.1%						
Plastic Surgery (245)	36	5.5%	9.1%	8.9%				
Plastic Surgery - Integrated (902)	36	11.6%	8.0%	6.6%	11.3%	15.0%	13.9%	
-Hand Surgery (22)	18	26.1%						
Preventive Medicine (Aerospace Medicine) (36)	27	0.0%	0.0%					
Preventive Medicine (Occupational Medicine) (123)	26	1.7%	0.0%					
Preventive Medicine (Public Health and General Preventive Medicine (176)	23	1.0%	0.0%					
Psychiatry (6,269)	22	14.9%	6.7%	7.0%	10.6%			
-Addiction Medicine (multidisciplinary) (80)								
-Addiction Psychiatry (81)	16	11.1%						
-Child and Adolescent Psychiatry (884)	21	2.6%	4.7%					
-Consultation-Liaison Psychiatry (77)	15	7.7%						
-Forensic Psychiatry (73)	13	5.9%						
-Geriatric Psychiatry (53)	16	7.1%						
Radiation Oncology (776)	22	1.0%	4.6%	8.9%	14.5%			
Diagnostic Radiology (4,653)	12	33.4%	22.4%	18.7%	22.3%			
-Abdominal Radiology (43)	13	15.4%						
-Musculoskeletal Radiology (32)	14	9.1%						
-Neuroradiology (267)	14	17.7%						
-Pediatric Radiology (59)	14	11.5%						
-Vascular and Interventional Radiology (276)	14	14.6%						

Specialty/Subspecialty Name	Number of Subcomp	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7
Interventional Radiology - Integrated (249)	20	14.8%	12.3%	10.8%	18.1%	4.0%		
Surgery (8,840)	16	27.8%	19.8%	17.1%	17.6%	26.1%		
-Complex General Surgical Oncology (109)	23	8.5%	19.3%					
-Pediatric Surgery (83)	22	2.1	2.5%					
-Surgical Critical Care (285)	30	8.3%						
-Vascular Surgery (246)	31	4.8%	6.4%					
Vascular Surgery - Integrated (287)	31	7.4%	6.3%	4.6	12.3%	3.6%		
Thoracic Surgery (Two-Year) (142)	26	5.4%	14.1%					
Thoracic Surgery (Three-Year) (93)	26	0.0%	0.0%	3.2%				
Thoracic Surgery - Integrated (190)	26	8.3%	5.6%	0.0%	9.1%	6.7%	4.3%	
Transitional Year (1,540)	19	11.4%						
Urology (1,319)	34	%	%	%	%			
-Female Pelvic Medicine and Reconstructive Surgery (37)	23	10.0%	14.3%	0.0%				
-Pediatric Urology (20)	22	10.0%						

#### FIGURE 1: KEY TO BOX PLOTS

Box plots provide a rigorous and robust way to display complex data, such as for the Milestones. The components of the box plots used for the Milestones are shown below. In this example, the data represent attainment of the Patient Care Subcompetency #10 (PC10).



As seen in this diagram, the **median** Milestone level for each resident year is represented by the horizontal line, bounded by the **25th and 75th rank** of Milestone ratings, also known as the **interquartile range (IQR)**. The **mean** rating is represented by the diamond, but should be interpreted with caution given the Milestones are ordinal, not interval data. **Min** represents the lowest level and Max the highest level (the "**whiskers**"), excluding **outliers** (represented by the open circles). Overall there is a general upward trajectory in this Subcompetency from Year 1 (median level 2) to Year 4 (median level 4).

Most Milestone sets include five levels of development with transition zones between each level (designated as half increments, such as Level 2.5). In this example, the box plot for Resident Year 1 (highlighted by the red box) shows that the median is Level 2, and the IQR extends from Level 1.5 (25th percentile rank) to Level 2.5 (75th percentile rank).

With regards to Milestone levels, the levels can be sorted from least to greatest, and then graphed as shown in this box plot. In the example above, the highest 50 percent of the group were at or above Milestone Level 2; they are represented by everything above the **median** line. Fifty percent of the Year 1 residents fall between Level 1.5 and Level 2.5 (IQR). Those in the top 25 percent of Milestone judgments in the Year 1 group are shown by the top "whisker" (here labeled as **Max**) and the **outlier** open circles.

The outliers represent those who were judged to be substantially higher (in this case we see two outlier circles) or were judged to be much lower than normal (in this example there are no low outliers). The number of people represented by the circles will vary by the sample size.

Box plots provide information on more than just the four split groups. They also show which way the Milestone data can "sway". For example, if more residents are judged much higher than just a few residents being judged much lower, the median is going to be higher, or the top whisker could be longer than the bottom one. Box plots provide a better overview of the Milestones data's distribution than simple means and standard deviations.

The box plots must be interpreted in the context of the Milestones descriptions for each Subcompetency within each discipline. Provided below are links to each specialty's Milestones Sets to help guide review of the data.

#### Allergy and Immunology:

http://www.acgme.org/Specialties/Milestones/pfcatid/5/Allergy%20and%20Immunology

#### Anesthesiology:

http://www.acgme.org/Specialties/Milestones/pfcatid/6/Anesthesiology

#### **Colon and Rectal Surgery:**

http://www.acgme.org/Specialties/Milestones/pfcatid/4/Colon%20and%20Rectal%20Surgery

#### Dermatology:

http://www.acgme.org/Specialties/Milestones/pfcatid/3/Dermatology

#### **Emergency Medicine:**

http://www.acgme.org/Specialties/Milestones/pfcatid/7/Emergency%20Medicine

#### Family Medicine:

http://www.acgme.org/Specialties/Milestones/pfcatid/8/Family%20Medicine

#### **Internal Medicine:**

http://www.acgme.org/Specialties/Milestones/pfcatid/2/Internal%20Medicine

#### **Medical Genetics and Genomics:**

http://www.acgme.org/Specialties/Milestones/pfcatid/9/Medical%20Genetics%20and%20Genomics

#### Neurological Surgery:

http://www.acgme.org/Specialties/Milestones/pfcatid/10/Neurological%20Surgery

#### Neurology:

http://www.acgme.org/Specialties/Milestones/pfcatid/37/Neurology

#### Nuclear Medicine:

http://www.acgme.org/Specialties/Milestones/pfcatid/11/Nuclear%20Medicine

#### **Obstetrics and Gynecology:**

http://www.acgme.org/Specialties/Milestones/pfcatid/12/Obstetrics%20and%20Gynecology

#### **Ophthalmology:**

http://www.acgme.org/Specialties/Milestones/pfcatid/13/Ophthalmology

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#### Orthopaedic Surgery:

http://www.acgme.org/Specialties/Milestones/pfcatid/14/Orthopaedic%20Surgery

#### Otolaryngology:

http://www.acgme.org/Specialties/Milestones/pfcatid/15/Otolaryngology

#### Pathology:

http://www.acgme.org/Specialties/Milestones/pfcatid/18/Pathology

#### **Pediatrics:**

http://www.acgme.org/Specialties/Milestones/pfcatid/16/Pediatrics

#### Physical Medicine and Rehabilitation:

http://www.acgme.org/Specialties/Milestones/pfcatid/17/Physical%20Medicine%20and%20Rehabilitation

#### **Plastic Surgery:**

http://www.acgme.org/Specialties/Milestones/pfcatid/19/Plastic%20Surgery

#### **Preventive Medicine:**

http://www.acgme.org/Specialties/Milestones/pfcatid/20/Preventive%20Medicine

#### **Psychiatry:**

http://www.acgme.org/Specialties/Milestones/pfcatid/21/Psychiatry

#### **Radiation Oncology:**

http://www.acgme.org/Specialties/Milestones/pfcatid/22/Radiation%20Oncology

#### **Radiology:**

http://www.acgme.org/Specialties/Milestones/pfcatid/23/Radiology

#### Surgery:

http://www.acgme.org/Specialties/Milestones/pfcatid/24/Surgery

#### Thoracic Surgery:

http://www.acgme.org/Specialties/Milestones/pfcatid/25/Thoracic%20Surgery

#### **Transitional Year:**

http://www.acgme.org/Specialties/Milestones/pfcatid/36/Transitional%20Year

#### Urology:

http://www.acgme.org/Specialties/Milestones/pfcatid/26/Urology

#### FIGURE 2: KEY TO PPV TABLES

In the 2019 report, the PPV (Predictive Probability Value) tables provided the probability (in percentage terms) that a resident at or below a certain Milestone rating (Level) would not achieve Level 4 by graduation. With the onset of the COVID-19 pandemic in the spring of 2020, the ACGME made Milestone reporting optional in May-June 2020. As a result, the 2020 PPVs are based on the mid-year (December 2019 – January 2020) ratings. The PPVs are still based on achieving Level 4. This will require programs to make the appropriate adjustments when using the 2020 PPV values to guide CCC deliberations for the 2020-21 academic year as many PPVs are higher as expected. However, given the substantial disruption caused by the pandemic for many programs, these PPVs may be especially helpful with residents.

An example on how to use a PPV is shown below using Family Medicine Patient Care Subcompetency 3. For example, a resident receiving a milestone rating of 2.5 or lower at Milestone review occasion four, at the end of PGY-2 has a 81.9 percent probability (based on national data) of not achieving Level 4 by mid-year of PGY-3 of the family medicine residency in this subcompetency.

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC03	≤ Level 5.0				
	≤ Level 4.5				
Partners with pa- tient	≤ Level 4.0				68.0
	≤ Level 3.5		67.8	68.6	71.5
	≤ Level 3.0	67.9	68.2	71.1	81.1
	≤ Level 2.5	68.4	69.9	81.9	90.1
	≤ Level 2.0	69.6	75.8	85.3	90.4
	≤ Level 1.5	74.8	83.1	85.7	
	≤ Level 1.0	78.7	80.9		

## PPV Matrix for the Patient Care Subcompetency 3 in Family Medicine: Partners with the patient, family, and community to improve health through disease prevention and health promotion.

The table shown in this example provides a matrix of all PPVs by Milestone rating threshold and Milestone review occasions for a single subcompetency for a single specialty. The tables that follow the box plots in this report for each specialty provide the PPV matrices for the core specialties and subcompetencies for which mid-year data was available as of January 2020.

PPVs are provided to help identify residents within a program who may be struggling to match normative national data during each six-month block of the educational program. This can then be used to support decisions for remediation or individualized learning plans.

## Specialty Box Plot Report - Milestone Evaluation by Resident Year: Mid-Year 2019-2020

#### Specialty: Allergy and Immunology

Resident Year	1	2	Total Residents
# of Residents	152	157	309

1. Patient Care - Medical Interview and Physical Examination: Conducts comprehensive and detailed medical ...



plans for allergic and immunologic disorders ...



5. Medical Knowledge - Understands, applies and teaches others established and evolving biomedical, clinical ...



Note: Please reference milestone narrative for full text.

3. Patient Care - Management Plan: Designs appropriate management







6. Systems-Based Practice - Utilizes/accesses outside resources. Demonstrates awareness of and accommodation ...



## Specialty Box Plot Report - Milestone Evaluation by Resident Year: Mid-Year 2019-2020

#### Specialty: Allergy and Immunology

7. Practice-Based Learning and Improvement - Research and Scholarly Activity: Actively participates in ...



9. Professionalism - Exhibits ethical and responsible behavior, including respect, compassion, honesty,  $\dots$ 



8. Practice-Based Learning and Improvement - Self-evaluates performance. Incorporates feedback. Identifies ...



10. Interpersonal and Communication Skills - Provides team-based care and develops productive relationships  $\dots$ 



Note: Please reference milestone narrative for full text.

## PPV Table 4a - Milestone Evaluation by Resident Year: Mid-Year 2019-2020

#### Specialty: Allergy and Immunology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PC01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5	46.0	42.3
	$\leq$ Level 3.0	54.3	54.5
	$\leq$ Level 2.5	77.6	74.6
	$\leq$ Level 2.0	69.2	
	≤ Level 1.5		
	$\leq$ Level 1.0		
PC02			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	≤ Level 4.0		48.7
	$\leq$ Level 3.5	51.3	58.7
	$\leq$ Level 3.0	60.4	75.0
	$\leq$ Level 2.5	75.1	89.5
	$\leq$ Level 2.0	75.2	80.8
	$\leq$ Level 1.5	86.0	
	$\leq$ Level 1.0		
PC03			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5	48.7	
	$\leq$ Level 3.0	57.2	77.1
	$\leq$ Level 2.5	80.8	78.4
	$\leq$ Level 2.0	82.8	75.3
	$\leq$ Level 1.5	78.7	
	$\leq$ Level 1.0		
PC04			
	$\leq$ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	$\leq$ Level 3.5	44.4	51.6
	≤ Level 3.0	51.0	65.1
	$\leq$ Level 2.5	67.4	82.1
	$\leq$ Level 2.0	63.8	
	≤ Level 1.5	81.1	
	≤ Level 1.0		

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## PPV Table 4a - Milestone Evaluation by Resident Year: Mid-Year 2019-2020

#### Specialty: Allergy and Immunology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
MK01			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5	50.2	59.0
	≤ Level 3.0	61.4	74.4
	≤ Level 2.5	69.6	94.4
	≤ Level 2.0	79.2	66.8
	≤ Level 1.5	68.0	
	≤ Level 1.0		
SBP01			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5	50.3	59.9
	$\leq$ Level 3.0	61.3	78.4
	≤ Level 2.5	78.5	89.8
	≤ Level 2.0	81.9	
	≤ Level 1.5	76.5	
	≤ Level 1.0		
PBLI01			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		63.0
	≤ Level 3.0	65.4	76.5
	≤ Level 2.5	75.3	80.4
	≤ Level 2.0	74.4	83.4
	≤ Level 1.5	81.7	86.2
	≤ Level 1.0	76.0	65.1
PBLI02			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		48.3
	≤ Level 3.5	53.9	62.0
	≤ Level 3.0	65.1	78.5
	≤ Level 2.5	77.2	93.3
	≤ Level 2.0	80.4	
	≤ Level 1.5		
	≤ Level 1.0		

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## PPV Table 4a - Milestone Evaluation by Resident Year: Mid-Year 2019-2020

#### Specialty: Allergy and Immunology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PROF01			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5	46.9	51.0
	$\leq$ Level 3.0	54.2	71.3
	$\leq$ Level 2.5	75.9	
	≤ Level 2.0	82.3	
	≤ Level 1.5		
	≤ Level 1.0		
ICS01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		35.1
	≤ Level 3.5	44.0	51.5
	≤ Level 3.0	53.0	79.6
	≤ Level 2.5	63.4	93.0
	≤ Level 2.0	72.3	
	$\leq$ Level 1.5		
	$\leq$ Level 1.0		

## Specialty Box Plot Report - Milestone Evaluation by Resident Year: Mid-Year 2019-2020

#### **Specialty: Anesthesiology**

Resident Year	1	2	3	4	Total Residents
# of Residents	1,341	1,864	1,827	1,748	6,780

1. Patient Care - Patient Care 1: Pre-anesthetic Patient Evaluation, Assessment, and Preparation



#### 3. Patient Care - Patient Care 3: Peri-procedural pain management



5. Patient Care - Patient Care 5: Crisis Management



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Patient Care 2: Anesthetic Plan and Conduct

4. Patient Care - Patient Care 4: Management of perianesthetic complications



6. Patient Care - Patient Care 6: Triage and management of the criticallyill patient in a nonoperative setting


#### **Specialty: Anesthesiology**

7. Patient Care - Patient Care 7: Acute, chronic, and cancer-related pain consultation and management



9. Patient Care - Patient Care 9: Technical skills: Use and Interpretation of Monitoring and Equipment



11. Medical Knowledge - Medical Knowledge 1: Knowledge of biomedical, clinical, epidemiological, and social-behavioral ...



Note: Please reference milestone narrative for full text.



10. Patient Care - Patient Care 10: Technical skills: Regional anesthesia







#### 8. Patient Care - Patient Care 8: Technical skills: Airway management

#### **Specialty: Anesthesiology**

13. Systems-Based Practice - Systems-Based Practice 2: Patient Safety and Quality Improvement



15. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 2: Analysis of practice ...



17. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 4: Education of patient, ...



14. Practice-Based Learning and Improvement - Practice-Based Learning



16. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 3: Self-directed learning



18. Professionalism - Professionalism 1: Responsibility to patients, families, and society



### Specialty: Anesthesiology

19. Professionalism - Professionalism 2: Honesty, integrity, and ethical behavior



21. Professionalism - Professionalism 4: Receiving and giving feedback



23. Interpersonal and Communication Skills - Interpersonal Communication Skills 1: Communication with patients and families



20. Professionalism - Professionalism 3: Commitment to institution, department, and colleagues







24. Interpersonal and Communication Skills - Interpersonal Communication Skills 2: Communication with other professionals



### **Specialty: Anesthesiology**

25. Interpersonal and Communication Skills - Interpersonal Communication Skills 3: Team and leadership skills



### Specialty: Anesthesiology

<u></u>	-	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
Subcompetency	Threshold	Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PC01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						41.9
	$\leq$ Level 3.5					42.2	45.0
	$\leq$ Level 3.0					44.0	59.4
	$\leq$ Level 2.5			42.2	43.9	68.0	72.7
	$\leq$ Level 2.0		41.8	44.2	58.3	72.3	70.4
	$\leq$ Level 1.5	41.9	43.2	66.1	72.2	51.2	78.9
	$\leq$ Level 1.0	42.6	46.0	71.5			
PC02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					41.1	42.9
	$\leq$ Level 3.0				41.0	43.0	56.0
	$\leq$ Level 2.5			41.0	42.9	64.9	64.8
	$\leq$ Level 2.0		40.7	41.2	51.9	67.4	71.9
	$\leq$ Level 1.5	40.9	41.9	56.4	61.2	51.8	
	$\leq$ Level 1.0	41.0	42.7	52.7			
PC03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						45.2
	$\leq$ Level 3.5						47.8
	$\leq$ Level 3.0			44.9		46.5	59.0
	$\leq$ Level 2.5			45.2	46.6	66.5	69.2
	$\leq$ Level 2.0		44.9	46.7	54.7	66.8	70.3
	≤ Level 1.5	45.1	46.7	58.2	62.2	58.7	40.4
	≤ Level 1.0	46.7	47.6	56.1	42.2	45.0	
PC04							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5				46.8	47.4	49.5
	$\leq$ Level 3.0			46.8	47.4	49.1	59.3
	$\leq$ Level 2.5		46.7	47.6	49.4	67.1	75.1
	$\leq$ Level 2.0	46.8	46.8	49.3	57.6	67.3	77.9
	$\leq$ Level 1.5	46.9	47.9	59.1	57.1	49.1	
	$\leq$ Level 1.0	47.4	48.7	53.8	26.5		

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### Specialty: Anesthesiology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC05		inite real		inia real			
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						46.1
	$\leq$ Level 3.5					46.6	48.9
	≤ Level 3.0			46.3	46.6	47.7	61.7
	$\leq$ Level 2.5	46.2	46.2	46.4	48.3	67.5	71.6
	≤ Level 2.0		46.3	47.1	60.6	67.7	75.8
	≤ Level 1.5	46.4	47.9	58.7	65.2	56.6	
	$\leq$ Level 1.0	48.3	50.5	58.0	54.3	44.2	
PC06							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						48.1
	$\leq$ Level 3.5				47.6	47.8	51.3
	≤ Level 3.0	47.4		47.5	48.2	50.3	61.5
	≤ Level 2.5	47.5	47.5	47.8	48.9	65.5	67.1
	≤ Level 2.0	47.7	47.7	49.2	57.2	65.4	76.4
	≤ Level 1.5	48.0	49.4	54.4	59.0	61.3	82.1
	$\leq$ Level 1.0	49.0	51.6	54.7	62.6	62.6	
PC07							
PC07	≤ Level 5.0						
	$\leq$ Level 3.0 $\leq$ Level 4.5						50.2
	$\leq$ Level 4.0					50.3	50.2
	$\leq$ Level 3.5				50.3	50.3	52.7
	≤ Level 3.0			50.2	50.2	52.6	60.1
	$\leq$ Level 3.0			50.2			73.0
			50.2		52.1	63.0	73.0
	≤ Level 2.0 ≤ Level 1.5	50.1	50.3 51.1	51.0 55.2	58.1 57.4	60.6 61.3	63.5
	$\leq$ Level 1.0	50.6	51.7	53.0	56.7	65.2	54.7
DC00							
PC08							
	$\leq$ Level 5.0 $\leq$ Level 4.5						
	$\leq$ Level 4.5 $\leq$ Level 4.0						
						41.0	44.0
	$\leq$ Level 3.5					41.8	44.2
	≤ Level 3.0	44.0	41.0	41.4	40.0	44.8	54.5
	≤ Level 2.5	41.0	41.0	41.4	42.8	68.3	67.6
	≤ Level 2.0	41.0	41.0	42.5	54.4	71.7	80.4
	$\leq$ Level 1.5 $\leq$ Level 1.0	41.3 41.3	42.5 43.5	58.4 63.6	63.1		

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### Specialty: Anesthesiology

Subcompetency	Threshold	Yr1,	Yr1, Voor End	Yr2,	Yr2, Voor End	Yr3, Mid Voor	Yr3, Voor End
PC09		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
	≤ Level 5.0						
	≤ Level 4.5						44.8
	≤ Level 4.0						44.9
	≤ Level 3.5					45.1	48.7
	≤ Level 3.0					48.0	58.5
	≤ Level 2.5		44.8	44.9	46.7	68.3	66.0
	≤ Level 2.0	44.9	44.9	45.6	55.0	69.7	86.6
	≤ Level 1.5	44.8	45.6	59.3	56.7		
	≤ Level 1.0	45.6	48.9	69.4	44.1		
PC10							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5				46.4	46.3	49.7
	≤ Level 3.0			46.3	46.4	49.1	59.7
	≤ Level 2.5		46.4	46.3	47.9	58.8	56.9
	$\leq$ Level 2.0		46.4	48.6	54.0	66.8	55.2
	≤ Level 1.5	46.5	47.1	55.6	53.4	55.0	51.6
	$\leq$ Level 1.0	47.0	48.6	56.1	44.1	40.2	
MK01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						56.7
	$\leq$ Level 3.5				56.2	56.9	60.7
	$\leq$ Level 3.0	55.9			56.4	59.6	69.7
	$\leq$ Level 2.5	55.9	56.3	56.9	59.3	71.7	76.7
	$\leq$ Level 2.0	55.9	56.6	58.1	66.4	78.6	87.7
	$\leq$ Level 1.5	56.8	59.0	68.7	73.8	82.9	96.0
	$\leq$ Level 1.0	57.5	60.6	71.0	85.9		
SBP01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5	45.0				45.3	47.2
	$\leq$ Level 3.0	45.2			45.5	46.6	58.1
	$\leq$ Level 2.5	45.1		45.4	46.2	64.4	68.1
	$\leq$ Level 2.0	45.1	45.1	46.3	53.4	60.9	91.6
	$\leq$ Level 1.5	45.5	46.4	54.6	70.5	72.9	
	$\leq$ Level 1.0	46.9	50.7	62.0			

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### Specialty: Anesthesiology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
SBP02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0					48.2	
	$\leq$ Level 3.5			48.3	48.3	48.7	51.1
	$\leq$ Level 3.0	48.3		48.3	48.7	50.3	59.8
	$\leq$ Level 2.5	48.2		48.5	50.0	63.1	70.5
	$\leq$ Level 2.0	48.2	48.2	49.2	52.7	63.5	83.9
	$\leq$ Level 1.5	48.3	48.7	54.9	66.7	42.7	
	$\leq$ Level 1.0	48.8	52.7	58.7			
PBLI01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5	48.1				49.0	51.0
	$\leq$ Level 3.0	48.2			48.7	50.9	60.4
	$\leq$ Level 2.5	48.2	48.1	48.4	49.6	62.9	69.8
	$\leq$ Level 2.0	48.0	48.2	50.0	56.7	56.7	65.8
	$\leq$ Level 1.5	48.7	49.6	57.8	63.0	60.8	
	$\leq$ Level 1.0	50.2	51.5	55.8	62.6		
PBLI02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						48.6
	$\leq$ Level 3.5	48.4			48.5	49.1	51.1
	$\leq$ Level 3.0	48.6			49.2	50.5	60.5
	$\leq$ Level 2.5	48.6		48.9	49.8	65.9	71.4
	$\leq$ Level 2.0	48.5	48.6	49.5	57.3	61.3	80.4
	$\leq$ Level 1.5	48.9	49.2	56.4	62.5	57.4	
	≤ Level 1.0	49.2	53.4	51.9			
PBLI03							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5	44.8				45.2	47.5
	≤ Level 3.0	44.6				47.2	57.8
	≤ Level 2.5	44.5		44.8	46.9	66.4	75.5
	≤ Level 2.0	44.8	44.8	45.7	56.0	66.0	81.3
	≤ Level 1.5	45.6	45.9	55.3	71.8	55.3	
	≤ Level 1.0	46.1	51.9	50.2	54.0	53.2	

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### Specialty: Anesthesiology

		Net	N.d.	¥-0	¥-0	¥-0 ¥-0		
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PBLI04								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	≤ Level 3.5					40.0	42.8	
	≤ Level 3.0	39.5		39.5		42.9	55.2	
	≤ Level 2.5	39.5		39.9	41.3	66.7	66.3	
	$\leq$ Level 2.0	39.5	39.5	40.8	49.4	67.8	84.3	
	≤ Level 1.5	39.7	40.4	53.2	73.8	53.0		
	$\leq$ Level 1.0	40.8	44.8	46.5				
PROF01								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0					38.2	38.5	
	$\leq$ Level 3.5	38.2			38.2	39.3	41.5	
	$\leq$ Level 3.0	38.3			38.9	41.5	57.4	
	$\leq$ Level 2.5	38.3	38.2	38.3	40.5	67.1	66.9	
	$\leq$ Level 2.0	38.4	38.5	39.5	47.7	73.9	83.7	
	≤ Level 1.5	38.5	38.7	48.8	67.4	71.4	86.0	
	$\leq$ Level 1.0	40.1	44.5	56.7				
PROF02								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5				43.8			
	$\leq$ Level 4.0			43.8	43.8		44.1	
	$\leq$ Level 3.5	43.8		43.9	43.9	45.1	46.2	
	$\leq$ Level 3.0	43.8		43.8	44.9	47.3	55.2	
	$\leq$ Level 2.5	43.9	43.9	44.1	46.7	67.8	76.8	
	$\leq$ Level 2.0	44.0	43.9	45.5	54.1	70.2	83.6	
	$\leq$ Level 1.5	44.3	44.2	53.6	70.7	63.9	75.4	
	$\leq$ Level 1.0	45.6	47.1	69.8			66.8	
PROF03								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0					38.1	38.8	
	$\leq$ Level 3.5	38.3				39.1	42.0	
	$\leq$ Level 3.0	38.0		38.2	38.8	42.2	54.6	
	$\leq$ Level 2.5	38.1	38.0	38.3	41.7	62.1	66.2	
	$\leq$ Level 2.0	38.5	38.1	39.5	48.2	70.8	64.6	
	$\leq$ Level 1.5	39.2	39.7	45.0	64.8	69.9	53.7	
	≤ Level 1.0	40.2	42.8	41.9	70.1	66.8		

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### Specialty: Anesthesiology

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PROF04	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						44.0
	$\leq$ Level 3.5					44.8	47.8
	$\leq$ Level 3.0	43.9				47.9	60.6
	$\leq$ Level 2.5	43.9	44.0	43.8	46.7	67.0	67.4
	$\leq$ Level 2.0	43.9	44.3	45.0	54.4	70.1	72.0
	≤ Level 1.5	45.3	44.4	49.0	73.3	71.2	82.3
	$\leq$ Level 1.0	45.7	48.5	62.0	70.0	62.5	57.7
		1017	10.0	02.0		02.0	0
PROF05							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						40.4
	$\leq$ Level 4.0						41.1
	$\leq$ Level 3.5					41.8	43.5
	≤ Level 3.0		40.6			43.7	55.5
	≤ Level 2.5	40.5	40.6	41.0	43.8	62.0	69.4
	≤ Level 2.0	40.5	40.5	42.5	53.4	64.4	69.5
	≤ Level 1.5	41.5	41.4	48.5	64.6	58.2	
	≤ Level 1.0	43.3	44.2	55.4	57.3	63.3	
ICS01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						44.6
	$\leq$ Level 3.5	44.2		44.3	44.7	44.9	46.7
	$\leq$ Level 3.0	44.4		44.3	45.6	47.5	58.5
	≤ Level 2.5	44.3	44.2	45.0	47.1	65.4	71.7
	$\leq$ Level 2.0	44.4	44.2	46.1	52.9	66.9	79.5
	$\leq$ Level 1.5	44.5	45.2	53.2	71.4	48.3	
	≤ Level 1.0	47.6	50.3	55.6		32.1	
ICS02							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						45.0
	≤ Level 3.5	44.7				45.3	47.7
	≤ Level 3.0	44.7	44.7	44.8	45.9	47.6	63.7
	≤ Level 2.5	44.6	44.6	45.1	47.4	66.7	75.5
	≤ Level 2.0	44.7	44.6	46.4	54.0	61.2	80.7
	≤ Level 1.5	45.7	46.7	53.8	75.2	59.0	44.9
	≤ Level 1.0	48.3	51.6	58.7	74.5	41.7	44.9

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### Specialty: Anesthesiology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
ICS03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						44.7
	$\leq$ Level 3.5	43.9			43.9	44.7	47.7
	$\leq$ Level 3.0	44.0		44.0	45.0	47.6	60.5
	$\leq$ Level 2.5	44.0		44.7	47.8	60.7	77.6
	≤ Level 2.0	43.9	43.9	46.0	54.7	59.3	78.8
	≤ Level 1.5	45.0	46.5	54.0	68.2	49.0	
	≤ Level 1.0	46.2	50.2	56.3	56.6	66.6	

### Subspecialty: Adult Cardiothoracic Anesthesiology

Resident Year	1	Total Residents
# of Residents	226	226

1. Patient Care – Patient Care — Peri-procedural Assessment and Management



# 3. Medical Knowledge - Medical Knowledge — Extracorporeal Circulation and Circulatory Assist Device Principles



# 5. Medical Knowledge - Medical Knowledge — Cardiovascular/Thoracic Pathophysiology and Pharmacology



Note: Please reference milestone narrative for full text.

Level 3 Level 4 Level 2 Level 1 Level 1 Resident Year

# 4. Medical Knowledge - Medical Knowledge — Cardiovascular/Thoracic Imaging and Monitoring







### 2. Patient Care - Patient Care - Technical/Procedural Skills

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#### Subspecialty: Adult Cardiothoracic Anesthesiology

7. Systems-Based Practice - Systems-Based Practice -Interprofessional and Transitions of Care



9. Systems-Based Practice - Systems-Based Practice - Understanding of Health Care Economics: Cost Awareness ...



11. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement - Education of Team Members and Other ...





8. Systems-Based Practice - Systems-Based Practice — Incorporation of Patient Safety and Quality Improvement into Clinical ...











### Subspecialty: Adult Cardiothoracic Anesthesiology

13. Professionalism - Professionalism - Receiving and Giving Feedback



15. Interpersonal and Communication Skills - Interpersonal and Communications Skills — Communication with Patients and Families



14. Professionalism - Professionalism — Responsibility to Maintain Personal, Emotional, Physical, and Mental Health



#### **Subspecialty: Critical Care Medicine**

Resident Year	1	Total Residents
# of Residents	203	203

#### 1. Patient Care - Patient Care: Patient Assessment and Development of a Care Plan





#### 5. Patient Care - Patient Care: Palliative Medicine/End-of-Life Care



Note: Please reference milestone narrative for full text.



### 2. Patient Care - Patient Care: Crisis Management



#### 4. Patient Care - Patient Care: Management of Respiratory Failure



#### 6. Medical Knowledge - Medical Knowledge: Pharmacology



#### Subspecialty: Critical Care Medicine

7. Medical Knowledge - Medical Knowledge: Medical Knowledge of Critical Care Medicine



# 9. Systems-Based Practice - Systems-Based Practice: Incorporation of Patient Safety and Quality Improvement into Clinical Practice



11. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement: Self-directed Learning and Scholarly ...



8. Systems-Based Practice - Systems-Based Practice: Interprofessional and Transitions of Care











#### **Subspecialty: Critical Care Medicine**

13. Professionalism - Professionalism: Commitment to Institution, Department, and Colleagues



15. Professionalism - Professionalism: Responsibility to Maintain Personal Emotional, Physical, and Mental Health









Note: Please reference milestone narrative for full text.

### 14. Professionalism - Professionalism: Receiving and Giving Feedback

### Subspecialty: Obstetric Anesthesiology

Resident Year	1	Total Residents
# of Residents	39	39

#### 1. Patient Care - Patient Care: Technical Skills



3. Patient Care - Patient Care: Crisis Management and Management of Complications



#### 5. Medical Knowledge - Medical Knowledge: Obstetric Anesthesiology



Note: Please reference milestone narrative for full text.



# 2. Patient Care - Patient Care: Triage and Coordination of Obstetric Anesthesia Care





6. Medical Knowledge - Medical Knowledge: Obstetrics and Neonatology Knowledge Applied to Obstetric Anesthesiology



#### Subspecialty: Obstetric Anesthesiology

7. Systems-Based Practice - Systems-Based Practice: Interprofessional and Transitions of Care



# 9. Systems-Based Practice - Systems-Based Practice: Understanding of Health Care Economics: Cost-awareness ...



11. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement: Education of Team  $\ldots$ 



8. Systems-Based Practice - Systems-Based Practice: Incorporation of Patient Safety and Quality Improvement into Clinical Practice



10. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement: Self-directed Learning and Scholarly ...







### Subspecialty: Obstetric Anesthesiology

13. Professionalism - Professionalism: Receiving and Giving of Feedback



15. Interpersonal and Communication Skills - Interpersonal and Communications Skills: Communication with Patients and Families



14. Professionalism - Professionalism: Responsibility to Maintain Personal, Emotional, Physical, and Mental Health



#### Subspecialty: Pain Medicine (multidisciplinary)

Resident Year	1	Total Residents
# of Residents	403	403

1. Patient Care - Patient Care - Gathers and Synthesizes Essential and Accurate Information to Define Each  $\ldots$ 



# 3. Patient Care - Patient Care - Gathers and Synthesizes Essential and Accurate Information to Define Each $\ldots$



# 5. Patient Care - Patient Care - Demonstrates Skill in Performing and Interpreting Diagnostic and Therapeutic ...



Note: Please reference milestone narrative for full text.





4. Patient Care - Patient Care - In Collaboration with the Patient, Develops and Achieves a Comprehensive ...







#### Subspecialty: Pain Medicine (multidisciplinary)

7. Medical Knowledge - Medical Knowledge - Possesses Clinical Knowledge • Anatomy, physiology, and pharmacology ...



#### 9. Medical Knowledge - Medical Knowledge - Participates in Scholarship (Foundation, Investigation, Analysis, and Dissemination)



11. Systems-Based Practice - Systems-Based Practice - Recognizes System-based Error and Advocates for System Improvement







10. Systems-Based Practice - Systems-Based Practice - Works Effectively Within an Interprofessional Team (e.g., with peers, ...







#### Subspecialty: Pain Medicine (multidisciplinary)

13. Systems-Based Practice - Systems-Based Practice - Transitions Patients Effectively Within and Across Health Delivery Systems



# 15. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Learns and Improves via Performance ...



17. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Learns and Improves at the Point of  $\ldots$ 



Level 5



14. Practice-Based Learning and Improvement - Practice-Based Learning

and Improvement - Monitors Practice with a Goal for Improvement





18. Professionalism - Professionalism – Has Professional and Respectful Interactions with Patients, Caregivers, and Members  $\ldots$ 



#### Subspecialty: Pain Medicine (multidisciplinary)

19. Professionalism - Professionalism - Accepts Responsibility and Follows through on Tasks



21. Professionalism - Professionalism – Exhibits Integrity and Ethical Behavior in Professional Conduct



23. Interpersonal and Communication Skills - Interpersonal and Communication Skills - Communicates Effectively ...



20. Professionalism - Professionalism - Responds to each Patient's Unique Characteristics and Needs







24. Interpersonal and Communication Skills - Interpersonal and Communication Skills – Appropriately Utilizes and Completion  $\ldots$ 



### Subspecialty: Pediatric Anesthesiology

Resident Year	1	Total Residents
# of Residents	218	218

1. Patient Care - Patient Care: Pre-Anesthetic Patient Evaluation, Assessment, and Preparation



#### 3. Patient Care - Patient Care: Perioperative Planning and Management







Note: Please reference milestone narrative for full text.





4. Medical Knowledge - Medical Knowledge: Knowledge of Biomedical, Epidemiologic, and Developmental Sciences ...







#### Subspecialty: Pediatric Anesthesiology

7. Systems-Based Practice - Systems-Based Practice: Incorporation of Patient Safety and Quality Improvement into Clinical Practice



# 9. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement: Self-directed Learning and Scholarly ...



11. Professionalism - Professionalism: Commitment to Institution, Department, and Colleagues



Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - Systems-Based Practice: Understanding of Health Care Economics: Cost Awareness ...









12. Professionalism - Professionalism: Receiving and Giving of Feedback

### Subspecialty: Pediatric Anesthesiology

13. Professionalism - Professionalism: Responsibility to Maintain Personal Emotional, Physical, and Mental Health





14. Interpersonal and Communication Skills - Interpersonal and Communications Skills: Communication with Patients and Families

#### Subspecialty: Regional Anesthesiology and Acute Pain Medicine

Resident Year	1	Total Residents
# of Residents	72	72

1. Patient Care - Patient Care 1: Peri-Procedural Assessment and Management



#### 3. Patient Care - Patient Care 3: Technical/Procedural Skills



5. Medical Knowledge - Medical Knowledge 2: Procedures and Techniques (includes indications and contraindications, ...



Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 Level 2 Level 1 I Resident Year

#### 2. Patient Care - Patient Care 2: Acute Pain Management





6. Medical Knowledge - Medical Knowledge 3: Assessment of Acute Pain



#### Subspecialty: Regional Anesthesiology and Acute Pain Medicine

7. Systems-Based Practice - Systems-based Practice 1: Patient Safety and Quality Improvement



9. Systems-based Practice - Systems-based Practice 3: Physician Role in Health Care Systems



11. Practice-based Learning and Improvement - Practice-based Learning and Improvement 2: Reflective Practice and Commitment ...



8. Systems-Based Practice - Systems-based Practice 2: System Navigation for Patient-Centered Care











### Subspecialty: Regional Anesthesiology and Acute Pain Medicine



15. Interpersonal and Communication Skills - Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication



17. Interpersonal and Communication Skills - Interpersonal and Communication Skills 3: Communication within Health Care Systems



Note: Please reference milestone narrative for full text.



16. Interpersonal and Communication Skills - Interpersonal and Communication Skills 2: Interprofessional and Team Communication



#### **Specialty: Colon and Rectal Surgery**

Resident Year	1	Total Residents	
# of Residents	105	105	

#### 1. Patient Care - Benign Perianal and Anal Disease Processes



# Level 5 Level 4 Level 3 Level 2 Level 1 1 Resident Year

### 2. Patient Care - Colonic Neoplasia (polyps, colon cancer, polyposis)

#### 4. Patient Care - Large Bowel Obstruction





#### 5. Patient Care - Rectal Cancer

3. Patient Care - Crohn's Disease



Note: Please reference milestone narrative for full text.

#### 6. Patient Care - Rectal Prolapse



### **Specialty: Colon and Rectal Surgery**

7. Patient Care - Rectovaginal (RV) Fistula



#### 9. Medical Knowledge - Benign Perianal and Anal Disease Processes





#### 10. Medical Knowledge - Colonic Neoplasia

12. Medical Knowledge - Large Bowel Obstruction

8. Patient Care - Pelvic Floor Disorders









### **Specialty: Colon and Rectal Surgery**

13. Medical Knowledge - Rectal Cancer



### 14. Medical Knowledge - Rectal Prolapse



#### 15. Medical Knowledge - Rectovaginal Fistula



#### 16. Medical Knowledge - Pelvic Floor Disorders











#### **Specialty: Colon and Rectal Surgery**

19. Practice-Based Learning and Improvement - • Self-evaluates performance • Incorporates feedback • Identifies ...



20. Professionalism -  $\bullet$  Exhibits ethical and responsible behavior, including respect, compassion, honesty, ...



21. Interpersonal and Communication Skills - • Provides team-based care and develops productive relationships ...



#### **Specialty: Dermatology**

Resident Year	1	2	3	Total Residents
# of Residents	520	512	493	1,525

1. Patient Care - PC1. History, Examination, and Presentation



#### 3. Patient Care - PC3. Dermatopathology Application



5. Patient Care - PC5. Pediatric Treatment



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - PC2. Diagnostic Tests

### 4. Patient Care - PC4. Medical Treatment



#### 6. Patient Care - PC6. Surgical Treatment



### **Specialty: Dermatology**

7. Patient Care - PC7. Diagnosis, Management Decisions and Patient Education



9. Medical Knowledge - MK2. Pediatric Dermatology









**Resident Year** 

10. Medical Knowledge - MK3. Dermatologic Surgery






#### Specialty: Dermatology

13. Systems-Based Practice - SBP1. Adapts easily and works effectively in various health care delivery settings and systems



15. Systems-Based Practice - SBP3. Improves health care delivery by identifying system errors and implementing ...



17. Practice-Based Learning and Improvement - PBLI1. Appraise and assimilate scientific evidence



14. Systems-Based Practice - SBP2. Works effectively within an interprofessional team



16. Systems-Based Practice - SBP4. Practices cost-conscious care (for patients and populations)



18. Practice-Based Learning and Improvement - PBLI2. Continuously improve through self-assessment of competence



#### Specialty: Dermatology

19. Practice-Based Learning and Improvement - PBLI3. Integrate quality improvement concepts and activities in practice



21. Professionalism - PROF1. Practices medicine ethically









22. Professionalism - PROF2. Committed to lifelong learning and improvement







Note: Please reference milestone narrative for full text.

20. Practice-Based Learning and Improvement - PBLI4. Teach others

#### Specialty: Dermatology

25. Interpersonal and Communication Skills - ICS2. Having Difficult Conversations



27. Interpersonal and Communication Skills - ICS4. Communication and Consultation with Other Physicians



26. Interpersonal and Communication Skills - ICS3. Team Member Respect and Care Coordination



28. Interpersonal and Communication Skills - ICS5. Medical Documentation



### Specialty: Dermatology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				44.3
	$\leq$ Level 3.5			45.4	50.8
	$\leq$ Level 3.0			51.8	71.1
	$\leq$ Level 2.5	45.1	49.2	66.1	77.4
	$\leq$ Level 2.0	47.2	59.5	87.2	68.3
	≤ Level 1.5	62.2	71.5		
	≤ Level 1.0	61.8	63.7		
PC02					
	≤ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0				50.3
	≤ Level 3.5				56.0
	≤ Level 3.0			56.4	70.9
	≤ Level 2.5	51.0	54.0	67.6	75.7
	≤ Level 2.0	53.1	59.5	82.3	76.6
	≤ Level 1.5	59.7	65.6	80.8	
	≤ Level 1.0	64.0	57.6		
PC03					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				60.8
	≤ Level 3.5			62.6	66.6
	≤ Level 3.0			68.9	82.5
	≤ Level 2.5	61.0	65.1	74.6	85.2
	≤ Level 2.0	64.0	71.3	86.6	78.3
	≤ Level 1.5	71.1	80.0	74.8	10.0
	$\leq$ Level 1.0	68.6	76.6		
PC04					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				44.4
	$\leq$ Level 3.5			46.5	48.3
	$\leq$ Level 3.0	44.4		50.6	71.2
	$\leq$ Level 2.5	44.4	48.1	65.7	79.5
	$\leq$ Level 2.0	44.3	56.8	85.0	73.5
	$\leq$ Level 2.0 $\leq$ Level 1.5	54.9	75.9	00.0	
	$\leq$ Level 1.0	58.7	61.7		

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## Specialty: Dermatology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				53.4
	$\leq$ Level 3.5			56.2	59.1
	$\leq$ Level 3.0	53.7		60.4	75.7
	$\leq$ Level 2.5	54.3	58.1	73.3	88.2
	$\leq$ Level 2.0	56.9	66.3	82.1	77.0
	$\leq$ Level 1.5	63.3	75.7	52.6	
	≤ Level 1.0	71.2	69.7	35.8	
PC06					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				51.3
	≤ Level 3.5			52.3	57.1
	≤ Level 3.0	51.4	52.1	58.9	70.7
	≤ Level 2.5	51.6	54.4	70.9	82.8
	≤ Level 2.0	52.2	60.3	77.6	
	≤ Level 1.5	60.0	67.2		
	≤ Level 1.0	63.2	43.6		
PC07					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				44.6
	≤ Level 3.5	43.9		46.7	50.2
	≤ Level 3.0	45.0		52.0	72.5
	≤ Level 2.5	44.9	47.9	67.2	82.0
	≤ Level 2.0	48.4	56.9	82.3	74.7
	≤ Level 1.5	57.9	69.6		
	≤ Level 1.0	66.6	62.0		
MK01					
-	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				45.7
	≤ Level 3.5	45.3		47.9	51.0
	$\leq$ Level 3.0	46.2		54.8	75.0
	≤ Level 2.5	47.3	50.2	68.7	80.3
	≤ Level 2.0	47.7	61.1	80.3	60.1
	$\leq$ Level 1.5	61.9	74.7		00.1
	$\leq$ Level 1.0	70.8	61.1		

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## Specialty: Dermatology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
MK02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				56.0
	$\leq$ Level 3.5	55.7		58.7	61.0
	$\leq$ Level 3.0	56.2	56.8	62.6	76.2
	$\leq$ Level 2.5	57.7	59.1	77.8	89.8
	$\leq$ Level 2.0	59.4	73.8	84.8	71.2
	≤ Level 1.5	70.6	79.8	53.9	
	≤ Level 1.0	73.4	74.8	26.9	
MK03					
	≤ Level 5.0				
	≤ Level 4.5				
	≤Level 4.0				50.4
	≤ Level 3.5			51.4	55.0
	≤ Level 3.0	50.1	50.5	55.5	72.6
	≤ Level 2.5	49.8	53.2	68.6	79.1
	≤ Level 2.0	51.0	60.1	78.4	69.5
	≤ Level 1.5	58.3	68.5	50.1	
	≤ Level 1.0	57.6	52.3		
MK04					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				58.9
	≤ Level 3.5	58.8		60.7	64.2
	≤ Level 3.0	59.1	59.2	67.1	84.8
	≤ Level 2.5	60.1	63.1	76.4	89.6
	≤ Level 2.0	62.0	71.9	81.2	83.8
	≤ Level 1.5	74.4	77.3	72.4	
	≤ Level 1.0	68.1	81.6		
MK05					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				52.4
	≤ Level 3.5	52.1		55.3	57.4
	≤ Level 3.0	52.2	53.4	59.8	72.3
	≤ Level 2.5	54.1	57.1	72.9	84.5
	≤ Level 2.0	56.8	65.4	74.8	84.5
	≤ Level 1.5	64.7	75.2		
	$\leq$ Level 1.0	68.7	70.9		

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## Specialty: Dermatology

SBP01	≤ Level 5.0 ≤ Level 4.5				
	< Level 4.5				
	$\leq$ Level 4.0			43.1	43.7
	$\leq$ Level 3.5	43.0		45.2	50.1
	$\leq$ Level 3.0	43.5		48.8	65.4
	$\leq$ Level 2.5	45.1	47.9	68.2	71.8
	≤ Level 2.0	46.5	58.1	77.8	68.4
	≤ Level 1.5	58.7	69.6	73.3	
	$\leq$ Level 1.0	60.3	56.8		
SBP02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				44.1
	≤ Level 3.5	43.9		47.3	51.9
	≤ Level 3.0	44.3	44.7	50.9	65.1
	≤ Level 2.5	44.5	47.8	66.6	75.1
	≤ Level 2.0	47.6	59.6	82.3	68.9
	≤ Level 1.5	57.4	69.8		
	≤ Level 1.0	68.5	59.2		
SBP03					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				51.9
	≤ Level 3.5	51.7		53.3	57.3
	$\leq$ Level 3.0	52.0	51.8	55.6	68.0
	$\leq$ Level 2.5	52.8	55.0	69.3	77.0
	$\leq$ Level 2.0	53.6	61.3	74.5	61.6
	$\leq$ Level 1.5	58.0	73.4	14.0	01.0
	$\leq$ Level 1.0	59.6	53.0		
SBP04					
	≤ Level 5.0				
	$\leq$ Level 4.5				
					53.3
	≤ Level 4.0	59.1	59.1	-59 A	53.3
	≤ Level 3.5	53.1	53.1	53.4	
	≤ Level 3.0	53.5	53.3	57.4	68.3
	≤ Level 2.5	52.8	56.2	68.4	75.8
	≤ Level 2.0	54.0	62.8	68.8	72.4
	$\leq$ Level 1.5 $\leq$ Level 1.0	61.7 56.2	68.6 54.0		

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## Specialty: Dermatology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PBLI01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				50.6
	$\leq$ Level 4.0	50.4		50.7	51.5
	≤ Level 3.5	50.4		53.9	58.7
	$\leq$ Level 3.0	50.5	51.6	58.6	74.0
	≤ Level 2.5	52.2	53.7	74.6	83.0
	$\leq$ Level 2.0	55.1	63.6	86.2	
	≤ Level 1.5	63.7	83.2		
	≤ Level 1.0	77.8	80.6		
PBLI02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤Level 4.0				49.3
	≤ Level 3.5	49.0		51.5	57.3
	≤ Level 3.0	49.4		57.7	77.3
	≤ Level 2.5	49.4	54.1	72.1	80.3
	≤ Level 2.0	51.9	63.3	86.3	
	≤ Level 1.5	62.8	74.2		
	≤ Level 1.0	62.7	65.3		
PBLI03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				55.3
	$\leq$ Level 3.5			56.5	61.4
	$\leq$ Level 3.0	54.5	55.0	61.3	73.2
	$\leq$ Level 2.5	54.6	58.4	71.5	74.3
	$\leq$ Level 2.0	57.5	65.1	77.0	49.7
	$\leq$ Level 1.5	66.1	72.4		
	≤ Level 1.0	70.8	84.1		
PBLI04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	≤Level 4.0				37.7
	≤ Level 3.5	36.3	36.5	38.9	41.7
	≤ Level 3.0	35.8	37.1	41.6	63.1
	≤ Level 2.5	36.3	39.8	59.2	70.9
	≤ Level 2.0	37.6	51.4	68.8	81.3
	≤ Level 1.5	48.7	64.6		
	≤ Level 1.0	67.8	60.6		

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## Specialty: Dermatology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PROF01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5	31.2		31.8	32.1
	$\leq$ Level 4.0	30.7		33.1	33.6
	≤ Level 3.5	31.9		36.8	42.9
	≤ Level 3.0	33.2	33.4	42.4	66.7
	$\leq$ Level 2.5	34.5	38.5	64.1	67.3
	$\leq$ Level 2.0	34.6	50.9	65.9	
	≤ Level 1.5	59.9	63.9		
	$\leq$ Level 1.0	50.6	43.2		
PROF02					
	≤ Level 5.0				
	≤ Level 4.5				40.3
	≤ Level 4.0	40.0			40.9
	≤ Level 3.5	39.7		42.4	49.2
	≤ Level 3.0	40.9		48.6	69.5
	≤ Level 2.5	41.9	45.8	66.3	80.5
	≤ Level 2.0	42.6	54.6	77.5	
	≤ Level 1.5	55.7	73.9	1110	
	$\leq$ Level 1.0	67.7	53.5		
PROF03					
	≤ Level 5.0				
	≤ Level 4.5				34.8
	$\leq$ Level 4.0				35.9
	≤ Level 3.5	34.8	35.5	38.1	45.5
	≤ Level 3.0	34.9	36.4	44.8	66.9
	$\leq$ Level 2.5	34.6	40.8	61.5	80.9
	$\leq$ Level 2.0	36.7	50.6	78.9	89.4
	$\leq$ Level 1.5	56.2	63.0	54.0	
	$\leq$ Level 1.0	67.0	69.1	01.0	
ICS01					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				35.3
	≤ Level 3.5	34.7		37.6	43.7
			26.1		
	≤ Level 3.0	35.2	36.1	45.9	64.5
	≤ Level 2.5	36.4	42.1	62.0	81.4
	≤ Level 2.0	37.3	56.9	75.9	83.1
	≤ Level 1.5	56.4	64.2		
	$\leq$ Level 1.0	65.5	20.8		

## Specialty: Dermatology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
ICS02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0			41.1	40.9
	≤ Level 3.5	40.3		43.3	47.4
	$\leq$ Level 3.0	41.4	41.0	49.4	63.9
	$\leq$ Level 2.5	41.2	46.8	62.5	81.0
	$\leq$ Level 2.0	44.1	57.4	74.2	74.6
	≤ Level 1.5	53.6	66.1		
	$\leq$ Level 1.0	46.2	55.6		
ICS03					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5	36.5			45.3
	$\leq$ Level 3.0	37.1	38.6	46.0	64.3
	$\leq$ Level 2.5	38.9	44.0	60.1	69.3
	$\leq$ Level 2.0			67.1	60.4
	$\leq$ Level 1.5	<u> </u>	50.1	07.1	00.4
			58.0		
	≤ Level 1.0	43.6	50.3		
ICS04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				41.8
	≤ Level 3.5	41.2		44.3	49.7
	$\leq$ Level 3.0	41.8	42.0	50.8	70.0
	$\leq$ Level 2.5	43.5	47.4	67.0	74.5
	$\leq$ Level 2.0	45.7	60.3	78.1	48.5
	$\leq$ Level 1.5	59.5	67.1		
	$\leq$ Level 1.0	59.2	35.0		
ICS05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				48.2
	$\leq$ Level 3.5	47.3		49.3	56.0
	$\leq$ Level 3.0	48.0	48.7	56.5	71.8
	$\leq$ Level 2.5	48.2	53.1	71.4	76.7
	$\leq$ Level 2.0	48.6	62.8	82.2	74.6
	$\leq$ Level 1.5	61.2	78.6		
	≤ Level 1.0	67.9	47.3		

### Subspecialty: Dermatopathology (multidisciplinary)

Resident Year	1	Total Residents
# of Residents	70	70

#### 1. Patient Care - Dermatopathologic Diagnosis - PC1



#### 2. Patient Care - Ancillary Testing-PC2



#### 3. Medical Knowledge - Histopathologic Patterns - MK1



#### 5. Systems-Based Practice - Health Care teams - SBP1



Note: Please reference milestone narrative for full text.

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#### 4. Medical Knowledge - Immunohistochemistry - MK2



## 6. Systems-Based Practice - Patient Safety - SBP2



#### Subspecialty: Dermatopathology (multidisciplinary)

7. Practice-Based Learning and Improvement - Evidence-based Practice - PBLI1



#### 9. Professionalism - Accountability, Honesty, and Integrity-PROF1



11. Interpersonal and Communication Skills - Personnel Management and Conflict Management —  $\rm ICS1$ 



Level 5 Level 4 Level 3 Level 2 Level 1 1 Resident Year

10. Professionalism - Giving and Receiving Feedback — PROF2







Note: Please reference milestone narrative for full text.

8. Practice-Based Learning and Improvement - Process Improvement and Patient Safety — PBLI2

#### Subspecialty: Micrographic Surgery and Dermatologic Oncology

Resident Year	1	Total Residents
# of Residents	89	89

#### 1. Patient Care - Patient Care 1 — Mohs Surgery



## 2. Patient Care - Patient Care 2 - Reconstruction



4. Patient Care - Patient Care 4 - Diagnosis and Management

Level 5

Level 4

Level 3

Level 2

Level 1

#### 3. Patient Care - Patient Care 3 — Mohs Histopathology



5. Medical Knowledge - Medical Knowledge 1 — Mastery of Dermatologic Surgical Curriculum



gic 6. Medical Knowledge - Medical Knowledge 2 — Mastery of Cutaneous Oncologic Curriculum



**Resident Year** 

#### Subspecialty: Micrographic Surgery and Dermatologic Oncology

7. Systems-Based Practice - Systems-Based Practice 1 — Practices Cost-Conscious Care (for Patients and Populations)



# 9. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 1 — Appraises and $\dots$



11. Professionalism - Professionalism 1 — Giving and Receiving Feedback



Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - Systems-Based Practice 2 — Works Effectively within an Interprofessional Team



10. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 2 — Integrates Quality ...







### Subspecialty: Micrographic Surgery and Dermatologic Oncology

13. Interpersonal and Communication Skills - Interpersonal Communication and Skills 1 — Personnel and Conflict Management





Note: Please reference milestone narrative for full text.



14. Interpersonal and Communication Skills - Interpersonal and Communication Skills 2 — Communicates with ...

#### Specialty: Emergency Medicine (Three-Year)

Resident Year	1	2	3	Total Residents
# of Residents	2,004	1,869	1,873	5,746

1. Patient Care - 1. Emergency Stabilization (PC1) Prioritizes critical initial stabilization action and  $\ldots$ 



3. Patient Care - 3. Diagnostic Studies (PC3) Applies the results of diagnostic testing based on the probability  $\ldots$ 



5. Patient Care - 5. Pharmacotherapy (PC5) Selects and prescribes, appropriate pharmaceutical agents based ...



Note: Please reference milestone narrative for full text.



2. Patient Care - 2. Performance of Focused History and Physical Exam (PC2) Abstracts current findings  $\ldots$ 

4. Patient Care - 4. Diagnosis (PC4) Based on all of the available data, narrows and prioritizes the list  $\ldots$ 







#### Specialty: Emergency Medicine (Three-Year)

7. Patient Care - 7. Disposition (PC7) Establishes and implements a comprehensive disposition plan that ...



9. Patient Care - 9. General Approach to Procedures (PC9) Performs the indicated procedure on all appropriate ...



11. Patient Care - 11. Anesthesia and Acute Pain Management (PC11) Provides safe acute pain management, ...



8. Patient Care - 8. Multi-tasking (Task-switching) (PC8) Employs task switching in an efficient and timely ...



10. Patient Care - 10. Airway Management (PC10) Performs airway management on all appropriate patients (including those who ...



12. Patient Care - 12. Other Diagnostic and Therapeutic Procedures: Goal-directed Focused Ultrasound (Diagnostic/Procedural) ...



#### Specialty: Emergency Medicine (Three-Year)

13. Patient Care - 13. Other Diagnostic and Therapeutic Procedures: Wound Management (PC13) Assesses and ...



15. Medical Knowledge - 15. Medical Knowledge (MK) Demonstrates appropriate medical knowledge in the care ...



17. Systems-Based Practice - 17. Systems-based Management (SBP2) Participates in strategies to improve healthcare ...



14. Patient Care - 14. Other Diagnostic and Therapeutic Procedures: Vascular Access (PC14) Successfully ...











#### Specialty: Emergency Medicine (Three-Year)

19. Practice-Based Learning and Improvement - 19. Practice-based Performance Improvement (PBLI) Participates in performance ...



21. Professionalism - 21. Accountability (PROF2) Demonstrates accountability to patients, society, profession and self.



23. Interpersonal and Communication Skills - 23. Team Management (ICS2) Leads patient-centered care teams, ...







22. Interpersonal and Communication Skills - 22. Patient Centered Communication (ICS1) Demonstrates interpersonal ...



#### Specialty: Emergency Medicine (Four-Year)

Resident Year	1	2	3	4	Total Residents
# of Residents	672	663	655	612	2,602

1. Patient Care - 1. Emergency Stabilization (PC1) Prioritizes critical initial stabilization action and ...



3. Patient Care - 3. Diagnostic Studies (PC3) Applies the results of diagnostic testing based on the probability  $\ldots$ 



5. Patient Care - 5. Pharmacotherapy (PC5) Selects and prescribes, appropriate pharmaceutical agents based ...



Note: Please reference milestone narrative for full text.



2. Patient Care - 2. Performance of Focused History and Physical Exam (PC2) Abstracts current findings  $\ldots$ 

4. Patient Care - 4. Diagnosis (PC4) Based on all of the available data, narrows and prioritizes the list ...







#### Specialty: Emergency Medicine (Four-Year)

7. Patient Care - 7. Disposition (PC7) Establishes and implements a comprehensive disposition plan that ...



9. Patient Care - 9. General Approach to Procedures (PC9) Performs the indicated procedure on all appropriate ...



11. Patient Care - 11. An esthesia and Acute Pain Management (PC11) Provides safe acute pain management,  $\dots$ 



8. Patient Care - 8. Multi-tasking (Task-switching) (PC8) Employs task switching in an efficient and timely ...



10. Patient Care - 10. Airway Management (PC10) Performs airway management on all appropriate patients (including those who ...



12. Patient Care - 12. Other Diagnostic and Therapeutic Procedures: Goal-directed Focused Ultrasound (Diagnostic/Procedural) ...



#### Specialty: Emergency Medicine (Four-Year)

13. Patient Care - 13. Other Diagnostic and Therapeutic Procedures: Wound Management (PC13) Assesses and  $\ldots$ 



15. Medical Knowledge - 15. Medical Knowledge (MK) Demonstrates appropriate medical knowledge in the care ...



17. Systems-Based Practice - 17. Systems-based Management (SBP2) Participates in strategies to improve healthcare ...



14. Patient Care - 14. Other Diagnostic and Therapeutic Procedures: Vascular Access (PC14) Successfully ...



16. Systems-Based Practice - 16. Patient Safety (SBP1) Participates in performance improvement to optimize patient safety.



18. Systems-Based Practice - 18. Technology (SBP3) Uses technology to accomplish and document safe healthcare delivery.



#### Specialty: Emergency Medicine (Four-Year)

19. Practice-Based Learning and Improvement - 19. Practice-based Performance Improvement (PBLI) Participates in performance ...



21. Professionalism - 21. Accountability (PROF2) Demonstrates accountability to patients, society, profession and self.



23. Interpersonal and Communication Skills - 23. Team Management (ICS2) Leads patient-centered care teams, ...







22. Interpersonal and Communication Skills - 22. Patient Centered Communication (ICS1) Demonstrates interpersonal ...



### Specialty: Emergency Medicine (Three-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				61.7
	≤ Level 3.0			61.2	74.3
	≤ Level 2.5	58.6	59.7	76.3	81.9
	≤ Level 2.0	59.7	67.3	79.1	79.1
	≤ Level 1.5	64.9	72.9	81.0	
	≤ Level 1.0	71.7	75.1		
PC02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				<b>•</b> •••
	≤ Level 3.5				61.3
	≤ Level 3.0		57.8	61.1	73.7
	≤ Level 2.5	58.0	59.3	74.6	79.1
	≤ Level 2.0	59.0	66.8	80.1	81.7
	≤ Level 1.5	65.6	71.1	73.4	60.8
	≤ Level 1.0	67.9	59.3	77.3	41.2
PC03					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			63.9	66.0
	≤ Level 3.0		63.6	66.6	77.5
	≤ Level 2.5	63.7	64.5	79.8	82.7
	≤ Level 2.0	64.0	70.6	79.4	87.2
	≤ Level 1.5	70.3	80.6	83.6	
	$\leq$ Level 1.0	70.9	79.0		
PC04					
r v V4	< Loval 5.0				
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0		04 8	-00.0	05.0
	≤ Level 3.5		61.7	62.2	65.2
	≤ Level 3.0		61.7	64.1	76.4
	≤ Level 2.5	61.9	63.6	79.2	81.9
	≤ Level 2.0	63.0	69.5	79.4	82.4
	≤ Level 1.5	68.7	77.8	73.2	52.7
	≤ Level 1.0	70.0	63.1	68.7	

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### Specialty: Emergency Medicine (Three-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				
	$\leq$ Level 3.5			70.0	71.5
	$\leq$ Level 3.0		69.3	71.5	79.5
	≤ Level 2.5	69.3	70.2	79.2	89.4
	≤ Level 2.0	69.8	73.4	81.8	91.1
	≤ Level 1.5	73.8	79.0	85.9	
	≤ Level 1.0	80.0	85.0		
PC06					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			67.1	69.2
	≤ Level 3.0	66.8	66.8	69.7	80.0
	≤ Level 2.5	67.1	68.5	80.5	89.1
	≤ Level 2.0	68.2	73.9	87.4	89.7
	≤ Level 1.5	71.3	82.4	87.2	73.1
	≤ Level 1.0	77.2	76.7	82.3	
PC07					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				63.5
	≤ Level 3.0		59.9	63.8	74.7
	≤ Level 2.5	59.9	61.3	77.1	80.0
	≤ Level 2.0	60.9	66.5	75.8	80.3
	≤ Level 1.5	66.0	74.5	83.5	76.9
	≤ Level 1.0	69.3	75.7	93.8	
PC08					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	$\leq$ Level 3.5			59.8	62.7
	$\leq$ Level 3.0		59.0	62.3	75.4
	$\leq$ Level 2.5	59.4	60.5	77.0	83.0
	$\leq$ Level 2.3 $\leq$ Level 2.0	60.2	69.1	81.6	82.9
	$\leq$ Level 1.5	67.1	76.3	82.7	89.8
	$\leq$ Level 1.0	67.3	76.6	71.9	09.0

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### Specialty: Emergency Medicine (Three-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC09					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				55.6
	≤ Level 3.5	55.5		55.9	59.1
	≤ Level 3.0	55.4	55.6	57.9	69.9
	≤ Level 2.5	55.5	57.3	70.7	82.6
	≤ Level 2.0	56.2	63.2	78.7	82.0
	≤ Level 1.5	60.6	69.1	80.2	77.1
	≤ Level 1.0	61.4	77.6		
PC10					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			48.9	54.8
	≤ Level 3.0		48.4	51.5	64.6
	≤ Level 2.5	48.0	50.2	58.8	74.3
	≤ Level 2.0	48.6	53.8	67.9	88.7
	≤ Level 1.5	50.5	59.6	87.9	
	≤ Level 1.0	51.6	68.2		
PC11					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5	65.7		66.2	69.4
	≤ Level 3.0	65.7	65.8	67.8	76.0
	≤ Level 2.5	65.8	67.3	76.2	89.9
	≤ Level 2.0	66.4	70.0	82.5	89.2
	≤ Level 1.5	70.2	75.7	88.2	85.4
	$\leq$ Level 1.0	72.3	71.0		
PC12					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0			46.6	46.8
	≤ Level 3.5	46.7	48.6	51.7	57.7
	≤ Level 3.0	46.9	48.9	53.7	63.7
	≤ Level 2.5	47.3	51.6	61.2	67.0
	$\leq$ Level 2.0	47.8	55.0	68.3	68.5
	$\leq$ Level 1.5	50.2	60.4	72.0	64.7
	$\leq$ Level 1.0	50.5	59.9	72.0	56.9
		00.0	59.9		50.9

### Specialty: Emergency Medicine (Three-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC13		50.5	59.9		56.9
	≤ Level 5.0				
	$\leq$ Level 4.5			69.8	
	$\leq$ Level 4.0			69.9	
	$\leq$ Level 3.5		69.8	70.3	72.4
	≤ Level 3.0		70.1	71.7	79.5
	$\leq$ Level 2.5	70.1	71.0	79.5	84.8
	$\leq$ Level 2.0	70.9	75.5	85.1	94.7
	≤ Level 1.5	74.4	85.4	88.3	97.2
	≤ Level 1.0	77.1	82.6	91.8	86.6
2011					
PC14	≤ Level 5.0				
	≤ Level 5.0				
	≤ Level 4.5 ≤ Level 4.0				
	≤ Level 4.0 ≤ Level 3.5		44.8	45.9	51.8
	$\leq$ Level 3.0	44.6			
			45.4	48.0	59.4
	≤ Level 2.5	44.8	46.4	57.0	66.1
	≤ Level 2.0	44.9	48.4	61.8	78.8
	$\leq$ Level 1.5	47.6	55.3	69.7	76.2
	≤ Level 1.0	51.2	55.7		
MK01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				71.5
	$\leq$ Level 3.5		72.3	72.9	77.5
	$\leq$ Level 3.0	71.3	72.7	74.5	84.1
	$\leq$ Level 2.5	71.7	74.8	80.8	91.9
	$\leq$ Level 2.0	71.7	78.7	86.1	95.0
	$\leq$ Level 1.5	73.5	84.8	82.0	
	≤ Level 1.0	77.4	94.4	87.9	
SBP01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			71.4	72.9
	$\leq$ Level 3.0		71.3	73.5	81.2
	$\leq$ Level 2.5	71.2	72.2	84.3	86.5
	≤ Level 2.0	71.9	76.8	85.3	87.6
	≤ Level 1.5	76.8	82.6		
	≤ Level 1.0	76.3	79.1		

### Specialty: Emergency Medicine (Three-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
SBP02		76.3	79.1		
	$\leq$ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0				
	≤ Level 3.5			70.6	72.1
	≤ Level 3.0		70.3	72.6	81.2
	≤ Level 2.5	70.4	71.0	82.1	86.9
	≤ Level 2.0	71.0	76.6	82.7	
	≤ Level 1.5	74.6	82.2		
	≤ Level 1.0	79.2	82.9		
SBP03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				
	$\leq$ Level 3.5	64.7	65.1	65.9	68.3
	≤ Level 3.0	64.7	65.0	67.4	76.6
	≤ Level 2.5	64.9	65.7	74.7	83.2
	≤ Level 2.0	65.4	70.7	76.1	85.0
	≤ Level 1.5	68.1	71.2	84.7	95.9
	≤ Level 1.0	68.9	78.3		
PBLI01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5		69.8	69.9	71.2
	≤ Level 3.0		69.9	71.9	80.5
	≤ Level 2.5	69.8	71.4	79.6	85.8
	≤ Level 2.0	70.1	77.5	81.8	88.2
	≤ Level 1.5	75.2	81.7		
	≤ Level 1.0	76.4	82.1		
PROF01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0	57.0	57.0		
	≤ Level 3.5	57.2	57.9	58.1	62.0
	≤ Level 3.0	57.5	58.3	62.6	76.4
	≤ Level 2.5	58.6	60.9	76.9	85.4
	≤ Level 2.0	60.5	70.2	80.2	85.8
	≤ Level 1.5	67.3	77.8	89.8	
	≤ Level 1.0	74.6	73.2	85.9	

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### Specialty: Emergency Medicine (Three-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PROF02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0		64.8		
	≤ Level 3.5	64.8	64.9	65.5	68.5
	≤ Level 3.0	64.8	65.5	68.5	80.0
	≤ Level 2.5	65.6	68.6	79.9	90.2
	≤ Level 2.0	67.2	75.6	81.3	92.3
	≤ Level 1.5	75.1	82.3	92.9	98.4
	≤ Level 1.0	77.9	81.6	92.9	
ICS01					
	$\leq$ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5	57.1	57.3	58.7	62.8
	≤ Level 3.0	57.1	57.9	62.3	75.3
	≤ Level 2.5	57.9	60.8	75.4	86.0
	≤ Level 2.0	60.2	69.4	78.0	94.4
	≤ Level 1.5	67.8	77.7	94.2	94.2
	≤ Level 1.0	67.3	66.0	80.6	
ICS02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				60.3
	$\leq$ Level 3.5	60.1	60.1	60.6	63.6
	$\leq$ Level 3.0	60.1	60.3	63.7	76.3
	$\leq$ Level 2.5	61.2	62.5	76.9	86.9
	$\leq$ Level 2.0	62.4	69.0	78.3	86.2
	$\leq$ Level 1.5	68.1	81.5	95.1	
	≤ Level 1.0	75.2	94.8		

### Specialty: Emergency Medicine (Four-Year)

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
PC01		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5						
	$\leq$ Level 3.0				17.9	30.2	68.9
	$\leq$ Level 2.5	16.5		19.2	24.4	65.5	80.2
	≤ Level 2.0	16.2	16.5	29.0	48.7	35.6	00.1
	≤ Level 1.5	17.6	25.2	54.6			
	≤ Level 1.0	12.4	27.0				
PC02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					18.3	
	≤ Level 3.0				18.6	24.6	57.9
	$\leq$ Level 2.5	17.8	17.9	19.5	27.7	44.5	
	$\leq$ Level 2.0	18.3	19.2	23.3	43.6	29.2	
	$\leq$ Level 1.5	18.3	23.4	37.4	62.2		
	≤ Level 1.0	27.0	45.5	62.6			
PC03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						27.6
	$\leq$ Level 3.0					28.2	55.5
	$\leq$ Level 2.5			22.0	31.0	38.6	74.0
	$\leq$ Level 2.0	20.1	22.7	27.9	43.1	28.8	
	$\leq$ Level 1.5	20.5	26.8	40.7	43.8		
	$\leq$ Level 1.0	21.8	34.1				
PC04							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					17.7	25.0
	$\leq$ Level 3.0				19.0	31.3	60.2
	$\leq$ Level 2.5		17.5	21.3	30.3	61.6	
	$\leq$ Level 2.0	18.2	19.5	28.1	46.3	62.1	
	≤ Level 1.5	20.5	26.1	54.5	74.5		
	$\leq$ Level 1.0	17.8	46.4				

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### Specialty: Emergency Medicine (Four-Year)

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
	meshora	Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PC05	≤ Level 5.0						
	≤ Level 5.0						
	≤ Level 4.0					01.0	00.7
	≤ Level 3.5					31.0	38.7
	≤ Level 3.0			00.4	005	37.9	59.4
	≤ Level 2.5		01.0	32.4	38.5	54.3	51.5
	≤ Level 2.0		31.2	40.3	37.4	47.7	
	≤ Level 1.5	31.3	35.6	37.9	32.6		
	≤ Level 1.0	33.4	44.3	41.9			
PC06							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5					24.8	30.4
	≤ Level 3.0				26.0	37.7	62.1
	≤ Level 2.5	24.7		27.6	40.1	67.3	
	≤ Level 2.0	25.0	26.8	32.3	48.5	54.5	
	≤ Level 1.5	25.7	32.5	61.7			
	≤ Level 1.0	24.7	18.1	65.4			
PC07							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5						29.9
	≤ Level 3.0			19.7	20.6	35.3	63.5
	≤ Level 2.5		19.6	21.8	36.0	62.0	
	≤ Level 2.0	19.3	20.6	29.2	47.4	48.7	
	≤ Level 1.5	20.9	25.8	60.5			
	$\leq$ Level 1.0	22.4	26.9				
PC08							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						33.1
	$\leq$ Level 3.0				27.0	39.0	60.4
	$\leq$ Level 2.5			26.7	39.2	53.2	39.8
	$\leq$ Level 2.0	24.4	26.7	35.2	52.4	24.2	
	$\leq$ Level 1.5	28.5	32.0	47.1	44.2		
	$\leq$ Level 1.0	30.5	34.1				

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### Specialty: Emergency Medicine (Four-Year)

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
PC09		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
- 603	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5						28.5
	≤ Level 3.0				21.4	27.3	60.2
	≤ Level 2.5	19.9	19.8	21.8	32.3	45.7	58.9
	≤ Level 2.0	20.2	20.2	25.3	39.3	40.3	58.8
	≤ Level 1.5	20.9	24.5	40.2	33.3	39.4	
	≤ Level 1.0	20.6	31.2	67.8	70.5		
PC10							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						29.2
	$\leq$ Level 3.0				20.3	31.9	58.9
	$\leq$ Level 2.5			18.1	27.3	57.7	80.5
	$\leq$ Level 2.0	16.5	16.6	20.6	28.7		46.6
	$\leq$ Level 1.5	18.1	18.1	22.2	35.7		
	$\leq$ Level 1.0	14.4	20.3				
PC11							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5			28.4	28.5	30.0	36.2
	$\leq$ Level 3.0			28.8	28.6	34.2	58.9
	$\leq$ Level 2.5			29.9	32.2	47.9	36.6
	$\leq$ Level 2.0	27.7	29.4	31.0	48.2	36.8	14.8
	$\leq$ Level 1.5	28.3	30.9	41.1	22.7	17.6	
	$\leq$ Level 1.0	32.6	40.9	39.8			
PC12							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0					17.2	17.3
	$\leq$ Level 3.5	17.1	18.2	18.8	23.5	25.1	33.0
	$\leq$ Level 3.0	17.1	18.4	20.3	23.9	29.2	50.1
	$\leq$ Level 2.5	17.5	18.9	21.6	25.2	37.3	38.2
	$\leq$ Level 2.0	18.1	19.3	24.1	40.9	43.4	43.9
	≤ Level 1.5	20.3	23.3	43.1	44.1	45.9	64.0
	$\leq$ Level 1.0	20.8	34.2	35.4			

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### Specialty: Emergency Medicine (Four-Year)

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC13							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					33.1	38.9
	≤ Level 3.0				32.8	38.0	55.5
	$\leq$ Level 2.5			33.1	37.2	56.1	44.5
	$\leq$ Level 2.0	32.8	33.6	38.6	50.6	40.0	35.6
	≤ Level 1.5	32.9	35.5	49.5			
	$\leq$ Level 1.0	37.1	50.7				
PC14							
***	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 4.0					22.0	32.9
	$\leq$ Level 3.0				20.6	32.2	53.7
	$\leq$ Level 2.5		16.8	19.8	26.6	46.6	54.5
	$\leq$ Level 2.0		17.5	22.1	37.4	58.7	85.4
	≤ Level 1.5	16.6	20.2	32.1	49.7	68.6	
	≤ Level 1.0	23.6	24.3	45.6	53.0		
<b>MK01</b>							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5			49.5		52.0	63.3
	≤ Level 3.0		49.2	50.2	51.4	57.5	79.0
	≤ Level 2.5		49.2	52.4	61.4	66.6	
	≤ Level 2.0		51.7	57.1	65.8	64.1	
	≤ Level 1.5	49.9	56.3	61.6	71.8	71.9	
	$\leq$ Level 1.0	49.7	56.6	57.0			
SBP01							
<b>J</b> JFVI	≤ Level 5.0						
	$\leq$ Level 5.0 $\leq$ Level 4.5						
	$\leq$ Level 4.5 $\leq$ Level 4.0						
	$\leq$ Level 4.0 $\leq$ Level 3.5						30.5
					05.0	27.0	
	$\leq$ Level 3.0			00.0	25.2	37.2	63.6
	$\leq$ Level 2.5	05.0	06.0	28.0	36.8	48.8	77.8
	$\leq$ Level 2.0	25.3	26.3	31.9	44.7	47.1	
	≤ Level 1.5 ≤ Level 1.0	29.5 24.2	30.8 34.2	53.9 81.9	31.9		

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### Specialty: Emergency Medicine (Four-Year)

Subcompetency	Threshold	Yr1, Mid-Yoor	Yr1, Voor-End	Yr2,	Yr2, Voor-End	Yr3, Mid-Yoor	Yr3, Voor-End
SBP02		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
JBF02	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						31.2
	$\leq$ Level 3.5					31.8	37.5
	$\leq$ Level 3.0			30.6	31.2	40.6	65.8
	$\leq$ Level 2.5		31.1	32.7	40.6	50.5	38.8
	≤ Level 2.0	31.2	31.8	41.6	46.0	59.7	28.1
	≤ Level 1.5	32.2	36.3	61.7	62.5	31.9	
	$\leq$ Level 1.0	36.8	44.1		01.0	0.1.0	
SBP03							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						21.6
	≤ Level 3.5				22.1	22.9	30.3
	≤ Level 3.0				24.8	29.7	67.0
	≤ Level 2.5		23.7	25.2	35.2	50.5	40.7
	≤ Level 2.0		24.5	27.6	42.9	36.0	23.7
	≤ Level 1.5	25.1	28.6	43.7	23.2		
	≤ Level 1.0	24.6	49.8	50.4	43.9		
PBLI01							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5						39.6
	≤ Level 3.0			31.8	34.1	43.5	67.1
	≤ Level 2.5		31.3	35.3	48.7	62.2	53.2
	≤ Level 2.0	32.7	34.8	40.1	49.9	54.0	59.8
	≤ Level 1.5	37.7	37.4	65.1	61.8	58.4	41.1
	≤ Level 1.0	44.5	35.3	58.0	56.8		
PROF01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5	21.4	21.5	22.0		23.7	30.2
	$\leq$ Level 3.0	21.5	22.0	22.4	23.8	32.4	62.8
	$\leq$ Level 2.5	21.5	21.4	25.3	38.9	56.3	76.3
	$\leq$ Level 2.0	21.8	24.6	27.0	53.0	70.3	60.6
	$\leq$ Level 1.5	18.4	25.9	25.0	21.1		
	≤ Level 1.0	26.8	25.2				

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### Specialty: Emergency Medicine (Four-Year)

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
	Theshold	Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PROF02							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5				36.5	38.0	42.9
	$\leq$ Level 3.0		36.3	36.8	38.0	47.3	69.1
	$\leq$ Level 2.5	36.2	36.2	42.4	51.1	69.0	75.7
	$\leq$ Level 2.0	36.3	42.1	47.6	63.2	70.8	
	$\leq$ Level 1.5	39.2	44.5	51.3	57.4		
	$\leq$ Level 1.0	42.6	36.7	60.3	56.8		
ICS01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					20.8	26.5
	$\leq$ Level 3.0				20.2	33.8	57.5
	$\leq$ Level 2.5		19.5	23.6	30.6	58.2	
	$\leq$ Level 2.0		19.5	31.2	52.0	76.5	
	≤ Level 1.5	22.0	29.1	44.1	45.2		
	≤ Level 1.0	21.5	26.3				
ICS02							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					27.7	32.9
	$\leq$ Level 3.0			26.4	28.8	39.0	59.4
	$\leq$ Level 2.5		27.3	29.1	40.0	62.2	68.9
	≤ Level 2.0	27.2	29.4	31.7	52.7	31.3	52.3
	≤ Level 1.5	26.6	30.7	54.1			
	≤ Level 1.0	26.7	38.4	84.7			

#### Subspecialty: Emergency Medical Services

Resident Year	1	Total Residents
# of Residents	92	92

#### 1. Patient Care - Procedures Performed in the Pre-hospital Environment



3. Patient Care - Recognition and Treatment of Pre-hospital Conditions - Patient Care



5. Patient Care - General Special Operations in Emergency Medical Services (EMS) – Patient Care



Note: Please reference milestone narrative for full text.

Level 4 Level 4 Level 2 Level 1 I Resident Year







6. Medical Knowledge - Medical Oversight - Medical Knowledge


#### Subspecialty: Emergency Medical Services

7. Systems-Based Practice - EMS Personnel (Supervision and Training) – Systems-Based Practice



# 9. Practice-Based Learning and Improvement - Quality Management - Practice-Based Learning and Improvement



#### 11. Professionalism - Ethics and Professional Behavior - Professionalism





#### 10. Practice-Based Learning and Improvement - Research - Practice-Based Learning and Improvement







Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - System Management - Systems-Based Practice

### Subspecialty: Emergency Medical Services

13. Interpersonal and Communication Skills - Team Communications and Management – Interpersonal and Communication Skills





14. Interpersonal and Communication Skills - Patient-centered Communications – Interpersonal and Communication Skills

### Subspecialty: Medical Toxicology

Resident Year	1	2	Total Residents
# of Residents	39	33	72

#### 1. Patient Care - PC1: Exposure Assessment: History and Physical



3. Patient Care - PC3: Management Plan and Treatment



5. Medical Knowledge - MK2: Epidemiology and Population Exposure



Note: Please reference milestone narrative for full text. 111 • MILESTONES NATIONAL REPORT 2020



2. Patient Care - PC2: Clinical Reasoning: Ordering and Interpretation of Studies and Differential Diagnosis

4. Medical Knowledge - MK1: Acute and Chronic Exposure



6. Medical Knowledge - MK3: Laboratory and Clinical Testing



### Subspecialty: Medical Toxicology

7. Systems-Based Practice - SBP1: Patient Safety



9. Practice-Based Learning and Improvement - PBLI1: Self-Directed Learning in Medical Toxicology







Note: Please reference milestone narrative for full text.



10. Practice-Based Learning and Improvement - PBLI2: Quality Improvement Project







8. Systems-Based Practice - SBP2: Clinical Application of Information Technology

### Subspecialty: Medical Toxicology

13. Interpersonal and Communication Skills - ICS1: Patients Families and Public





14. Interpersonal and Communication Skills - ICS2: Communication with Health Care Professionals

#### Subspecialty: Pediatric Emergency Medicine

Resident Year	1	2	3	Total Residents
# of Residents	55	47	34	136

1. Patient Care - Gather essential and accurate information about the patient: Abstracts current findings ...



3. Patient Care - Provide transfer of care that ensures seamless transitions - PC3



5. Patient Care - Emergency Stabilization: Prioritizes critical initial stabilization action and mobilizes ...



Note: Please reference milestone narrative for full text. 114 • MILESTONES NATIONAL REPORT 2020



2. Patient Care - Organize and prioritize responsibilities to provide patient care that is safe, effective, ...









### Subspecialty: Pediatric Emergency Medicine

7. Patient Care - Observation and Reassessment: Re-evaluates patients undergoing emergency department (ED) ...



9. Patient Care - General Approach to Procedures: Performs the indicated procedure on all appropriate patients ...



11. Patient Care - Provide appropriate supervision (milestones for the supervisor) — PC11  $\,$ 



8. Patient Care - Disposition: Establishes and implements a comprehensive disposition plan that uses appropriate ...



10. Patient Care - Anesthesia and Acute Pain Management: Provides safe acute pain management, anesthesia, ...







### Subspecialty: Pediatric Emergency Medicine

13. Systems-Based Practice - Advocate for quality patient care and optimal patient care systems — SBP1



15. Practice-Based Learning and Improvement - Use information





17. Professionalism - The capacity to accept that ambiguity is part of clinical medicine and to recognize  $\ldots$ 



Note: Please reference milestone narrative for full text.

14. Systems-Based Practice - Participate in identifying system errors and implementing potential systems solutions — SBP2



Note: 4 of 136 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Professionalism - Self-awareness of one's own knowledge, skill, and emotional limitations that leads ...



18. Professionalism - Practice flexibility and maturity in adjusting to change with the capacity to alter behavior — PROF3



#### Subspecialty: Pediatric Emergency Medicine

19. Professionalism - Provide leadership skills that enhance team functioning, the learning environment,  $\dots$ 



not included in the analysis.

21. Interpersonal and Communication Skills - Communicate effectively with patients, families, and the public,  $\dots$ 



23. Interpersonal and Communication Skills - Act in a consultative role to other physicians and health professionals —  $\mathsf{ICS3}$ 



20. Professionalism - Demonstrate self-confidence that puts patients, families, and members of the health care team at ease ...



22. Interpersonal and Communication Skills - Demonstrate the insight and understanding into emotion and  $\ldots$ 



#### Subspecialty: Sports Medicine

Resident Year	1	Total Residents
# of Residents	17	17

1. Patient Care - History and Physical Examination: Medical and Musculoskeletal — Patient Care 1



# 3. Patient Care - Team Coverage and Athletic Care: Coverage of Sporting Events, Pre-participation Physical $\ldots$



5. Medical Knowledge - Medical Issues in Sports Medicine — Medical Knowledge 2  $\ensuremath{\mathsf{C}}$ 



Note: Please reference milestone narrative for full text.



# 2. Patient Care - Medical Management: Differential Diagnosis, Diagnostic Testing, Interpretation of Data ...









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#### Subspecialty: Sports Medicine

7. Systems-Based Practice - Working with Interprofessional Teams (consultants, certified athletic trainers ...



# 9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement ...



# 11. Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others — Professionalism 1





# 10. Practice-Based Learning and Improvement - Locate, Appraise, and Assimilate Evidence from Scientific $\ldots$







8. Systems-Based Practice - Systems Thinking — Systems-Based Practice 2

### Subspecialty: Sports Medicine

13. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...





14. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology— Interpersonal ...

#### **Specialty: Family Medicine**

Resident Year	1	2	3	Total Residents
# of Residents	4,692	4,495	4,405	13,592

1. Patient Care - PC-1 Cares for acutely ill or injured patients in urgent and emergent situations and in all settings



3. Patient Care - PC-3 Partners with the patient, family, and community to improve health through disease  $\ldots$ 



5. Patient Care - PC-5 Performs specialty-appropriate procedures to meet the health care needs of individual  $\ldots$ 







4. Patient Care - PC-4 Partners with the patient to address issues of ongoing signs, symptoms, or health ...



6. Medical Knowledge - MK-1 Demonstrates medical knowledge of sufficient breadth and depth to practice family medicine



Note: Please reference milestone narrative for full text. 121 • MILESTONES NATIONAL REPORT 2020

### **Specialty: Family Medicine**

7. Medical Knowledge - MK-2 Applies critical thinking skills in patient care



9. Systems-Based Practice - SBP-2 Emphasizes patient safety



11. Systems-Based Practice - SBP-4 Coordinates team-based care



Level 5

Level 1

0 o Level 4 o Level 3 o o Level 2

**Resident Year** 

0

0

10. Systems-Based Practice - SBP-3 Advocates for individual and community health



12. Practice-Based Learning and Improvement - PBLI-1 Locates, appraises, and assimilates evidence from scientific ...



Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - SBP-1 Provides cost-conscious medical care

0

#### **Specialty: Family Medicine**

13. Practice-Based Learning and Improvement - PBLI-2 Demonstrates self-directed learning



15. Professionalism - PROF-1 Completes a process of professionalization



<sup>17.</sup> Professionalism - PROF-3 Demonstrates humanism and cultural proficiency







16. Professionalism - PROF-2 Demonstrates professional conduct and accountability







#### **Specialty: Family Medicine**

19. Interpersonal and Communication Skills - ICS-1 Develops meaningful, therapeutic relationships with patients and families



21. Interpersonal and Communication Skills - ICS-3 Develops relationships and effectively communicates with ...



20. Interpersonal and Communication Skills - ICS-2 Communicates effectively with patients, families, and the public







## Specialty: Family Medicine

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				52.4
	$\leq$ Level 4.0				52.7
	$\leq$ Level 3.5	52.1	52.3	53.8	58.5
	$\leq$ Level 3.0	52.3	52.8	57.0	72.1
	$\leq$ Level 2.5	52.6	54.6	70.7	85.0
	$\leq$ Level 2.0	53.4	60.9	75.5	84.3
	$\leq$ Level 1.5	58.6	72.5	83.4	88.7
	≤Level 1.0	67.1	76.1	83.6	
PC02					
	≤Level 5.0				
	≤ Level 4.5			56.3	
	≤ Level 4.0			56.4	56.9
	≤ Level 3.5		56.3	57.3	61.2
	≤ Level 3.0	56.4	56.8	60.9	75.7
	≤ Level 2.5	56.9	59.0	77.0	87.6
	≤ Level 2.0	57.9	66.0	82.8	88.5
	≤ Level 1.5	62.2	77.1	87.3	86.3
	$\leq$ Level 1.0	72.6	73.2	85.2	
PC03					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				68.0
	≤ Level 3.5		67.8	68.6	71.5
	$\leq$ Level 3.0	67.9	68.2	71.1	81.1
	$\leq$ Level 2.5	68.4	69.9	81.9	90.1
	$\leq$ Level 2.0	69.6	75.8	85.3	90.4
	$\leq$ Level 1.5	74.8	83.1	85.7	
	≤Level 1.0	78.7	80.9		
PC04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0			59.2	59.8
	≤ Level 3.5		59.3	60.3	65.0
	≤ Level 3.0	59.3	59.8	64.3	77.5
	≤ Level 2.5	59.7	61.7	75.9	88.7
	≤ Level 2.0	60.7	67.6	81.6	88.8
	≤ Level 1.5	63.9	74.5	85.7	94.2
	≤Level 1.0	70.7	83.0	80.5	67.0

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## Specialty: Family Medicine

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				69.0
	$\leq$ Level 4.0				69.2
	$\leq$ Level 3.5	68.9	68.9	69.4	71.7
	$\leq$ Level 3.0	69.0	69.4	72.3	80.7
	$\leq$ Level 2.5	69.6	71.8	82.6	90.6
	$\leq$ Level 2.0	70.5	75.3	86.6	93.5
	$\leq$ Level 1.5	74.0	80.5	89.2	87.5
	≤ Level 1.0	77.0	81.8		77.6
MK01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5			56.7	
	$\leq$ Level 4.0			56.7	57.2
	≤ Level 3.5	56.7	56.9	58.7	63.8
	≤ Level 3.0	56.8	57.7	62.8	74.1
	$\leq$ Level 2.5	58.1	63.6	74.3	82.5
	$\leq$ Level 2.0	58.9	67.6	76.7	80.6
	≤ Level 1.5	61.9	74.9	80.1	76.1
	≤ Level 1.0	69.8	75.8	76.4	59.1
MK02					
	≤ Level 5.0				
	$\leq$ Level 4.5			64.4	
	$\leq$ Level 4.0			64.5	64.9
	$\leq$ Level 3.5		64.5	65.3	68.9
	≤ Level 3.0	64.5	65.0	69.8	80.8
	$\leq$ Level 2.5	65.0	67.4	81.4	88.5
	$\leq$ Level 2.0	66.6	73.2	85.7	90.6
	$\leq$ Level 1.5	71.2	81.3	87.4	91.2
	≤ Level 1.0	78.9	87.2	80.3	
SBP01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5			65.2	
	$\leq$ Level 4.0			65.2	65.5
	≤Level 3.5	65.3		66.1	69.1
	≤Level 3.0	65.4	65.5	68.7	77.4
	≤Level 2.5	65.9	68.3	79.6	88.8
	≤Level 2.0	66.6	71.5	83.6	87.2
	≤Level 1.5	69.6	78.8	90.3	83.2
	≤Level 1.0	73.3	81.4	85.2	77.7

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## Specialty: Family Medicine

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
SBP02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0		70.9	70.9	71.1
	$\leq$ Level 3.5		70.9	71.6	74.2
	$\leq$ Level 3.0	71.1	71.3	73.9	82.6
	$\leq$ Level 2.5	71.5	72.9	82.3	90.5
	$\leq$ Level 2.0	72.0	76.4	86.5	89.6
	$\leq$ Level 1.5	75.9	83.6	91.1	
	≤ Level 1.0	82.3	87.1		
SBP03					
	≤ Level 5.0				
	≤ Level 4.5			73.0	73.2
	≤ Level 4.0		72.9	73.0	73.5
	≤ Level 3.5	72.9	73.1	74.2	76.3
	≤ Level 3.0	73.0	73.5	75.9	83.5
	≤ Level 2.5	73.6	75.0	83.3	90.4
	≤ Level 2.0	74.1	78.2	87.7	90.3
	≤ Level 1.5	77.8	85.2	88.3	
	$\leq$ Level 1.0	82.1	84.9		
SBP04					
	≤ Level 5.0				
	≤ Level 4.5		46.8		
	≤ Level 4.0		46.8	46.8	47.2
	≤ Level 3.5	46.8	47.1	48.6	54.3
	≤ Level 3.0	47.0	47.6	52.5	65.8
	≤ Level 2.5	47.4	50.4	67.3	82.2
	≤ Level 2.0	48.9	58.3	72.5	87.9
	≤ Level 1.5	56.7	70.3	79.9	85.3
	$\leq$ Level 1.0	62.6	78.7	66.3	59.0
PBLI01					
-	≤ Level 5.0				
	$\leq$ Level 4.5			68.3	68.4
	$\leq$ Level 4.0			68.4	68.7
	≤ Level 3.5	68.3	68.4	69.2	72.6
	≤ Level 3.0	68.4	68.6	72.1	80.4
	≤ Level 2.5	68.7	70.4	81.4	88.8
	≤ Level 2.0	69.7	73.9	86.4	88.8
	$\leq$ Level 1.5	73.1	81.1	91.3	88.3
	$\leq$ Level 1.0	76.6	87.6	83.2	83.9

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### Specialty: Family Medicine

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PBLI02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				65.7
	$\leq$ Level 4.0			65.8	66.1
	$\leq$ Level 3.5		65.9	67.1	71.0
	$\leq$ Level 3.0	66.0	66.9	72.0	82.9
	$\leq$ Level 2.5	67.1	70.8	83.6	91.3
	$\leq$ Level 2.0	68.3	75.2	87.7	89.0
	$\leq$ Level 1.5	74.1	82.6	90.6	92.2
	≤ Level 1.0	78.1	85.2	80.4	80.3
PBLI03					
	≤ Level 5.0				
	≤ Level 4.5				
	≤Level 4.0		78.5	78.6	78.8
	≤ Level 3.5		78.5	79.3	80.5
	≤Level 3.0	78.6	78.5	80.3	85.4
	≤ Level 2.5	78.9	79.9	85.6	91.5
	≤ Level 2.0	79.6	82.2	90.0	92.6
	≤ Level 1.5	82.1	86.4	89.1	93.5
	≤ Level 1.0	85.1	88.5	84.8	
PROF01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0			48.4	49.2
	≤ Level 3.5	48.4	49.0	51.9	58.1
	≤ Level 3.0	48.6	49.9	55.8	69.2
	≤ Level 2.5	49.5	53.7	68.3	80.8
	≤Level 2.0	51.2	58.3	75.3	80.0
	≤ Level 1.5	53.8	66.6	79.0	79.8
	≤ Level 1.0	60.6	75.4	72.6	73.3
PROF02					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0			59.9	60.7
	$\leq$ Level 3.5	59.8	60.0	62.2	66.9
	≤ Level 3.0	60.2	61.1	67.1	78.7
	$\leq$ Level 2.5	61.0	65.0	77.3	87.1
	$\leq$ Level 2.0	61.9	70.8	85.1	91.5
	$\leq$ Level 1.5	68.6	80.6	88.9	91.8
	$\leq$ Level 1.0	77.3	87.3	82.9	77.5

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## Specialty: Family Medicine

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PROF03					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0			50.8	51.3
	$\leq$ Level 3.5	50.9	51.1	52.9	59.1
	$\leq$ Level 3.0	51.1	51.7	56.8	70.4
	$\leq$ Level 2.5	52.2	55.7	71.2	83.7
	$\leq$ Level 2.0	53.8	63.0	75.9	87.7
	$\leq$ Level 1.5	60.1	72.1	76.9	88.4
	≤ Level 1.0	68.9	78.0	74.7	67.6
PROF04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5			54.4	54.4
	$\leq$ Level 4.0			54.5	55.2
	$\leq$ Level 3.5	54.5	54.8	56.9	62.3
	$\leq$ Level 3.0	54.7	55.2	60.1	72.0
	$\leq$ Level 2.5	55.6	58.0	72.0	80.8
	$\leq$ Level 2.0	57.8	65.7	80.3	84.3
	≤ Level 1.5	64.6	76.8	82.2	88.7
	≤Level 1.0	67.4	79.9	69.0	77.2
ICS01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0			43.3	43.8
	$\leq$ Level 3.5	43.2	43.6	46.2	53.2
	$\leq$ Level 3.0	43.5	44.4	51.6	67.7
	$\leq$ Level 2.5	44.6	49.4	67.5	79.2
	$\leq$ Level 2.0	47.6	58.8	70.7	75.5
	$\leq$ Level 1.5	55.8	67.6	72.2	82.2
	≤ Level 1.0	59.3	69.5	62.9	75.5
ICS02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0	51.1			51.8
	≤ Level 3.5	51.2	51.4	52.9	57.6
	≤Level 3.0	51.4	52.1	58.6	73.4
	≤ Level 2.5	52.3	54.9	71.2	82.4
	≤ Level 2.0	53.6	62.6	76.3	77.3
	≤ Level 1.5	57.3	70.2	80.7	88.4
	≤Level 1.0	66.4	67.1	68.2	64.0

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## **Specialty: Family Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
ICS03					
	≤Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				56.7
	$\leq$ Level 3.5	56.1		57.9	62.5
	$\leq$ Level 3.0	56.4	57.5	62.8	75.0
	$\leq$ Level 2.5	58.0	61.2	75.8	84.4
	$\leq$ Level 2.0	59.8	68.3	78.3	82.5
	$\leq$ Level 1.5	65.7	78.1	80.8	78.0
	$\leq$ Level 1.0	70.1	75.4	73.4	61.9
ICS04					
	≤ Level 5.0				
	$\leq$ Level 4.5			53.7	53.8
	≤Level 4.0			53.9	54.5
	$\leq$ Level 3.5	53.9	54.3	55.8	60.6
	$\leq$ Level 3.0	54.0	54.9	60.1	71.9
	$\leq$ Level 2.5	54.8	57.9	72.6	82.3
	$\leq$ Level 2.0	55.5	62.5	76.1	86.6
	$\leq$ Level 1.5	60.1	69.4	81.4	87.4
	≤ Level 1.0	65.7	69.6	64.4	83.2

#### **Subspecialty: Geriatric Medicine**

Resident Year	1	Total Residents
# of Residents	44	44

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



#### 



#### 5. Patient Care - Requests and provides consultative care. (PC5)



Note: Please reference milestone narrative for full text.



# 2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





Note: 1 of 44 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### **Subspecialty: Geriatric Medicine**

7. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)  $\,$ 



# 9. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



11. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and ...





8. Medical Knowledge - Scholarship. (MK3)

# 10. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



12. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



#### Subspecialty: Geriatric Medicine

13. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



# 15. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



17. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...





14. Practice-Based Learning and Improvement - Learns and improves via

performance audit. (PBLI2)







 Professionalism - Accepts responsibility and follows through on tasks. (PROF2)

#### Subspecialty: Geriatric Medicine

19. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)



# 21. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



23. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: Please reference milestone narrative for full text.

Aspirational Ready for Unsupervised Practice Critical Deficiencies





# 20. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)

#### Subspecialty: Hospice and Palliative Medicine (multidisciplinary)

Resident Year	1	Total Residents
# of Residents	388	388

# 1. Patient Care - Patient Care 1: Comprehensive Whole Patient Assessment



3. Patient Care - Patient Care 3: Withholding and/or Withdrawal of Life-Sustaining Therapies (LST)



5. Patient Care - The fellow is demonstrating satisfactory development of the knowledge, skill, and attitudes/behaviors ...



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Patient Care 2: Addressing Suffering and Distress

4. Patient Care - Patient Care 4: Care of the Imminently Dying



Note: 10 of 388 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Medical Knowledge - Medical Knowledge 1: Disease Trajectories and Formulation of Prognosis in Serious Illness



#### Subspecialty: Hospice and Palliative Medicine (multidisciplinary)

7. Medical Knowledge - Medical Knowledge 2: Palliative Management of Pain Symptoms



# 9. Medical Knowledge - The fellow is demonstrating satisfactory development of the knowledge, skill, and ...



11. Systems-Based Practice - Systems-Based Practice 2: System Navigation for Patient-Centered Care



Note: Please reference milestone narrative for full text.



8. Medical Knowledge - Medical Knowledge 3: Palliative Management of

# 10. Systems-Based Practice - Systems-Based Practice 1: Patient Safety and Quality Improvement





12. Systems-Based Practice - Systems-Based Practice 3: Physician Role within Health Care Systems

### Subspecialty: Hospice and Palliative Medicine (multidisciplinary)

13. Systems-Based Practice - Systems-Based Practice 4: Hospice



# 15. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice



17. Practice-Based Learning and Improvement - The fellow is demonstrating satisfactory development of the knowledge, skill, ...



Note: Please reference milestone narrative for full text.



16. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 2: Reflective Practice and Commitment ...







14. Systems-Based Practice - The fellow is demonstrating satisfactory development of the knowledge, skill, ...

#### Subspecialty: Hospice and Palliative Medicine (multidisciplinary)

19. Professionalism - Professionalism 2: Accountability/Conscientiousness



21. Professionalism - The fellow is demonstrating satisfactory development of the knowledge, skill, and attitudes/behaviors ...



23. Interpersonal and Communication Skills - Interpersonal and Communication Skills 2: Interprofessional and Team Communication



Note: Please reference milestone narrative for full text.



22. Interpersonal and Communication Skills - Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication



24. Interpersonal and Communication Skills - Interpersonal and Communication Skills 3: Communication with Health Care Systems



20. Professionalism - Professionalism 3: Self-Awareness and Help Seeking

### Subspecialty: Hospice and Palliative Medicine (multidisciplinary)

25. Interpersonal and Communication Skills - Interpersonal and Communication Skills 4: Complex Communication Around Serious ...





Note: Please reference milestone narrative for full text.

26. Interpersonal and Communication Skills - The fellow is demonstrating satisfactory development of the ...

#### **Subspecialty: Sports Medicine**

Resident Year	1	Total Residents	
# of Residents	264	264	

1. Patient Care - History and Physical Examination: Medical and Musculoskeletal — Patient Care 1  $\,$ 



# 3. Patient Care - Team Coverage and Athletic Care: Coverage of Sporting Events, Pre-participation Physical ...







Note: Please reference milestone narrative for full text.



# 2. Patient Care - Medical Management: Differential Diagnosis, Diagnostic Testing, Interpretation of Data $\ldots$









#### **Subspecialty: Sports Medicine**

7. Systems-Based Practice - Working with Interprofessional Teams (consultants, certified athletic trainers ...



9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement ...



11. Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others — Professionalism 1



Note: Please reference milestone narrative for full text.



8. Systems-Based Practice - Systems Thinking - Systems-Based

10. Practice-Based Learning and Improvement - Locate, Appraise, and Assimilate Evidence from Scientific ...



12. Professionalism - Knowledge about and Adherence to the Ethical Principles Relevant to the Practice of Sports Medicine — ...



### Subspecialty: Sports Medicine

13. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...



14. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology— Interpersonal  $\ldots$ 



#### **Specialty: Internal Medicine**

Resident Year	1	2	3	Total Residents
# of Residents	11,545	9,115	8,774	29,434

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s) (PC1)



Note: 25 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.



Note: 123 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.





Note: Please reference milestone narrative for full text. 143 • MILESTONES NATIONAL REPORT 2020



2. Patient Care - Develops and achieves comprehensive management plan for each patient (PC2)

not included in the analysis.

Note: 29 of 29,434 residents have a status of "Not Yet Assessed" and are

4. Patient Care - Skill in performing procedures (PC4)



Note: 2,125 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

6. Medical Knowledge - Clinical knowledge (MK1)



Note: 46 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

#### **Specialty: Internal Medicine**

7. Medical Knowledge - Knowledge of diagnostic testing and procedures (MK2)



Note: 115 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.





Note: 1,109 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

11. Systems-Based Practice - Transitions patients effectively within and across health delivery systems (SBP4)



8. Systems-Based Practice - Works effectively within an interprofessional team (e.g. peers, consultants, ...



Note: 157 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

10. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for, and ...



Note: 617 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

12. Practice-Based Learning and Improvement - Monitors practice with a

goal for improvement (PBLI1) Aspirational 0 0 0 o Ready for Unsupervised Practice 0 0 0 0 0 Critical Deficiencies 0 o



5

Resident Year
#### **Specialty: Internal Medicine**

13. Practice-Based Learning and Improvement - Learns and improves via performance audit (PBLI2)



Note: 2,402 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.





Note: 275 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

17. Professionalism - Accepts responsibility and follows through on tasks (PROF2)







Note: 151 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

16. Professionalism - Has professional and respectful interactions with patients, caregivers and members ...



Note: 69 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.



Note: 282 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

#### **Specialty: Internal Medicine**

19. Professionalism - Exhibits integrity and ethical behavior in professional conduct (PROF4)



Note: 201 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

21. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g. peers, ...



are not included in the analysis.

20. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers (ICS1)



Note: 93 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

22. Interpersonal and Communication Skills - Appropriate utilization and completion of health records (ICS3)



Note: 99 of 29,434 residents have a status of "Not Yet Assessed" and are not included in the analysis.

#### **Specialty: Internal Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				38.5
	$\leq$ Level 4.0	38.5	38.5	38.6	38.7
	$\leq$ Level 3.5	38.7	38.9	40.5	45.4
	$\leq$ Level 3.0	39.5	41.4	51.1	62.0
	$\leq$ Level 2.5	43.8	52.0	60.4	62.8
	$\leq$ Level 2.0	49.9	58.5	55.1	72.5
	$\leq$ Level 1.5	54.2	56.5	59.3	
	≤ Level 1.0	54.2	56.5	59.3	
PC02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0	43.0	43.0	43.1	43.3
	$\leq$ Level 3.5	43.1	43.3	44.7	49.0
	$\leq$ Level 3.0	43.8	45.8	54.9	66.8
	$\leq$ Level 2.5	47.9	57.2	67.3	69.8
	≤ Level 2.0	56.9	63.0	62.7	79.2
	≤ Level 1.5	59.4	61.5	70.4	
	≤ Level 1.0	59.4	61.5	70.4	
PC03					
	≤ Level 5.0				
	≤ Level 4.5				42.6
	$\leq$ Level 4.0	42.5	42.6	42.7	42.9
	≤ Level 3.5	42.6	42.9	44.4	48.7
	≤ Level 3.0	43.2	45.1	54.2	65.7
	$\leq$ Level 2.5	46.7	55.4	65.0	67.1
	≤ Level 2.0	54.2	60.9	61.4	84.4
	≤ Level 1.5	55.6	61.3	77.5	
	≤ Level 1.0	55.6	61.3	77.5	
PC04					
	≤ Level 5.0				
	≤ Level 4.5			58.8	59.1
	≤ Level 4.0	58.1	58.5	59.0	59.5
	≤ Level 3.5	58.3	58.9	60.8	65.1
	≤ Level 3.0	58.7	60.4	66.0	73.5
	≤ Level 2.5	60.8	65.4	74.1	78.2
	≤ Level 2.0	63.6	70.7	76.7	82.9
	$\leq$ Level 1.5	68.7	72.7	78.8	
	$\leq$ Level 1.0	68.7	72.7	78.8	

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#### **Specialty: Internal Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5	44.3	44.6		45.1
	$\leq$ Level 4.0	44.3	44.6	45.1	45.4
	≤ Level 3.5	44.4	44.9	46.5	50.3
	$\leq$ Level 3.0	45.0	46.7	54.3	63.7
	≤ Level 2.5	48.2	55.4	64.5	65.9
	$\leq$ Level 2.0	53.8	60.5	62.0	74.8
	≤ Level 1.5	56.4	64.1	56.5	
	≤ Level 1.0	56.4	64.1	56.5	
<b>MK01</b>					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0		50.6	50.8	51.1
	≤ Level 3.5	50.7	51.1	53.4	57.8
	≤ Level 3.0	52.1	54.6	64.7	74.6
	≤ Level 2.5	59.3	65.8	76.7	79.9
	≤ Level 2.0	67.3	72.8	76.9	80.4
	≤ Level 1.5	77.4	76.6	81.0	
	≤ Level 1.0	77.4	76.6	81.0	
MK02					
	≤ Level 5.0				
	≤ Level 4.5		50.3		
	≤ Level 4.0	50.3	50.3	50.4	50.7
	≤ Level 3.5	50.6	50.7	52.0	56.5
	≤ Level 3.0	51.3	53.0	62.2	72.5
	≤ Level 2.5	56.4	62.0	71.8	74.1
	≤ Level 2.0	63.2	69.0	75.2	82.9
	≤ Level 1.5	68.7	70.5	81.9	
	≤ Level 1.0	68.7	70.5	81.9	
SBP01					
	≤ Level 5.0				
	≤ Level 4.5			35.8	
	≤ Level 4.0		35.9	36.1	36.5
	≤ Level 3.5	36.3	37.3	39.7	44.9
	≤ Level 3.0	38.1	41.0	49.3	59.6
	≤ Level 2.5	43.3	52.1	56.4	59.6
	≤ Level 2.0	49.7	53.2	56.9	67.3
	≤ Level 1.5	55.3	55.1	58.4	
	$\leq$ Level 1.0	55.3	55.1	58.4	

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#### **Specialty: Internal Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
SBP02					
	≤ Level 5.0				
	$\leq$ Level 4.5		49.9	49.8	
	$\leq$ Level 4.0	49.8	49.9	49.9	50.3
	≤ Level 3.5	49.9	50.5	51.9	56.2
	$\leq$ Level 3.0	50.5	52.1	58.7	68.2
	≤ Level 2.5	54.9	61.1	65.2	69.2
	$\leq$ Level 2.0	59.9	62.6	58.0	70.4
	≤ Level 1.5	61.8	65.1	43.9	
	≤ Level 1.0	61.8	65.1	43.9	
SBP03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5	50.0	50.3		50.4
	$\leq$ Level 4.0	50.0	50.3	50.5	50.6
	≤ Level 3.5	50.2	50.7	51.7	55.6
	≤ Level 3.0	50.8	52.3	58.4	68.4
	≤ Level 2.5	54.8	59.9	66.1	68.0
	≤ Level 2.0	58.7	62.0	62.4	77.3
	≤ Level 1.5	63.6	61.9	54.0	
	$\leq$ Level 1.0	63.6	61.9	54.0	
SBP04					
	≤ Level 5.0				
	≤ Level 4.5	39.2	39.3		39.3
	≤ Level 4.0	39.2	39.3	39.4	39.6
	≤ Level 3.5	39.4	39.7	41.6	46.1
	≤ Level 3.0	40.4	42.4	49.3	59.4
	≤ Level 2.5	44.8	52.4	56.0	58.1
	≤ Level 2.0	48.2	53.8	52.7	62.6
	≤ Level 1.5	50.4	56.6	57.4	
	$\leq$ Level 1.0	50.4	56.6	57.4	
PBLI01					
	≤ Level 5.0				
	≤ Level 4.5	44.3		44.5	44.6
	$\leq$ Level 4.0	44.3	44.5	44.6	45.0
	≤ Level 3.5	44.6	45.4	47.4	52.0
	≤ Level 3.0	46.3	49.3	55.9	65.1
	$\leq$ Level 2.5	51.6	57.1	61.7	67.3
	≤ Level 2.0	55.9	61.3	62.2	72.9
	$\leq$ Level 1.5	58.1	53.9	52.9	67.3
	$\leq$ Level 1.0	58.1	53.9	52.9	67.3

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#### **Specialty: Internal Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PBLI02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5		52.0	51.8	52.1
	$\leq$ Level 4.0	51.3	52.0	51.9	52.5
	$\leq$ Level 3.5	51.5	52.7	53.6	57.9
	$\leq$ Level 3.0	52.1	54.4	59.6	68.7
	$\leq$ Level 2.5	55.0	59.9	64.0	73.1
	$\leq$ Level 2.0	59.6	65.1	63.5	80.9
	$\leq$ Level 1.5	59.6	65.0	68.5	80.6
	≤ Level 1.0	59.6	65.0	68.5	80.6
PBLI03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5	40.8			41.0
	≤ Level 4.0	40.8	41.0	41.1	41.3
	$\leq$ Level 3.5	41.2	42.0	44.3	49.2
	$\leq$ Level 3.0	43.3	46.1	54.0	64.4
	≤ Level 2.5	49.1	53.8	60.7	67.1
	≤ Level 2.0	53.4	57.9	57.9	72.8
	≤ Level 1.5	53.1	54.9	68.8	
	≤ Level 1.0	53.1	54.9	68.8	
PBLI04					
	≤ Level 5.0				
	≤ Level 4.5	44.4			
	≤ Level 4.0	44.4	44.4	44.6	44.8
	≤ Level 3.5	44.7	45.2	46.6	51.5
	≤ Level 3.0	45.8	47.9	55.5	66.5
	$\leq$ Level 2.5	50.8	57.1	62.9	65.6
	≤ Level 2.0	54.7	62.5	59.3	73.1
	≤ Level 1.5	58.8	60.2	81.4	
	≤ Level 1.0	58.8	60.2	81.4	
PROF01					
	≤ Level 5.0				
	≤ Level 4.5		31.5	31.6	31.6
	≤ Level 4.0	31.6	31.6	32.0	32.5
	≤ Level 3.5	32.5	33.5	36.8	43.8
	≤ Level 3.0	34.2	38.0	47.2	58.9
	≤ Level 2.5	41.6	46.8	58.4	65.8
	≤ Level 2.0	47.3	51.8	58.0	73.5
	≤ Level 1.5	54.5	42.2	54.6	46.1
	≤ Level 1.0	54.5	42.2	54.6	46.1

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#### **Specialty: Internal Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PROF02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5	36.4	36.4		36.4
	$\leq$ Level 4.0	36.4	36.6	36.8	37.3
	$\leq$ Level 3.5	37.0	38.0	40.7	47.3
	$\leq$ Level 3.0	38.7	42.5	50.2	62.6
	$\leq$ Level 2.5	45.2	51.6	59.7	71.1
	$\leq$ Level 2.0	49.7	58.1	62.8	83.1
	≤ Level 1.5	53.5	53.2	62.6	88.7
	≤ Level 1.0	53.5	53.2	62.6	88.7
PROF03					
	≤ Level 5.0				
	$\leq$ Level 4.5	37.1	37.1	37.1	37.1
	≤ Level 4.0	37.2	37.1	37.3	37.7
	≤ Level 3.5	37.6	38.3	40.1	45.5
	≤ Level 3.0	38.3	41.2	48.9	60.4
	≤ Level 2.5	43.0	47.9	59.2	63.1
	≤ Level 2.0	46.3	52.3	53.4	64.4
	≤ Level 1.5	48.5	50.0	42.3	59.9
	≤ Level 1.0	48.5	50.0	42.3	59.9
PROF04					
	≤ Level 5.0				
	≤ Level 4.5	35.1	35.0		35.2
	≤ Level 4.0	35.1	35.2	35.5	35.9
	≤ Level 3.5	35.7	36.7	39.9	46.4
	≤ Level 3.0	37.2	40.8	49.8	61.2
	≤ Level 2.5	43.7	49.0	58.0	66.7
	≤ Level 2.0	47.8	53.0	57.9	74.3
	≤ Level 1.5	52.5	50.6	58.0	85.7
	≤ Level 1.0	52.5	50.6	58.0	85.7
ICS01					
	≤ Level 5.0				
	≤ Level 4.5	34.1		34.2	34.2
	≤ Level 4.0	34.2	34.2	34.4	34.7
	≤ Level 3.5	34.6	35.3	38.2	43.2
	≤ Level 3.0	36.2	39.5	48.2	59.6
	$\leq$ Level 2.5	41.6	49.6	55.8	54.5
	≤ Level 2.0	46.9	50.8	52.1	60.9
	$\leq$ Level 1.5	52.7	47.8	41.4	
	$\leq$ Level 1.0	52.7	47.8	41.4	

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#### **Specialty: Internal Medicine**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
ICS02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5	35.0	35.0	35.0	35.0
	$\leq$ Level 4.0	35.0	35.1	35.3	35.7
	$\leq$ Level 3.5	35.7	36.8	39.3	45.2
	$\leq$ Level 3.0	37.7	41.9	51.7	61.1
	$\leq$ Level 2.5	43.7	49.8	58.2	59.2
	$\leq$ Level 2.0	48.0	56.0	60.7	74.0
	$\leq$ Level 1.5	50.8	55.8	64.2	78.4
	$\leq$ Level 1.0	50.8	55.8	64.2	78.4
ICS03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5		36.8	36.9	36.9
	$\leq$ Level 4.0	36.8	36.9	37.0	37.3
	$\leq$ Level 3.5	37.2	37.9	40.2	46.1
	$\leq$ Level 3.0	38.7	42.0	49.9	60.2
	$\leq$ Level 2.5	44.7	51.1	55.9	58.2
	$\leq$ Level 2.0	48.8	56.4	58.1	78.5
	$\leq$ Level 1.5	50.8	47.5	77.0	87.5
	$\leq$ Level 1.0	50.8	47.5	77.0	87.5

#### Subspecialty: Adult Congenital Heart Disease

Resident Year	1	2	Total Residents
# of Residents	13	13	26

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)  $\,$ 



5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)  $\,$ 



Note: Please reference milestone narrative for full text.

Aspirational Ready for Unsupervised Practice Critical Deficiencies 1 2 Resident Year

# 2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





Note: 2 of 26 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



#### Subspecialty: Adult Congenital Heart Disease

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### 9. Medical Knowledge - Scholarship. (MK3)



<sup>11.</sup> Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)
Aspirational
Ready for



# 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



#### Subspecialty: Adult Congenital Heart Disease

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



# 15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



Note: 2 of 26 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)







18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



#### Subspecialty: Adult Congenital Heart Disease

 Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g.,  $\ldots$ 



Aspirational Ready for Unsupervised Practice Critical Deficiencies 1 2 Resident Year





24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)  $\,$ 



20. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)

#### Subspecialty: Advanced Heart Failure and Transplant Cardiology

Resident Year	1	Total Residents*
# of Residents	111	111

\*Note: There are 1 residents with an incomplete milestone evaluation that are excluded from the box plots below.

# 1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...





# 3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)



# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: 1 of 110 residents have a status of "Not Yet Assessable" and are not included in the analysis.

Note: Please reference milestone narrative for full text.

# 4. Patient Care - Demonstrates skill in performing and interpreting invasive procedures. (PC4a)



Note: 2 of 110 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### 6. Patient Care - Requests and provides consultative care. (PC5)



# 2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)

(MK2)

#### Subspecialty: Advanced Heart Failure and Transplant Cardiology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### 9. Medical Knowledge - Scholarship. (MK3)



11. Systems-Based Practice - Recognizes system error and advocates





8. Medical Knowledge - Knowledge of diagnostic testing and procedures.

# 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...





12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and ...

#### Subspecialty: Advanced Heart Failure and Transplant Cardiology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



# 15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)  $% \left( 1-\frac{1}{2}\right) =0$ 



Note: Please reference milestone narrative for full text.

Aspirational Ready for Unsupervised Practice Critical Deficiencies i Resident Year





18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)

#### Subspecialty: Advanced Heart Failure and Transplant Cardiology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



#### 21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...



Unsupervised 4

and needs. (PROF3)



20. Professionalism - Responds to each patient's unique characteristics





24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



#### Subspecialty: Cardiovascular Disease

Resident Year	1	2	3	Total Residents
# of Residents	1,084	1,048	988	3,120

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



Note: 3 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)  $\,$ 



Note: 10 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 9 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

Note: Please reference milestone narrative for full text. 161 • MILESTONES NATIONAL REPORT 2020





Note: 2 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

4. Patient Care - Demonstrates skill in performing and interpreting invasive procedures. (PC4a)



Note: 41 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 6 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Cardiovascular Disease

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



9. Medical Knowledge - Scholarship. (MK3)



Note: 113 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)





Note: 1 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 2 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 





Note: Please reference milestone narrative for full text.

8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)

#### Subspecialty: Cardiovascular Disease

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



Note: 7 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 77 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBL1)



Note: 8 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 6 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



#### Subspecialty: Cardiovascular Disease

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: 7 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 1 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...







Note: 16 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



Note: 1 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: 5 of 3,120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Clinical Cardiac Electrophysiology

Resident Year	1	2	Total Residents
# of Residents	147	112	259

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



#### 



5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





6. Patient Care - Requests and provides consultative care. (PC5)



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#### Subspecialty: Clinical Cardiac Electrophysiology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



9. Medical Knowledge - Scholarship. (MK3)



Note: 5 of 259 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)



10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



not included in the analysis.

#### Subspecialty: Clinical Cardiac Electrophysiology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)







Note: 9 of 259 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



Note: Please reference milestone narrative for full text.







18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members  $\ldots$ 



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)

#### Subspecialty: Clinical Cardiac Electrophysiology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g.,  $\dots$ 



20. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)



22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)  $\,$ 



#### Subspecialty: Clinical Informatics (multidisciplinary)

Resident Year	1	2	Total Residents
# of Residents	19	21	40

#### 1. Patient Care - Patient Care 1: Technology Assessment



3. Patient Care - Patient Care 3: Impact of Clinical Informatics on Patient Care



5. Patient Care - Patient Care 5: Information System Lifecycle



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Patient Care 2: Clinical Decision Support Systems

4. Patient Care - Patient Care 4: Project Management



#### 6. Patient Care - Patient Care 6: Assessing User Needs



#### Subspecialty: Clinical Informatics (multidisciplinary)

7. Medical Knowledge - Medical Knowledge 1: Clinical Informatics Fundamentals and Programming



9. Systems-Based Practice - Systems-Based Practice 1: Patient Safety and Unintended Consequences



11. Systems-Based Practice - Systems-Based Practice 3: Workflow and Data Warehouse/Repository



Note: Please reference milestone narrative for full text.



10. Systems-Based Practice - Systems-Based Practice 2: Resource Utilization







8. Medical Knowledge - Medical Knowledge 2: Leadership and Change Management

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#### Subspecialty: Clinical Informatics (multidisciplinary)

13. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 2: Scholarly Activity ...



15. Professionalism - Professionalism 2: Professionalism — Demonstrates responsibility and follow-through on tasks



17. Professionalism - Professionalism 4: Professionalism — Demonstrates responsiveness and sensitivity to ...



Note: Please reference milestone narrative for full text.

14. Professionalism - Professionalism 1: Professionalism — Demonstrates honesty, integrity, and ethical behavior



16. Professionalism - Professionalism 3: Professionalism — Gives and receives feedback



18. Professionalism - Professionalism 5: Professionalism — Understands and practices information security and privacy



#### Subspecialty: Clinical Informatics (multidisciplinary)

19. Interpersonal and Communication Skills - Interpersonal and Communication Skills 1: Effective Communications ...





20. Interpersonal and Communication Skills - Interpersonal and

#### **Subspecialty: Critical Care Medicine**

Resident Year	1	2	Total Residents
# of Residents	159	109	268

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)  $\,$ 



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)

Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

Resident Year

4. Patient Care - Demonstrates skill in performing and interpreting invasive procedures. (PC4a)



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 2 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### **Subspecialty: Critical Care Medicine**

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### 9. Medical Knowledge - Scholarship. (MK3)



Note: 18 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)





Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



Note: 11 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

Note: Please reference milestone narrative for full text.

8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)

#### Subspecialty: Critical Care Medicine

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



Note: 2 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



Note: 2 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### **Subspecialty: Critical Care Medicine**

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...





Note: 2 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



Note: 2 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



not included in the analysis.

#### Subspecialty: Endocrinology, Diabetes, and Metabolism

Resident Year	1	2	Total Residents
# of Residents	353	329	682

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...





Note: 2 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



not included in the analysis.

Note: Please reference milestone narrative for full text. 177 • MILESTONES NATIONAL REPORT 2020



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





Note: 94 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 4 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Endocrinology, Diabetes, and Metabolism

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



note: 2 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### 9. Medical Knowledge - Scholarship. (MK3)



Note: 41 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)





Note: 1 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



Note: 4 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and ...



note: 4 of 682 residents have a status of "Not Yet Assessat

Note: Please reference milestone narrative for full text.

8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)

#### Subspecialty: Endocrinology, Diabetes, and Metabolism

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



Note: 8 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 54 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



Note: 14 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



Note: 7 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



#### Subspecialty: Endocrinology, Diabetes, and Metabolism

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)







not included in the analysis.

23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...



20. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)



Note: 2 of 682 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)  $\,$ 


### Subspecialty: Gastroenterology

Resident Year	1	2	3	Total Residents
# of Residents	614	613	580	1,807

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)



Note: 2 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.





not included in the analysis.

Note: Please reference milestone narrative for full text.

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0 Ready for Unsupervised Practice o 0 0 0 Critical Deficiencies 0 2 Resident Year



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)

Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

4. Patient Care - Demonstrates skill in performing and interpreting invasive procedures. (PC4a)



Note: 13 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Gastroenterology

9. Medical Knowledge - Scholarship. (MK3)

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.



Note: 85 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, $\ldots$



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



Note: 18 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Gastroenterology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)









Note: 31 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)







Note: 7 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



Note: 7 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Gastroenterology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...







Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: 1 of 1,807 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Geriatric Medicine

Resident Year 1		Total Residents*	
# of Residents	272	272	

\*Note: There are 4 residents with an incomplete milestone evaluation that are excluded from the box plots below.

# 1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



# 2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)



# 3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)



#### 5. Patient Care - Requests and provides consultative care. (PC5)



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

Note: Please reference milestone narrative for full text.

4. Patient Care - Demonstrates skill in performing and interpreting noninvasive procedures and/or testing. (PC4b)



Note: 16 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### 6. Medical Knowledge - Possesses Clinical knowledge (MK1)



### **Subspecialty: Geriatric Medicine**

7. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)  $\,$ 



# 9. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



11. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



es. 8. Medical Knowledge - Scholarship. (MK3)



# 10. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



12. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)  $\,$ 



### **Subspecialty: Geriatric Medicine**

13. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



# 15. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



17. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



14. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



Note: 19 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.









### Subspecialty: Geriatric Medicine

19. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)



# 21. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



23. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



# 20. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



Note: 1 of 268 residents have a status of "Not Yet Assessable" and are not included in the analysis.





### Subspecialty: Hematology and Medical Oncology

Resident Year	1	2	3	Total Residents
# of Residents	635	618	607	1,860

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...





Note: 4 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 25 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.



#### 





Note: 62 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)





Note: Please reference milestone narrative for full text. 189 • MILESTONES NATIONAL REPORT 2020

### Subspecialty: Hematology and Medical Oncology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



9. Medical Knowledge - Scholarship. (MK3)



Note: 150 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)



Note: 4 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



Note: 4 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



Note: 24 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Hematology and Medical Oncology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



Note: 16 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 52 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



Note: 21 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 1 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



Note: 1 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Hematology and Medical Oncology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: 1 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.





23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g.,  $\dots$ 







Note: 6 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



Note: 2 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: 8 of 1,860 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### **Subspecialty: Infectious Disease**

Resident Year	1	2	Total Residents
# of Residents	400	380	780

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



3. Patient Care - Manages patients with progressive responsibility and independence.  $(\mbox{PC3})$ 



5. Medical Knowledge - Possesses Clinical knowledge (MK1)



Note: Please reference milestone narrative for full text.



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)

4. Patient Care - Requests and provides consultative care. (PC5)



6. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)  $\,$ 



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### Subspecialty: Infectious Disease

7. Medical Knowledge - Scholarship. (MK3)



not included in the analysis.





Note: 4 of 780 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



8. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...







Note: 3 of 780 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



Note: 11 of 780 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### **Subspecialty: Infectious Disease**

13. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



Note: 52 of 780 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 15. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4) $% \left( 1-\frac{1}{2}\right) =0$



Note: 1 of 780 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: Please reference milestone narrative for full text.



14. Practice-Based Learning and Improvement - Learns and improves via

Note: 2 of 780 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...





18. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)

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### Subspecialty: Infectious Disease

19. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness  $\ldots$ 



21. Interpersonal and Communication Skills - Effective communication with patients, families, and the public,  $\dots$ 



20. Professionalism - Accountability to patients, society, and the profession; personal responsibility to ...



22. Interpersonal and Communication Skills - Effective member or leader of a health care team or other professional  $\dots$ 



### Subspecialty: Interventional Cardiology

Resident Year	1	Total Residents
# of Residents	352	352

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



#### 



# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





6. Patient Care - Requests and provides consultative care. (PC5)



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### Subspecialty: Interventional Cardiology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### 9. Medical Knowledge - Scholarship. (MK3)



Note: 8 of 352 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)





8. Medical Knowledge - Knowledge of diagnostic testing and procedures.

# 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...







### Subspecialty: Interventional Cardiology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



# 15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



not included in the analysis.



Note: Please reference milestone narrative for full text.



Note: 1 of 352 residents have a status of "Not Yet Assessable" and are not included in the analysis.









14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)

### Subspecialty: Interventional Cardiology

 Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



# 21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g.,  $\ldots$ 



20. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)



# 22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)  $\,$ 



### Subspecialty: Medical Oncology

Resident Year	1	2	Total Residents
# of Residents	19	17	36

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



# 3. Patient Care - Manages patients with progressive responsibility and independence. (PC3) $\,$



# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.



2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





6. Patient Care - Requests and provides consultative care. (PC5)



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### Subspecialty: Medical Oncology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### 9. Medical Knowledge - Scholarship. (MK3)



11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)



10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and ...



### Subspecialty: Medical Oncology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)











### Subspecialty: Medical Oncology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



# 21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



# 23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., $\dots$











24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)  $\,$ 



### Subspecialty: Nephrology

Resident Year	1	2	Total Residents
# of Residents	437	414	851

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



Note: 1 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)  $\,$ 



Note: 2 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.

2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)



Note: 2 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

4. Patient Care - Demonstrates skill in performing and interpreting invasive procedures. (PC4a)



Note: 64 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 2 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Nephrology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)







not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)





8. Medical Knowledge - Knowledge of diagnostic testing and procedures.

Note: 4 of 851 residents have a status of "Not Yet Assessable" and are

#### 10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



Note: 1 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and ...



Note: 24 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

(MK2)

not included in the analysis.

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### Subspecialty: Nephrology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



Note: 4 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



Note: 29 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



Note: 5 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



Note: 2 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



Note: 1 of 851 residents have a status of "Not Yet Assess not included in the analysis.

#### Subspecialty: Nephrology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: 1 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 4 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...







Note: 4 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



Note: 1 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: 3 of 851 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pulmonary Disease

Resident Year	1	2	Total Residents
# of Residents	42	31	73

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)  $\,$ 



5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.

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6. Patient Care - Requests and provides consultative care. (PC5)



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### Subspecialty: Pulmonary Disease

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



9. Medical Knowledge - Scholarship. (MK3)



11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



Note: Please reference milestone narrative for full text.



10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...







8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)

### Subspecialty: Pulmonary Disease

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)







17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)







18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



### Subspecialty: Pulmonary Disease

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



# 21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



# 23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...



Note: Please reference milestone narrative for full text.

Aspirational Ready for Unsupervised Practice Critical Deficiencies





24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



20. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)

### Subspecialty: Pulmonary Disease and Critical Care Medicine

Resident Year	1	2	3	Total Residents
# of Residents	720	685	604	2,009

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



Note: 2 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)  $\,$ 



Note: 9 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



not included in the analysis.

Note: Please reference milestone narrative for full text.





Note: 2 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

4. Patient Care - Demonstrates skill in performing and interpreting invasive procedures. (PC4a)



Note: 19 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 6 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pulmonary Disease and Critical Care Medicine

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



Note: 2 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

9. Medical Knowledge - Scholarship. (MK3)



Note: 130 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)



Note: 5 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...



Note: 3 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\dots$ 



Note: 46 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pulmonary Disease and Critical Care Medicine

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



Note: 8 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 103 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBL1)



Note: 20 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



Note: 6 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members ...



Note: 2 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pulmonary Disease and Critical Care Medicine

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



Note: 4 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 3 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...







Note: 4 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



Note: 4 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.

24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: 15 of 2,009 residents have a status of "Not Yet Assessable" and are not included in the analysis.
### Subspecialty: Rheumatology

Resident Year	1	2	Total Residents
# of Residents	264	261	525

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



#### 



# 5. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.

Aspirational Ready for Unsupervised Practice Critical Deficiencies 1 2 Resident Year

# 2. Patient Care - Develops and achieves comprehensive management plan for each patient. (PC2)





Note: 6 of 525 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



Note: 1 of 525 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Rheumatology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



#### 9. Medical Knowledge - Scholarship. (MK3)



not included in the analysis.

11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)





8. Medical Knowledge - Knowledge of diagnostic testing and procedures.

10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...







Note: 9 of 525 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Rheumatology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)







Note: 26 of 525 residents have a status of "Not Yet Assessable" and are not included in the analysis.

17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



Note: Please reference milestone narrative for full text.





Note: 5 of 525 residents have a status of "Not Yet Assessable" and are not included in the analysis.





18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members  $\ldots$ 



#### Subspecialty: Rheumatology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g.,  $\ldots$ 











24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



### Subspecialty: Sleep Medicine (multidisciplinary)

Resident Year	1	Total Residents		
# of Residents	187	187		

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...





# 3. Patient Care - Manages patients with progressive responsibility and independence. (PC3) $\,$



Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### 5. Patient Care - Requests and provides consultative care. (PC5)



Note: Please reference milestone narrative for full text.







4. Patient Care - Demonstrates skill in performing and interpreting non-invasive procedures and/or testing. (PC4b)



Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Medical Knowledge - Possesses Clinical knowledge (MK1)



Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Sleep Medicine (multidisciplinary)

7. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)



not included in the analysis.





Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\ldots$ 



#### 8. Medical Knowledge - Scholarship. (MK3)



Note: 7 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# 10. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



Note: 4 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



not included in the analysis.

#### Subspecialty: Sleep Medicine (multidisciplinary)

13. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)



not included in the analysis.

# 15. Practice-Based Learning and Improvement - Learns and improves via feedback. (PBLI3)



17. Professionalism - Has professional and respectful interactions with



14. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



Note: 5 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.



 Professionalism - Accepts responsibility and follows through on tasks. (PROF2)

#### Subspecialty: Sleep Medicine (multidisciplinary)

19. Professionalism - Responds to each patient's unique characteristics and needs. (PROF3)



21. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)  $\,$ 



Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

23. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)



Note: Please reference milestone narrative for full text.



20. Professionalism - Exhibits integrity and ethical behavior in

professional conduct. (PROF4)

Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

22. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g., ...



Note: 1 of 187 residents have a status of "Not Yet Assessable" and are not included in the analysis.

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### Subspecialty: Transplant Hepatology

Resident Year	1	Total Residents		
# of Residents	55	55		

1. Patient Care - Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s). ...



#### 3. Patient Care - Manages patients with progressive responsibility and independence. (PC3)



#### 5. Patient Care - Demonstrates skill in performing and interpreting noninvasive procedures and/or testing. (PC4b)



Note: Please reference milestone narrative for full text.

0 Aspirational Ready for Unsupervised Practice 0 Critical Deficiencies Resident Year

2. Patient Care - Develops and achieves comprehensive management

plan for each patient. (PC2)







Note: 1 of 55 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Patient Care - Requests and provides consultative care. (PC5)



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### Subspecialty: Transplant Hepatology

7. Medical Knowledge - Possesses Clinical knowledge (MK1)



### 8. Medical Knowledge - Knowledge of diagnostic testing and procedures. (MK2)

0

**Resident Year** 



9. Medical Knowledge - Scholarship. (MK3)



11. Systems-Based Practice - Recognizes system error and advocates for system improvement. (SBP2)



10. Systems-Based Practice - Works effectively within an interprofessional team (e.g., with peers, consultants, ...

Ready for

Practice

Unsupervised

Critical Deficiencies



12. Systems-Based Practice - Identifies forces that impact the cost of health care, and advocates for and  $\dots$ 



### Subspecialty: Transplant Hepatology

13. Systems-Based Practice - Transitions patients effectively within and across health delivery systems. (SBP4)



# 15. Practice-Based Learning and Improvement - Learns and improves via performance audit. (PBLI2)



17. Practice-Based Learning and Improvement - Learns and improves at the point of care. (PBLI4)



14. Practice-Based Learning and Improvement - Monitors practice with a goal for improvement. (PBLI1)







18. Professionalism - Has professional and respectful interactions with patients, caregivers, and members  $\ldots$ 



#### Subspecialty: Transplant Hepatology

19. Professionalism - Accepts responsibility and follows through on tasks. (PROF2)



# 21. Professionalism - Exhibits integrity and ethical behavior in professional conduct. (PROF4)



23. Interpersonal and Communication Skills - Communicates effectively in interprofessional teams (e.g.,  $\ldots$ 





20. Professionalism - Responds to each patient's unique characteristics

# 22. Interpersonal and Communication Skills - Communicates effectively with patients and caregivers. (ICS1)



24. Interpersonal and Communication Skills - Appropriate utilization and completion of health records. (ICS3)  $\,$ 



### **Specialty: Medical Genetics and Genomics**

Resident Year	1	2	Total Residents
# of Residents	33	22	55

1. Patient Care - Obtain and interpret medical, social, and family histories, as well as physical exam ...



3. Patient Care - Incorporate whole genome or exome tests into patient management—Patient Care



Note: 4 of 55 residents have a status of "Not Yet Rotated" and are not included in the analysis.

# 5. Patient Care - Evaluates infants with abnormal newborn screens in a cost-effective and sensitive manner $\ldots$



Note: Please reference milestone narrative for full text.

2. Patient Care - Incorporate genetic tests into patient management—Patient Care







Note: 7 of 55 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - Develop proficiency in cancer genetics—Patient Care



Note: 16 of 55 residents have a status of "Not Yet Rotated" and are not included in the analysis.

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#### **Specialty: Medical Genetics and Genomics**

7. Patient Care - Evaluate and manage patients with single malformations, multiple congenital anomalies, ...







11. Medical Knowledge - Assess and participate in a clinical or translational research study or clinical  $\ldots$ 



8. Patient Care - Develop proficiency in prenatal risk assessment, screening, diagnosis, and counseling—Patient Care



included in the analysis.

10. Medical Knowledge - Apply knowledge of anatomy, development, pathophysiology, natural history, clinical ...







#### **Specialty: Medical Genetics and Genomics**

13. Systems-Based Practice - Use technology to accomplish safe health care delivery—Systems-Based Practice



15. Practice-Based Learning and Improvement - Implement a quality improvement project—Practice-Based Learning and Improvement



17. Professionalism - Adhere to the ethical principles relevant to the practice of medicine—Professionalism



Note: Please reference milestone narrative for full text.

14. Practice-Based Learning and Improvement - Self-Directed Learning—Practice-Based Learning and Improvement ...



16. Professionalism - Is sensitive and responsive to diverse patient populations with respect to gender, ...







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### **Specialty: Medical Genetics and Genomics**

19. Interpersonal and Communication Skills - Relationship building, teamwork, and conflict management—Interpersonal ...





20. Interpersonal and Communication Skills - Information gathering and sharing—Interpersonal and Communication Skills

C. h.	Thursday		
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PC01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		
	$\leq$ Level 3.0		47.3
	$\leq$ Level 2.5	76.9	44.7
	$\leq$ Level 2.0		
	$\leq$ Level 1.5		
	$\leq$ Level 1.0		
PC02			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		
	$\leq$ Level 3.0		38.9
	$\leq$ Level 2.5		47.7
	$\leq$ Level 2.0	47.1	
	≤ Level 1.5		
	≤ Level 1.0		
PC03			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		
	≤ Level 3.0		54.6
	≤ Level 2.5	42.7	54.2
	≤ Level 2.0	67.8	
	≤ Level 1.5		
	≤ Level 1.0		
PC04			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	$\leq$ Level 3.5		
	$\leq$ Level 3.0		70.0
	$\leq$ Level 2.5	59.8	89.6
	$\leq$ Level 2.0	63.6	
	$\leq$ Level 1.5		
	≤ Level 1.0		

Subserved	Threehold		
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PC05			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		
	$\leq$ Level 3.0		
	$\leq$ Level 2.5	53.3	88.6
	$\leq$ Level 2.0	69.5	
	≤ Level 1.5		
	≤ Level 1.0		
PC06			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		
	$\leq$ Level 3.0		68.2
	$\leq$ Level 2.5		75.0
	$\leq$ Level 2.0	59.3	68.2
	≤ Level 1.5	69.5	
	≤ Level 1.0		
PC07			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		
	≤ Level 3.0		62.9
	≤ Level 2.5	58.9	48.2
	≤ Level 2.0	59.7	55.9
	$\leq$ Level 1.5		
	$\leq$ Level 1.0		
PC08			
	≤ Level 5.0		
	$\leq$ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		
	≤ Level 3.0		45.5
	≤ Level 2.5	37.5	50.0
	≤ Level 2.0	66.7	66.7
	≤ Level 1.5	66.7	50.0
	$\leq$ Level 1.0		

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PC09			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		
	$\leq$ Level 3.0		
	$\leq$ Level 2.5		65.5
	$\leq$ Level 2.0	50.0	65.5
	$\leq$ Level 1.5		48.0
	$\leq$ Level 1.0	38.7	49.0
MK01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		
	$\leq$ Level 3.0		70.1
	$\leq$ Level 2.5	64.3	49.6
	$\leq$ Level 2.0	64.3	
	≤ Level 1.5		
	≤ Level 1.0		
MK03			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		
	≤ Level 3.0		
	≤ Level 2.5	70.7	
	≤ Level 2.0	58.9	
	≤ Level 1.5	51.5	
	≤Level 1.0		
SBP01			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		
	≤ Level 3.0		31.1
	$\leq$ Level 2.5	36.5	49.3
	≤ Level 2.0	21.6	
	$\leq$ Level 1.5		
	≤ Level 1.0		

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End		
SBP02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0		51.5		
	$\leq$ Level 2.5	58.0			
	$\leq$ Level 2.0	66.7			
	$\leq$ Level 1.5				
	$\leq$ Level 1.0				
PBLI01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0				
	$\leq$ Level 2.5	45.4	48.9		
	$\leq$ Level 2.0	81.7			
	$\leq$ Level 1.5				
	$\leq$ Level 1.0				
PBLI02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0				
	$\leq$ Level 2.5	73.1	74.9		
	$\leq$ Level 2.0	75.6	78.6		
	≤ Level 1.5	72.1	58.5		
	$\leq$ Level 1.0	66.4	58.5		
PROF01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5		25.0		
	$\leq$ Level 3.0	25.0	25.0		
	$\leq$ Level 2.5				
	$\leq$ Level 2.0				
	≤ Level 1.5				
	≤ Level 1.0				

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PROF02			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	≤ Level 3.5		28.6
	≤ Level 3.0	33.3	28.6
	≤ Level 2.5	28.6	
	≤ Level 2.0		
	≤ Level 1.5		
	≤ Level 1.0		
PROF03			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		35.7
	≤ Level 3.0	35.7	35.7
	≤ Level 2.5	35.7	
	≤ Level 2.0		
	≤ Level 1.5		
	≤ Level 1.0		
ICS01			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		39.8
	≤ Level 3.0	47.6	51.9
	≤ Level 2.5	71.2	
	≤ Level 2.0		
	≤ Level 1.5		
	≤ Level 1.0		
ICS02			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		36.4
	≤ Level 3.0	40.0	50.0
	≤ Level 2.5	35.7	
	≤ Level 2.0		
	$\leq$ Level 1.5		
	$\leq$ Level 1.0		

### **Subspecialty: Medical Biochemical Genetics**

Resident Year	1	Total Residents		
# of Residents	16	16		

#### 1. Patient Care - Initial or Acute Management - Patient Care 1



#### 3. Patient Care - Newborn Screening (NBS) - Patient Care 3





### 5. Medical Knowledge - Newborn Screening (NBS) — Medical Knowledge

Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Chronic Management — Patient Care 2





#### 6. Medical Knowledge - Diagnostic Testing - Medical Knowledge 3



#### Subspecialty: Medical Biochemical Genetics

7. Systems-Based Practice - Systems Approach — Systems-Based Practice 1



9. Systems-Based Practice - Transitions of Care — Systems-Based Practice 3



11. Practice-Based Learning and Improvement - Process Improvement and Patient Safety — Practice-Based Learning ...





8. Systems-Based Practice - Newborn Screening Systems - Systems-

Based Practice 2







12. Professionalism - Giving and Receiving Feedback — Professionalism 1

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#### Subspecialty: Medical Biochemical Genetics

13. Professionalism - Cultural Competency — Professionalism 2



15. Interpersonal and Communication Skills - Communicates with Patients and Families — Interpersonal and ...





16. Interpersonal and Communication Skills - Communication and Conflict Management within the Health Care ...



### 14. Professionalism - Accountability and Integrity - Professionalism 3

### Subspecialty: Molecular Genetic Pathology (multidisciplinary)

Resident Year	1	Total Residents	
# of Residents	56	56	

#### 1. Patient Care - Patient Care 1 — Assay Design and Validation





#### 2. Patient Care - Patient Care 2 - Quality Assurance

3. Patient Care - Patient Care 3 - Interpretation



#### 5. Medical Knowledge - Medical Knowledge 2 - Genomic Testing











### Subspecialty: Molecular Genetic Pathology (multidisciplinary)

7. Systems-Based Practice - Systems-Based Practice 1 - Regulatory



#### 9. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 1 - Evidence-based Utilization



11. Professionalism - Professionalism 1 — Giving and Receiving Feedback



10. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement 2 - Process Improvement and Patient Safety







Level 5 Level 4 Level 3 Level 2 Level ' **Resident Year** 

### Subspecialty: Molecular Genetic Pathology (multidisciplinary)

13. Interpersonal and Communication Skills - Interpersonal and Communication Skills 1 — Communicates with ...





### **Specialty: Neurological Surgery**

Resident Year	1	2	3	4	5	6	7	Total Residents
# of Residents	237	227	224	214	224	207	199	1,532





not included in the analysis.

3. Patient Care - 3: Pain and Peripheral Nerve Disorders



Note: 112 of 1,532 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text. 244 • MILESTONES NATIONAL REPORT 2020





Note: 114 of 1,532 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 4. Patient Care - 4: Spinal Neurological Surgery



Note: 66 of 1,532 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 6. Patient Care - 6: Pediatric Neurological Surgery



### Specialty: Neurological Surgery

7. Patient Care - 7: Traumatic Brain Injury (TBI)











8. Patient Care - 8: Critical Care



Note: 30 of 1,532 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Medical Knowledge - 2: Critical Thinking for Diagnosis and Therapy



Note: 8 of 1,532 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Systems-Based Practice - 2: Quality Improvement



### **Specialty: Neurological Surgery**

13. Systems-Based Practice - 3: Health Care Systems Awareness



15. Practice-Based Learning and Improvement - 2: Research





17. Professionalism - 1: Ethical Behavior

14. Practice-Based Learning and Improvement - 1: Evidence-Based Practice



16. Practice-Based Learning and Improvement - 3: Mentorship and Teaching







### Specialty: Neurological Surgery

19. Interpersonal and Communication Skills - 1: Patient and Family Communication





20. Interpersonal and Communication Skills - 2: Communication in Coordination of Care

#### **Specialty: Neurology**

1. Patient Care - History-Patient Care

Resident Year	1	2	3	4	Total Residents
# of Residents	560	895	844	791	3,090



not included in the analysis.





Note: 222 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 5. Patient Care - Neuromuscular Disorders-Patient Care



Note: Please reference milestone narrative for full text. 248 • MILESTONES NATIONAL REPORT 2020

#### 2. Patient Care - Neurological Exam—Patient Care



Note: 251 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 4. Patient Care - Movement Disorders-Patient Care



Note: 546 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - Cerebrovascular Disorders-Patient Care



Note: 340 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### **Specialty: Neurology**

7. Patient Care - Cognitive/Behavioral Disorders-Patient Care



#### 9. Patient Care - Epilepsy-Patient Care



Note: 379 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.



11. Patient Care - Neurologic Manifestations of Systemic Disease—Patient Care





Note: 468 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Patient Care - Headache Syndromes-Patient Care



Note: 406 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.



12. Patient Care - Child Neurology for the Adult Neurologist-Patient Care

not included in the analysis.

### Specialty: Neurology

13. Patient Care - Neuro-Oncology-Patient Care





<sup>15.</sup> Patient Care - Neuroimaging—Patient Care



17. Patient Care - Nerve Conduction Studies (NCS)/Electromyography (EMG)—Patient Care





Note: 1,078 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Patient Care - Electroencephalogram (EEG)-Patient Care



Note: 803 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.





not included in the analysis.

### 14. Patient Care - Psychiatry for the Adult Neurologist-Patient Care

### **Specialty: Neurology**

19. Medical Knowledge - Localization-Medical Knowledge





### 21. Medical Knowledge - Diagnostic Investigation—Medical Knowledge

23. Systems-Based Practice - Work in interprofessional teams to enhance patient safety—Systems-Based Practice



Note: Please reference milestone narrative for full text.



Note: 209 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.





24. Practice-Based Learning and Improvement - Self-directed learning—Practice-Based Learning and Improvement ...



#### 20. Medical Knowledge - Formulation-Medical Knowledge

Note: 230 of 3,090 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### **Specialty: Neurology**

25. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific  $\ldots$ 



27. Professionalism - Knowledge about, respect for, and adherence to the ethical principles relevant to  $\ldots$ 



gathering, and technology—Interpersonal and Communication ...

29. Interpersonal and Communication Skills - Information sharing,



26. Professionalism - Compassion, integrity, accountability, and respect for self and others—Professionalism



28. Interpersonal and Communication Skills - Relationship development, teamwork, and managing conflict—Interpersonal ...


## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC01							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5						30.6
	≤ Level 3.0		18.4		21.6	34.4	59.7
	$\leq$ Level 2.5		20.2	24.3	35.3	56.4	
	$\leq$ Level 2.0		21.2	29.0	32.8	28.7	
	$\leq$ Level 1.5	21.3	26.7	37.2	40.5		
	≤ Level 1.0	24.3	25.2	41.6			
<b>B0</b> 00							
PC02							
	≤ Level 5.0						
	$\leq$ Level 4.5		10.0				
	≤ Level 4.0		19.0				01.0
	≤ Level 3.5	10.0	19.0		00.7	05.4	31.8
	≤ Level 3.0	18.2	18.9	04.0	22.7	35.1	60.9
	≤ Level 2.5	18.9	20.2	24.3	33.9	60.7	80.4
	≤ Level 2.0	20.0	21.8	27.4	36.0		
	≤ Level 1.5	21.5	23.5	43.4	39.1		
	≤ Level 1.0	25.5	35.7	30.9			
PC03							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5				22.9	27.7	36.9
	≤ Level 3.0		22.0	23.6	28.2	40.8	54.2
	$\leq$ Level 2.5		22.8	29.3	39.1	47.8	68.2
	$\leq$ Level 2.0		24.0	31.4	45.1	37.6	
	≤ Level 1.5	21.0	28.2	47.0			
	≤ Level 1.0	27.2	51.2	26.2			
PC04							
F 604	< Loval 5.0						
	≤ Level 5.0						
	≤ Level 4.5 ≤ Level 4.0						
					46.0	40.1	<b>FC 1</b>
	≤ Level 3.5			45.0	46.0	49.1	56.1
	≤ Level 3.0			45.6	48.6	58.6	69.0 77.1
	$\leq$ Level 2.5	40.0	40.0	47.4	54.1	73.5	77.1
	≤ Level 2.0	43.3	48.2	50.8	64.8	73.2	67.5
	$\leq$ Level 1.5	48.9	50.0	67.6			

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## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PC05								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0					45.0	44.8	
	$\leq$ Level 3.5				46.7	49.1	51.8	
	$\leq$ Level 3.0				47.8	54.8	65.2	
	$\leq$ Level 2.5		46.1	46.7	50.1	59.7	79.7	
	$\leq$ Level 2.0		46.6	49.5	58.4	65.5	80.3	
	≤ Level 1.5	47.5	47.8	60.9	52.5	55.0		
	$\leq$ Level 1.0	58.9	61.7	63.5	69.1	72.3		
PC06	≤ Level 5.0							
	$\leq$ Level 5.0 $\leq$ Level 4.5							
						04.7		
	$\leq$ Level 4.0 $\leq$ Level 3.5					24.7	00.0	
			25.9	05.1	ORE	28.8	36.2	
	≤ Level 3.0		25.9	25.1	27.5	37.4	55.0	
	≤ Level 2.5		26.4	28.8	37.4	44.2	62.9	
	≤ Level 2.0	07.0	29.0	35.7	42.2	50.3		
	≤ Level 1.5	25.0	26.3	41.8	19.0			
	$\leq$ Level 1.0	29.9	33.0	29.9				
PC07								
	≤ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	≤ Level 3.5			41.2	42.9		50.0	
	≤ Level 3.0			42.3	44.9	55.5	65.8	
	≤ Level 2.5			45.2	53.9	70.8	71.4	
	$\leq$ Level 2.0		44.3	48.8	56.4	52.3	48.2	
	≤ Level 1.5	37.0	43.8	59.0	78.4			
	$\leq$ Level 1.0	51.9	47.7	63.1	64.1			
PC09								
	≤ Level 5.0							
	$\leq$ Level 4.5							
	≤ Level 4.0			24.0	261	40.0	47.4	
	≤ Level 3.5			34.2	36.1	40.3	47.4	
	≤ Level 3.0			34.1	37.3	47.9	58.9	
	≤ Level 2.5		40.0	36.5	41.3	58.8	74.3	
	≤ Level 2.0		40.2	39.1	44.1	49.7	69.6	
	≤ Level 1.5	35.8	41.6	57.4	77.6	61.5	61.4	
	$\leq$ Level 1.0	42.7	42.8	62.1	74.3			

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## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End		
PC10									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					34.4			
	$\leq$ Level 3.5			34.2	34.8	37.2	46.0		
	≤ Level 3.0			35.1	36.0	43.3	60.6		
	$\leq$ Level 2.5		34.4	37.6	48.0	64.3	76.1		
	$\leq$ Level 2.0		34.4	40.3	49.4	54.3	54.5		
	≤ Level 1.5	30.2	35.9	61.8	49.1				
	≤ Level 1.0	31.2	45.8	47.2					
PC11									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0			0.1.1		05.1			
	≤ Level 3.5			31.1		35.1	40.8		
	≤ Level 3.0			32.6	34.2	45.0	57.3		
	≤ Level 2.5		33.2	33.1	41.8	63.3	74.6		
	≤ Level 2.0		34.2	37.1	42.6	54.5	65.7		
	≤ Level 1.5	31.8	34.4	58.9	33.2				
	≤ Level 1.0	43.1	47.3	47.2	74.0				
PC12									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5			31.4	31.9				
	≤ Level 3.0			32.6	33.9	46.3	67.9		
	≤ Level 2.5		37.3	34.7	42.8	56.3	63.7		
	≤ Level 2.0		37.3	39.1	46.4	79.5	54.9		
	≤ Level 1.5	38.0	40.1	53.1	68.8				
	$\leq$ Level 1.0	44.3	48.1	37.5					
PC13									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					38.9	42.1		
	≤ Level 3.5				39.9	46.2	55.0		
	≤ Level 3.0			36.4	42.5	47.6	61.4		
	≤ Level 2.5			40.5	48.0	51.4	66.9		
	$\leq$ Level 2.0		43.9	42.3	50.8	52.3	64.9		
	≤ Level 1.5	53.2	46.6	48.9	63.0	47.5	61.5		
	$\leq$ Level 1.0	81.9	52.2	65.2	83.4	60.4			

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## Specialty: Neurology

Subcompotopov	Threshold	Vr1	Vr1	Vro	Yr2,	Vr2	Vr2
Subcompetency	Inresnoia	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Year-End	Yr3, Mid-Year	Yr3, Year-End
PC14							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5			43.8	44.3	46.7	53.3
	≤ Level 3.0			44.3	45.9	51.9	60.8
	$\leq$ Level 2.5			43.9	51.1	59.3	74.6
	$\leq$ Level 2.0		42.5	46.1	60.0	58.0	66.4
	≤ Level 1.5	46.7	45.5	56.6	47.2		
	$\leq$ Level 1.0	44.3	45.2	45.6	38.0		
PC15							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						37.4
	$\leq$ Level 3.5			31.4		41.8	45.9
	$\leq$ Level 3.0		34.8	34.6	40.2	48.4	61.0
	$\leq$ Level 2.5		33.4	34.0	49.3	56.7	74.4
	$\leq$ Level 2.0		33.1	38.4	54.9	83.8	
	$\leq$ Level 1.5	31.3	38.1	47.3	54.9		
	$\leq$ Level 1.0	33.2	45.9	57.0	61.3		
PC16							
FCIO	≤ Level 5.0						
	$\leq$ Level 5.0 $\leq$ Level 4.5						
	$\leq$ Level 4.0						22.9
	$\leq$ Level 4.0 $\leq$ Level 3.5					06 F	
	$\leq$ Level 3.5 $\leq$ Level 3.0				25.9	26.5	32.3 53.9
			24.8	070		38.7	
	≤ Level 2.5		-	27.0	33.8	54.4	75.4
	≤ Level 2.0		25.7	30.6	35.0	61.5	
	≤ Level 1.5 ≤ Level 1.0	34.1	27.2 36.4	40.5 49.9	52.4 25.2		
		54.1	00.4	40.0	20.2		
PC17							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0					35.9	37.5
	$\leq$ Level 3.5			35.8	37.3	43.2	47.1
	≤ Level 3.0			37.7	38.9	46.4	61.4
	≤ Level 2.5		37.5	41.1	43.0	57.7	79.4
	≤ Level 2.0		38.8	44.5	47.6	72.1	75.6
	≤ Level 1.5		40.4	48.5	44.9	58.8	
	$\leq$ Level 1.0	42.0	52.4	47.4	35.5		

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## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PC18								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5			48.7		54.1	59.4	
	$\leq$ Level 3.0			49.8	51.9	55.9	67.3	
	$\leq$ Level 2.5			50.4	55.9	65.7	79.5	
	$\leq$ Level 2.0		46.3	50.6	61.1	69.5	81.3	
	$\leq$ Level 1.5	40.0	45.2	57.0	69.3	71.1		
	$\leq$ Level 1.0	46.9	54.9	61.8	58.4	50.6		
PC19								
- 013	≤ Level 5.0							
	$\leq$ Level 5.0 $\leq$ Level 4.5					9.2	9.2	
	≤ Level 4.5 ≤ Level 4.0				9.1	9.2	9.2	
	≤ Level 4.0 ≤ Level 3.5			10.7	9.1	9.6	24.2	
	$\leq$ Level 3.0			11.6	15.5	29.0	40.8	
	$\leq$ Level 3.0		16.0		18.6	39.2	40.0	
	$\leq$ Level 2.0	14.4	19.8	18.9 21.1	22.4	39.2		
	$\leq$ Level 2.0 $\leq$ Level 1.5	14.4	20.2	28.9	22.4			
	≤ Level 1.0	22.8	25.7	31.5				
	≤ Level 1.0	22.0	20.7	31.5				
MK01								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5						34.9	
	$\leq$ Level 3.0		25.8		29.0	41.7	56.4	
	$\leq$ Level 2.5	26.5	26.2	29.0	38.7	60.8	57.2	
	$\leq$ Level 2.0	27.0	27.7	31.7	48.7	39.2	42.8	
	$\leq$ Level 1.5	30.1	32.7	60.5	42.2			
	$\leq$ Level 1.0	34.0	47.2	43.3	39.8			
MK02								
WITYV2	≤Level 5.0							
	≤ Level 4.5							
	≤ Level 4.0						34.5	
	≤ Level 3.5		00.7	00.6	07.0	40.7		
	≤ Level 3.0	-02.0	23.7	23.6	27.8	42.7	63.7	
	≤ Level 2.5	23.8	25.3	28.8	43.3	57.7	88.8	
	≤ Level 2.0	25.2	28.5	31.5	51.5	66.2		
	≤ Level 1.5	29.3	31.4	57.8	50.0	37.1		
	$\leq$ Level 1.0	33.3	45.0	44.7				

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## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
MK03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						36.4
	$\leq$ Level 3.0		24.7	27.3	29.1	42.1	68.6
	$\leq$ Level 2.5	26.2	25.4	32.8	39.1	55.6	69.1
	$\leq$ Level 2.0	26.4	28.4	35.9	49.7	42.6	
	$\leq$ Level 1.5	31.8	29.0	57.6	18.7		
	$\leq$ Level 1.0	35.3	45.5	29.1			
SBP01							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					34.9	41.6
	≤ Level 3.0	30.3	31.1	31.0	33.9	44.1	64.1
	≤ Level 2.5	30.2	30.8	34.7	43.8	65.0	
	≤ Level 2.0	31.3	31.1	42.4	42.9	66.0	
	≤ Level 1.5	34.1	34.7	41.5	39.5		
	≤ Level 1.0	31.7	40.6	41.0			
SBP02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					31.3	39.7
	$\leq$ Level 3.0	25.2	25.7	26.0	28.8	38.7	57.1
	$\leq$ Level 2.5	26.3	25.4	29.9	40.2	52.8	90.3
	$\leq$ Level 2.0	27.4	27.6	33.1	44.3	51.0	
	$\leq$ Level 1.5	28.7	32.1	49.7	42.4		
	$\leq$ Level 1.0	25.2	40.8	57.3			
PBLI01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						24.9
	$\leq$ Level 3.5		24.5	24.6	24.9	30.2	36.6
	$\leq$ Level 3.0	24.5	24.4	26.0	29.1	48.7	60.0
	$\leq$ Level 2.5	25.1	25.0	31.6	47.4	66.6	86.1
	$\leq$ Level 2.0	26.1	27.2	37.5	55.0	82.6	
	$\leq$ Level 1.5	32.3	29.7	48.0	64.0		
	≤ Level 1.0	27.5	31.2	30.2			

## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PBLI02		27.5	31.2	30.2			
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5		25.7	25.9	26.0	30.0	37.3
	≤ Level 3.0	25.7	25.8	26.6	29.2	41.0	64.5
	≤ Level 2.5	26.6	26.6	31.0	42.3	64.3	75.8
	≤ Level 2.0	28.0	28.0	38.1	52.7	54.3	
	≤ Level 1.5	29.6	32.9	52.1	45.2	46.3	
	$\leq$ Level 1.0	29.8	41.3	44.2	39.1		
PROF01							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	≤ Level 4.0						
	$\leq$ Level 3.5		21.4	21.1	22.2	25.6	36.4
	≤ Level 3.0	21.2	21.7	21.7	25.8	42.5	65.1
	$\leq$ Level 2.5	22.6	24.0	29.3	46.0	84.0	92.1
	$\leq$ Level 2.0	24.0	26.6	39.7	68.0	73.8	
	$\leq$ Level 1.5	29.5	30.9	62.9	70.4	53.4	
	≤ Level 1.0	30.2	39.9	65.2			
PROF02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5		23.0	22.4	23.6	28.9	40.2
	$\leq$ Level 3.0	22.7	22.6	23.4	27.6	48.5	73.4
	$\leq$ Level 2.5	24.0	25.4	28.8	41.5	80.2	80.0
	$\leq$ Level 2.0	25.0	27.1	35.9	63.5	48.7	
	$\leq$ Level 1.5	30.3	26.5	51.2	63.2		
	$\leq$ Level 1.0	33.1	36.8	52.2			
ICS01							
	≤ Level 5.0						
	≤ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5		24.9	24.6	26.2	31.1	40.9
	≤ Level 3.0	24.8	25.3	25.5	30.1	47.5	62.1
	$\leq$ Level 3.0 $\leq$ Level 2.5	24.8	25.3	32.5	45.6	79.0	94.1
	$\leq$ Level 2.0	27.0	30.3	43.4	61.5	68.2	04.1
	$\leq$ Level 2.0	30.8	32.0	53.8	61.6	00.2	
	$\leq$ Level 1.5 $\leq$ Level 1.0	27.8	35.5	59.2	31.3		

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## Specialty: Neurology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
ICS02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5		25.7	25.7	26.3	30.0	40.6
	$\leq$ Level 3.0	25.6	26.0	27.2	29.5	44.7	63.7
	$\leq$ Level 2.5	25.7	27.3	30.7	42.2	76.4	85.6
	$\leq$ Level 2.0	27.3	30.1	41.1	62.7		
	$\leq$ Level 1.5	33.2	35.9	56.8	61.5		
	≤ Level 1.0	30.2	39.6	44.7			

### Subspecialty: Clinical Neurophyiology

Resident Year	1	Total Residents
# of Residents	170	170

#### 1. Patient Care - History - Patient Care



#### 3. Patient Care - Electroencephalogram (EEG) — Patient Care



#### 5. Patient Care - EMG - Patient Care



Note: Please reference milestone narrative for full text. 261 • MILESTONES NATIONAL REPORT 2020



#### 2. Patient Care - Neurological Exam - Patient Care

4. Patient Care - Nerve Conduction Studies (NCS) - Patient Care



Note: 50 of 170 residents have a status of "Not Applicable" and are not included in the analysis.

6. Patient Care - Evoked Potential (EP)/Intraoperative Monitoring (IOM) — Patient Care



Note: 67 of 170 residents have a status of "Not Applicable" and are not included in the analysis.

### Subspecialty: Clinical Neurophyiology

7. Patient Care - Sleep Disorders - Patient Care













10. Medical Knowledge - Neuromuscular Disorders — Medical Knowledge

8. Medical Knowledge - Localization — Medical Knowledge







Note: Please reference milestone narrative for full text.

### Subspecialty: Clinical Neurophyiology

13. Medical Knowledge - EP/IOM — Medical Knowledge



#### 15. Systems-Based Practice - Work in interprofessional teams to enhance patient safety — Systems-Based Practice



17. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific ...



Note: Please reference milestone narrative for full text.

14. Systems-Based Practice - Systems thinking, including cost- and risk-effective practice — Systems-Based Practice



16. Practice-Based Learning and Improvement - Self-directed learning — Practice-Based Learning and Improvement • Identify ...







### Subspecialty: Clinical Neurophyiology

19. Professionalism - Knowledge about, respect for, and adherence to the ethical principles relevant to  $\ldots$ 



20. Interpersonal and Communication Skills - Relationship development, teamwork, and managing conflict — ...



21. Interpersonal and Communication Skills - Information sharing, gathering, and technology — Interpersonal ...



Note: Please reference milestone narrative for full text.

### Subspecialty: Epilepsy

Resident Year	1	Total Residents
# of Residents	127	127

### 1. Patient Care - History - Patient Care



#### 3. Patient Care - Medical Management - Patient Care







Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Neurological Examination - Patient Care

4. Patient Care - Surgical Management — Patient Care



6. Patient Care - Cognitive, Behavioral, and Psychiatric Disorders Associated with Seizure Disorders — Patient Care



### Subspecialty: Epilepsy

7. Medical Knowledge - Epilepsy Localization — Medical Knowledge







11. Systems-Based Practice - Systems Thinking, Including Cost- and Risk-Effective Practice — Systems-Based Practice



Note: Please reference milestone narrative for full text.



#### 10. Systems-Based Practice - Work in Interprofessional Teams to Enhance Patient Safety — Systems-Based Practice







8. Medical Knowledge - Diagnostic Investigation — Medical Knowledge

### Subspecialty: Epilepsy

13. Practice-Based Learning and Improvement - Self-directed learning — Practice-Based Learning and Improvement ...



15. Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others — Professionalism



17. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...



Note: Please reference milestone narrative for full text.

14. Practice-Based Learning and Improvement - Locate, Appraise, and Assimilate Evidence from Scientific ...







18. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology— Interpersonal ...



### Subspecialty: Neurodevelopmental Disabilities

Resident Year	1	2	3	4	Total Residents
# of Residents	7	5	5	7	24





## 2. Patient Care - Neurological Exam - Patient Care



3. Patient Care - Neurodevelopmental Exam - Patient Care



5. Patient Care - Neurodevelopmental Disabilities - Patient Care



4. Patient Care - Management/Treatment - Patient Care



6. Patient Care - Neurometabolic and Neurogenetic Disorders - Patient Care



### Subspecialty: Neurodevelopmental Disabilities

7. Patient Care - Movement Disorders - Patient Care



9. Patient Care - Cerebrovascular Disorders - Patient Care



<sup>11.</sup> Patient Care - Neuroimmunologic and White Matter Disorders — Patient Care



Note: Please reference milestone narrative for full text.



8. Patient Care - Neuromuscular Disorders — Patient Care









### Subspecialty: Neurodevelopmental Disabilities

13. Patient Care - Headache Syndromes - Patient Care



#### 15. Patient Care - Neuroimaging — Patient Care







Note: Please reference milestone narrative for full text.



16. Patient Care - Electroencephalogram [EEG] - Patient Care







### 14. Patient Care - Neuro-Oncology - Patient Care

### Subspecialty: Neurodevelopmental Disabilities

19. Medical Knowledge - Development - Medical Knowledge



#### 21. Medical Knowledge - Diagnostic Investigation — Medical Knowledge



23. Systems-Based Practice - Systems thinking, including cost- and riskeffective practice — Systems-Based Practice



Note: Please reference milestone narrative for full text.



## 22. Systems-Based Practice - Community Resources — Systems-Based Practice







#### 20. Medical Knowledge - Localization — Medical Knowledge

### Subspecialty: Neurodevelopmental Disabilities

25. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement ...







29. Interpersonal and Communication Skills - Relationship development, teamwork, and managing conflict — ...



Note: Please reference milestone narrative for full text.

26. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific ...











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### Subspecialty: Neuromuscular Medicine

Resident Year	1	Total Residents
# of Residents	78	78

#### 1. Patient Care - History - Patient Care



#### 3. Patient Care - Management/Treatment - Patient Care







Note: Please reference milestone narrative for full text.

Level 4 Level 3 Level 2 Level 1 1 Resident Year

#### 2. Patient Care - Neuromuscular Exam - Patient Care

Level 5

4. Patient Care - Nerve Conduction Studies (NCS) - Patient Care



#### 6. Patient Care - Anterior Horn Cell Disorders - Patient Care



### Subspecialty: Neuromuscular Medicine

7. Patient Care - Root, Plexus, and Peripheral Nerve Disorders - Patient Care





8. Patient Care - Neuromuscular Junction Disorders - Patient Care

### 9. Patient Care - Myopathies - Patient Care



### 11. Medical Knowledge - Formulation - Medical Knowledge





12. Medical Knowledge - Diagnostic Investigation - Medical Knowledge

## Note: Please reference milestone narrative for full text.

### 10. Medical Knowledge - Localization — Medical Knowledge



### Subspecialty: Neuromuscular Medicine

13. Medical Knowledge - Muscle and Nerve Pathology — Medical Knowledge



15. Systems-Based Practice - Work in Interprofessional Teams to Enhance Patient Safety and Patient Care — Systems-Based Practice



17. Practice-Based Learning and Improvement - Locate, Appraise, and Assimilate Evidence from Scientific ...



Note: Please reference milestone narrative for full text.



16. Practice-Based Learning and Improvement - Self-directed Learning – Practice-Based Learning and Improvement ...







14. Systems-Based Practice - Systems Thinking, Including Cost- and Risk-effective Practice — Systems-Based Practice

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### Subspecialty: Neuromuscular Medicine (Neurology)

19. Professionalism - Knowledge About, Respect for, and Adherence to the Ethical Principles Relevant to ...



21. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology — Interpersonal ...



20. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...



Note: Please reference milestone narrative for full text.

### Subspecialty: Vascular Neurology

Resident Year	1	Total Residents*	
# of Residents	129	129	

\*Note: There are 2 residents with an incomplete milestone evaluation that are excluded from the box plots below.

#### 1. Patient Care - History - Patient Care

2. Patient Care - Vascular Neurological Examination - Patient Care



3. Patient Care - Ischemic Stroke Reperfusion Treatment and Management — Patient Care



### 5. Medical Knowledge - Localization — Medical Knowledge



Note: Please reference milestone narrative for full text. 277 • MILESTONES NATIONAL REPORT 2020

4. Patient Care - Treatment and Management of Patients with Cerebrovascular Disease — Patient Care



#### 6. Medical Knowledge - Formulation — Medical Knowledge



### Subspecialty: Vascular Neurology

7. Medical Knowledge - Imaging in Vascular Neurology (e.g., computed tomography [CT], magnetic resonance ...



9. Medical Knowledge - Ischemic Stroke — Medical Knowledge



11. Medical Knowledge - Subarachnoid Hemorrhage — Medical Knowledge



Note: Please reference milestone narrative for full text.



**Resident Year** 

10. Medical Knowledge - Intracerebral Hemorrhage — Medical





8. Medical Knowledge - Diagnostic Investigation in Vascular Neurology — Medical Knowledge

### Subspecialty: Vascular Neurology

13. Systems-Based Practice - Work in interprofessional teams to enhance patient safety — Systems-Based Practice



# 15. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement ...



17. Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others — Professionalism



Note: Please reference milestone narrative for full text.











14. Systems-Based Practice - Continuum of Care — Systems-Based Practice

### Subspecialty: Vascular Neurology

19. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...



20. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology— Interpersonal  $\ldots$ 



Note: Please reference milestone narrative for full text.

### **Specialty: Child Neurology**

1. Patient Care - History - Patient Care

Resident Year	1	2	3	Total Residents
# of Residents	142	134	131	407



### 3. Patient Care - Management/Treatment - Patient Care



5. Patient Care - Movement Disorders - Patient Care



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Neurological Exam - Patient Care





6. Patient Care - Neuromuscular Disorders - Patient Care



### **Specialty: Child Neurology**

7. Patient Care - Cerebrovascular Disorders - Patient Care



9. Patient Care - Neuroimmunologic and White Matter Disorders — Patient Care







Note: Please reference milestone narrative for full text.



10. Patient Care - Epilepsy - Patient Care



12. Patient Care - Neuro-Oncology - Patient Care



8. Patient Care - Cognitive, Behavioral, and Psychiatric Disorders — Patient Care

### **Specialty: Child Neurology**





#### 15. Patient Care - Lumbar Puncture - Patient Care







Note: Please reference milestone narrative for full text.



16. Medical Knowledge - Development — Medical Knowledge



18. Medical Knowledge - Formulation — Medical Knowledge



### 14. Patient Care - Electroencephalogram [EEG] - Patient Care

### **Specialty: Child Neurology**

19. Medical Knowledge - Diagnostic Investigation — Medical Knowledge







23. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific  $\ldots$ 



20. Systems-Based Practice - Systems thinking, including cost- and riskeffective practice — Systems-Based Practice



22. Practice-Based Learning and Improvement - Self-directed learning — Practice-Based Learning and Improvement ...







Note: Please reference milestone narrative for full text.

### **Specialty: Child Neurology**

25. Professionalism - Knowledge about, respect for, and adherence to the ethical principles relevant to  $\ldots$ 



26. Interpersonal and Communication Skills - Relationship development, teamwork, and managing conflict — ...



27. Interpersonal and Communication Skills - Information sharing, gathering, and technology — Interpersonal ...



Note: Please reference milestone narrative for full text.

### **Specialty: Nuclear Medicine**

Resident Year	1	2	3	Total Residents
# of Residents	41	19	21	81

1. Patient Care - Diagnostic: General Nuclear Medicine, Cardiovascular, and Molecular Imaging (Patient ...



Note: 1 of 81 residents have a status of "Not Yet Rotated" and are not included in the analysis.

3. Patient Care - Therapy: Radioiodine for Benign Thyroid Disease-Patient Evaluation, Procedure Selection, ...



## 5. Patient Care - Therapy: Parenteral–Patient Evaluation, Procedure Selection, Procedure Performance, and $\ldots$



Note: Please reference milestone narrative for full text.

2. Patient Care - Cardiovascular Nuclear Medicine-Stress Testing: Patient Evaluation and Procedure Monitoring—Patient Care



Note: 3 of 81 residents have a status of "Not Yet Rotated" and are not included in the analysis.





6. Medical Knowledge - Physiology and Pathophysiology—Medical Knowledge



### **Specialty: Nuclear Medicine**

7. Medical Knowledge - Anatomic Imaging-Medical Knowledge



#### 9. Medical Knowledge - Radiopharmaceuticals and molecular agents-Medical Knowledge



### 11. Medical Knowledge - Regulatory Requirements-Medical Knowledge



Level 5



8. Medical Knowledge - Instrumentation-Medical Knowledge

10. Medical Knowledge - Medical physics, mathematics, and radiation biology-Medical Knowledge







Note: Please reference milestone narrative for full text.

### **Specialty: Nuclear Medicine**

13. Systems-Based Practice - Computer Systems-Based Practice











Note: Please reference milestone narrative for full text.



16. Practice-Based Learning and Improvement - Implements Quality Improvement Project—Practice-Based Learning and Improvement







### 14. Systems-Based Practice - Economics-Systems-Based Practice
### **Specialty: Nuclear Medicine**

19. Interpersonal and Communication Skills - Health Care Team—Interpersonal and Communications Skills



#### **Specialty: Obstetrics and Gynecology**

Resident Year	1	2	3	4	Total Residents
# of Residents	1,481	1,447	1,409	1,382	5,719

1. Patient Care - Antepartum Care and Complications of Pregnancy—Patient Care



<sup>3.</sup> Patient Care - Care of Patients in the Postpartum  $\ensuremath{\mathsf{Period}}\xspace{--}\ensuremath{\mathsf{Patient}}\xspace$  Care



note: 43 or 5,/19 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Care of Patients in the Intrapartum Period-Patient Care

4. Patient Care - Obstetrical Technical Skills-Patient Care



Note: 41 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - Gynecology Technical Skills: Laparotomy (e.g., Hysterectomy, Myomectomy, Adnexectomy)—Patient Care



Note: 413 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

Note: 52 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### **Specialty: Obstetrics and Gynecology**

7. Patient Care - Gynecology Technical Skills: Vaginal Surgery (e.g., Vaginal Hysterectomy, Colporrhaphy, ...



Note: 897 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.





not included in the analysis.

11. Patient Care - Care of the Patient with Non-Reproductive Medical Disorders—Patient Care



8. Patient Care - Gynecology Technical Skills: Endoscopy (Laparoscopy, Hysteroscopy, Cystoscopy)—Patient Care



Note: 235 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Patient Care - Ambulatory Gynecology-Patient Care



Note: 148 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Medical Knowledge - Perioperative Care—Medical Knowledge



not included in the analysis.

#### **Specialty: Obstetrics and Gynecology**

13. Medical Knowledge - Abdominal/Pelvic Pain (Acute and Chronic)—Medical Knowledge



Note: 193 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 15. Medical Knowledge - Pelvic Mass-Medical Knowledge



Note: 280 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 17. Medical Knowledge - First Trimester Bleeding-Medical Knowledge







Note: 155 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Pelvic Floor Disorders (Urinary Incontinence, Pelvic Prolapse, Anal Incontinence)—Medical Knowledge



Note: 1,041 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

18. Medical Knowledge - Health Care Maintenance and Disease



Note: 161 of 5,719 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### **Specialty: Obstetrics and Gynecology**

19. Systems-Based Practice - Patient Safety and Systems Approach to Medical Errors: Participate in identifying ...



21. Practice-Based Learning and Improvement - Self-directed Learning/Critical Appraisal of Medical Literature—Practice-Based ...



23. Professionalism - Compassion, Integrity, and Respect for  $Others\hfill Professionalism$ 



20. Systems-Based Practice - Cost-effective Care and Patient Advocacy—Systems-Based Practice



22. Practice-Based Learning and Improvement - Quality Improvement Process: Systematically analyze practice ...



24. Professionalism - Accountability and Responsiveness to the Needs of Patients, Society, and the Profession—Professionalism



### Specialty: Obstetrics and Gynecology

25. Professionalism - Respect for Patient Privacy, Autonomy, Patient-Physician Relationship—Professionalism



27. Interpersonal and Communication Skills - Communication with Physicians and Other Health Professionals ...



26. Interpersonal and Communication Skills - Communication with Patients and Families—Interpersonal and Communication Skills



28. Interpersonal and Communication Skills - Informed Consent and Shared Decision Making—Interpersonal and Communication Skills



### Specialty: Obstetrics and Gynecology

<u>.</u>							
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	≤ Level 4.0					29.7	30.3
	≤ Level 3.5					32.2	39.7
	≤ Level 3.0			30.8	33.5	43.2	68.3
	$\leq$ Level 2.5		30.2	33.9	46.7	63.2	86.2
	$\leq$ Level 2.0	29.8	33.7	41.1	59.7	57.4	
	≤ Level 1.5	32.5	42.0	54.7	53.3	36.4	
	$\leq$ Level 1.0	41.2	51.9				
PC02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						28.1
	$\leq$ Level 3.5				28.1	30.7	36.7
	$\leq$ Level 3.0			28.8	31.5	43.1	66.8
	$\leq$ Level 2.5	27.9	28.4	33.3	44.4	63.8	78.0
	≤ Level 2.0	28.3	31.3	42.1	63.2	84.8	
	≤ Level 1.5	31.4	39.9	50.5	78.6	62.2	
	≤ Level 1.0	40.2	49.7	61.9			
PC03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						25.9
	≤ Level 3.5				25.9	27.8	34.9
	≤ Level 3.0	25.8		26.6	29.9	39.6	63.4
	$\leq$ Level 2.5	25.7	26.4	30.4	40.5	43.2	52.4
	$\leq$ Level 2.0	26.6	31.0	39.9	55.9	50.4	52.5
	≤ Level 1.5	29.8	39.1	33.2	26.8	33.3	
	≤ Level 1.0	36.9	46.1	25.8			
PC04							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						37.6
	$\leq$ Level 3.5	37.3	37.5	37.5		39.0	42.8
	$\leq$ Level 3.0	37.3	37.5	38.2	40.7	49.2	65.3
	≤ Level 2.5	37.4	38.3	41.5	49.4	74.0	85.7
	≤ Level 2.0	38.5	40.7	49.8	62.4	89.4	
	≤ Level 1.5	38.1	48.2	70.9		69.0	
	≤Level 1.0	43.4	61.6	23.8			

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### Specialty: Obstetrics and Gynecology

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PC05	≤ Level 5.0						
	$\leq$ Level 5.0 $\leq$ Level 4.5						
	≤ Level 4.0	00.1	01.7	00.0	00.4	45.0	40.0
	≤ Level 3.5	36.1	31.7	32.2	32.4	45.6	46.6
	≤ Level 3.0	36.1	31.3	34.8	33.7	40.3	52.6
	≤ Level 2.5	34.7	29.1	32.6	34.5	33.5	49.6
	≤ Level 2.0	35.3	29.8	34.8	37.3	33.2	
	≤ Level 1.5	34.5	33.1	30.4	25.9	27.7	
	$\leq$ Level 1.0	31.6	30.9	24.4	22.7	24.2	
PC06							
	$\leq$ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0					50.0	50.3
	≤ Level 3.5		49.5	49.9	50.1	51.0	53.5
	≤ Level 3.0	47.6	49.5	49.8	50.5	57.1	67.9
	≤ Level 2.5	47.7	49.7	52.5	58.3	67.5	77.0
	≤ Level 2.0	48.4	50.9	57.7	64.1	59.2	66.1
	≤ Level 1.5	49.6	54.8	67.9	72.8	47.4	55.0
	≤ Level 1.0	53.0	67.6	72.7	70.9	15.8	
		00.0	0110		10.0	10.0	
PC07							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0					62.8	63.3
	≤ Level 3.5				63.0	63.7	66.4
	≤ Level 3.0			62.0	63.2	67.3	75.9
	≤ Level 2.5		62.1	62.5	67.3	75.5	82.5
	≤ Level 2.0	60.0	63.5	66.6	74.7	78.9	79.7
	≤ Level 1.5	62.2	66.9	72.4	76.7	77.5	78.1
	$\leq$ Level 1.0	61.2	74.8	70.9	76.2	83.4	
PC08							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						45.2
	$\leq$ Level 4.0						45.3
	$\leq$ Level 3.5		45.5	45.3		46.5	49.3
	$\leq$ Level 3.0		45.6	45.6	46.3	52.8	64.9
	$\leq$ Level 2.5	45.3	45.8	48.6	54.3	68.1	71.6
	$\leq$ Level 2.0	45.8	46.8	53.8	61.9	65.9	48.1
	$\leq$ Level 1.5	45.8	51.3	64.7	61.0	64.2	
	≤ Level 1.0	49.4	60.4	64.3	74.0		

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### Specialty: Obstetrics and Gynecology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC09		Mid-fear	Tear-End	iwiu-rear	fear-End	Mid-fear	rear-Enu
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0					35.0	35.2
	≤ Level 3.5			35.1	35.7	38.4	44.2
	≤ Level 3.0	33.8	34.9	36.3	38.1	45.9	59.7
	≤ Level 2.5	34.2	35.9	38.5	47.1	56.3	68.9
	≤ Level 2.0	34.5	36.4	47.8	50.5	50.7	53.2
	≤ Level 1.5	35.7	44.8	64.4	56.9		
	≤ Level 1.0	37.5	54.7	59.0	69.5		
PC10							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						46.5
	$\leq$ Level 3.5				46.7	47.2	51.7
	$\leq$ Level 3.0		45.7	47.1	47.4	54.8	68.0
	$\leq$ Level 2.5	45.9	46.0	49.0	54.1	63.5	74.8
	$\leq$ Level 2.0	46.4	47.4	54.0	57.8	67.9	
	$\leq$ Level 1.5	47.1	48.5	69.1	83.4	60.0	
	$\leq$ Level 1.0	50.1	52.6	67.4	78.3		
PC11							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0					50.8	51.0
	$\leq$ Level 3.5					52.0	56.0
	$\leq$ Level 3.0		50.9	51.2	51.7	57.8	70.8
	$\leq$ Level 2.5	50.4	51.6	53.1	57.4	67.0	73.5
	$\leq$ Level 2.0	51.4	52.4	59.2	63.5	62.9	73.3
	≤ Level 1.5	51.8	54.8	57.3	74.3	63.3	54.9
	≤ Level 1.0	54.0	58.8	65.9	65.0	35.3	21.3
MK01							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5		38.6			40.9	44.8
	≤ Level 3.0	38.5	38.6	39.2	40.3	49.3	64.6
	≤ Level 2.5	38.5	38.9	42.6	47.8	62.1	77.0
	≤ Level 2.0	39.3	40.9	49.0	60.6	55.5	78.5
	≤ Level 1.5	40.0	46.5	58.0	82.6	66.9	
	$\leq$ Level 1.0	45.5	61.7	83.9			

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### Specialty: Obstetrics and Gynecology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
MK02							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5				49.4	50.5	53.8
	≤ Level 3.0		49.0	49.0	50.0	57.0	68.1
	≤ Level 2.5	47.7	49.1	50.9	54.9	69.0	78.9
	≤ Level 2.0	48.1	50.6	57.3	67.1	68.6	68.2
	≤ Level 1.5	47.9	55.3	64.4	64.7	59.3	
	≤ Level 1.0	53.2	60.1	48.9	33.2	30.4	
MK03							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0		0.5.0	07.4	077	00.7	
	≤ Level 3.5		37.3	37.4	37.5	38.7	42.0
	≤ Level 3.0		37.2	37.3	38.2	47.3	59.6
	≤ Level 2.5	37.7	38.0	39.1	44.9	57.6	61.0
	≤ Level 2.0	37.8	38.5	45.4	55.9	44.6	28.5
	≤ Level 1.5	38.9	43.2	45.4	58.5	37.8	
	≤ Level 1.0	42.7	53.7	40.8	16.1		
MK04							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5				42.3	43.6	46.9
	$\leq$ Level 3.0		41.8	42.7	43.3	48.4	61.9
	$\leq$ Level 2.5	39.9	42.6	44.5	47.6	64.8	76.2
	$\leq$ Level 2.0	40.5	43.6	51.9	60.2	67.2	78.6
	≤ Level 1.5	42.0	48.3	62.3	73.1	73.2	
	≤ Level 1.0	44.0	58.0	61.2	74.0	71.9	
VIK05							
	≤ Level 5.0						
	$\leq$ Level 3.0 $\leq$ Level 4.5						
	$\leq$ Level 4.5 $\leq$ Level 4.0						
						57.4	61.5
	≤ Level 3.5		50.0	540	54.0	57.4	
	≤ Level 3.0	50.0	53.6	54.0	54.9	60.2	75.0
	≤ Level 2.5	52.3	53.6	54.8	57.8	70.4	78.0
	≤ Level 2.0	52.2	54.0	59.1	66.6	71.2	69.8
	$\leq$ Level 1.5	52.8	58.8	62.5	70.9	77.3	70.4

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### Specialty: Obstetrics and Gynecology

2 2 2 2 2 2 2 2 2 2	$\leq \text{Level } 5.0$ $\leq \text{Level } 4.5$ $\leq \text{Level } 3.5$ $\leq \text{Level } 3.0$ $\leq \text{Level } 2.5$ $\leq \text{Level } 2.0$ $\leq \text{Level } 1.5$ $\leq \text{Level } 1.0$	Mid-Year	Year-End 26.3 26.3 27.2	Mid-Year	Year-End	Mid-Year	Year-End 26.7 35.1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<ul> <li>≤ Level 4.5</li> <li>≤ Level 4.0</li> <li>≤ Level 3.5</li> <li>≤ Level 3.0</li> <li>≤ Level 2.5</li> <li>≤ Level 2.0</li> <li>≤ Level 1.5</li> </ul>		26.3	27.8		28.3	
2	<ul> <li>≤ Level 4.5</li> <li>≤ Level 4.0</li> <li>≤ Level 3.5</li> <li>≤ Level 3.0</li> <li>≤ Level 2.5</li> <li>≤ Level 2.0</li> <li>≤ Level 1.5</li> </ul>		26.3	27.8		28.3	
2 2 2 2 2 2 2 2	<ul> <li>≤ Level 4.0</li> <li>≤ Level 3.5</li> <li>≤ Level 2.5</li> <li>≤ Level 2.0</li> <li>≤ Level 1.5</li> </ul>		26.3	27.8		28.3	
2	<ul> <li>≤ Level 3.5</li> <li>≤ Level 3.0</li> <li>≤ Level 2.5</li> <li>≤ Level 2.0</li> <li>≤ Level 1.5</li> </ul>		26.3	27.8		28.3	
2	≤ Level 3.0 ≤ Level 2.5 ≤ Level 2.0 ≤ Level 1.5		26.3	27.8		28.3	35.1
2	≤ Level 2.5 ≤ Level 2.0 ≤ Level 1.5			27.8			
<u>-</u>	≤ Level 2.0 ≤ Level 1.5		27.2		29.2	38.1	54.1
4	≤ Level 1.5	27.0		29.8	35.6	43.1	49.0
			27.9	35.3	40.0	40.5	42.5
-		30.3	33.6	43.7	38.5	26.1	14.6
		31.2	35.6	19.6	21.5	16.1	14.6
MK07							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5					46.8	50.3
	≤ Level 3.0			46.4	47.0	52.7	64.7
	≤ Level 2.5	45.8	46.3	48.6	53.2	64.1	64.9
	≤ Level 2.0	46.2	47.6	53.7	58.8	67.9	55.1
	≤ Level 1.5	49.0	51.7	62.7	70.2	67.8	75.5
	≤ Level 1.0	52.3	61.7	61.2			
		02.0	01.7	01.2			
SBP01							
	≤ Level 5.0						
	≤ Level 4.5			39.2			
	≤ Level 4.0			39.2			39.9
	≤ Level 3.5	39.2		39.6	39.7	41.6	45.8
	≤ Level 3.0	39.2	39.5	40.6	41.2	48.1	65.3
	≤ Level 2.5	39.5	41.2	44.3	48.2	60.7	77.6
	≤ Level 2.0	40.7	41.5	49.2	58.9	64.9	63.5
	≤ Level 2.0 ≤ Level 1.5	40.7	41.5	60.2	62.8	58.6	55.0
	$\leq$ Level 1.5 $\leq$ Level 1.0	42.3	55.1	54.0	53.0	32.1	45.1
		42.0		54.0		52.1	40.1
SBP02							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						41.5
	≤ Level 3.5					43.6	47.9
	≤ Level 3.0	40.5	40.4	41.3	43.8	50.6	65.9
	$\leq$ Level 2.5	40.5	40.4	41.3	50.6	68.0	65.6
	$\leq$ Level 2.5 $\leq$ Level 2.0				59.3		
		41.7	44.1	52.5		52.5	49.3
	≤ Level 1.5 ≤ Level 1.0	43.4 48.8	45.8 59.8	71.9 57.3	85.2 92.0	63.2 92.0	42.7 38.4

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### **Specialty: Obstetrics and Gynecology**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PBLI01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5			43.7	43.7		44.4
	$\leq$ Level 4.0		43.7	43.7	43.8		45.3
	$\leq$ Level 3.5		43.8	44.2	44.2	46.7	53.5
	$\leq$ Level 3.0		43.9	45.2	46.8	54.6	70.5
	$\leq$ Level 2.5	44.0	44.9	46.9	54.3	65.7	77.6
	$\leq$ Level 2.0	45.2	48.0	57.4	66.0	75.0	78.0
	≤ Level 1.5	47.7	51.4	66.0	79.4	70.1	52.4
	$\leq$ Level 1.0	52.7	65.3	78.7			
PBLI02							
	≤ Level 5.0						
	$\leq$ Level 3.0						
	≤ Level 4.0						42.4
	≤ Level 3.5	41.5	42.1	42.2	42.3	44.9	48.9
	$\leq$ Level 3.0	41.7	41.9	42.6	43.8	51.6	63.9
	≤ Level 3.5				51.7	67.0	73.0
	$\leq$ Level 2.0	42.0 42.2	42.7 42.7	44.2 50.7	62.4	64.2	73.0
	$\leq$ Level 2.0	41.9	42.7	67.8	57.8	56.5	79.0
		-			57.6		
	≤ Level 1.0	46.9	56.7	79.9		74.7	
PROF01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						27.0
	$\leq$ Level 4.0					27.1	27.6
	$\leq$ Level 3.5				28.0	32.8	41.5
	$\leq$ Level 3.0	27.3	27.4	29.9	33.4	46.2	62.2
	$\leq$ Level 2.5	28.0	30.5	38.1	44.2	63.9	85.2
	$\leq$ Level 2.0	29.6	36.3	46.7	58.3	67.2	76.9
	$\leq$ Level 1.5	36.7	45.9	58.9	58.9	50.7	
	$\leq$ Level 1.0	38.9	63.3	45.0	51.7		
PROF02							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0					35.3	36.2
	≤ Level 4.0		35.3	35.5	36.5	40.4	48.0
	≤ Level 3.0	35.4	35.5	36.5	39.3	50.7	66.2
	$\leq$ Level 3.0 $\leq$ Level 2.5	36.2	37.5	43.1	53.0	64.9	80.1
	$\leq$ Level 2.5 $\leq$ Level 2.0	-					
		37.9	41.4	50.6	63.8	70.0	90.5
	$\leq$ Level 1.5 $\leq$ Level 1.0	42.5 47.4	47.0 68.8	63.8 60.0	82.6 89.9	63.2 75.5	90.2

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### Specialty: Obstetrics and Gynecology

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PROF03	≤ Level 5.0						
	$\leq$ Level 5.0 $\leq$ Level 4.5						
						01.0	31.6
	≤ Level 4.0			01.0	00.0	31.2	
	≤ Level 3.5	01.0	01.1	31.3	32.2	35.4	41.9
	≤ Level 3.0	31.2	31.1	32.8	33.8	44.1	60.2
	≤ Level 2.5	31.8	31.8	36.9	43.0	53.7	66.4
	≤ Level 2.0	32.7	35.9	41.1	53.5	52.4	68.9
	≤ Level 1.5	36.5	45.7	54.3	67.2	39.0	74.1
	≤ Level 1.0	43.0	61.7	64.4	67.2	55.1	
CS01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5					30.4	30.6
	≤ Level 4.0					30.5	31.3
	≤ Level 3.5			30.6	31.4	33.6	41.3
	≤ Level 3.0	30.4	30.7	31.9	33.6	42.3	63.1
	≤ Level 2.5	31.0	32.4	36.6	44.5	66.1	67.6
	≤ Level 2.0	31.5	35.3	43.7	58.8	57.9	64.3
	≤ Level 1.5	35.0	41.5	51.5	80.0	17.2	
	$\leq$ Level 1.0	40.4	55.0	35.2			
ICS02							
	≤ Level 5.0						
	≤ Level 4.5					33.4	33.4
	$\leq$ Level 4.0					33.7	34.4
	≤ Level 3.5			33.6	34.2	38.1	45.2
	≤ Level 3.0	33.4	33.9	36.5	38.8	48.8	65.2
	$\leq$ Level 2.5	34.5	37.0	44.3	49.7	66.9	70.1
	≤ Level 2.0	36.5	43.1	51.4	62.1	68.1	81.2
	$\leq$ Level 1.5	43.5	50.7	66.8	81.6	57.7	84.1
	≤ Level 1.0	50.5	61.5	64.1			
ICS03							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0			34.2			35.0
	≤ Level 3.5			34.2	34.5	36.8	43.5
	≤ Level 3.0	34.2	34.3	34.8	36.3	44.6	60.0
	≤ Level 2.5	34.3	35.1	40.0	45.1	56.1	75.3
	≤ Level 2.0	35.9	39.3	47.2	59.4	56.9	68.5
	≤ Level 1.5	39.8	40.6	57.6	48.4		
	$\leq$ Level 1.0	42.9	53.7	41.5	36.0		

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#### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

Resident Year	1	2	3	Total Residents
# of Residents	51	45	52	148

1. Patient Care - General Pelvic Floor Evaluation — Patient Care



3. Patient Care - Anal Incontinence and Defecatory Dysfunction Treatment — Patient Care



5. Patient Care - Urogenital Fistulas and Urethral Diverticula Treatment — Patient Care



Note: Please reference milestone narrative for full text.

2. Patient Care - Urinary Incontinence and Overactive Bladder Treatment - Patient Care



4. Patient Care - Pelvic Organ Prolapse Treatment - Patient Care



6. Patient Care - Painful Bladder Syndrome Treatment - Patient Care



#### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

7. Patient Care - Urinary Tract Infection (UTI) - Patient Care



9. Medical Knowledge - Urinary Incontinence and Overactive Bladder Treatment — Medical Knowledge







8. Medical Knowledge - Pelvic Floor Anatomy and Physiology — Medical Knowledge



10. Medical Knowledge - Anal Incontinence and Defecatory Dysfunction Treatment — Medical Knowledge







#### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

13. Medical Knowledge - Painful Bladder Syndrome Treatment — Medical Knowledge



15. Medical Knowledge - Neuro-Urology — Medical Knowledge



17. Systems-Based Practice - Health Care Economics — Systems-Based Practice



Level 2

Level '

0

2

**Resident Year** 

3

14. Medical Knowledge - Urinary Tract Infection - Medical Knowledge





18. Systems-Based Practice - Works and coordinates patient care effectively in various health care delivery ...



#### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

19. Practice-Based Learning and Improvement - Scholarly Activity — Practice-Based Learning and Improvement



21. Professionalism - Professional Ethics and Accountability — Professionalism



23. Interpersonal and Communication Skills - Effective Communication — Interpersonal and Communication Skills



Note: Please reference milestone narrative for full text.

20. Practice-Based Learning and Improvement - Implements Quality Improvement Project — Practice-Based Learning and Improvement



22. Interpersonal and Communication Skills - Health Care Teamwork — Interpersonal and Communication Skills



#### Subspecialty: Gynecologic Oncology

Resident Year	1	2	3	Total Residents
# of Residents	73	72	65	210

1. Patient Care - PC1: Surgical Care of Gynecologic Cancer – Open Techniques



3. Patient Care - PC3: Medical Management of Gynecologic Cancer – Chemotherapy and Targeted Therapeutics



5. Patient Care - PC5: Hospice and Palliative Care



Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 2 Level 1 1 2 3 Resident Year

# 2. Patient Care - PC2: Surgical Care of Gynecologic Cancer – Minimally Invasive Surgical (MIS) Techniques

#### 4. Patient Care - PC4: Peri-operative Care



#### 6. Medical Knowledge - MK1: Anatomy



#### Subspecialty: Gynecologic Oncology

7. Medical Knowledge - MK2: Pathology



9. Medical Knowledge - MK4: Genetics, Cancer Biology, and Immunology



11. Medical Knowledge - MK6: Chemotherapy and Targeted Therapeutics



Note: Please reference milestone narrative for full text.

8. Medical Knowledge - MK3: Management of Medical Diseases in Gynecologic Cancer – Organ System Disorders



10. Medical Knowledge - MK5: Radiation Therapy – Radiation Biology and Physics







#### Subspecialty: Gynecologic Oncology

13. Systems-Based Practice - SBP1: Computer Systems



15. Practice-Based Learning and Improvement - PBLI1: Scholarly Activity



17. Professionalism - PROF1: Professional Ethics and Accountability



Note: Please reference milestone narrative for full text.

(Quality/Cost)

14. Systems-Based Practice - SBP2: Value-based Patient Care







18. Professionalism - PROF2: Compassion, Integrity, and Respect for Others

### Subspecialty: Gynecologic Oncology

19. Interpersonal and Communication Skills - ICS1: Teamwork and Communication with Physicians and Other Health Professionals





Note: Please reference milestone narrative for full text.

20. Interpersonal and Communication Skills - ICS2: Communication with Patients and Families

#### Subspecialty: Maternal-Fetal Medicine

Resident Year	1	2	3	Total Residents
# of Residents	134	121	117	372

#### 1. Patient Care - PC1: Labor and Delivery Procedures



3. Patient Care - PC3: Medical Complications of Pregnancy



5. Medical Knowledge - MK1: Pathology, Anatomy, and Physiology



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - PC2: Sonographic Diagnosis and Procedures

4. Patient Care - PC4: Obstetrical Complications



6. Medical Knowledge - MK2: Medical Complications of Pregnancy



#### Subspecialty: Maternal-Fetal Medicine

7. Medical Knowledge - MK3: Obstetrical Complications



#### 9. Medical Knowledge - MK5: Prenatal Imaging and Diagnosis







Note: Please reference milestone narrative for full text.



10. Systems-Based Practice - SBP1: Computer Systems





12. Practice-Based Learning and Improvement - PBLI1: Scholarly Activity

### 8. Medical Knowledge - MK4: Genetic Principles

#### Subspecialty: Maternal-Fetal Medicine

13. Practice-Based Learning and Improvement - PBLI2: Quality Improvement (QI)



15. Professionalism - PROF1: Professional Ethics and Accountability



17. Interpersonal and Communication Skills - ICS1: Teamwork and Communication with Physicians and Other Health Professionals



Note: Please reference milestone narrative for full text.

14. Practice-Based Learning and Improvement - PBLI3: Education of Team Members



16. Professionalism - PROF2: Compassion, Integrity, and Respect for Others



18. Interpersonal and Communication Skills - ICS2: Communication with Patients and Families



#### Subspecialty: Reproductive Endocrinology and Infertility

Resident Year	1	2	3	Total Residents
# of Residents	59	53	58	170

1. Patient Care - PC1: General Infertility Evaluation



3. Patient Care - PC3: Surgery for Reproductive Disorders



5. Medical Knowledge - MK2: Genetic Principles



Note: Please reference milestone narrative for full text.







6. Medical Knowledge - MK3: Reproductive Medicine and Neuroendocrinology



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### Subspecialty: Reproductive Endocrinology and Infertility

7. Systems-Based Practice - SBP1: Computer Systems



9. Practice-Based Learning and Improvement - PBLI1: Scholarly Activity



11. Practice-Based Learning and Improvement - PBLI3: Education of Team Members



Note: Please reference milestone narrative for full text.

(Quality/Cost)





12. Professionalism - PROF1: Professional Ethics and Accountability



8. Systems-Based Practice - SBP2: Value-based Patient Care (Quality/Cost)

### Subspecialty: Reproductive Endocrinology and Infertility

13. Professionalism -  $\mathsf{PROF2}$ : Compassion, Integrity, and Respect for Others



15. Interpersonal and Communication Skills - ICS2: Communication with Patients and Partner (if applicable)



14. Interpersonal and Communication Skills - ICS1: Teamwork and Communication with Physicians and Other Health Professionals



#### Specialty: Ophthalmology

Resident Year	1	2	3	Total Residents
# of Residents	516	505	502	1,523

1. Patient Care - PC-1. Patient Interview



3. Patient Care - PC-3. Office Diagnostic Procedures (Use the Appendix and see Special Note on page v.)



5. Patient Care - PC-5. Non-surgical Therapy



Note: Please reference milestone narrative for full text.



2. Patient Care - PC-2. Patient Examination (Use the Appendix and see Special Note on page v.)

#### 4. Patient Care - PC-4. Disease Diagnosis



6. Patient Care - PC-6. Non-Operating Room (OR) Surgery (Use the Appendix and see Special Note on page v.)



#### Specialty: Ophthalmology

7. Patient Care - PC-7. OR Surgery (Use the Appendix and see Special Note on page v.)



9. Medical Knowledge - MK-1. Demonstrate level-appropriate knowledge



11. Systems-Based Practice - SBP-1. Work effectively and coordinate patient care in various health care delivery systems



Note: Please reference milestone narrative for full text.



10. Medical Knowledge - MK-2. Demonstrate level-appropriate knowledge applied to patient management



12. Systems-Based Practice - SBP-2. Incorporate cost-effectiveness, risk/benefit analysis, and IT to promote ...



8. Patient Care - PC-8. Consultation

#### Specialty: Ophthalmology

13. Systems-Based Practice - SBP-3: Work in interprofessional teams to enhance patient safety, identify ...



15. Practice-Based Learning and Improvement - PBLI-2. Locate, appraise, and assimilate evidence from scientific ...



17. Professionalism - PROF-1. Compassion, integrity, and respect for others; sensitivity and responsiveness  $\ldots$ 



14. Practice-Based Learning and Improvement - PBLI-1. Self-Directed Learning 1. Identify strengths, deficiencies, ...



16. Practice-Based Learning and Improvement - PBLI-3. Participate in a quality improvement project







#### Specialty: Ophthalmology

19. Professionalism - PROF-3. Respect for patient privacy and autonomy



21. Interpersonal and Communication Skills - ICS-1. Communicate effectively with patients and families with ...



23. Interpersonal and Communication Skills - ICS-3. Work effectively as a member or leader of a health care ...



Level 5 0 ο ο

profession



20. Professionalism - PROF-4. Accountability to patients, society, and the

22. Interpersonal and Communication Skills - ICS-2. Communicate effectively with physicians, other health ...



24. Interpersonal and Communication Skills - ICS-4. Effectively present didactic and case-based educational ...



### Specialty: Ophthalmology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC01					
	≤ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0				34.3
	≤ Level 3.5			36.2	38.9
	≤ Level 3.0	34.6	34.6	41.8	60.0
	≤ Level 2.5	35.4	37.2	66.0	88.1
	$\leq$ Level 2.0	37.2	55.2	62.1	76.8
	≤ Level 1.5	55.8	79.3	54.6	
	≤ Level 1.0	50.7			
PC02					
F 472	≤ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0				
	≤ Level 3.5			40.2	42.9
	≤ Level 3.0	38.9	39.0	44.6	62.4
	≤ Level 2.5	39.4	44.2	72.1	92.4
	≤ Level 2.0	41.3	59.4	73.2	
	≤ Level 1.5	58.4	79.1		
	$\leq$ Level 1.0	72.9			
PC03					
	≤ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0				
	≤ Level 3.5			41.5	43.7
	≤ Level 3.0	40.6	40.3	45.9	59.5
	$\leq$ Level 2.5	40.2	43.5	68.4	81.8
	≤ Level 2.0	43.3	59.6	69.2	
	$\leq$ Level 1.5	56.4	74.1		
	≤ Level 1.0	56.5			
PC04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			38.1	40.7
	≤ Level 3.0	36.8	36.7	41.2	60.6
	$\leq$ Level 2.5	37.3	40.5	65.1	84.2
	≤ Level 2.0	39.6	59.4	58.9	
	≤ Level 1.5	52.4	75.0		
	≤ Level 1.0	56.7			

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### Specialty: Ophthalmology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC05					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			36.0	39.4
	≤ Level 3.0	35.4	34.9	39.4	58.3
	≤ Level 2.5	35.3	38.1	64.3	83.0
	≤ Level 2.0	36.7	52.8	63.5	
	≤ Level 1.5	45.9	62.5		
	≤ Level 1.0	51.0			
PC06					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			37.0	40.6
	≤ Level 3.0		36.0	42.0	56.6
	≤ Level 2.5	37.0	40.5	57.1	90.8
	≤ Level 2.0	38.7	49.9	56.1	70.5
	≤ Level 1.5	47.2	72.5	52.9	
	≤ Level 1.0	49.0	64.2		
PC07					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			44.5	45.0
	≤ Level 3.0	43.4	43.3	48.5	58.7
	≤ Level 2.5	43.8	45.7	57.6	71.1
	≤ Level 2.0	45.7	52.1	55.2	73.0
	≤ Level 1.5	52.1	57.3	56.5	63.1
	≤ Level 1.0	49.4	52.1		
PC08					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				31.7
	≤ Level 3.5	31.6	32.1	34.0	36.8
	$\leq$ Level 3.0	31.9	32.9	38.9	54.5
	$\leq$ Level 2.5	32.4	37.8	67.5	85.4
	≤ Level 2.0	34.0	51.1	70.6	00.4
	$\leq$ Level 1.5	46.8	70.3	70.0	
	$\leq$ Level 1.0	53.5	77.8		

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### Specialty: Ophthalmology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
MK01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				48.8
	$\leq$ Level 3.5		48.8	50.8	58.0
	$\leq$ Level 3.0	45.2	50.8	58.7	74.3
	$\leq$ Level 2.5	46.3	53.3	77.5	78.1
	$\leq$ Level 2.0	49.6	60.3	79.2	82.0
	$\leq$ Level 1.5	62.8	79.6	83.1	
	≤ Level 1.0	55.0	66.5	53.4	
MK02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	≤ Level 3.5				44.1
	$\leq$ Level 3.0	38.2	38.9	47.4	62.9
	$\leq$ Level 2.5	37.9	43.5	70.4	74.7
	$\leq$ Level 2.0	41.2	57.8	67.9	88.6
	$\leq$ Level 1.5	55.2	76.8	63.8	
	≤ Level 1.0	70.4	84.7	75.2	
SBP01					
	≤Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				40.5
	$\leq$ Level 3.5	40.5	40.6	41.4	46.2
	≤ Level 3.0	40.9	40.8	47.2	65.6
	$\leq$ Level 2.5	41.4	43.4	62.9	71.2
	$\leq$ Level 2.0	42.7	50.4	59.6	
	≤ Level 1.5	58.2	66.5		
	≤ Level 1.0	68.2	65.9		
SBP02					
	$\leq$ Level 5.0				
	≤ Level 4.5				
	≤Level 4.0				49.0
	≤ Level 3.5	49.2		51.1	53.4
	≤ Level 3.0	49.3	50.3	56.5	71.1
	≤ Level 2.5	50.1	51.1	74.6	84.3
	≤Level 2.0	51.5	55.6	75.3	
	≤ Level 1.5	64.1	84.7		
	≤Level 1.0	71.6			

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### Specialty: Ophthalmology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
SBP03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				41.9
	$\leq$ Level 3.5	41.7	42.4	43.2	46.6
	$\leq$ Level 3.0	41.7	42.1	48.7	62.0
	$\leq$ Level 2.5	42.0	45.1	64.0	66.8
	$\leq$ Level 2.0	43.5	52.1	67.6	57.2
	≤ Level 1.5	56.1	75.3		
	$\leq$ Level 1.0	50.8			
PBLI01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5	40.2	40.7	42.2	45.2
	≤ Level 3.0	39.9	41.2	47.6	63.4
	≤ Level 2.5	40.8	43.4	67.9	86.4
	≤ Level 2.0	42.8	53.7	77.2	80.2
	≤ Level 1.5	54.7	73.4	84.8	
	≤ Level 1.0	59.3	76.0		
PBLI02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			49.7	51.8
	≤ Level 3.0	48.1	48.7	51.4	68.2
	$\leq$ Level 2.5	47.8	50.5	72.1	82.5
	≤ Level 2.0	50.2	58.7	72.4	85.3
	≤ Level 1.5	65.1	76.2	68.3	
	≤ Level 1.0	70.3	85.0	43.0	
PBLI03					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			53.5	56.6
	$\leq$ Level 3.0		52.6	56.7	70.2
	$\leq$ Level 3.0 $\leq$ Level 2.5	52.7		68.5	70.2
	$\leq$ Level 2.3 $\leq$ Level 2.0		55.8 61.2	66.4	73.0
		53.3			
	≤ Level 1.5 ≤ Level 1.0	55.3 55.5	66.4 69.3	74.4 65.9	60.7 68.6

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### Specialty: Ophthalmology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PROF01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0	28.4	28.0	28.8	
	$\leq$ Level 3.5	29.4	29.3	33.4	38.7
	$\leq$ Level 3.0	29.7	30.3	45.5	67.7
	$\leq$ Level 2.5	33.1	35.3	70.7	62.5
	$\leq$ Level 2.0	34.1	42.4	69.9	72.8
	$\leq$ Level 1.5	45.4	54.6	63.6	
	≤ Level 1.0	55.9			
PROF02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0	30.2	30.0	30.6	31.0
	≤ Level 3.5	30.9	31.5	35.3	40.8
	≤Level 3.0	30.6	31.7	44.6	68.1
	≤ Level 2.5	33.9	38.8	68.2	74.5
	≤Level 2.0	36.5	46.3	72.0	70.4
	≤ Level 1.5	55.5	66.4	53.5	
	≤Level 1.0	42.7			
PROF03					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0		28.7	28.9	
	≤ Level 3.5		30.6	32.2	37.4
	≤Level 3.0	29.5	31.0	38.8	62.2
	$\leq$ Level 2.5	32.0	35.2	68.8	51.6
	≤ Level 2.0	32.0	44.7	65.7	37.2
	≤ Level 1.5	44.4	60.7		
	$\leq$ Level 1.0	52.5			
PROF04					
	≤ Level 5.0				
	≤ Level 4.5			34.6	
	≤ Level 4.0	34.8	34.8	35.0	
	≤ Level 3.5	35.4	36.2	39.8	43.8
	≤ Level 3.0	35.7	37.2	46.6	64.7
	≤ Level 2.5	37.1	41.2	67.2	74.8
	≤ Level 2.0	37.8	50.3	60.7	63.4
	$\leq$ Level 1.5	52.8	72.9	41.0	
	$\leq$ Level 1.0	56.2	12.0	41.0	

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## Specialty: Ophthalmology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
ICS01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5	31.1			37.3
	$\leq$ Level 3.0	31.8	33.4	39.9	56.4
	$\leq$ Level 2.5	31.8	37.0	68.3	76.7
	$\leq$ Level 2.0	34.3	43.2	43.5	53.0
	$\leq$ Level 1.5	46.7	61.2		
	≤ Level 1.0	47.8			
ICS02					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5			34.1	
	$\leq$ Level 4.0			34.5	
	$\leq$ Level 3.5		35.0	37.4	41.7
	$\leq$ Level 3.0	34.9	35.8	47.3	62.0
	$\leq$ Level 2.5	35.8	40.6	72.1	68.7
	$\leq$ Level 2.0	36.8	47.3	77.5	75.1
	≤ Level 1.5	49.3	75.0		
	≤ Level 1.0	47.4			
ICS03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5			37.3	
	$\leq$ Level 4.0			37.5	
	$\leq$ Level 3.5			40.0	43.1
	≤ Level 3.0	38.5	39.5	49.5	66.3
	≤ Level 2.5	38.9	43.8	69.8	67.9
	≤ Level 2.0	42.6	54.0	63.7	
	≤ Level 1.5	55.1	76.1		
	≤ Level 1.0	50.5			
ICS04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				34.6
	≤ Level 3.5		35.2	37.8	39.3
	≤ Level 3.0	35.2	35.7	43.7	56.9
	≤ Level 2.5	36.7	38.4	69.3	83.6
	≤ Level 2.0	40.6	47.7	51.1	
	≤ Level 1.5	55.4	56.2		
	≤ Level 1.0	63.0			

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### **Specialty: Orthopaedic Surgery**

Resident Year	1	2	3	4	5	Total Residents
# of Residents	881	885	867	847	841	4,321





Note: 998 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 3. Patient Care - Ankle Arthritis



Note: 1,113 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### 5. Patient Care - Ankle Fracture



Note: Please reference milestone narrative for full text.



Note: 891 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### 4. Medical Knowledge - Ankle Arthritis



Note: 1,015 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 6. Medical Knowledge - Ankle Fracture



Note: 384 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

## 2. Medical Knowledge - Anterior Cruciate Ligament (ACL)

### Specialty: Orthopaedic Surgery





#### 9. Patient Care - Degenerative Spinal Conditions



Note: 1,037 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.



#### 11. Patient Care - Diabetic Foot

<sup>8.</sup> Medical Knowledge - Carpal Tunnel



Note: 831 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Medical Knowledge - Degenerative Spinal Conditions



Note: 934 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### 12. Medical Knowledge - Diabetic Foot



Note: 1,045 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### Specialty: Orthopaedic Surgery

13. Patient Care - Diaphyseal Femur and Tibia Fracture



15. Patient Care - Distal Radius Fracture (DRF)









Note: 356 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Distal Radius Fracture (DRF)



Note: 488 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 18. Medical Knowledge - Adult Elbow Fracture



Note: 465 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

Note: Please reference milestone narrative for full text.

### 14. Medical Knowledge - Diaphyseal Femur and Tibia Fracture

### **Specialty: Orthopaedic Surgery**

<sup>19.</sup> Patient Care - Hip and Knee Osteo Arthritis (OA)



Note: 707 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: 385 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.



23. Patient Care - Metastatic Bone Lesion



Note: 639 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

22. Medical Knowledge - Hip Fracture



Note: 364 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### 24. Medical Knowledge - Metastatic Bone Lesion



Note: 1,142 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

20. Medical Knowledge - Hip and Knee Osteo Arthritis (OA)

### **Specialty: Orthopaedic Surgery**

25. Patient Care - Meniscal Tear



### 27. Patient Care - Pediatric Septic Hip







### 29. Patient Care - Rotator Cuff Injury

26. Medical Knowledge - Meniscal Tear



Note: 840 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

28. Medical Knowledge - Pediatric Septic Hip



Note: 879 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### 30. Medical Knowledge - Rotator Cuff Injury



note. 047 or 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### **Specialty: Orthopaedic Surgery**

31. Patient Care - Pediatric Supracondylar Humerus Fracture



Note: 908 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.





35. Systems-Based Practice - Uses technology to accomplish safe health care delivery





Note: 835 of 4,321 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Practice-Based Learning and Improvement - Self-Directed Learning:
 Identify strengths, deficiencies, ...



Note: Please reference milestone narrative for full text.

32. Medical Knowledge - Pediatric Supracondylar Humerus Fracture

### **Specialty: Orthopaedic Surgery**

37. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific  $\ldots$ 



39. Professionalism - Accountability to patients, society, and the profession; personal responsibility to ...



41. Interpersonal and Communication Skills - Teamwork (e.g., physician, nursing and allied health care providers,  $\ldots$ 



38. Professionalism - Compassion, integrity, and respect for others as well as sensitivity and responsiveness ...



40. Interpersonal and Communication Skills - Communication



## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PC01									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					29.0	28.9	30.0	30.5
	$\leq$ Level 3.5				28.8	29.4	30.5	35.1	46.3
	$\leq$ Level 3.0	22.9	24.0	26.4	28.3	30.3	32.9	39.1	55.7
	$\leq$ Level 2.5	22.2	24.0	27.3	28.8	34.4	41.1	44.4	57.5
	$\leq$ Level 2.0	22.9	24.3	28.0	33.3	36.2	39.9	39.2	44.7
	$\leq$ Level 1.5	22.1	24.0	29.5	34.6	30.1	24.3	17.4	16.7
	$\leq$ Level 1.0	21.5	26.0	30.2	41.5	25.2	12.0		16.7
PC02									
	≤ Level 5.0								
	$\leq$ Level 4.5								29.7
	≤ Level 4.0					29.3	30.2	30.2	31.2
	$\leq$ Level 3.5					30.2	33.4	38.4	51.7
	≤ Level 3.0	19.2	21.6	23.9	26.3	30.7	33.5	38.9	58.0
	≤ Level 2.5	19.2	20.9	23.7	26.1	34.5	39.5	42.5	54.2
	≤ Level 2.0	19.5	22.8	26.6	29.4	38.2	50.3	46.2	59.1
	≤ Level 1.5	19.2	22.6	31.7	30.7	45.3	53.3	35.2	46.8
	≤ Level 1.0	20.0	21.1	33.6	37.2	65.5	61.0	43.5	
PC03									
	≤ Level 5.0								
	≤ Level 4.5								16.6
	≤ Level 4.0			16.4		16.5	16.3	17.0	17.8
	≤ Level 3.5	14.3		16.3		17.0	17.7	23.4	34.4
	≤ Level 3.0	14.4	15.6	16.6	16.5	18.2	20.8	31.8	45.7
	≤ Level 2.5	14.4	15.8	16.7	17.2	22.6	23.7	31.9	51.1
	≤ Level 2.0	14.4	15.7	17.0	17.8	20.9	28.8	29.9	33.6
	≤ Level 1.5	14.0	15.8	25.1	25.7	19.8	46.2	15.6	
	$\leq$ Level 1.0	16.1	22.3	22.2	24.7	35.2			
PC04									
F-504	CLOVEL 5.0								
	$\leq$ Level 5.0						00.7	00.0	
	$\leq$ Level 4.5						22.7	22.2	00.0
	$\leq$ Level 4.0				00.0	00.0	22.7	23.6	23.0
	$\leq$ Level 3.5			00 5	23.2	23.9	23.9	31.6	45.5
	≤ Level 3.0	105	10.0	20.7	23.6	23.9	23.3	30.5	45.4
	$\leq$ Level 2.5	16.5	18.8	21.5	23.5	29.3	29.5	39.2	63.5
	≤ Level 2.0	15.2	17.7	22.0	24.6	30.7	27.3	35.5	40.5
	≤ Level 1.5	16.2	18.7	25.4	34.9	47.4	49.8	47.2	48.2
	$\leq$ Level 1.0	20.6	21.0	21.2	22.0	33.5	32.2		

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PC05									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0							32.1	32.6
	$\leq$ Level 3.5	25.6	27.4	31.1		32.1	34.2	40.5	55.4
	$\leq$ Level 3.0	25.0	26.9	30.5	31.5	31.9	34.0	40.0	65.1
	$\leq$ Level 2.5	25.0	27.0	29.8	33.3	37.3	41.6	43.1	59.8
	$\leq$ Level 2.0	25.3	26.5	31.1	32.7	35.5	41.6	42.8	54.3
	$\leq$ Level 1.5	26.9	26.8	33.5	36.2	35.7	42.0	46.3	38.0
	$\leq$ Level 1.0	30.7	34.9	40.2	38.4	44.4	37.4		
PC06									
	≤ Level 5.0								
	$\leq$ Level 5.0 $\leq$ Level 4.5								34.8
	$\leq$ Level 4.0					34.0	34.9	35.2	36.3
	≤ Level 4.0		29.6	28.5	31.4	35.0	37.2	42.8	55.5
	≤ Level 3.0	28.3	28.9	28.5	31.9	36.1	39.1	45.3	64.4
	$\leq$ Level 3.0 $\leq$ Level 2.5	28.3	27.4	27.6	31.9	38.6	43.7	49.1	59.2
	$\leq$ Level 2.0	28.5	28.6	29.3	37.5		50.5		64.9
					43.4	42.1	66.7	60.8 43.4	
	$\leq$ Level 1.5 $\leq$ Level 1.0	28.3 27.8	28.8	35.5	43.4	52.7	54.4	43.4	38.5
	≤ Level 1.0	27.0	31.2	30.0	44.2	58.1	04.4		
PC07									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0			19.8				20.3	21.5
	≤ Level 3.5			19.8		19.8	19.8	25.3	34.1
	≤ Level 3.0	18.6		20.2	20.1	21.1	22.4	33.2	46.5
	$\leq$ Level 2.5	18.4	19.4	20.6	21.3	24.7	28.0	41.4	46.7
	≤ Level 2.0	18.3	19.4	21.4	24.1	28.2	30.4	44.8	45.1
	≤ Level 1.5	17.9	20.6	28.4	31.3	27.7	25.5	36.0	41.9
	≤ Level 1.0	18.7	23.2	30.9	21.8	53.5	18.7		
PC08	21 I = 7								
	≤ Level 5.0								
	≤ Level 4.5							18.4	
	≤ Level 4.0				18.5	18.0	18.3	19.3	19.3
	≤ Level 3.5	14.4	17.8	18.0	18.7	18.5	19.1	24.2	34.3
	≤ Level 3.0	14.4	17.6	18.3	18.7	18.6	19.4	28.9	46.3
	$\leq$ Level 2.5	14.6	17.7	18.6	19.6	22.4	23.5	28.1	31.1
	$\leq$ Level 2.0	15.0	17.9	20.8	22.6	25.4	27.4	33.5	25.9
	$\leq$ Level 1.5	14.8	18.5	23.8	24.1	20.3	27.7	12.5	
	$\leq$ Level 1.0	16.1	21.9	23.1	5.7	6.3	41.5		

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## Specialty: Orthopaedic Surgery

Subcompetency PC09	Threshold	Yr1,	Yr1,	V-O	V/O	V/O	V O			
PC09		Mid-Year	Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	
	$\leq$ Level 5.0									
	$\leq$ Level 4.5									
	$\leq$ Level 4.0							25.5	26.0	
	$\leq$ Level 3.5				24.9	24.8	25.5	30.3	40.0	
	$\leq$ Level 3.0	24.1			24.8	25.6	27.9	36.6	51.2	
	$\leq$ Level 2.5	24.1	24.7	25.2	26.0	31.5	35.9	48.3	47.6	
	$\leq$ Level 2.0	23.7	24.8	25.8	27.4	32.7	40.6	43.6	42.8	
	$\leq$ Level 1.5	24.1	26.3	29.2	30.6	40.9	51.9	41.1		
	$\leq$ Level 1.0	24.8	29.4	35.4	41.7	46.5	60.9	29.4		
PC10										
	≤Level 5.0									
	$\leq$ Level 4.5									
	$\leq$ Level 4.0							19.8	20.3	
	≤ Level 3.5		17.4	19.2	18.9	19.8	20.5	26.1	34.9	
	$\leq$ Level 3.0	16.4	17.1	18.8	18.8	20.3	21.4	29.8	45.6	
	$\leq$ Level 2.5	16.5	17.5	19.5	20.5	25.2	30.0	47.2	42.1	
	≤ Level 2.0	15.6	17.1	20.2	22.8	23.7	24.8	44.2	21.2	
	≤Level 1.5	16.0	19.3	27.8	34.8	37.9	68.5	44.0		
	≤Level 1.0	19.6	24.5	28.3	44.4	28.3				
PC11										
	≤Level 5.0									
	≤Level 4.5								17.6	
	≤Level 4.0			18.0		17.4	17.6	18.0	19.0	
	≤Level 3.5	15.9			17.9	17.6	18.1	22.4	30.6	
	≤ Level 3.0	16.0		18.1	17.7	18.5	21.9	32.3	41.4	
	$\leq$ Level 2.5	16.1	17.9	18.3	19.4	23.3	30.9	42.6	39.1	
	$\leq$ Level 2.0	16.0	18.1	19.0	21.7	23.9	29.4	33.8	21.4	
	$\leq$ Level 1.5	14.4	18.0	22.8	25.0	20.3	34.3	39.4	73.2	
	$\leq$ Level 1.0	18.3	24.4	28.1	29.9	30.4				
PC12										
1 412	$\leq$ Level 5.0									
	$\leq$ Level 3.0 $\leq$ Level 4.5									
	$\leq$ Level 4.3 $\leq$ Level 4.0							34.7	35.3	
	$\leq$ Level 4.0 $\leq$ Level 3.5				31.8	33.4	35.4	34.7	51.3	
	$\leq$ Level 3.0			31.4	31.8	34.0	35.8	43.2	51.8	
	$\leq$ Level 3.0 $\leq$ Level 2.5			30.9	33.0	36.9	42.2	43.2	57.2	
	$\leq$ Level 2.3 $\leq$ Level 2.0		28.5	30.9	34.8	34.3	42.2	39.6	41.8	
	$\leq$ Level 2.0 $\leq$ Level 1.5	25.6	28.5	36.0	42.5	39.1	41.0	39.0	41.6	
	$\leq$ Level 1.0	25.6	29.1	33.1	43.3	36.1	33.4	40.4	44.0	

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PC13									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					27.3	27.4	28.1	28.6
	$\leq$ Level 3.5				27.3	27.4	28.1	32.4	42.7
	$\leq$ Level 3.0	18.3	21.8	24.6	27.4	28.3	30.9	38.1	53.0
	$\leq$ Level 2.5	17.7	22.0	25.8	29.0	34.2	41.7	44.9	63.3
	$\leq$ Level 2.0	18.0	22.3	26.5	33.6	37.7	40.8	28.9	31.9
	$\leq$ Level 1.5	15.5	21.8	29.6	37.0	37.8	42.3		
	$\leq$ Level 1.0	15.6	26.4	30.8	33.1	45.9			
PC14									
	≤ Level 5.0								
	$\leq$ Level 4.5								28.8
	≤Level 4.0						28.9	29.2	30.0
	≤Level 3.5					29.8	31.1	34.7	46.6
	≤Level 3.0	24.6		27.3	28.5	30.6	31.3	36.6	51.5
	≤ Level 2.5	24.2	27.3	27.9	29.7	37.2	42.7	39.3	47.5
	≤ Level 2.0	24.1	26.9	27.5	30.4	40.5	48.4	49.0	46.3
	≤Level 1.5	24.2	26.9	30.4	37.9	47.5	44.5	58.6	65.1
	≤Level 1.0	19.2	25.0	23.5	36.3	39.7	52.4		
PC15									
	≤Level 5.0								
	≤Level 4.5							23.9	
	≤Level 4.0					23.7	24.1	24.2	25.1
	≤ Level 3.5			22.2	23.3	23.9	25.7	31.8	40.8
	≤ Level 3.0			22.0	23.0	25.4	29.3	37.8	51.6
	$\leq$ Level 2.5		23.4	22.6	24.3	31.6	38.9	43.2	52.2
	≤ Level 2.0	20.5	23.5	23.2	29.2	34.7	41.0	35.4	50.6
	≤Level 1.5	21.3	25.8	24.1	36.3	29.9	38.8		19.2
	$\leq$ Level 1.0	17.6	30.8	22.6	43.7	18.8	38.0		
PC16									
	≤Level 5.0								
	$\leq$ Level 3.0 $\leq$ Level 4.5							23.6	23.6
	$\leq$ Level 4.3 $\leq$ Level 4.0						23.7	23.0	23.6
	$\leq$ Level 4.0 $\leq$ Level 3.5					23.9	23.7	30.1	42.2
	$\leq$ Level 3.5 $\leq$ Level 3.0	19.9		00.9	00.0	23.9			
	$\leq$ Level 3.0 $\leq$ Level 2.5	19.9		22.8 23.1	22.2 22.5	24.2	26.3 35.3	32.6 33.5	43.2 38.9
	$\leq$ Level 2.5 $\leq$ Level 2.0		22.0					40.4	
		19.0	22.0	23.4	26.4	36.0	44.0		49.2
	$\leq$ Level 1.5	18.3	21.6	22.9	32.1	47.0	59.6	74.0	46.3
	$\leq$ Level 1.0	16.5	23.2	18.6	16.7	23.5			

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
MK01									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					26.3	26.6	27.6	28.7
	$\leq$ Level 3.5				26.6	27.1	28.7	32.8	44.9
	$\leq$ Level 3.0			24.6	25.9	27.5	29.3	36.3	52.1
	$\leq$ Level 2.5	21.6	23.5	25.3	27.9	31.7	36.9	43.0	45.1
	$\leq$ Level 2.0	21.8	23.6	26.4	31.6	33.8	41.6	36.4	43.0
	$\leq$ Level 1.5	22.3	25.0	28.4	33.2	41.8	25.7	21.8	12.7
	$\leq$ Level 1.0	21.5	25.6	29.4	41.2	41.2	12.9	13.8	
MK02									
	≤Level 5.0								
	$\leq$ Level 4.5								30.0
	≤Level 4.0					30.7	30.4	30.5	31.5
	≤Level 3.5			26.7	28.7	32.5		40.0	50.4
	≤Level 3.0	25.6	26.6	26.2	28.4	32.5	33.8	41.5	57.2
	≤ Level 2.5	25.6	26.3	26.8	29.4	35.7	38.2	41.4	47.4
	≤Level 2.0	25.8	27.4	29.1	33.7	42.3	40.9	37.4	52.0
	≤Level 1.5	25.1	28.8	36.9	42.0	42.7	25.9	19.3	26.0
	≤Level 1.0	27.1	29.5	30.7	45.2	36.4	26.5		
MK03									
	≤Level 5.0								
	≤Level 4.5								17.6
	≤Level 4.0			18.2			17.8	17.8	18.8
	≤Level 3.5	17.7	18.0	18.4	18.0	18.1	18.9	24.6	36.0
	≤Level 3.0	17.7	18.0	18.5	17.9	20.0	22.5	34.7	55.5
	≤ Level 2.5	17.6	18.4	18.8	20.1	23.0	29.3	52.4	60.7
	≤ Level 2.0	18.0	18.3	19.9	21.9	23.6	36.9	36.2	45.0
	≤Level 1.5	16.6	20.4	30.0	30.9	31.7	47.9	24.4	
	$\leq$ Level 1.0	20.0	25.2	29.9	43.2	62.2			
MK04									
	≤Level 5.0								
	$\leq$ Level 4.5						23.9	23.2	
	$\leq$ Level 4.0						23.8	24.3	23.8
	$\leq$ Level 3.5				24.6	24.5	25.2	32.1	42.2
	$\leq$ Level 3.0			23.6	25.5	24.4	26.2	34.3	47.8
	$\leq$ Level 3.0 $\leq$ Level 2.5			24.8	28.1	28.7	31.8	43.1	53.4
	$\leq$ Level 2.0	20.6	19.0	24.3	29.2	28.5	30.1	39.4	46.0
	$\leq$ Level 2.0 $\leq$ Level 1.5	20.0	20.8	31.3	35.0	45.0	43.3	49.8	40.0
	$\leq$ Level 1.0	23.0	20.8	29.0	34.4	35.6	24.3	40.0	40.0

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,	Yr4,	Yr4,
MKOF		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
MK05									
	$\leq$ Level 5.0 $\leq$ Level 4.5							30.5	30.5
	$\leq$ Level 4.0					29.7		30.6	31.8
	$\leq$ Level 3.5					30.9	33.0	40.4	56.1
	≤ Level 3.0	23.8	23.7	28.4	30.2	31.7	34.1	42.1	59.3
	≤ Level 2.5	24.0	24.2	28.1	30.6	35.2	40.5	47.7	57.1
	$\leq$ Level 2.0	24.1	24.1	28.3	32.4	34.2	37.9	41.8	64.8
	≤Level 1.5	26.7	25.7	30.9	37.8	33.3	35.5	55.4	
	≤Level 1.0	29.6	33.3	36.9	40.1	45.9			
MK06									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								32.9
	$\leq$ Level 4.0			28.3		32.8	33.8	33.8	34.6
	$\leq$ Level 3.5	29.9	29.7	28.3	30.6	33.7	36.6	43.0	54.5
	$\leq$ Level 3.0	30.5	29.2	28.3	31.2	33.6	36.8	43.7	61.2
	$\leq$ Level 2.5	30.5	28.7	28.9	31.3	34.9	39.9	50.4	61.1
	$\leq$ Level 2.0	30.7	29.5	30.4	37.1	40.9	44.7	54.8	71.0
	$\leq$ Level 1.5	32.1	30.7	34.2	35.4	40.3	49.7	49.1	60.1
	$\leq$ Level 1.0	30.3	33.8	41.3	42.8	56.2	53.6	52.8	
MK07									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0			21.5			21.1	21.7	23.0
	$\leq$ Level 3.5	19.6	20.7	21.6	21.5	21.3	21.6	27.4	35.9
	$\leq$ Level 3.0	19.6	20.8	21.9	21.4	22.9	25.5	38.8	48.7
	$\leq$ Level 2.5	19.4	21.1	22.0	22.1	27.0	29.7	48.0	28.8
	$\leq$ Level 2.0	19.7	21.2	23.3	24.6	30.8	37.9	44.8	19.1
	$\leq$ Level 1.5	18.7	22.7	31.1	33.1	32.0	29.1	24.6	
	$\leq$ Level 1.0	20.4	26.9	36.4	39.8	51.0			
MK08									
	≤ Level 5.0								
	≤ Level 4.5							19.5	
	≤ Level 4.0	10.0		18.8	19.6	19.2	19.7	20.1	20.4
	≤ Level 3.5	18.6	19.4	18.9	19.7	19.7	20.6	26.8	36.5
	≤ Level 3.0	18.7	19.1	19.1	20.0	20.0	21.7	34.2	50.3
	≤ Level 2.5	18.9	19.5	20.6	21.7	22.3	25.3	36.1	25.5
	≤ Level 2.0	19.0	19.7	22.6	23.3	24.4	27.8	29.2	16.8
	≤ Level 1.5	18.3	20.6	29.1	29.6	25.3	27.1	16.8	
	$\leq$ Level 1.0	20.5	27.8	19.8	16.7	9.3			

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
MK09									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0							22.5	23.1
	$\leq$ Level 3.5			21.6	21.3	22.0	23.1	28.0	39.5
	$\leq$ Level 3.0	22.6	22.1	22.0	21.4	23.6	25.5	36.2	53.0
	$\leq$ Level 2.5	22.3	22.1	22.8	22.3	28.6	32.9	47.5	42.9
	$\leq$ Level 2.0	22.7	22.3	23.6	25.4	32.9	32.4	37.4	35.7
	$\leq$ Level 1.5	22.4	22.9	31.4	28.9	36.5	25.4	35.1	38.8
	$\leq$ Level 1.0	22.9	27.6	33.4	41.7	48.7	22.9	26.0	
MK10									
	≤ Level 5.0								
	$\leq$ Level 4.5								21.6
	$\leq$ Level 4.0			20.9				21.7	23.0
	$\leq$ Level 3.5	21.3	20.6	21.0		22.5	22.7	29.5	36.7
	$\leq$ Level 3.0	21.3	20.3	20.9	21.1	23.3	26.0	36.3	44.7
	$\leq$ Level 2.5	20.7	19.8	20.5	22.7	27.3	31.1	45.4	47.3
	$\leq$ Level 2.0	19.8	19.7	22.0	23.9	25.4	26.5	36.4	36.1
	$\leq$ Level 1.5	19.9	22.4	30.6	35.3	27.7	60.5	58.0	
	$\leq$ Level 1.0	22.2	21.3	24.2	32.9	31.1			
MK11									
	≤Level 5.0								
	≤Level 4.5						17.7		
	≤Level 4.0						17.8	18.1	19.3
	≤Level 3.5	17.4		18.4	17.4	18.0	18.8	24.5	33.6
	≤Level 3.0	17.4		18.3	17.6	19.0	21.8	37.3	50.6
	≤ Level 2.5	17.6		18.8	19.5	24.3	27.7	49.0	42.7
	≤ Level 2.0	17.1	18.0	19.5	20.5	20.6	26.0	35.4	32.7
	≤ Level 1.5	16.0	19.2	26.2	28.4	23.5	22.2	33.9	
	$\leq$ Level 1.0	19.3	21.3	27.2	28.5	37.8			
MK12									
	≤Level 5.0								
	$\leq$ Level 4.5					31.8			
	$\leq$ Level 4.0					31.8	32.1		32.2
	$\leq$ Level 3.5				32.3	32.7	33.7	38.9	51.1
	$\leq$ Level 3.0			30.7	32.4	33.7	36.3	45.2	54.3
	$\leq$ Level 2.5			30.5	33.4	35.0	39.4	49.7	62.7
	$\leq$ Level 2.0		31.2	31.1	35.3	34.8	41.8	42.0	58.4
	$\leq$ Level 1.5	29.0	30.9	35.7	44.1	36.6	46.7	43.6	40.0
	$\leq$ Level 1.0	30.0	33.3	39.2	56.5	47.5	68.5	62.3	62.7

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	V#1	Yr1,	Yr2,	Yr2,	Vr2	Yr3,	Yr4,	Yr4,
Subcompetency	Threshold	Yr1, Mid-Year	Year-End	Mid-Year	Year-End	Yr3, Mid-Year	Year-End	Mid-Year	Year-End
MK13									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					22.8	22.8	23.5	25.0
	$\leq$ Level 3.5				23.0	23.5	24.6	30.6	41.9
	$\leq$ Level 3.0			21.1	22.8	24.1	26.1	35.0	49.8
	$\leq$ Level 2.5	17.4	20.4	20.8	23.6	30.5	37.3	46.5	53.9
	$\leq$ Level 2.0	17.1	20.4	22.5	27.7	34.8	36.4	27.2	29.9
	$\leq$ Level 1.5	18.6	23.0	31.6	35.2	33.6	13.8	20.0	
	$\leq$ Level 1.0	21.1	28.2	33.0	38.3	52.5			
MK14									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0						25.9	26.0	26.7
	$\leq$ Level 3.5				24.7	26.0	27.4	32.1	43.7
	$\leq$ Level 3.0			24.2	24.3	27.4	29.1	37.2	57.7
	$\leq$ Level 2.5	24.8	25.7	25.3	25.0	31.3	37.1	37.4	50.5
	$\leq$ Level 2.0	24.5	25.8	26.6	29.0	35.0	41.9	36.2	49.4
	$\leq$ Level 1.5	24.8	26.6	29.5	33.7	40.1	41.3	51.2	62.6
	$\leq$ Level 1.0	22.7	26.2	30.9	42.9	53.6	74.4	72.4	
MK15									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5							22.5	
	$\leq$ Level 4.0					22.3	22.7	22.9	23.9
	$\leq$ Level 3.5			20.8	21.7	22.7	24.4	31.0	38.5
	$\leq$ Level 3.0			20.9	21.3	22.6	24.2	33.3	46.9
	$\leq$ Level 2.5	18.9	21.6	21.2	22.7	27.7	33.3	42.9	46.4
	$\leq$ Level 2.0	19.0	21.5	21.2	25.6	32.0	35.5	31.1	40.5
	$\leq$ Level 1.5	20.3	25.7	27.9	35.0	35.7	35.1	8.7	22.2
	$\leq$ Level 1.0	22.2	33.3	27.4	35.6	27.3	42.1	26.6	
MK16									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0						23.1	23.5	23.7
	$\leq$ Level 3.5				21.4	23.0	24.6	31.4	40.9
	$\leq$ Level 3.0	20.3		21.7	21.0	23.5	24.9	34.6	44.6
	$\leq$ Level 2.5	19.6	21.9	21.1	21.1	23.6	33.0	38.5	34.2
	$\leq$ Level 2.0	19.6	22.2	22.7	25.9	28.3	37.8	38.2	36.7
	$\leq$ Level 1.5	19.9	23.5	25.0	30.8	36.4	31.9	40.5	
	≤Level 1.0	20.4	25.9	17.1	24.3	34.9			

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	
SBP01										
	$\leq$ Level 5.0									
	$\leq$ Level 4.5									
	$\leq$ Level 4.0									
	$\leq$ Level 3.5	11.4	11.3	11.3	11.2	11.7	12.9	19.5	28.7	
	$\leq$ Level 3.0	11.3	11.2	11.5	11.5	13.3	17.5	35.2	50.1	
	$\leq$ Level 2.5	10.8	11.4	12.7	15.2	25.1	32.7	32.1	39.2	
	$\leq$ Level 2.0	11.0	12.2	15.3	21.1	40.6	59.3	34.0		
	$\leq$ Level 1.5	12.5	15.5	22.3	37.7	44.6	55.2			
	$\leq$ Level 1.0	13.8	19.0	19.0	20.8	65.1				
SBP02										
	≤ Level 5.0									
	≤Level 4.5						10.9			
	≤Level 4.0						11.0	11.9		
	≤ Level 3.5		10.8	10.8	11.0	12.1	12.5	19.1	29.3	
	≤ Level 3.0	11.0	10.5	11.1	11.1	14.4	17.8	30.4	58.0	
	≤ Level 2.5	10.8	10.8	12.1	15.0	24.0	31.5	41.0	53.6	
	≤Level 2.0	10.9	12.2	14.5	22.1	33.8	52.2	36.1	67.2	
	≤Level 1.5	11.3	12.9	22.2	26.8	53.2	64.6		38.5	
	≤Level 1.0	12.8	21.8	18.5	28.6	64.6				
SBP03										
	$\leq$ Level 5.0									
	$\leq$ Level 4.5									
	$\leq$ Level 4.0							11.9		
	$\leq$ Level 3.5		10.8	11.1	11.2	12.1	12.9	20.5	28.8	
	$\leq$ Level 3.0	11.1	10.6	11.1	11.7	13.4	17.1	29.0	48.8	
	$\leq$ Level 2.5	10.9	10.8	12.7	13.9	26.6	31.7	28.6	57.1	
	$\leq$ Level 2.0	11.6	11.7	14.5	20.4	35.9	55.9	52.7		
	$\leq$ Level 1.5	10.7	13.7	27.1	35.1	51.8	55.3			
	$\leq$ Level 1.0	11.1	17.7	37.9	55.3	64.7				
PBLI01										
-	≤ Level 5.0									
	$\leq$ Level 4.5									
	$\leq$ Level 4.0					11.5				
	$\leq$ Level 3.5		11.5		11.9	13.5	13.7	22.0	34.8	
	$\leq$ Level 3.0	11.4	11.4	12.0	14.8	15.6	21.0	41.3	58.4	
	$\leq$ Level 2.5	11.1	11.7	12.3	16.2	28.4	39.6	49.7	61.4	
	$\leq$ Level 2.0	11.2	12.8	15.7	25.1	40.3	58.0	47.2		
	$\leq$ Level 1.5	13.3	15.3	24.8	42.3	42.6				
	$\leq$ Level 1.0	12.4	17.0	33.1	67.3					

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PBLI02									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5				11.3	11.9	12.5	19.4	30.3
	$\leq$ Level 3.0	10.9	10.9	11.3	12.1	14.5	18.3	30.9	52.0
	$\leq$ Level 2.5	10.5	11.1	11.8	14.7	24.5	31.8	35.4	54.3
	$\leq$ Level 2.0	10.9	12.3	15.1	21.3	31.7	46.2	33.0	
	$\leq$ Level 1.5	11.6	14.0	23.1	27.0	35.1			
	≤ Level 1.0	12.0	15.2	27.6	49.3				
PROF01									
	≤Level 5.0								
	$\leq$ Level 4.5								
	≤ Level 4.0	8.2							
	≤ Level 3.5	8.2	8.2			10.4	10.9	19.4	28.6
	≤Level 3.0	8.4	8.5		10.2	12.3	16.0	30.1	65.7
	≤ Level 2.5	8.6	9.6	11.5	14.6	22.7	28.9	35.1	
	≤ Level 2.0	9.5	10.9	14.1	17.3	28.5	36.4	18.5	
	≤Level 1.5	10.1	13.3	22.2	20.0	38.9			
	$\leq$ Level 1.0	12.0	18.6	21.0	10.2				
PROF02									
	≤ Level 5.0								
	≤ Level 4.5								
	≤Level 4.0	9.6	<b>.</b>		9.6	9.7	9.8	10.7	
	≤ Level 3.5	9.7	9.4	9.9	10.3	11.3	12.4	19.8	30.9
	≤ Level 3.0	9.7	9.5	10.5	11.2	14.2	19.4	38.2	65.1
	≤ Level 2.5	9.9	10.8	12.9	16.0	27.2	42.6	57.3	
	≤ Level 2.0	10.6	11.9	16.3	21.0	39.3	48.0	68.3	
	≤ Level 1.5	12.9	17.3	30.1	18.2	59.2	75.3		
	≤ Level 1.0	14.5	22.3	28.4			63.3		
ICS01									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0							12.0	12.6
	$\leq$ Level 3.5	10.8	10.6	10.8	11.4	12.7	13.6	22.3	33.6
	$\leq$ Level 3.0	11.1	10.7	11.8	12.9	15.7	19.7	35.7	54.7
	$\leq$ Level 2.5	11.2	11.4	13.9	17.0	27.1	31.7	34.8	70.5
	$\leq$ Level 2.0	11.5	12.3	17.2	24.7	37.5	52.6	40.1	
	$\leq$ Level 1.5	12.9	16.5	26.8	28.4	47.0	67.9		
	$\leq$ Level 1.0	14.4	21.4	25.3	20.0	59.0	59.0		

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## Specialty: Orthopaedic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
ICS02									
10302	≤Level 5.0								
	$\leq$ Level 4.5		10.1						
	$\leq$ Level 4.0		10.1			10.4		11.6	
	$\leq$ Level 3.5	10.1	9.8	10.1	10.7	11.8	13.0	21.0	30.8
	$\leq$ Level 3.0	10.4	10.0	11.0	12.0	14.3	19.8	36.5	55.7
	$\leq$ Level 2.5	10.4	10.4	12.8	15.1	26.2	36.3	41.2	72.8
	$\leq$ Level 2.0	11.2	11.6	15.7	22.0	36.4	45.0	40.6	
	$\leq$ Level 1.5	12.4	15.1	24.2	18.1	53.5	58.3		
	$\leq$ Level 1.0	12.7	18.7	19.9	11.8	58.3	58.3		

### Subspecialty: Adult Reconstructive Orthopaedics

Resident Year	1	Total Residents*		
# of Residents	46	46		

\*Note: There are 3 residents with an incomplete milestone evaluation that are excluded from the box plots below.

#### 1. Patient Care - Knee Arthritis-Patient Care





### 3. Patient Care - Hip Arthritis-Patient Care



#### 5. Patient Care - Shoulder Arthritis - Patient Care



#### Note: Please reference milestone narrative for full text.

#### 4. Patient Care - Hip Revision—Patient Care

2. Patient Care - Knee Revisions-Patient Care



#### 6. Patient Care - Shoulder Revisions - Patient Care



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### Subspecialty: Adult Reconstructive Orthopaedics

7. Patient Care - Elbow Arthritis - Patient Care



#### 9. Medical Knowledge - Knee Revision—Medical Knowledge









#### 10. Medical Knowledge - Hip Arthritis-Medical Knowledge



12. Medical Knowledge - Shoulder Arthritis - Medical Knowledge



Note: Please reference milestone narrative for full text.

#### 8. Medical Knowledge - Knee Arthritis-Medical Knowledge

### Subspecialty: Adult Reconstructive Orthopaedics

13. Medical Knowledge - Shoulder Revision - Medical Knowledge



## 15. Systems-Based Practice - Systems thinking, including cost-effective practice—Systems-Based Practice



17. Systems-Based Practice - Uses technology to accomplish safe health care delivery—Systems-Based Practice



Note: Please reference milestone narrative for full text.



#### 16. Systems-Based Practice - Works in interprofessional teams to enhance patient safety and quality care—Systems-Based Practice



18. Practice-Based Learning and Improvement - Self-directed Learning–Practice-Based Learning and Improvement ...



### 14. Medical Knowledge - Elbow Arthritis - Medical Knowledge

### Subspecialty: Adult Reconstructive Orthopaedics

19. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific ...



21. Professionalism - Accountability to patients, society, and the profession; personal responsibility to ...



23. Interpersonal and Communication Skills - Teamwork (e.g., physician, nursing and allied health care providers,  $\ldots$ 



20. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness ...



22. Interpersonal and Communication Skills -Communication—Interpersonal and Communication Skills



### **Subspecialty: Foot and Ankle Orthopaedics**

Resident Year	1	Total Residents
# of Residents	16	16

### 1. Patient Care - Achilles Disorders-Patient Care



## 0 Level 5 0 Level 4 0 0 Level 3 Level 2 0 Level ' **Resident Year**

#### 3. Patient Care - Ankle Arthritis-Patient Care



#### 5. Patient Care - Calcaneus Fractures-Patient Care



Note: Please reference milestone narrative for full text.





## 4. Medical Knowledge - Ankle Arthritis-Medical Knowledge



### 2. Medical Knowledge - Achilles Disorder - Medical Knowledge

### Subspecialty: Foot and Ankle Orthopaedics

### 7. Patient Care - Diabetic Foot—Patient Care



# Level 5 0 Level 4 0 Level 3 0 Level 2 0 Level 1 1 I Resident Year

### 9. Patient Care - Hallux Valgus—Patient Care



## 11. Patient Care - Ankle Arthroscopy: Osteochondritis Dissecans (OCD) Talus—Patient Care



Note: Please reference milestone narrative for full text.

10. Medical Knowledge - Hallux Valgus—Medical Knowledge







8. Medical Knowledge - Diabetic Foot—Medical Knowledge

### Subspecialty: Foot and Ankle Orthopaedics

13. Patient Care - Pes Cavus—Patient Care



#### 15. Patient Care - Pes Planovalgus-Patient Care



## 17. Systems-Based Practice - Interprofessional Teams—Systems-Based Practice







16. Medical Knowledge - Pes Planovalgus-Medical Knowledge







### Subspecialty: Foot and Ankle Orthopaedics

19. Systems-Based Practice - Systems thinking, including cost-effective practice—Systems-Based Practice



### 21. Professionalism - Accountability and Responsibility-Professionalism



23. Interpersonal and Communication Skills -Communication—Interpersonal and Communication Skills



20. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence to improve patient ...











### **Subspecialty: Hand Surgery**

Resident Year	1	Total Residents	
# of Residents	156	156	

1. Patient Care - Acquired Conditions (Tumor, Dupuytren's, tenosynovitis, vascular, contractures) — Patient Care



2. Medical Knowledge - Acquired Conditions (Tumor, Dupuytren's, tenosynovitis, vascular, contractures) — Medical Knowledge



#### 3. Patient Care - Arthritis - Patient Care







4. Medical Knowledge - Arthritis — Medical Knowledge



#### 6. Medical Knowledge - Congenital — Medical Knowledge



Note: Please reference milestone narrative for full text. 352 • MILESTONES NATIONAL REPORT 2020

### **Subspecialty: Hand Surgery**





#### 9. Patient Care - Trauma: Bone, Joint - Patient Care



11. Patient Care - Soft Tissue Trauma, Infections-Patient Care



Note: Please reference milestone narrative for full text.



### 8. Medical Knowledge - Nerve — Medical Knowledge

10. Medical Knowledge - Trauma: Bone, Joint - Medical Knowledge







### **Subspecialty: Hand Surgery**

13. Patient Care - Tendon - Patient Care



15. Systems-Based Practice - Patient Safety, Resource Allocation, Practice Management — Systems-Based Practice







Note: Please reference milestone narrative for full text.



16. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and  $\dots$ 







## 14. Medical Knowledge - Tendon — Medical Knowledge

### Subspecialty: Musculoskeletal Oncology

Resident Year	1	Total Residents
# of Residents	18	18

### 1. Patient Care - Metastatic Bone Lesion-Patient Care



### 3. Patient Care - Malignant Bone Lesion (Primary)-Patient Care



#### 5. Patient Care - Malignant Soft Tissue Tumor-Patient Care



### 2. Medical Knowledge - Metastatic Bone Lesion-Medical Knowledge



4. Medical Knowledge - Malignant Bone (Primary)-Medical Knowledge







### Subspecialty: Musculoskeletal Oncology

7. Patient Care - Benign Bone Tumor-Patient Care



### 9. Patient Care - Benign Soft Tissue Tumor-Patient Care



11. Systems-Based Practice - Systems thinking, including cost-effective practice—Systems-based Practice



Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 Level 2 Level 1 I Resident Year

10. Medical Knowledge - Benign Soft Tissue Tumor-Medical Knowledge



12. Systems-Based Practice - Fellow will work in interprofessional teams to enhance patient safety and quality  $\ldots$ 



8. Medical Knowledge - Benign Bone Tumor-Medical Knowledge

### Subspecialty: Musculoskeletal Oncology

13. Systems-Based Practice - Uses technology to accomplish safe health care delivery—Systems-based Practice



15. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific  $\ldots$ 



17. Professionalism - Accountability to patients, society, and the profession; personal responsibility to  $\ldots$ 



14. Practice-Based Learning and Improvement - Self-Directed Learning—Practice-based Learning and Improvement ...



16. Professionalism - Compassion, integrity, and respect for others as well as sensitivity and responsiveness ...



18. Interpersonal and Communication Skills -Communication—Interpersonal and Communication Skills



### Subspecialty: Musculoskeletal Oncology

19. Interpersonal and Communication Skills - Teamwork—Interpersonal and Communication Skills



### Subspecialty: Orthopaedic Sports Medicine

Resident Year	1	Total Residents
# of Residents	216	216





#### 3. Patient Care - Team Coverage and Athletic Care: coverage of sporting events, preseason physical examinations, ...







Note: Please reference milestone narrative for full text.

Level 4 Level 3 Level 2 Level Resident Year

#### 2. Patient Care - Operative Skills-Patient Care

Level 5









### Subspecialty: Orthopaedic Sports Medicine

7. Systems-Based Practice - Working with interprofessional teams (consultants, certified athletic trainer [ATCs], physical ...



9. Practice-Based Learning and Improvement - Self-directed learning—Practice-based Learning and Improvement



11. Professionalism - Compassion, integrity, respect for others, and sensitivity to the diversity of the athlete—Professionalism



Note: Please reference milestone narrative for full text.



10. Practice-Based Learning and Improvement - Locate, appraise, and contribute to evidence to improve patient  $\ldots$ 



12. Professionalism - Accountability to patients, society, and the profession; personal responsibility to ...



#### 8. Systems-Based Practice - Systems thinking—Systems-based Practice
### Subspecialty: Orthopaedic Sports Medicine

13. Interpersonal and Communication Skills -Communication—Interpersonal and Communication Skills





14. Interpersonal and Communication Skills - Teamwork—Interpersonal and Communication Skills

### Subspecialty: Orthopaedic Surgery of the Spine

Resident Year	1	Total Residents
# of Residents	35	35

#### 1. Patient Care - Degenerative Lumbar-Patient Care



#### 2. Patient Care - Degenerative Cervical-Patient Care



#### 3. Patient Care - Traumatic-Patient Care



#### 5. Medical Knowledge - Degenerative Lumbar-Medical Knowledge



Note: Please reference milestone narrative for full text.



#### 6. Medical Knowledge - Degenerative Cervical-Medical Knowledge

**Resident Year** 



#### 4. Patient Care - Deformity-Patient Care

Level 5

Level 4

Level 3

Level 2

Level 1

### Subspecialty: Orthopaedic Surgery of the Spine

7. Medical Knowledge - Traumatic-Medical Knowledge



#### 9. Systems-Based Practice - Systems-based Practice



# 11. Practice-Based Learning and Improvement - Evidence-based Medicine–Practice-based Learning and Improvement



Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 Level 2 Level 1 i Resident Year

# 10. Practice-Based Learning and Improvement - Self-directed Learning–Practice-based Learning and Improvement







#### 8. Medical Knowledge - Deformity-Medical Knowledge

## Subspecialty: Orthopaedic Surgery of the Spine

13. Professionalism - Accountability and professionalism—Professionalism



15. Interpersonal and Communication Skills - Interpersonal and Communication Skills



14. Interpersonal and Communication Skills - Patient Centered Communications–Interpersonal and Communication Skills



### Subspecialty: Orthopaedic Trauma

Resident Year	1	Total Residents
# of Residents	20	20

#### 1. Patient Care - Care of multiply injured patient—Patient Care



#### 3. Patient Care - Complex Diaphyseal Fracture—Patient Care



#### 5. Patient Care - Complex Periarticular Fractures—Patient Care



Note: Please reference milestone narrative for full text.



# 2. Medical Knowledge - Care of multiply injured patient—Medical Knowledge









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#### Subspecialty: Orthopaedic Trauma

7. Patient Care - Nonunion/Malunion-Patient Care



9. Patient Care - Pelvic and Acetabular fractures-Patient Care



11. Systems-Based Practice - Systems thinking, including cost-effective practice—Systems-Based Practice



Note: Please reference milestone narrative for full text.



10. Medical Knowledge - Pelvic and Acetabular fractures—Medical Knowledge



12. Systems-Based Practice - Fellow will work in interprofessional teams to enhance patient safety, quality ...



#### 8. Medical Knowledge - Nonunion/Malunion-Medical Knowledge

#### Subspecialty: Orthopaedic Trauma

13. Practice-Based Learning and Improvement - Self-directed Learning—Practice-Based Learning and Improvement ...



15. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness  $\ldots$ 



17. Interpersonal and Communication Skills -Communication—Interpersonal and Communication Skills



14. Practice-Based Learning and Improvement - Locate, appraise, and assimilate evidence from scientific ...







18. Interpersonal and Communication Skills - Teamwork (e.g., physician, nursing and allied health care providers,  $\ldots$ 



### **Subspecialty: Pediatric Orthopaedics**

Resident Year	1	Total Residents
# of Residents	38	38

1. Patient Care - Pediatric Orthopaedics Idiopathic Scoliosis—Patient Care



# 3. Patient Care - Pediatric Orthopaedics developmental dysplasia of hip [DDH] prior to walking age—Patient Care







2. Medical Knowledge - Pediatric Orthopaedics Idiopathic Scoliosis—Medical Knowledge











### Subspecialty: Pediatric Orthopaedics

7. Patient Care - Pediatric Orthopaedics Clubfoot-Patient Care



#### 9. Patient Care - Pediatric Orthopaedics Lower Extremity Deformity—Patient Care



11. Patient Care - Pediatric Orthopaedics Cerebral Palsy [CP]—Patient Care



8. Medical Knowledge - Pediatric Orthopaedics Clubfoot—Medical Knowledge



10. Medical Knowledge - Pediatric Orthopaedics Lower Extremity Deformity—Medical Knowledge







#### **Subspecialty: Pediatric Orthopaedics**

13. Systems-Based Practice - Systems thinking, including cost-effective practice—Systems-Based Practice



# 15. Systems-Based Practice - Uses technology to accomplish safe health care delivery–Systems-Based Practice



17. Practice-Based Learning and Improvement - Locates, appraises, and assimilates evidence from scientific  $\ldots$ 



14. Systems-Based Practice - Resident will work in interprofessional teams to enhance patient safety and ...







18. Professionalism - Demonstrates compassion, integrity, and respect for others, as well as sensitivity and responsiveness  $\ldots$ 



#### **Subspecialty: Pediatric Orthopaedics**

19. Professionalism - Demonstrates accountability to patients, society, and the profession; demonstrates ...





20. Interpersonal and Communication Skills -

21. Interpersonal and Communication Skills - Teamwork (e.g., physician, nursing and allied health care providers,  $\ldots$ 



### Specialty: Osteopathic Neuromusculoskeletal Medicine

Resident Year	1	2	3	Total Residents
# of Residents	5	17	26	48

1. Patient Care - Patient Care 1: Osteopathic Manipulative Techniques (OMT) (Direct and Indirect)



#### 3. Patient Care - Patient Care 3: Patient Management



5. Medical Knowledge - Medical Knowledge 1: Possesses Clinical Knowledge (Anatomy, Physiology, Pharmacology, ...



Note: Please reference milestone narrative for full text.

# 2. Patient Care - Patient Care 2: Trigger Point Injection, Joint Aspiration, and Injection









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#### Specialty: Osteopathic Neuromusculoskeletal Medicine

7. Systems-Based Practice - Systems-Based Practice 1: Patient Safety and Advocacy



9. Practice-Based Learning and Improvement - Practice-based Learning and Improvement 1: Learning and Feedback







Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - Systems-Based Practice 2: Practice Management and Economics



10. Practice-Based Learning and Improvement - Practice-based Learning and Improvement 2: Literature Review and Research







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#### Specialty: Osteopathic Neuromusculoskeletal Medicine

13. Professionalism - Professionalism 3: Maintains emotional, physical, and mental health; and pursues continual ...



15. Interpersonal and Communication Skills - Interpersonal and Communication Skills 2: Interprofessional Communications



14. Interpersonal and Communication Skills - Interpersonal and Communication Skills 1: Develops Meaningful, ...



### Specialty: Otolaryngology - Head and Neck Surgery

Resident Year	1	2	3	4	5	Total Residents
# of Residents	351	345	339	331	334	1,700



1. Patient Care - Salivary Disease—Patient Care

3. Patient Care - Sleep Disordered Breathing (SDB)-Patient Care



5. Patient Care - Rhinosinusitis—Patient Care



Note: Please reference milestone narrative for full text.



2. Patient Care - Aerodigestive Tract Lesions (ADT)-Patient Care

4. Patient Care - Facial Trauma-Patient Care



6. Patient Care - Nasal Deformity—Patient Care



### Specialty: Otolaryngology - Head and Neck Surgery

#### 7. Patient Care - Chronic Ear-Patient Care



#### 9. Medical Knowledge - Upper Aerodigestive Tract (UADT) Malignancy—Medical Knowledge



#### 11. Medical Knowledge - Dysphagia-Dysphonia-Medical Knowledge



### 8. Patient Care - Pediatric Otitis Media-Patient Care



10. Medical Knowledge - Hearing Loss-Medical Knowledge



12. Medical Knowledge - Inhalant Allergy-Medical Knowledge



### Specialty: Otolaryngology - Head and Neck Surgery

13. Systems-Based Practice - Patient Safety—Systems-Based Practice



15. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and  $\ldots$ 



17. Interpersonal and Communication Skills - Interpersonal Communication Skills





16. Professionalism - Professionalism



14. Systems-Based Practice - Resource Utilization—Systems-Based Practice

# PPV Table 73a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

## Specialty: Otolaryngology - Head and Neck Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PC01									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	≤ Level 3.5							11.6	
	≤ Level 3.0						11.0	23.2	51.4
	$\leq$ Level 2.5			7.8	8.3	10.5	15.5	46.0	
	$\leq$ Level 2.0			9.1	9.5	17.7	58.8		
	≤ Level 1.5		8.4	7.7	9.6	25.9			
	$\leq$ Level 1.0		8.6	4.8					
PC03									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5							10.7	
	≤ Level 3.0						10.6	21.2	25.2
	≤ Level 2.5					11.0	13.4	23.5	20.2
	≤ Level 2.0			9.6	9.2	11.0	16.8	20.0	
	$\leq$ Level 1.5			9.7	12.7		10.0		
	$\leq$ Level 1.0	7.5	8.8	15.6	54.4				
			0.0		• …				
PC04									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5								33.2
	≤ Level 3.0			13.9	14.2	17.0	17.6	26.0	34.8
	≤ Level 2.5			15.3	15.9	26.2	24.7	41.1	39.2
	≤ Level 2.0		13.5	16.1	21.4	28.8	36.5		
	≤ Level 1.5	14.4	14.6	20.8	12.1				
	$\leq$ Level 1.0	14.2	14.6	29.7					
PC05									
F UUJ	<1 ava 5 0								
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								10.1
	$\leq$ Level 3.5						0.5	00.0	19.1
	$\leq$ Level 3.0					10.0	9.5	22.6	33.0
	$\leq$ Level 2.5			0.0	0.0	12.2	16.7	65.3	
	$\leq$ Level 2.0			8.3	9.9	29.7			
	≤ Level 1.5	0.7	6.8	12.4	16.6	56.4			
	$\leq$ Level 1.0	6.7	7.4	20.1	25.9				

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# PPV Table 74a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

## Specialty: Otolaryngology - Head and Neck Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PC06									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0							16.0	16.0
	≤ Level 3.5							18.7	26.2
	≤ Level 3.0					17.4	18.4	27.0	50.6
	≤ Level 2.5	15.6	15.5	16.4	17.5	20.6	37.3	61.1	
	$\leq$ Level 2.0	15.5	15.9	18.9	21.4	24.8	36.2	52.8	
	$\leq$ Level 1.5	14.7	14.3	17.9	32.6	34.9	46.1		
	≤ Level 1.0	13.9	12.5	31.4	24.5	18.3	62.4		
PC07									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5							22.9	31.2
	$\leq$ Level 3.0			17.3	17.1	18.9	21.2	32.4	56.1
	$\leq$ Level 2.5			17.2	17.4	24.4	36.7	67.8	
	$\leq$ Level 2.0		17.6	16.9	17.9	28.1	57.9		
	$\leq$ Level 1.5	17.7	18.2	30.9	26.8	45.8			
	$\leq$ Level 1.0	18.1	21.3	25.0	38.9	11.9			
PC08									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0					7.8		8.0	9.2
	≤ Level 3.5					8.3	11.1	23.5	47.4
	≤ Level 3.0					9.4	10.4	16.1	16.3
	$\leq$ Level 2.5	7.6		9.1	12.4	7.5		23.6	
	≤ Level 2.0	7.8		7.2	6.0				
	≤ Level 1.5	7.9	9.5	6.7	6.7				
	≤ Level 1.0	8.2	8.7	5.7					
MK01									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5							15.0	23.0
	≤ Level 3.0						12.5	22.9	41.7
	≤ Level 2.5	8.7			10.8	14.6	16.4	23.2	
	≤ Level 2.0	8.3		11.5	12.8	26.5	31.4		
	≤ Level 1.5	8.3	9.3	12.8	12.8				
	≤ Level 1.0	9.6	8.6	6.5					

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# PPV Table 74a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

## Specialty: Otolaryngology - Head and Neck Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
MK02									
	$\leq$ Level 5.0								
	≤ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5								20.6
	$\leq$ Level 3.0				8.0	10.7	11.6	17.1	36.1
	≤ Level 2.5			9.2	9.0	15.1	14.8	30.4	
	$\leq$ Level 2.0		8.6	9.6	9.0	19.8	22.0		
	≤ Level 1.5		9.5	12.5	17.4	21.3	51.9		
	$\leq$ Level 1.0	9.3	9.4	21.6	53.4	30.5			
MK03									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	≤ Level 4.0								
	$\leq$ Level 3.5							19.2	30.9
	≤ Level 3.0					13.9	13.5	26.7	44.4
	$\leq$ Level 2.5			13.2	15.1	19.9	27.7	37.7	
	≤ Level 2.0	12.1	12.5	15.7	15.7	33.1	38.8		
	≤ Level 1.5	12.0	14.2	17.9	13.1				
	≤ Level 1.0	12.7	10.3	16.1					
MK04									
-	≤ Level 5.0								
	≤ Level 4.5								
	$\leq$ Level 4.0								
	≤ Level 3.5				19.8	20.0			34.9
	≤ Level 3.0				20.1	21.2	21.7	30.9	45.8
	≤ Level 2.5				21.4	26.5	29.8	54.7	52.8
	≤ Level 2.0			20.1	22.3	27.5	39.5	23.0	66.7
	≤ Level 1.5		20.8	20.2	19.2	17.9		20.0	66.7
	≤ Level 1.0	20.9	24.9	22.0	33.2				66.7
SBP01									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5								
	$\leq$ Level 3.0					6.9	8.4	14.9	33.6
	$\leq$ Level 2.5	4.0		5.0	5.9	14.9	21.0		49.9
	$\leq$ Level 2.0	4.3		6.8	7.2	22.4			
	$\leq$ Level 1.5	5.3	6.7	5.3	13.4				
	≤ Level 1.0	5.3	4.0	14.5	66.0				

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# PPV Table 74a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

## Specialty: Otolaryngology - Head and Neck Surgery

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,	Yr4,	Yr4,
		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
SBP02									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5							13.5	19.9
	$\leq$ Level 3.0			7.5	7.8	9.0	11.4	21.7	36.7
	$\leq$ Level 2.5	7.5	6.9	7.0	7.3	15.5	20.8	31.2	
	$\leq$ Level 2.0	7.8	7.2	8.6	9.5	19.9			
	≤ Level 1.5	8.9	10.0	7.4	7.0				
	$\leq$ Level 1.0	9.8	6.5						
PBLI01									
	$\leq$ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5								17.5
	≤ Level 3.0					7.8	10.4	18.5	42.2
	≤ Level 2.5	6.0		6.8	8.8	13.4	13.9	33.6	
	≤ Level 2.0	6.0		9.5	11.2	13.9	16.9		
	≤ Level 1.5	6.5	6.7		5.6				
	≤ Level 1.0	6.1	5.9						
PROF01									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5		8.7				11.1	18.5	29.4
	≤ Level 3.0	8.9	8.7	9.2	10.3	12.4	12.3	34.9	35.9
	≤ Level 2.5	8.9	8.5	9.8	12.2	15.9	39.1	8.6	
	≤ Level 2.0	9.8	8.7	15.0	15.2	17.7	55.0		
	≤ Level 1.5	12.2	10.1	19.3	18.3	36.2			
	$\leq$ Level 1.0	13.8	10.9	24.7		00.1			
ICS01									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0							9.1	
	$\leq$ Level 4.0							10.0	11.4
	$\leq$ Level 3.0		8.7			10.5		19.1	28.8
	≤ Level 3.0 ≤ Level 2.5	8.8	8.4	9.6	9.9	15.7	17.4	39.0	39.0
	$\leq$ Level 2.0	9.0	9.3	12.8	18.0	20.6	38.3	62.7	39.0
	$\leq$ Level 2.0 $\leq$ Level 1.5	9.0	9.3	12.6	23.6	35.0	60.7	02.7	32.1
							00.7		
	$\leq$ Level 1.0	11.1 12.8	10.4 10.5	16.6 38.9	23.5	39.2			

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### Subspecialty: Neurotology

Resident Year	1	2	Total Residents
# of Residents	21	14	35

1. Patient Care - Internal Auditory Canal (IAC) and Cerebellopontine Angle (CPA) Lesions – Patient Care



#### 3. Patient Care - Facial Nerve Disorders - Patient Care



#### 5. Medical Knowledge - Dizziness - Medical Knowledge



Note: Please reference milestone narrative for full text. 382 • MILESTONES NATIONAL REPORT 2020



#### 2. Patient Care - Lateral Skull Base Tumors - Patient Care

4. Medical Knowledge - Hearing Loss - Medical Knowledge



6. Systems-Based Practice - Patient Safety – Systems-Based Practice



#### Subspecialty: Neurotology

7. Systems-Based Practice - Resource Utilization - Systems-Based Practice



9. Practice-Based Learning and Improvement - Self-directed Learning - Practice-Based Learning and Improvement







8. Practice-Based Learning and Improvement - Evidence-based Medicine - Practice-Based Learning and Improvement



10. Professionalism - Behavior - Professionalism



12. Interpersonal and Communication Skills - Health Care Team Communications – Interpersonal and Communication Skills



### Subspecialty: Neurotology

13. Interpersonal and Communication Skills - Patient- and Family-centered Care – Interpersonal and Communication Skills



### Subspecialty: Pediatric Otolaryngology

Resident Year	1	Total Residents		
# of Residents	36	36		

#### 1. Patient Care - Airway Management - Patient Care



# 0 Level 5 Level 4 Level 3 0 Level 2 Level **Resident Year**

4. Medical Knowledge - Hearing Loss - Medical Knowledge

Level 5

Level 4

Level 3

#### 2. Patient Care - Pediatric Neck Mass - Patient Care

3. Patient Care - Rhinology - Patient Care



#### 5. Medical Knowledge - Craniofacial Conditions - Medical Knowledge



Note: Please reference milestone narrative for full text.

### 6. Systems-Based Practice - Patient Safety - Systems-Based Practice





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### Subspecialty: Pediatric Otolaryngology

7. Systems-Based Practice - Resource Utilization — Systems-Based Practice



# 9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement





11. Professionalism - Leadership — Professionalism

Level 4

Level 3

Level 2

Level 1



**Resident Year** 

8. Practice-Based Learning and Improvement - Evidence-based Medicine — Practice-Based Learning and Improvement



10. Professionalism - Behavior - Professionalism







### Subspecialty: Pediatric Otolaryngology

13. Interpersonal and Communication Skills - Patient- and Family-centered Care — Interpersonal and Communication Skills



#### Specialty: Pathology (Anatomic and Clinical)

Resident Year	1	2	3	4	Total Residents
# of Residents	617	613	599	516	2,345

1. Patient Care - 1: Reporting (Anatomic Pathology/Clinical Pathology [AP/CP])



included in the analysis.

<sup>3.</sup> Patient Care - 3: Clinical Consultation, including On-Call Interactions (AP/CP)  $\,$ 



Note: 29 of 2,345 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.

2. Patient Care - 2: Grossing (AP)



Note: 79 of 2,345 residents have a status of "Not Yet Rotated" and are not included in the analysis.

4. Patient Care - 4: Interpretation and Diagnosis (AP/CP)



Note: 5 of 2,345 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - 6: Autopsy (AP)



Note: 141 of 2,345 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### Specialty: Pathology (Anatomic and Clinical)

<sup>7.</sup> Medical Knowledge - 1: Diagnostic Knowledge (AP/CP)











8. Medical Knowledge - 2: Clinical Reasoning (AP/CP)



Note: 1 of 2,345 residents have a status of "Not Yet Rotated" and are not included in the analysis.





12. Systems-Based Practice - 4: Informatics (AP/CP)



### Specialty: Pathology (Anatomic and Clinical)

13. Systems-Based Practice - 5: Accreditation, Compliance, and Quality (AP/CP)  $% \left( AP/CP\right) \right) =0.011$ 



15. Practice-Based Learning and Improvement - 2: Reflective Practice and Commitment to Personal Growth (AP/CP)



17. Professionalism - 2: Accountability and Conscientiousness (AP/CP)



14. Practice-Based Learning and Improvement - 1: Evidence-Based Practice and Scholarship (AP/CP)



16. Professionalism - 1: Professional Behavior and Ethical Principles (AP/CP)







### Specialty: Pathology (Anatomic and Clinical)

19. Interpersonal and Communication Skills - 1: Patient and Family-Centered Communication (AP/CP)



20. Interpersonal and Communication Skills - 2: Interprofessional and Team Communication (AP/CP)  $% \left( A^{2}/C^{2}\right) =0$ 



21. Interpersonal and Communication Skills - 3: Communication within Health Care Systems (AP/CP)



### Subspecialty: Blood Banking/Transfusion Medicine

Resident Year	1	Total Residents
# of Residents	52	52

### 1. Patient Care - PC1 — Consultation





4. Medical Knowledge - MK1 — Fundamental and Diagnostic Knowledge

#### 2. Patient Care - PC2 - Interpretation, Reporting, and Diagnosis

3. Patient Care - PC3 - Procedures







Note: Please reference milestone narrative for full text.



## 6. Systems-Based Practice - SBP1 - Regulatory



**Resident Year** 



Level 5

Level 4

Level 3

Level 2

Level ?

### Subspecialty: Blood Banking/Transfusion Medicine

7. Systems-Based Practice - SBP2 - Health Care Teams



9. Practice-Based Learning and Improvement - PBLI1 — Evidence-based Utilization



11. Practice-Based Learning and Improvement - PBLI3 — Research and Scholarly Activity



8. Systems-Based Practice - SBP3 — Lab Management: Resource Utilization (personnel and finance)



10. Practice-Based Learning and Improvement - PBLI2 — Process Improvement and Patient Safety



12. Professionalism - PROF1 — Receiving and Providing Feedback



### Subspecialty: Blood Banking/Transfusion Medicine

13. Professionalism - PROF2 — Accountability, Honesty, and Integrity









16. Interpersonal and Communication Skills - ICS2 — Personnel Management and Conflict Resolution



#### 14. Professionalism - PROF3 — Cultural Competency

### Subspecialty: Cytopathology

Resident Year	1	Total Residents
# of Residents	128	128

1. Patient Care - PC1 — Patient safety: Demonstrates attitudes, knowledge, and practices that contribute ...



3. Medical Knowledge - MK1 — Interpretation and Diagnostic Knowledge: Demonstrates attitudes, knowledge, ...



5. Systems-Based Practice - SBP1 — Regulatory and Compliance: Manages accreditation



Note: Please reference milestone narrative for full text.









#### 6. Systems-Based Practice - SBP2 - Health care teams



#### Subspecialty: Cytopathology

7. Systems-Based Practice - SBP3 — Lab Management: Utilizes resources (personnel and finance)



# 9. Systems-Based Practice - SBP5 — Lab Management: Quality, Risk Management and Laboratory Safety: Explains, ...







Note: Please reference milestone narrative for full text.



# 10. Practice-Based Learning and Improvement - PBLI1 — Scholarly Activity: Analyzes and appraises pertinent ...







8. Systems-Based Practice - SBP4 — Lab Management: Technical Management
#### Subspecialty: Cytopathology

13. Professionalism -  $\mathsf{PROF2}$  — Demonstrates accountability, honesty, and integrity



# 15. Professionalism - PROF4 — Professionalism: Demonstrates personal responsibility to maintain emotional, ...



17. Interpersonal and Communication Skills - ICS2 — Demonstrates personnel management and conflict resolution



Note: Please reference milestone narrative for full text.



# 16. Interpersonal and Communication Skills - ICS1 — Communicates with health care providers, families, and patients (as applicable)







#### 14. Professionalism - PROF3 — Demonstrates cultural competency

#### Subspecialty: Forensic Pathology

Resident Year	1	Total Residents
# of Residents	58	58

1. Patient Care - PC1 — Patient safety: Demonstrates attitudes, knowledge, and practices that contribute to patient safety



3. Medical Knowledge - MK1 — Interpretation and Diagnostic Knowledge: Understands the types of cases most ...







Note: Please reference milestone narrative for full text.











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#### Subspecialty: Forensic Pathology

7. Systems-Based Practice - SBP2 — Lab Management: Quality, risk management, and laboratory safety: Explains, ...



9. Systems-Based Practice - SBP4 — Scene Investigation: Demonstrates attitudes, knowledge, and practices ...



11. Practice-Based Learning and Improvement - PBLI2 — Scholarly Activity: Analyzes and appraises pertinent ...



Note: Please reference milestone narrative for full text.













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#### Subspecialty: Forensic Pathology

13. Professionalism - PROF2 — Professionalism: Demonstrates responsibility and follow-through on tasks



# 15. Professionalism - PROF4 — Professionalism: Demonstrates responsiveness to each patient's distinct characteristics and needs



17. Interpersonal and Communication Skills - ICS1 — Intra- and Interdepartmental and Health Care Clinical/Investigative ...



Note: Please reference milestone narrative for full text.



16. Professionalism - PROF5 — Professionalism: Demonstrates personal responsibility to maintain emotional, ...



18. Interpersonal and Communication Skills - ICS2 — Interaction with Others: Seeks help when appropriate



# 14. Professionalism - PROF3 — Professionalism: Giving and receiving feedback

#### Subspecialty: Hematopathology

Resident Year	1	Total Residents
# of Residents	135	135





3. Patient Care -  $\mbox{PC3}$  — Procedure: Performing bone marrow aspiration and biopsy



5. Medical Knowledge - MK2 — Teaching



Note: Please reference milestone narrative for full text.













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#### Subspecialty: Hematopathology

7. Medical Knowledge - MK4 — Hematology Knowledge: Demonstrates attitudes, knowledge, and practices that  $\ldots$ 



#### 9. Systems-Based Practice - SBP2 - Health care teams



11. Systems-Based Practice - SBP4 — Lab Management: Test Utilization: Explains, recognizes, summarizes, ...



Note: Please reference milestone narrative for full text.



10. Systems-Based Practice - SBP3 — Lab Management: Resource Utilization (personnel and finance)







8. Systems-Based Practice - SBP1 — Regulatory

#### Subspecialty: Hematopathology

13. Practice-Based Learning and Improvement -  $\ensuremath{\mathsf{PBLI2}}$  — Evidence-based Utilization



### 15. Professionalism - PROF1 - Receives and provides feedback







Note: Please reference milestone narrative for full text.

14. Practice-Based Learning and Improvement - PBLI3 — Process Improvement and Patient Safety



16. Professionalism - PROF2 — Demonstrates accountability, honesty, and integrity



18. Interpersonal and Communication Skills -  $\rm ICS1-Communicates$  with health care providers, families, and patients



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### Subspecialty: Hematopathology

19. Interpersonal and Communication Skills - ICS2 — Personnel Management and Conflict Resolution



### Subspecialty: Neuropathology

Resident Year	1	2	Total Residents
# of Residents	32	27	59

#### 1. Patient Care - PC1 — Procedure: Autopsy (General)



3. Patient Care - PC3 — Procedure: Autopsy (Microscopic and reporting)







Note: Please reference milestone narrative for full text.



#### 2. Patient Care - PC2 - Procedure: Autopsy (Gross)

4. Patient Care - PC4 — Procedure: Surgical (Gross)



6. Patient Care - PC6 — Procedure: intraoperative Consultation



### Subspecialty: Neuropathology

<sup>7.</sup> Medical Knowledge - MK1 — Diagnostic Knowledge



### 9. Systems-Based Practice - SBP1 - Regulatory



11. Systems-Based Practice - SBP3 — Lab Management: Resource Utilization (personnel and finance)



Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 2 Level 1 0 1 Resident Year

10. Systems-Based Practice - SBP2 - Health Care Teams



12. Practice-Based Learning and Improvement -  $\ensuremath{\mathsf{PBLI1}}\xspace$  based Utilization



#### Subspecialty: Neuropathology

13. Practice-Based Learning and Improvement - PBLI2 — Process Improvement and Patient Safety



15. Professionalism - PROF1 — Receiving and Providing Feedback







Note: Please reference milestone narrative for full text.

Level 2 Level 1 Level 1 Level 2 Level 1 2 Resident Year

16. Professionalism - PROF2 - Accountability, Honesty, and Integrity



18. Interpersonal and Communication Skills - ICS1 — Communication with Health Care Providers, Families, and Patients (as applicable)



14. Practice-Based Learning and Improvement - PBLI3 — Scholarly Activity

### Subspecialty: Neuropathology

19. Interpersonal and Communication Skills - ICS2 — Personnel Management and Conflict Resolution



### Subspecialty: Pediatric Pathology

Resident Year	1	Total Residents
# of Residents	23	23

#### 1. Patient Care - PC1 - Procedure: Surgical Pathology Grossing



#### 2. Patient Care - PC2 - Procedure: intraoperative Consultation/Frozen Sections



### 3. Patient Care - PC3 - Procedure: Autopsy







Note: Please reference milestone narrative for full text.







Level 5



### Subspecialty: Pediatric Pathology

7. Medical Knowledge - MK3 — Application of Clinical Laboratory Testing



#### 9. Systems-Based Practice - SBP2 - Health Care teams







8. Systems-Based Practice - SBP1 — Regulatory and Compliance: Accreditation Management



# 10. Systems-Based Practice - SBP3 — Lab Management: Resource Utilization (personnel and finance)







### Subspecialty: Pediatric Pathology

13. Professionalism - PROF1 — Receiving and Providing Feedback



15. Professionalism - PROF3 — Cultural Competency



17. Interpersonal and Communication Skills -  $\rm ICS2-Personnel$  Management and Conflict Resolution



Note: Please reference milestone narrative for full text.



16. Interpersonal and Communication Skills - ICS1 — Communication with Health Care Providers, Families, and Patients (as applicable)



#### 14. Professionalism - PROF2 — Accountability, Honesty, and Integrity

### Subspecialty: Selective Pathology (Focused Anatomic)

Resident Year	1	Total Residents
# of Residents	77	77

1. Patient Care - PC1B — Patient Care and Procedural Skills: Surgical pathology grossing and histologic exam: Demonstrates ...



3. Medical Knowledge - MK2A,B — Procedure: intraoperative consultation/frozen sections: Demonstrates attitudes, knowledge, ...



#### 5. Systems-Based Practice - SBP2 - Health care teams



Note: Please reference milestone narrative for full text.



Note: 1 of 77 residents have a status of "Not Applicable" and are not included in the analysis.









 Medical Knowledge - MK1B — Demonstrates knowledge of established and evolving biomedical, clinical, ...

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#### Subspecialty: Selective Pathology (Focused Anatomic)

7. Practice-Based Learning and Improvement -  $\ensuremath{\mathsf{PBLI1}}\xspace$  – Evidence-based Utilization



# 9. Practice-Based Learning and Improvement - PBLI3 — Fellows' Scholarly Activity



#### 11. Professionalism - PROF1 - Receives and provides feedback



Note: Please reference milestone narrative for full text.





10. Practice-Based Learning and Improvement - PBLI4B — Laboratory Management (Applies only to Track B: Focused Anatomic Pathology)



Note: 5 of 77 residents have a status of "Not Applicable" and are not included in the analysis.





8. Practice-Based Learning and Improvement - PBLI2 — Process Improvement and Patient Safety

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### Subspecialty: Selective Pathology (Focused Anatomic)

13. Professionalism - PROF3 — Demonstrates cultural competency



15. Interpersonal and Communication Skills - ICS2 — Personnel Management and Conflict Resolution



14. Interpersonal and Communication Skills - ICS1 — Communicates with health care providers, families, and patients (as applicable)



#### Subspecialty: Selective Pathology (Surgical)

Resident Year	1	Total Residents
# of Residents	85	85

1. Patient Care - PC1A - Patient Care and Procedural Skills: Surgical pathology grossing and histologic exam: Demonstrates ...



3. Medical Knowledge - MK2A,B - Procedure: intraoperative consultation/frozen sections: Demonstrates attitudes, knowledge, ...



#### 5. Systems-Based Practice - SBP2 - Health care teams



Note: Please reference milestone narrative for full text.

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2. Medical Knowledge - MK1A - Demonstrates knowledge of established and evolving biomedical, clinical, ...



4. Systems-Based Practice - SBP1 - Regulatory







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#### Subspecialty: Selective Pathology (Surgical)

7. Practice-Based Learning and Improvement -  $\ensuremath{\mathsf{PBLI1}}$  — Evidence-based Utilization



# 9. Practice-Based Learning and Improvement - PBLI3 — Fellows' Scholarly Activity



#### 11. Professionalism - PROF1 - Receives and provides feedback



8. Practice-Based Learning and Improvement - PBLI2 — Process Improvement and Patient Safety



10. Practice-Based Learning and Improvement - PBLI4A — Laboratory Management (Applies only to Track A: Surgical Pathology)









#### Subspecialty: Selective Pathology (Surgical)

13. Professionalism - PROF3 — Demonstrates cultural competency



14. Interpersonal and Communication Skills -  $\rm ICS1-Communicates$  with health care providers, families, and patients (as applicable)



15. Interpersonal and Communication Skills -  $\mbox{ICS2}$  — Personnel Management and Conflict Resolution



#### **Specialty: Pediatrics**

Resident Year	1	2	3	Total Residents
# of Residents	3,260	3,157	2,985	9,402

1. Patient Care - Gather essential and accurate information about the patient (PC1)



Note: 65 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

<sup>3.</sup> Patient Care - Provide transfer of care that ensures seamless transitions (PC3)



are not included in the analysis.



#### 5. Patient Care - Develop and carry out management plans (PC5)

are not included in the analysis.

Note: Please reference milestone narrative for full text.

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2. Patient Care - Organize and prioritize responsibilities to provide patient care that is safe, effective and efficient (PC2)



Note: 83 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

4. Patient Care - Make informed diagnostic and therapeutic decisions that



Note: 149 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

6. Medical Knowledge - Critically evaluate and apply current medical information and scientific evidence for patient care (MK1)



Note: 56 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

#### **Specialty: Pediatrics**

7. Systems-Based Practice - Coordinate patient care within the health care system relevant to their clinical specialty (SBP1)



are not included in the analysis.





Note: 118 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

11. Practice-Based Learning and Improvement - Identify and perform appropriate learning activities to guide ...



8. Systems-Based Practice - Advocate for quality patient care and optimal patient care systems (SBP2)



Note: 715 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

10. Practice-Based Learning and Improvement - Identify strengths, deficiencies, and limits in one's knowledge and expertise ...



Note: 168 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - Systematically analyze practice using quality improvement  $\ldots$ 



Note: 1,177 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

#### **Specialty: Pediatrics**

13. Practice-Based Learning and Improvement - Incorporate formative evaluation feedback into daily practice (PBLI4)



are not included in the analysis.





Note: 187 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

17. Professionalism - Self-awareness of one's own knowledge, skill, and emotional limitations that leads  $\ldots$ 







Note: 138 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

16. Professionalism - Professional Conduct: High standards of ethical behavior which includes maintaining ...



Note: 149 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

18. Professionalism - Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients (PROF5)



are not included in the analysis.

#### **Specialty: Pediatrics**

19. Professionalism - Recognize that ambiguity is part of clinical medicine and to recognize the need for  $\dots$ 



Note: 381 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

21. Interpersonal and Communication Skills - Demonstrate the insight and understanding into emotion and ...



20. Interpersonal and Communication Skills - Communicate effectively with patients, families, and the public, ...



Note: 91 of 9,402 residents have a status of "Not yet assessable" and are not included in the analysis.

### Subspecialty: Adolescent Medicine

Resident Year	1	2	3	Total Residents
# of Residents	40	29	29	98

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



5. Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.

2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment



4. Patient Care - PC4. Provide appropriate role modeling



6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems  $\dots$ 



Note: 1 of 98 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Adolescent Medicine

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 3 of 98 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



included in the analysis.

#### Subspecialty: Adolescent Medicine

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment,  $\dots$ 



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients



18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...



#### Subspecialty: Adolescent Medicine

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



### Subspecialty: Child Abuse Pediatrics

Resident Year	1	2	3	Total Residents
# of Residents	19	14	14	47

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



5. Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.



2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment





6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems  $\ldots$ 



Note: 2 of 47 residents have a status of "Not Yet Assessable" and are no included in the analysis.

#### **Subspecialty: Child Abuse Pediatrics**

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty



included in the analysis.





11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 1 of 47 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



#### **Subspecialty: Child Abuse Pediatrics**

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery



15. Professionalism - PROF1. Professional Conduct: High standards of ethical behavior which includes maintaining ...



17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



Note: 1 of 47 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients







### **Subspecialty: Child Abuse Pediatrics**

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



### Subspecialty: Developmental-Behavioral Pediatrics

Resident Year	1	2	3	Total Residents
# of Residents	45	34	41	120

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions











Note: Please reference milestone narrative for full text.



# 2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment

4. Patient Care - PC4. Provide appropriate role modeling



Note: 8 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...



Note: 2 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Developmental-Behavioral Pediatrics

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty











8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 12 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 12 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



#### Subspecialty: Developmental-Behavioral Pediatrics

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment,  $\ldots$ 



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients



Note: 2 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...


### Subspecialty: Developmental-Behavioral Pediatrics

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



Note: 6 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



Note: 3 of 120 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Neonatal-Perinatal Medicine

Resident Year	1	2	3	Total Residents
# of Residents	270	262	256	788

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans







Note: Please reference milestone narrative for full text.

2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment



Note: 1 of 788 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 3 of 788 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...





#### Subspecialty: Neonatal-Perinatal Medicine

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty



not included in the analysis.





11. Practice-Based Learning and Improvement - PBLI1. Identify



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 30 of 788 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 24 of 788 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



not included in the analysis.

#### Subspecialty: Neonatal-Perinatal Medicine

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery



not included in the analysis.

15. Professionalism - PROF1. Professional Conduct: High standards of ethical behavior which includes maintaining ...



17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...







16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients



Note: 1 of 788 residents have a status of "Not Yet Assessable" and are not included in the analysis.





not included in the analysis.

#### Subspecialty: Neonatal-Perinatal Medicine

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



Note: 2 of 788 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pediatric Cardiology

Resident Year	1	2	3	Total Residents
# of Residents	172	150	137	459

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



<sup>3.</sup> Patient Care - PC3. Develop and carry out management plans



Note: 3 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: Please reference milestone narrative for full text.

2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment



Note: 2 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

4. Patient Care - PC4. Provide appropriate role modeling



Note: 7 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...



Note: 2 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

## Subspecialty: Pediatric Cardiology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty



not included in the analysis.





not included in the analysis.



11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise

8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 30 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 18 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and  $\ldots$ 



Note: 23 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pediatric Cardiology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery



not included in the analysis.





17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



note: 3 of 459 residents have a status of Not Yet Assessable and are not included in the analysis.

16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients



Note: 2 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...



not included in the analysis.

### Subspecialty: Pediatric Cardiology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



Note: 2 of 459 residents have a status of "Not Yet Assessable" and are not included in the analysis.

## Subspecialty: Pediatric Critical Care Medicine

Resident Year	1	2	3	Total Residents
# of Residents	199	188	175	562

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



5. Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.



2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment

4. Patient Care - PC4. Provide appropriate role modeling



Note: 1 of 562 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...



Note: 2 of 562 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pediatric Critical Care Medicine

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 16 of 562 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 5 of 562 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



not included in the analysis.

### Subspecialty: Pediatric Critical Care Medicine

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...















## Subspecialty: Pediatric Critical Care Medicine

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



#### Subspecialty: Pediatric Emergency Medicine (Pediatrics)

Resident Year	1	2	3	Total Residents*
# of Residents	156	134	140	430

\*Note: There are 6 residents with an incomplete milestone evaluation that are excluded from the box plots below.





3. Patient Care - Provide transfer of care that ensures seamless transitions — PC3







Note: 2 of 424 residents have a status of "Not Yet Assessable" and are Note: Please reference milestone narrative for full text.

2. Patient Care - Organize and prioritize responsibilities to provide patient care that is safe, effective,  $\ldots$ 









6. Patient Care - Diagnostic Studies: Applies the results of diagnostic testing based on the probability ...



### Subspecialty: Pediatric Emergency Medicine (Pediatrics)

7. Patient Care - Observation and Reassessment: Re-evaluates patients undergoing emergency department (ED) ...



9. Patient Care - General Approach to Procedures: Performs the indicated procedure on all appropriate patients ...



11. Patient Care - Provide appropriate supervision (milestones for the supervisor) — PC11



8. Patient Care - Disposition: Establishes and implements a comprehensive disposition plan that uses appropriate ...



10. Patient Care - Anesthesia and Acute Pain Management: Provides safe acute pain management, anesthesia, ...



Note: 8 of 424 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Medical Knowledge - Demonstrate sufficient knowledge of the basic and clinically supportive sciences ...



## Subspecialty: Pediatric Emergency Medicine (Pediatrics)

13. Systems-Based Practice - Advocate for quality patient care and optimal patient care systems — SBP1







17. Professionalism - The capacity to accept that ambiguity is part of clinical medicine and to recognize  $\ldots$ 



14. Systems-Based Practice - Participate in identifying system errors and implementing potential systems solutions — SBP2



Note: 2 of 424 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Professionalism - Self-awareness of one's own knowledge, skill, and emotional limitations that leads  $\ldots$ 



Note: 2 of 424 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - Practice flexibility and maturity in adjusting to



Note: 2 of 424 residents have a status of "Not Yet Assessable" and are not included in the analysis.

### Subspecialty: Pediatric Emergency Medicine (Pediatrics)

19. Professionalism - Provide leadership skills that enhance team functioning, the learning environment, ...



not included in the analysis.





23. Interpersonal and Communication Skills - Act in a consultative role to other physicians and health professionals —  $\rm ICS3$ 



Note: Please reference milestone narrative for full text.

20. Professionalism - Demonstrate self-confidence that puts patients, families, and members of the health care team at ease ...



22. Interpersonal and Communication Skills - Demonstrate the insight and understanding into emotion and ...



Note: 2 of 424 residents have a status of "Not Yet Assessable" and are not included in the analysis.

## Subspecialty: Pediatric Endocrinology

Resident Year	1	2	3	Total Residents
# of Residents	81	76	76	233

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans







Note: Please reference milestone narrative for full text.

2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment



4. Patient Care - PC4. Provide appropriate role modeling



Note: 3 of 233 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...



Note: 5 of 233 residents have a status of "Not Yet Assessable" and are not included in the analysis.

## Subspecialty: Pediatric Endocrinology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







not included in the analysis.

11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 11 of 233 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 15 of 233 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



not included in the analysis.

## Subspecialty: Pediatric Endocrinology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment,  $\dots$ 











Note: 1 of 233 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...



not included in the analysis.

## Subspecialty: Pediatric Endocrinology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care  $\ldots$ 



## Subspecialty: Pediatric Gastroenterology

Resident Year	1	2	3	Total Residents
# of Residents	115	111	99	325

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



5. Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.





4. Patient Care - PC4. Provide appropriate role modeling



Note: 1 of 325 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...



### Subspecialty: Pediatric Gastroenterology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



note: 3 of 325 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 2 of 325 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



not included in the analysis.

### Subspecialty: Pediatric Gastroenterology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery



<sup>15.</sup> Professionalism - PROF1. Professional Conduct: High standards of ethical behavior which includes maintaining ...



17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients







## Subspecialty: Pediatric Gastroenterology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



## Subspecialty: Pediatric Hematology Oncology

Resident Year	1	2	3	Total Residents
# of Residents	167	155	169	491

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



not included in the analysis.

<sup>5.</sup> Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.



2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment





6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems  $\ldots$ 





## Subspecialty: Pediatric Hematology Oncology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







11. Practice-Based Learning and Improvement - PBLI1. Identify

strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 23 of 491 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 17 of 491 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



### Subspecialty: Pediatric Hematology Oncology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients







## Subspecialty: Pediatric Hematology Oncology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care  $\dots$ 



## Subspecialty: Pediatric Infectious Diseases

Resident Year	1	2	3	Total Residents
# of Residents	55	59	63	177

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions











Note: Please reference milestone narrative for full text.



2. Patient Care - PC2. Make informed diagnostic and therapeutic decisions that result in optimal clinical judgment





6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems  $\ldots$ 



Note: 1 of 177 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### **Subspecialty: Pediatric Infectious Diseases**

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 1 of 1// residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 2 of 177 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



#### Subspecialty: Pediatric Infectious Diseases

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients







#### **Subspecialty: Pediatric Infectious Diseases**

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



## Subspecialty: Pediatric Nephrology

Resident Year	1	2	3	Total Residents
# of Residents	37	43	36	116

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



Note: 1 of 116 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: Please reference milestone narrative for full text.





Note: 1 of 116 residents have a status of "Not Yet Assessable" and are not included in the analysis.

4. Patient Care - PC4. Provide appropriate role modeling



Note: 1 of 116 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...





### Subspecialty: Pediatric Nephrology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty



not included in the analysis.





11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise







Note: 9 of 116 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 7 of 116 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



### Subspecialty: Pediatric Nephrology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery



not included in the analysis.





17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...







16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients



Note: 2 of 116 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...



not included in the analysis.
#### Subspecialty: Pediatric Nephrology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care ...



### Subspecialty: Pediatric Pulmonology

Resident Year	1	2	3	Total Residents
# of Residents	65	56	47	168

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



5. Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.





4. Patient Care - PC4. Provide appropriate role modeling



6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems  $\ldots$ 



Note: 1 of 168 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Pediatric Pulmonology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty



not included in the analysis.





11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 2 of 168 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 5 of 168 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



#### Subspecialty: Pediatric Pulmonology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...







Note: 1 of 168 residents have a status of "Not Yet Assessable" and are not included in the analysis.

18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...



### Subspecialty: Pediatric Pulmonology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



20. Interpersonal and Communication Skills - ICS2. Work effectively as a member or leader of a health care  $\ldots$ 



### Subspecialty: Pediatric Rheumatology

Resident Year	1	2	3	Total Residents
# of Residents	28	32	34	94

1. Patient Care - PC1. Provide transfer of care that ensures seamless transitions



3. Patient Care - PC3. Develop and carry out management plans



5. Medical Knowledge - MK1. Locate, appraise, and assimilate evidence from scientific studies related to  $\ldots$ 



Note: Please reference milestone narrative for full text.





4. Patient Care - PC4. Provide appropriate role modeling



Note: 1 of 94 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - SBP1. Work effectively in various health care delivery settings and systems ...



Note: 3 of 94 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### Subspecialty: Pediatric Rheumatology

7. Systems-Based Practice - SBP2. Coordinate patient care within the health care system relevant to their clinical specialty







11. Practice-Based Learning and Improvement - PBLI1. Identify strengths, deficiencies, and limits in one's knowledge and expertise



8. Systems-Based Practice - SBP3. Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or ...



Note: 6 of 94 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Systems-Based Practice - SBP5. Participate in identifying system errors and implementing potential systems solutions



Note: 6 of 94 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Practice-Based Learning and Improvement - PBLI2. Systematically analyze practice using quality improvement methods, and ...



#### Subspecialty: Pediatric Rheumatology

13. Practice-Based Learning and Improvement - PBLI3. Use information technology to optimize learning and care delivery







17. Professionalism - PROF3. Provide leadership skills that enhance team functioning, the learning environment, ...



14. Practice-Based Learning and Improvement - PBLI4. Participate in the education of patients, families, ...



16. Professionalism - PROF2. Trustworthiness that makes colleagues feel secure when one is responsible for the care of patients



18. Professionalism - PROF4. The capacity to accept that ambiguity is part of clinical medicine and to recognize ...



#### Subspecialty: Pediatric Rheumatology

19. Interpersonal and Communication Skills - ICS1. Communicate effectively with physicians, other health professionals, and ...



Level 5

Level 4



20. Interpersonal and Communication Skills - ICS2. Work effectively as a

member or leader of a health care ...

21. Interpersonal and Communication Skills - ICS3. Act in a consultative role to other physicians and health professionals



### **Subspecialty: Sports Medicine**

Resident Year	1	Total Residents
# of Residents	26	26

1. Patient Care - History and Physical Examination: Medical and Musculoskeletal — Patient Care 1



3. Patient Care - Team Coverage and Athletic Care: Coverage of Sporting Events, Pre-participation Physical  $\ldots$ 







Level 5 Level 4 Level 3 Level 2 Level 1 i Resident Year











#### **Subspecialty: Sports Medicine**

7. Systems-Based Practice - Working with Interprofessional Teams (consultants, certified athletic trainers ...



# 9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement ...



11. Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others — Professionalism 1



Level 5 Level 4 Level 3 Level 2 Level 1 I Resident Year









8. Systems-Based Practice - Systems Thinking — Systems-Based Practice 2

### Subspecialty: Sports Medicine

13. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...



14. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology— Interpersonal ...



### **Specialty: Physical Medicine and Rehabilitation**

Resident Year	1	2	3	4	Total Residents
# of Residents	142	458	440	423	1,463

1. Patient Care - PC1. History (Appropriate for age and impairment)



3. Patient Care - PC3. Diagnostic Evaluation This includes: • Differential diagnosis of primary and secondary conditions ...



5. Patient Care - PC5. Rehabilitation/Functional Management Includes rehabilitation interventions in inpatient, ...



Note: Please reference milestone narrative for full text. 481 • MILESTONES NATIONAL REPORT 2020



2. Patient Care - PC2. Physiatric Physical Examination (including general medical, neurologic, musculoskeletal, ...









### **Specialty: Physical Medicine and Rehabilitation**

7. Patient Care - PC7. Procedural Skills: Electrodiagnostic Procedures



9. Systems-Based Practice - SBP1. Systems thinking: demonstrates awareness of and responsiveness to larger ...



11. Systems-Based Practice - SBP3. Patient safety: Understands ways to improve health care safety through ...



0 Level 5 O

(medical, functional, and psychosocial) in the care of ...



8. Medical Knowledge - Medical Knowledge (MK) Physiatric knowledge

10. Systems-Based Practice - SBP2. Team approach to enhance patient care coordination. Rehabilitation team ...







### Specialty: Physical Medicine and Rehabilitation

13. Practice-Based Learning and Improvement - PBLI2. Locate, appraise, and assimilate evidence from scientific  $\dots$ 







17. Professionalism - PROF3. Professional behaviors and accountability to self, patients, society, and the profession



Note: Please reference milestone narrative for full text.





16. Professionalism - PROF2. Knowledge about, respect for, and adherence to the ethical principles (including ...



18. Interpersonal and Communication Skills - ICS1. Relationship Management



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### Specialty: Physical Medicine and Rehabilitation

19. Interpersonal and Communication Skills - ICS2. Information gathering and sharing



### Specialty: Physical Medicine and Rehabilitation

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PC01								
	≤ Level 5.0							
	$\leq$ Level 4.5							
	≤ Level 4.0							
	≤ Level 3.5							
	≤ Level 3.0				40.0	52.0	59.8	
	≤ Level 2.5			37.5	37.1	63.6		
	≤ Level 2.0	36.5	39.0	46.7	55.1			
	≤ Level 1.5	39.9	40.9	85.3				
	$\leq$ Level 1.0	42.5	56.9					
PC02								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5							
	$\leq$ Level 3.0				41.7	49.6	59.4	
	$\leq$ Level 2.5			42.8	44.9	66.8		
	$\leq$ Level 2.0	37.3		44.9	46.8			
	$\leq$ Level 1.5	39.8	39.3	61.8				
	$\leq$ Level 1.0	43.2	39.6					
PC03								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5							
	$\leq$ Level 3.0				40.0	49.6	55.5	
	$\leq$ Level 2.5		39.7	41.8	42.9	76.6		
	$\leq$ Level 2.0		37.6	44.7	46.9			
	$\leq$ Level 1.5	36.5	39.1					
	$\leq$ Level 1.0	42.4	48.9					
PC04								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5							
	≤ Level 3.0			33.4	33.4	45.4	58.0	
	$\leq$ Level 2.5		31.6	39.9	43.7	81.5		
	$\leq$ Level 2.0		30.3	44.1	53.3			
	≤ Level 1.5	33.7	30.5	72.0				
	$\leq$ Level 1.0	41.6	31.9					

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### Specialty: Physical Medicine and Rehabilitation

				1			
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC05							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5						
	≤ Level 3.0						57.7
	≤ Level 2.5			44.3	45.6	70.9	
	≤ Level 2.0			46.2	55.9		
	≤ Level 1.5		42.0	54.9			
	$\leq$ Level 1.0	42.7	47.6				
PC06							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						
	$\leq$ Level 3.0					47.9	55.5
	$\leq$ Level 2.5		41.8	41.4	45.5	58.4	72.0
	$\leq$ Level 2.0		41.9	42.4	52.0	49.6	
	$\leq$ Level 1.5	41.9	42.5	43.5	63.6	34.1	
	$\leq$ Level 1.0	42.8	47.4	49.4	74.7	34.3	
PC07							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						
	$\leq$ Level 3.0					54.3	63.6
	$\leq$ Level 2.5				52.4	57.9	77.6
	$\leq$ Level 2.0			55.4	56.8	63.0	76.4
	$\leq$ Level 1.5	52.1	52.5	52.4	59.0	64.2	88.2
	$\leq$ Level 1.0	54.2	53.9	54.4	61.6	69.3	88.2
MK01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						
	$\leq$ Level 3.0				47.9	52.6	64.8
	$\leq$ Level 2.5		45.4	48.8	50.7	81.3	40.1
	$\leq$ Level 2.0	43.6	44.7	54.3	65.1		
	$\leq$ Level 1.5	45.5	48.2	55.7	66.6		
	$\leq$ Level 1.0	49.3	56.4				

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### Specialty: Physical Medicine and Rehabilitation

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End		
SBP01									
	≤ Level 5.0								
	≤ Level 4.5								
	≤ Level 4.0								
	≤ Level 3.5								
	≤ Level 3.0				36.0	40.8	44.3		
	≤ Level 2.5		34.9	34.9	40.1	62.0	70.3		
	≤ Level 2.0		32.7	39.5	45.1				
	≤ Level 1.5	31.2	31.1	49.8					
	≤ Level 1.0	31.6	39.4						
SBP02									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5								
	≤ Level 3.0			27.5	29.9	37.7	47.1		
	$\leq$ Level 2.5	23.0		33.2	35.7	82.0	49.1		
	$\leq$ Level 2.0	19.0	24.6	32.3	33.6	70.3			
	≤ Level 1.5	20.2	25.3	18.7					
	≤ Level 1.0	22.9	25.8						
SBP03									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	≤ Level 3.5						46.1		
	≤ Level 3.0				43.5	53.6	61.8		
	$\leq$ Level 2.5		39.3	42.6	46.8	77.5			
	$\leq$ Level 2.0	36.6	36.8	45.0	56.4				
	$\leq$ Level 1.5	40.6	39.0	58.2					
	≤ Level 1.0	45.4	41.1						
PBLI01									
	$\leq$ Level 5.0								
	$\leq$ Level 4.5								
	$\leq$ Level 4.0								
	$\leq$ Level 3.5								
	$\leq$ Level 3.0			33.3	34.9	43.6	51.5		
	$\leq$ Level 2.5		31.0	34.8	41.4	67.5			
	$\leq$ Level 2.0	30.1	29.7	37.0	34.6				
	$\leq$ Level 1.5	30.8	25.8	38.2					
	≤ Level 1.0	34.1	45.3						

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### Specialty: Physical Medicine and Rehabilitation

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,	Yr3,	Yr3,
		Mid-Year	Year-End	Mid-Year	Year-End	Mid-Year	Year-End
PBLI02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						
	$\leq$ Level 3.0				40.0	49.1	60.0
	$\leq$ Level 2.5		39.8	40.6	49.9	77.3	
	$\leq$ Level 2.0		39.8	42.4	48.0	50.7	
	$\leq$ Level 1.5	36.1	40.7	52.8			
	$\leq$ Level 1.0	37.6	38.9	50.7			
PBLI03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						51.1
	$\leq$ Level 3.0					52.9	62.6
	$\leq$ Level 2.5			44.5	52.9	68.0	84.5
	$\leq$ Level 2.0	42.3		47.7	62.0	38.9	80.4
	≤ Level 1.5	42.3	41.2	60.9	63.2		
	≤ Level 1.0	47.9	48.7	46.3	40.7		
PROF01							
	$\leq$ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	$\leq$ Level 3.5			21.8	22.1	24.8	28.5
	≤ Level 3.0			23.9	26.2	32.8	52.6
	$\leq$ Level 2.5	17.6	21.0	28.8	35.2	64.6	
	$\leq$ Level 2.0	20.6	23.5	28.8	44.5		
	≤ Level 1.5	20.0	19.7				
	≤ Level 1.0	20.3	18.8				
PROF02							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5				30.1		
	≤ Level 3.0			30.9	33.8		57.9
	≤ Level 2.5	30.5	31.9	34.8	39.4	80.6	
	≤ Level 2.0	29.9	32.6	38.0	49.2		
	≤ Level 1.5	30.5	35.9	41.6			
	≤ Level 1.0	27.7	38.3	1113			

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### Specialty: Physical Medicine and Rehabilitation

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PROF03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5					30.6	38.5
	$\leq$ Level 3.0			26.8	30.6	40.8	45.7
	$\leq$ Level 2.5	25.5	25.4	28.9	31.2	47.4	57.6
	$\leq$ Level 2.0	27.1	28.2	33.5	31.5		
	$\leq$ Level 1.5	28.9	26.3	35.8			
	$\leq$ Level 1.0	33.6	38.0				
ICS01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						
	$\leq$ Level 3.0			30.5	33.4	48.7	64.9
	$\leq$ Level 2.5	27.6	27.1	31.7	36.8	78.0	78.2
	$\leq$ Level 2.0	22.3	27.2	32.4	56.3	40.2	
	$\leq$ Level 1.5	29.2	35.2	23.9	36.4		
	$\leq$ Level 1.0	30.3	38.9				
ICS02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						
	$\leq$ Level 3.0			30.2	32.5	43.9	62.1
	$\leq$ Level 2.5		25.7	31.1	39.5	78.8	
	$\leq$ Level 2.0		25.7	35.5	48.0	57.9	
	≤ Level 1.5	27.1	35.7	17.3			
	≤ Level 1.0	37.0	29.6				

#### Subspecialty: Brain Injury Medicine (Physical Medicine and Rehabilitation)

Resident Year	1	Total Residents
# of Residents	18	18

1. Patient Care - Patient Care - History and Physical Examination of Individuals with Brain Injury



#### 3. Patient Care - Patient Care - Evaluation and Diagnosis of Individuals with Brain Injury across the Entire Spectrum of Severity







Note: Please reference milestone narrative for full text.









6. Medical Knowledge - Medical Knowledge - Traumatic and Nontraumatic Brain Injury This includes: • Epidemiology ...



### Subspecialty: Brain Injury Medicine (Physical Medicine and Rehabilitation)

7. Medical Knowledge - Medical Knowledge - Functional Outcomes and Assessment across the Entire Spectrum of Brain Injury Severity



9. Systems-Based Practice - Systems-Based Practice – Work In Interprofessional Teams to Enhance Patient Safety and Patient ...



11. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Self-directed Learning ...



Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - Systems-Based Practice – Systems Thinking, including Cost- and Risk-effective Practice



10. Systems-Based Practice - Systems-Based Practice – Coordination and Transitions in Care



12. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Location, Appraisal, ...



### Subspecialty: Brain Injury Medicine (Physical Medicine and Rehabilitation)

13. Professionalism - Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others



15. Interpersonal and Communication Skills - Interpersonal and Communication Skills – Relationship Development,  $\ldots$ 



14. Professionalism - Professionalism - Medical Ethics



16. Interpersonal and Communication Skills - Interpersonal and Communication Skills – Information Sharing, Gathering, and Technology



### Subspecialty: Pediatric Rehabilitation Medicine

Resident Year	1	2	Total Residents
# of Residents	19	23	42

1. Patient Care - Patient Care - History and Physical Examination for Pediatric Rehabilitation Patients ...



3. Patient Care - Patient Care - Medical Management of Pediatric Rehabilitation Medicine Patients This  $\ldots$ 







Note: Please reference milestone narrative for full text.

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Level 5 Level 4 Level 3 Level 2 Level 1 1 2 Resident Year







6. Medical Knowledge - Medical Knowledge - Physiatric knowledge (medical, functional, and psychosocial) ...



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#### Subspecialty: Pediatric Rehabilitation Medicine

7. Medical Knowledge - Medical Knowledge - Growth and Development This includes: • Personal-social • ...



9. Systems-Based Practice - Systems-Based Practice - Patient Safety: Understands ways to improve health ...



11. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Locates, appraises, ...



Note: Please reference milestone narrative for full text.

8. Systems-Based Practice - Systems-Based Practice – Systems Thinking: demonstrates awareness of and responsiveness ...



10. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Self-directed Learning and Teaching







### Subspecialty: Pediatric Rehabilitation Medicine

13. Professionalism - Professionalism - Demonstrates compassion, integrity, and respect for others, as well ...



15. Interpersonal and Communication Skills - Interpersonal and Communication Skills - Relationship Management



14. Professionalism - Professional Behaviors and Accountability to Self, Patients, Society, and the Profession



16. Interpersonal and Communication Skills - Interpersonal and Communication Skills – Information Gathering and Sharing



### Subspecialty: Spinal Cord Injury Medicine

Resident Year	1	Total Residents
# of Residents	21	21

1. Patient Care - Patient Care - History and Physical Examination of Individuals with Spinal Cord Disorders



#### 3. Patient Care - Patient Care - Medical/Surgical Management of Individuals with Spinal Cord Disorders ...







Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 0 Level 2 Level Resident Year



2. Patient Care - Patient Care - Diagnostic Evaluation of Individuals with

Spinal Cord Disorders This ...





6. Medical Knowledge - Medical Knowledge - Functional Outcomes and Interventions



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#### Subspecialty: Spinal Cord Injury Medicine

7. Systems-Based Practice - Systems-Based Practice - Systems Thinking for Individuals with Spinal Cord  $\dots$ 



# 9. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Self-Directed Learning and Teaching



11. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Quality Improvement ...



Note: Please reference milestone narrative for full text.



10. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement – Locate, Appraise, ...







8. Systems-Based Practice - Systems-Based Practice – Patient Safety for Individuals with Spinal Cord Disorders: ...

#### Subspecialty: Spinal Cord Injury Medicine

13. Professionalism - Professional Behaviors and Accountability to Self, Patients, Society, and the Profession



15. Interpersonal and Communication Skills - Interpersonal and Communication Skills – Information Gathering and Sharing



14. Interpersonal and Communication Skills - Interpersonal and Communication Skills - Relationship Management



### **Subspecialty: Sports Medicine**

Resident Year	1	Total Residents	
# of Residents	32	32	

1. Patient Care - History and Physical Examination: Medical and Musculoskeletal — Patient Care 1



# 3. Patient Care - Team Coverage and Athletic Care: Coverage of Sporting Events, Pre-participation Physical $\ldots$







Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 2 Level 1 I Resident Year











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#### **Subspecialty: Sports Medicine**

7. Systems-Based Practice - Working with Interprofessional Teams (consultants, certified athletic trainers ...



# 9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement ...



11. Professionalism - Compassion, Integrity, Accountability, and Respect for Self and Others — Professionalism 1



Note: Please reference milestone narrative for full text.



## 10. Practice-Based Learning and Improvement - Locate, Appraise, and Assimilate Evidence from Scientific ...



12. Professionalism - Knowledge about and Adherence to the Ethical Principles Relevant to the Practice of Sports Medicine — ...



# 8. Systems-Based Practice - Systems Thinking — Systems-Based Practice 2

### **Subspecialty: Sports Medicine**

13. Interpersonal and Communication Skills - Relationship Development, Teamwork, and Managing Conflict — ...





14. Interpersonal and Communication Skills - Information Sharing, Gathering, and Technology — Interpersonal ...

### **Specialty: Plastic Surgery**

Resident Year	1	2	3	Total Residents
# of Residents	73	77	79	229





3. Patient Care - Wound Care - Patient Care



included in the analysis.





Note: Please reference milestone narrative for full text.



2. Medical Knowledge - Surgical Care — Medical Knowledge



Note: 1 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

4. Medical Knowledge - Wound Care — Medical Knowledge



Note: 1 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Medical Knowledge - Tissue Transfer - Medical Knowledge



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#### **Specialty: Plastic Surgery**

<sup>7.</sup> Patient Care - Congenital Anomalies - Patient Care













Note: 20 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Medical Knowledge - Head and Neck — Medical Knowledge



Note: 9 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Medical Knowledge - Maxillofacial Trauma — Medical Knowledge



Note: Please reference milestone narrative for full text.

#### 8. Medical Knowledge - Congenital Anomalies - Medical Knowledge

#### **Specialty: Plastic Surgery**

<sup>13.</sup> Patient Care - Facial Aesthetics - Patient Care



#### 15. Patient Care - Non-Cancer Breast Surgery - Patient Care





#### 17. Patient Care - Breast Reconstruction - Patient Care



Note: 23 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Non-Cancer Breast Surgery — Medical Knowledge



Note: 5 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.



18. Medical Knowledge - Breast Reconstruction — Medical Knowledge

Note: Please reference milestone narrative for full text.

#### 14. Medical Knowledge - Facial Aesthetics - Medical Knowledge
#### **Specialty: Plastic Surgery**

19. Patient Care - Reconstruction of the Trunk and Perineum — Patient Care











20. Medical Knowledge - Reconstruction of Trunk and Perineum — Medical Knowledge



Note: 4 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

22. Medical Knowledge - Upper Extremity Trauma - Medical Knowledge



Note: 8 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

24. Medical Knowledge - Non-trauma Hand — Medical Knowledge



included in the analysis.

#### **Specialty: Plastic Surgery**

25. Patient Care - Cosmetic Trunk and Lower Extremity - Patient Care



#### 27. Patient Care - Lower Extremity — Patient Care



Note: 5 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.



29. Systems-Based Practice - Patient Safety - Systems-Based Practice

Note: Please reference milestone narrative for full text.



Note: 18 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.

28. Medical Knowledge - Lower Extremity - Medical Knowledge



Note: 3 of 229 residents have a status of "Not Yet Rotated" and are not included in the analysis.



30. Systems-Based Practice - Resource Allocation — Systems-Based Practice

26. Medical Knowledge - Cosmetic Trunk and Lower Extremity — Medical Knowledge

#### **Specialty: Plastic Surgery**

31. Systems-Based Practice - Practice Management — Systems-Based Practice



33. Practice-Based Learning and Improvement - Research and Teaching — Practice-Based Learning and Improvement



35. Professionalism - Personal Accountability - Professionalism



32. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and ...



34. Professionalism - Ethics and Values - Professionalism







### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5		27.3	41.0	
	$\leq$ Level 3.0	30.8	33.1	56.4	74.6
	$\leq$ Level 2.5	43.3	50.8	81.4	
	$\leq$ Level 2.0	38.3	47.2		
	$\leq$ Level 1.5	61.5			
	$\leq$ Level 1.0				
PC02					
	≤ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0				
	≤ Level 3.5			35.7	
	$\leq$ Level 3.0	35.9	41.0	57.5	66.4
	$\leq$ Level 2.5	45.3	55.9	60.4	
	$\leq$ Level 2.0	63.2	56.3		
	$\leq$ Level 1.5	45.3	39.0		
	$\leq$ Level 1.0				
PC03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			50.1	
	$\leq$ Level 3.0	41.5	46.4	70.2	78.4
	≤ Level 2.5	53.7	62.3		
	$\leq$ Level 2.0	61.8	78.5		
	≤ Level 1.5	61.0	66.0		
	$\leq$ Level 1.0	42.4			
PC04					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	≤ Level 3.0			58.2	70.3
	$\leq$ Level 2.5	56.3	62.9	82.3	
	$\leq$ Level 2.0	62.7	47.0		
	≤ Level 1.5	57.6			
	≤ Level 1.0	56.2			

### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0			56.6	65.8
	$\leq$ Level 2.5	46.8	53.0	87.5	
	$\leq$ Level 2.0	56.7	64.3	85.2	
	$\leq$ Level 1.5	69.5	69.0		
	≤ Level 1.0	57.1			
PC06					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				
	≤ Level 3.0		39.8	63.0	71.5
	≤ Level 2.5	41.3	52.9	85.5	
	≤ Level 2.0	52.2	59.3	79.7	
	≤ Level 1.5	72.4	50.1	10.1	
	≤ Level 1.0		39.7		
PC07					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				
	≤ Level 3.0		36.9	48.9	66.4
	≤ Level 2.5	45.1	46.5	73.2	70.3
	≤ Level 2.0	56.3	73.5	75.6	43.2
	≤ Level 1.5	59.2	39.8		
	$\leq$ Level 1.0	58.1	25.9		
PC08					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			33.6	
	$\leq$ Level 3.0	34.5	37.6	48.0	56.7
	$\leq$ Level 2.5	42.3	45.7	84.4	64.1
	$\leq$ Level 2.0	46.5	60.7		
	≤ Level 1.5 ≤ Level 1.0	26.7 49.9			

### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC09					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			34.9	
	$\leq$ Level 3.0	38.5	37.7	50.1	62.9
	$\leq$ Level 2.5	42.5	46.7	81.1	67.1
	$\leq$ Level 2.0	48.7	56.4	84.0	31.7
	$\leq$ Level 1.5	32.1			
	≤ Level 1.0				
PC10					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				
	≤ Level 3.0	36.7		48.1	59.4
	≤ Level 2.5	46.5	52.5	70.3	83.5
	≤ Level 2.0	45.6	34.8	68.9	30.7
	≤ Level 1.5	39.7	57.5		
	≤ Level 1.0	36.8			
PC11					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			48.3	54.3
	≤ Level 3.0	44.7	48.8	61.9	68.0
	≤ Level 2.5	49.1	55.9	84.5	
	≤ Level 2.0	56.8	58.5		
	≤ Level 1.5	39.8	12.9		
	≤ Level 1.0	17.2			
PC12					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	$\leq$ Level 3.5			52.3	
	≤ Level 3.0	50.0	49.8	59.8	68.5
	≤ Level 2.5	49.5	59.7	77.9	85.4
	≤ Level 2.0	60.5	63.4	70.2	00.1
	≤ Level 1.5	62.8	39.7	23.8	
	$\leq$ Level 1.0	21.0	0017	20.0	

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### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PC13					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0		29.7	38.1	53.2
	≤ Level 2.5	31.2	35.2	44.0	54.1
	$\leq$ Level 2.0	33.1	33.4	63.2	
	≤ Level 1.5	42.2	49.8		
	≤ Level 1.0	67.7			
PC14					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				61.1
	≤ Level 3.0		48.5	69.4	82.0
	≤ Level 2.5	55.8	53.6	92.9	02.0
	≤ Level 2.0	62.9	83.0		
	$\leq$ Level 1.5	72.4	48.2		
	$\leq$ Level 1.0		1012		
MK01					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				37.1
	$\leq$ Level 3.0	21.0	19.0	18.0	22.2
	$\leq$ Level 3.0 $\leq$ Level 2.5	30.7	23.7	10.0	22.2
	$\leq$ Level 2.0	45.3	29.1		
	$\leq$ Level 1.5	25.3	29.1		
	≤ Level 1.0	20.0	27.1		
MK02					
	≤ Level 5.0				
	$\leq$ Level 5.0				
	$\leq$ Level 4.0			02.0	00.0
	≤ Level 3.5	01.0	00.0	23.0	28.8
	≤ Level 3.0	21.0	22.2	32.9	40.7
	$\leq$ Level 2.5	25.8	35.9	32.6	30.5
	≤ Level 2.0	37.4	35.2	65.9	
	≤ Level 1.5	18.7			

### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
MK03					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				44.5
	$\leq$ Level 3.0	32.0	35.4	57.3	81.6
	$\leq$ Level 2.5	43.7	44.9	81.0	
	$\leq$ Level 2.0	47.5	74.1		
	$\leq$ Level 1.5	73.9	70.4		
	≤ Level 1.0	59.6			
MK04					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0		41.5	50.5	58.3
	$\leq$ Level 2.5	41.5	52.3	77.1	
	≤ Level 2.0	55.2	45.3	66.2	
	≤ Level 1.5	56.2	48.8		
	$\leq$ Level 1.0	49.8			
MK05					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				50.6
	≤ Level 3.0		41.0	60.5	72.3
	≤ Level 2.5	45.7	50.0	62.9	81.2
	≤ Level 2.0	56.6	61.0	71.4	68.3
	≤ Level 1.5	77.3	49.8		
	$\leq$ Level 1.0	61.7			
MK06					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5				
	≤ Level 3.0	37.3	34.8	64.8	73.4
	≤ Level 2.5	37.5	45.4	76.5	
	≤ Level 2.0	48.9	58.6		
	≤ Level 1.5	61.0	47.5		
	≤ Level 1.0	50.1			

### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
MK07					
	≤ Level 5.0				
	≤ Level 4.5				
	≤Level 4.0				
	≤ Level 3.5				
	≤ Level 3.0			49.5	69.2
	≤ Level 2.5	35.9	47.9	62.8	65.6
	≤ Level 2.0	49.8	60.2	76.1	73.8
	≤ Level 1.5	65.4	61.1		
	$\leq$ Level 1.0	56.6	49.4		
MK08					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	≤ Level 3.0	25.7	28.3	59.5	59.9
	$\leq$ Level 2.5	34.2	35.4	72.7	73.2
	$\leq$ Level 2.0	37.6	55.3	12.1	70.2
	$\leq$ Level 1.5	53.4	00.0		
	$\leq$ Level 1.0	00.4			
MK09					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			28.9	
	$\leq$ Level 3.0	23.3	32.8	51.2	65.8
	$\leq$ Level 2.5	35.5	36.7	81.8	58.4
	$\leq$ Level 2.0	40.0	32.5	63.1	
	$\leq$ Level 1.5	43.6			
	≤ Level 1.0				
MK10					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5				
	$\leq$ Level 3.0	19.6		43.2	61.2
	≤ Level 2.5	26.4	35.3	25.0	23.4
	≤ Level 2.0	33.7	40.0	47.3	32.4
	≤ Level 1.5	35.8	39.8		
	≤ Level 1.0	15.3			

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### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1,	Yr1,	Yr2,	Yr2,
		Mid-Year	Year-End	Mid-Year	Year-End
MK11					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	$\leq$ Level 3.5			51.5	56.7
	$\leq$ Level 3.0	43.6	45.7	67.6	75.5
	$\leq$ Level 2.5	41.6	60.2	87.0	91.4
	$\leq$ Level 2.0	48.3	59.8		
	$\leq$ Level 1.5	48.5	69.0		
	$\leq$ Level 1.0	42.1			
MK12					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			47.9	54.0
	≤ Level 3.0	44.3	43.7	66.9	77.0
	≤ Level 2.5	40.0	53.7	83.1	77.3
	≤ Level 2.0	54.9	62.2	81.3	65.3
	≤ Level 1.5	80.9	37.8		
	≤ Level 1.0	79.9			
MK13					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				
	≤ Level 3.5				
	$\leq$ Level 3.0		25.0	38.2	52.1
	$\leq$ Level 2.5	32.2	36.0	48.5	44.9
	$\leq$ Level 2.0	40.3	28.9	54.5	12.7
	≤ Level 2.0 ≤ Level 1.5	36.5	20.9	04.0	12.7
	$\leq$ Level 1.0	58.6	22.4		
MK14					
MK14	Clovel 50				
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5		- 00.0	- 20.0	- 04 5
	≤ Level 3.0		33.6	72.6	81.5
	≤ Level 2.5	36.1	50.2	91.3	
	≤ Level 2.0	51.7	74.9		
	≤ Level 1.5	51.4	52.4		
	$\leq$ Level 1.0	41.7			

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### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
SBP01					
	$\leq$ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				30.0
	$\leq$ Level 3.5		29.7	33.9	37.6
	$\leq$ Level 3.0		31.4	50.2	56.3
	$\leq$ Level 2.5	34.2	35.6	38.4	41.6
	$\leq$ Level 2.0	49.5	50.5	34.3	31.6
	$\leq$ Level 1.5	63.9			
	≤ Level 1.0				
SBP02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5			33.4	38.3
	≤ Level 3.0	32.0	35.2	50.2	57.8
	≤ Level 2.5	39.3	42.6	50.5	
	≤ Level 2.0	51.5	45.8		
	≤ Level 1.5	47.7			
	≤ Level 1.0				
SBP03					
	≤ Level 5.0				
	≤ Level 4.5				
	$\leq$ Level 4.0			38.4	39.1
	≤ Level 3.5		38.5	40.3	44.2
	≤ Level 3.0		40.2	52.7	57.4
	≤ Level 2.5	46.7	49.0	70.8	
	≤ Level 2.0	54.0	50.7		
	≤ Level 1.5	70.5	41.9		
	$\leq$ Level 1.0	52.5			
PBLI01					
	≤ Level 5.0				
	$\leq$ Level 4.5				
	$\leq$ Level 4.0				20.0
	$\leq$ Level 3.5		30.5	34.7	39.4
	≤ Level 3.0		32.4	43.4	50.5
	$\leq$ Level 2.5	42.3	39.4	-10.4	
	$\leq$ Level 2.0	63.2	56.4		
	$\leq$ Level 1.5	00.2	32.7		
	$\leq$ Level 1.0		02.1		

### Specialty: Plastic Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End
PBLI02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				36.0
	≤ Level 3.5		34.6	37.6	46.6
	≤ Level 3.0	37.9	37.3	53.9	64.6
	≤ Level 2.5	45.9	51.5	89.4	
	≤ Level 2.0	64.6	74.7		
	≤ Level 1.5	82.5	67.7		
	≤ Level 1.0				
PROF01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5		36.1	45.3	54.4
	≤ Level 3.0	42.2	42.1	63.3	82.6
	≤ Level 2.5	36.6	57.9		
	≤ Level 2.0	47.2	65.2		
	≤ Level 1.5	44.1			
	$\leq$ Level 1.0				
PROF02					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5	32.9	35.5	46.3	57.0
	≤ Level 3.0	43.1	40.3	56.9	65.5
	≤ Level 2.5	48.7	64.0	70.7	69.4
	≤ Level 2.0	57.4	41.6		
	≤ Level 1.5	44.6			
	$\leq$ Level 1.0	38.5			
ICS01					
	≤ Level 5.0				
	≤ Level 4.5				
	≤ Level 4.0				
	≤ Level 3.5		35.7	46.4	57.6
	≤ Level 3.0	42.1	40.6	62.0	77.1
	≤ Level 2.5	45.1	61.8	81.1	
	≤ Level 2.0	54.7	43.7		
	≤ Level 1.5				
	≤ Level 1.0				

#### Specialty: Plastic Surgery - Integrated

1. Patient Care - Surgical Care - Patient Care

Resident Year	1	2	3	4	5	6	Total Residents
# of Residents	173	174	167	159	153	137	963



3. Patient Care - Wound Care — Patient Care



Note: 33 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.

0 Level 5 Level 4 Level 3 0 ο 0 0 Level 2 0 0 Level 0 2 3 4 5 **Resident Year** 

#### 2. Medical Knowledge - Surgical Care — Medical Knowledge

Note: 19 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

4. Medical Knowledge - Wound Care - Medical Knowledge



Note: 33 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Medical Knowledge - Tissue Transfer - Medical Knowledge



included in the analysis.

#### Specialty: Plastic Surgery - Integrated

7. Patient Care - Congenital Anomalies - Patient Care







Note: 130 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.



11. Patient Care - Maxillofacial Trauma - Patient Care



Note: 174 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Medical Knowledge - Head and Neck — Medical Knowledge



Note: 129 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Medical Knowledge - Maxillofacial Trauma — Medical Knowledge



Note: 118 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

8. Medical Knowledge - Congenital Anomalies — Medical Knowledge

#### **Specialty: Plastic Surgery - Integrated**

<sup>13.</sup> Patient Care - Facial Aesthetics - Patient Care















Note: 204 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Non-Cancer Breast Surgery — Medical Knowledge



Note: 83 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.



18. Medical Knowledge - Breast Reconstruction — Medical Knowledge

Note: Please reference milestone narrative for full text.

#### 14. Medical Knowledge - Facial Aesthetics — Medical Knowledge

Note: 89 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### Specialty: Plastic Surgery - Integrated

19. Patient Care - Reconstruction of the Trunk and Perineum — Patient Care







Note: 115 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.





20. Medical Knowledge - Reconstruction of Trunk and Perineum — Medical Knowledge



Note: 81 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

22. Medical Knowledge - Upper Extremity Trauma - Medical Knowledge



Note: 107 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

24. Medical Knowledge - Non-trauma Hand — Medical Knowledge



Note: 127 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### **Specialty: Plastic Surgery - Integrated**

25. Patient Care - Cosmetic Trunk and Lower Extremity - Patient Care





27. Patient Care - Lower Extremity - Patient Care



Note: 80 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

Level 5 o

29. Systems-Based Practice - Patient Safety - Systems-Based Practice





26. Medical Knowledge - Cosmetic Trunk and Lower Extremity - Medical

Note: 142 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.

28. Medical Knowledge - Lower Extremity - Medical Knowledge



Note: 68 of 963 residents have a status of "Not Yet Rotated" and are not included in the analysis.



30. Systems-Based Practice - Resource Allocation - Systems-Based Practice

#### Specialty: Plastic Surgery - Integrated

31. Systems-Based Practice - Practice Management — Systems-Based Practice



33. Practice-Based Learning and Improvement - Research and Teaching - Practice-Based Learning and Improvement



35. Professionalism - Personal Accountability - Professionalism



32. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and  $\ldots$ 



34. Professionalism - Ethics and Values - Professionalism







#### Specialty: Plastic Surgery - Integrated

	-	NA	N 4	N O	N O	N O	N O		N 4	V F	N/F
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-En
PC01											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									31.9	39.4
	$\leq$ Level 3.0			15.5	15.5	18.4	21.6	31.9	39.3	49.9	77.6
	$\leq$ Level 2.5		14.4	16.0	18.6	28.7	40.0	66.9	62.3	74.0	
	$\leq$ Level 2.0		14.8	20.2	39.1	53.5	71.4	54.9	35.6		
	$\leq$ Level 1.5	15.1	19.2	25.7	68.8	69.8	77.0	53.4			
	$\leq$ Level 1.0	25.2	30.2								
PC02											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									26.8	35.7
	$\leq$ Level 3.0								35.4	48.9	50.4
	$\leq$ Level 2.5			17.9		31.0	31.6	42.0	35.4		
	$\leq$ Level 2.0			22.4	26.4	42.5	43.7	25.1			
	$\leq$ Level 1.5		25.1	28.4		37.7					
	$\leq$ Level 1.0	30.0	23.3			55.7					
PC03											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5								20.6		37.9
	$\leq$ Level 3.0							32.8	39.7	51.9	76.9
	$\leq$ Level 2.5					28.6	31.8	49.4	53.6	80.0	
	$\leq$ Level 2.0			22.7	30.1	47.0	51.5	69.9	40.7		
	$\leq$ Level 1.5			29.7	45.3	57.3	64.7				
	$\leq$ Level 1.0	28.3	23.7	31.5	44.8						
PC04											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									40.1	
	$\leq$ Level 3.0					32.9	33.5	42.1	42.6	55.9	72.0
	$\leq$ Level 2.5					36.2	43.2	46.0	63.5	66.9	64.4
	$\leq$ Level 2.0				37.9	44.2	47.7	55.8	58.2	70.1	
	$\leq$ Level 1.5		39.8	34.2	37.0	51.3	67.2	58.0	55.2		
	≤ Level 1.0	37.4	42.1	50.8	40.3	62.4	69.2				

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#### Specialty: Plastic Surgery - Integrated

				1							
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
PC05											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									47.4	
	$\leq$ Level 3.0							40.3	46.3	70.6	87.0
	$\leq$ Level 2.5					39.1	51.0	62.4	84.5	86.9	
	$\leq$ Level 2.0			34.4	38.0	42.8	56.0	84.9	66.9		
	$\leq$ Level 1.5		35.4	27.8	33.7	38.0	77.7	73.4	58.3		
	$\leq$ Level 1.0	41.2	50.3	12.9	16.1	38.4					
DCAG											
PC06	≤Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0 $\leq$ Level 3.5										
	$\leq$ Level 3.5 $\leq$ Level 3.0							047	40.0	74.0	074
						00 F	00.0	34.7	42.8	74.2	87.4
	$\leq$ Level 2.5			00.1	05.0	29.5	36.2	45.1	67.9	85.3	
	≤ Level 2.0		00.0	28.1	25.8	31.5	48.2	73.6	79.7		
	≤ Level 1.5	40.5	33.9	23.9	24.4	41.8	78.5		54.2		
	$\leq$ Level 1.0	46.5	47.2	32.4	38.6	52.7					
PC07											
	≤Level 5.0										
	$\leq$ Level 4.5										
	≤Level 4.0										
	≤ Level 3.5										51.0
	$\leq$ Level 3.0								45.3	63.1	75.2
	$\leq$ Level 2.5					39.2	42.7	60.7	71.7	79.0	
	$\leq$ Level 2.0				41.3	44.0	46.3	77.9	76.4	70.3	
	$\leq$ Level 1.5		46.1	48.4	44.5	54.9	59.9	75.7	70.1	59.2	
	$\leq$ Level 1.0	48.9	48.3	46.5	53.2	41.4	39.5	69.5	59.5	00.2	
PC08											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										
	$\leq$ Level 3.0							25.0	35.3	48.7	69.2
	$\leq$ Level 2.5						33.2	34.8	58.0	76.6	
	$\leq$ Level 2.0			21.8		34.5	47.0	35.2	36.6		
	$\leq$ Level 1.5	25.2	24.2	17.7	22.1	60.1	47.7				
	$\leq$ Level 1.0	24.9	37.0			42.1					

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#### Specialty: Plastic Surgery - Integrated

					1						
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-Enc
PC09											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										
	$\leq$ Level 3.0							24.5	28.3	46.7	57.7
	$\leq$ Level 2.5						45.6	36.2	38.3	64.9	
	$\leq$ Level 2.0				31.3	37.7	40.0	30.1			
	$\leq$ Level 1.5		21.9	24.3	22.8	47.9	67.2	63.6			
	$\leq$ Level 1.0	17.4	27.0	36.6	17.2	87.0					
PC10											
	≤Level 5.0										
	≤ Level 4.5										
	≤ Level 4.0										
	≤Level 3.5										
	≤Level 3.0									52.6	59.4
	≤Level 2.5					25.2	29.2	31.6	57.8		
	≤Level 2.0			25.0	24.0	29.8	28.3	41.4			
	≤Level 1.5	25.1	24.0	23.6	14.5	24.9	82.6	58.8			
	≤Level 1.0	48.1	45.3	32.8	35.0	78.1					
PC11											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	≤ Level 3.5										
	$\leq$ Level 3.0				36.1	35.4		45.5	56.1	69.7	71.7
	$\leq$ Level 2.5			35.7	39.3	44.7	49.8	61.0	62.0		
	$\leq$ Level 2.0		38.5	40.8	45.1	50.3	55.4	50.9	25.0		
	$\leq$ Level 1.5	34.5	39.2	37.6	57.9	50.0	83.8	50.0			
	$\leq$ Level 1.0	42.3	38.2	34.5	75.2	86.3	80.8				
PC12											
-	≤Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										64.2
	$\leq$ Level 3.0							44.2	50.6	75.7	80.0
	$\leq$ Level 2.5				38.4	43.0	47.7	62.4	67.5	81.1	
	$\leq$ Level 2.0		36.2	36.9	44.6	46.5	54.0	47.8	53.0	51.6	
	$\leq$ Level 1.5		36.8	32.2	55.8	58.1	84.6	41.3	58.6		
	$\leq$ Level 1.0	45.3	41.2	38.8	45.1	66.9	50.0				

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#### Specialty: Plastic Surgery - Integrated

	1	1	1	1	1	1					
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
PC13											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										46.8
	$\leq$ Level 3.0							32.8		58.0	86.2
	$\leq$ Level 2.5					32.7	33.5	44.7	62.1	72.2	
	$\leq$ Level 2.0				32.2	35.9	41.3	38.8	27.7	59.2	
	$\leq$ Level 1.5		36.6	33.3	33.0	45.4	53.3	58.5	39.8		
	$\leq$ Level 1.0	49.9	48.4	34.8	47.5	40.2					
PC14											
	≤Level 5.0										
	$\leq$ Level 3.0 $\leq$ Level 4.5										
	$\leq$ Level 4.0										
	≤ Level 4.0										
	≤ Level 3.0							29.6	38.4	58.7	72.8
	$\leq$ Level 2.5					29.6	36.5	44.9	61.9	00.1	72.0
	$\leq$ Level 2.0		29.5		31.1	45.4	54.7	51.5	34.0		
	$\leq$ Level 1.5	27.1	36.2	35.5	49.0	68.6	93.4	64.0	00		
	≤ Level 1.0	31.3	53.0	38.5	64.7	61.4					
					•	• • • •					
MK01											
	≤Level 5.0										
	≤Level 4.5										
	≤Level 4.0										
	≤Level 3.5						19.6	23.1	27.2	33.3	42.5
	≤Level 3.0				19.2	20.6	24.3	33.9	43.8	66.6	85.8
	≤Level 2.5	16.8	16.7	17.8	19.6	28.2	39.6	53.9	75.2		
	≤Level 2.0	17.4	18.5	22.2	37.8	35.4	65.3				
	≤Level 1.5	22.4	24.5	24.4	51.2	69.5					
	$\leq$ Level 1.0	33.7	42.3	50.5	32.7						
MK02											
MK02											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0									01.0	40.0
	$\leq$ Level 3.5					10.0	00.0	00.0		31.2	40.3
	$\leq$ Level 3.0	10.0	10.0	10.1	01.0	18.0	20.3	28.0	FRO	62.8	84.7
	$\leq$ Level 2.5	18.3	16.9	18.1	21.0	28.7	37.3	46.9	57.9	65.3	
	$\leq$ Level 2.0	19.2	17.0	21.4	28.9	41.4	58.8	66.6	65.3		
	$\leq$ Level 1.5	21.1	23.2	34.9	43.9	36.3	52.5				·
	$\leq$ Level 1.0	33.3	39.0	50.8	50.8						

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#### Specialty: Plastic Surgery - Integrated

				1							_
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
MK03											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										
	$\leq$ Level 3.0						15.1	26.3		57.7	
	$\leq$ Level 2.5				14.1	20.3	26.9	40.1	46.6		
	$\leq$ Level 2.0			14.1	22.7	32.0	35.0	42.2	45.7		
	$\leq$ Level 1.5		18.7	27.1	42.8	51.3	29.4				
	$\leq$ Level 1.0	25.2	31.5	31.4	39.5	37.6					
MK04											
	≤Level 5.0										
	$\leq$ Level 3.0								28.3	28.7	29.4
	$\leq$ Level 4.0								28.3	33.8	36.3
	$\leq$ Level 3.5					27.8	27.4	32.1	34.3	45.5	55.0
	$\leq$ Level 3.0					28.8	31.4	40.6	46.6	74.3	00.0
	$\leq$ Level 2.5				30.9	30.6	33.9	46.6	52.2	74.0	
	$\leq$ Level 2.0			29.0	35.2	38.6	44.9	42.5	44.7		
	$\leq$ Level 1.5		31.3	42.6	38.1	49.2	26.4	72.0			
	$\leq$ Level 1.0	41.1	40.9	46.2	34.5	52.7	20.4				
		41.1	40.5	40.2	04.0	52.7					
MK05											
	≤Level 5.0										
	$\leq$ Level 4.5										
	≤Level 4.0									29.4	31.2
	≤ Level 3.5									47.3	58.5
	$\leq$ Level 3.0						27.6	32.5	49.7	69.8	
	$\leq$ Level 2.5				26.7	31.0	34.4	59.4	57.5	74.5	
	$\leq$ Level 2.0			25.0	30.9	40.0	47.6	45.2	80.0		
	$\leq$ Level 1.5		26.6	29.9	32.2	47.7	29.4	46.5	60.4		
	$\leq$ Level 1.0	27.6	31.9	36.1	48.3	43.3					
MK06											
	≤ Level 5.0										
	≤ Level 4.5										
	≤ Level 4.0										
	≤ Level 3.5										
	≤ Level 3.0						23.6	30.6	37.6	61.9	78.0
	≤ Level 2.5					26.5	32.1	38.9	52.6	81.7	
	$\leq$ Level 2.0			20.0	25.7	26.0	33.8	48.5	49.0		
	$\leq$ Level 1.5		23.5	17.4	23.7	22.1	18.7				
	$\leq$ Level 1.0	24.4	27.7	29.4	34.7						

#### Specialty: Plastic Surgery - Integrated

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
MK07											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										53.9
	≤ Level 3.0						26.1	39.6	48.3	67.4	80.1
	$\leq$ Level 2.5					27.0	32.3	52.8	63.7	66.6	
	$\leq$ Level 2.0				26.7	31.5	42.7	66.6	58.8	46.0	
	$\leq$ Level 1.5		27.3	23.1	34.3	44.7	55.2	53.1	31.3		
	$\leq$ Level 1.0	40.7	31.6	47.3	58.1	35.3					
MK08											
	≤Level 5.0										
	$\leq$ Level 3.0 $\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										38.0
	$\leq$ Level 3.0							23.9	31.2	59.3	86.0
	$\leq$ Level 2.5					20.5	25.9	33.3	53.0	70.7	61.9
	$\leq$ Level 2.0			16.6	27.2	39.0	33.1	53.2	00.0	10.1	01.0
	$\leq$ Level 1.5	16.3	19.3	9.4	22.1	31.2	80.8	00.2			
	$\leq$ Level 1.0	17.5	21.2	8.5	11.9	22.6	00.0				
		17.0	21.2	0.0	11.0	22.0					
MK09											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5										
	$\leq$ Level 3.0								27.4	50.3	60.3
	$\leq$ Level 2.5			11.8		17.9	20.5	39.0	56.5	66.1	
	$\leq$ Level 2.0			13.0	17.4	27.5	36.3	66.9	40.1		
	$\leq$ Level 1.5	14.9	16.1	17.7	18.9	19.8					
	$\leq$ Level 1.0	13.8	19.7	15.9							
MK10											
	≤Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5					24.4					
	$\leq$ Level 3.0					25.4	24.0		48.8	65.3	71.1
	$\leq$ Level 2.5					28.4	37.1	43.4	65.2		
	$\leq$ Level 2.0				40.1	31.4	28.9	46.7	45.7		
	$\leq$ Level 1.5		25.3	17.0	21.6	44.3	67.2				
	$\leq$ Level 1.0	31.8	32.0	35.2	48.6	35.8	5112				

#### Specialty: Plastic Surgery - Integrated

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
MK11											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									47.0	
	≤Level 3.0				28.1	30.0	31.8	46.8	54.5	77.1	78.5
	$\leq$ Level 2.5		28.5	27.6	31.1	36.8	45.8	61.4	64.6	87.7	
	$\leq$ Level 2.0		28.9	29.8	38.2	41.5	56.0	46.0	46.1		
	$\leq$ Level 1.5	25.1	34.8	33.5	45.7	43.0	59.3				
	$\leq$ Level 1.0	37.6	34.1	38.7	68.8	64.1					
MK12											
	≤Level 5.0										
	$\leq$ Level 3.0 $\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									55.8	65.0
	$\leq$ Level 3.0						39.8	52.3	58.3	79.2	89.4
	$\leq$ Level 2.5		29.4	30.2	35.4	41.2	46.4	62.1	69.1	89.2	00.4
	$\leq$ Level 2.0		30.1	30.5	41.0	49.9	61.9	82.8	83.8	00.2	
	$\leq$ Level 1.5		35.3	35.7	47.3	48.0	88.0	50.0	00.0		
	$\leq$ Level 1.0	36.5	38.1	49.8	60.6						
MK13											
	≤Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									27.0	
	≤ Level 3.0						21.6	27.8	32.1	51.7	59.6
	$\leq$ Level 2.5				20.2	20.6	28.1	38.8	40.0	63.0	
	$\leq$ Level 2.0			20.3	19.4	20.2	28.5	25.0	19.7		
	$\leq$ Level 1.5	19.6	22.0	19.6	19.6	21.8	31.9				
	$\leq$ Level 1.0	23.0	26.3	15.3	22.8	19.6					
MK14											
	≤Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5									37.8	
	$\leq$ Level 3.0						26.3	33.8	53.0	72.0	92.1
	$\leq$ Level 3.0 $\leq$ Level 2.5				24.6	26.7	34.9	52.0	74.8	72.0	02.1
	$\leq$ Level 2.0	27.1		26.6	24.8	29.3	37.8	66.3	74.5		
	$\leq$ Level 1.5	27.0	30.9	27.6	29.6	54.4	51.1	00.0			
	$\leq$ Level 1.0	29.1	27.7	33.6	48.2	47.5	01.1				

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#### Specialty: Plastic Surgery - Integrated

	1	1	1		1	1					
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
SBP01											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5						17.6	19.3	22.9	28.1	33.5
	$\leq$ Level 3.0			17.7	16.9	19.1	22.5	25.7	34.2	46.4	61.7
	$\leq$ Level 2.5	16.4	16.5	19.2	23.0	31.9	38.4	53.5	24.7	67.2	
	$\leq$ Level 2.0	15.0	15.8	22.5	30.2	44.2	50.6	23.3			
	$\leq$ Level 1.5	16.3	26.8	37.1	54.9	72.1					
	$\leq$ Level 1.0	22.1	33.5								
SBP02											
JJF VZ	≤Level 5.0										
	$\leq$ Level 3.0 $\leq$ Level 4.5										
	$\leq$ Level 4.0										
	≤ Level 3.5					17.7	18.4	21.9			
	$\leq$ Level 3.0			18.8	18.8	19.0	21.9	29.9	39.3	64.9	91.8
	$\leq$ Level 3.0	18.1	19.0	22.4	21.6	29.9	40.5	47.2	25.0	60.0	91.0
	$\leq$ Level 2.0	18.6	20.5	24.0	25.2	36.6	55.6	41.0	61.3	00.0	
	$\leq$ Level 2.0 $\leq$ Level 1.5	18.1	20.5	32.5	49.6	63.5	00.0	41.0	01.5		
	$\leq$ Level 1.0	24.3	36.1	50.9	50.7	57.7					
	≤ Level 1.0	24.3	30.1	50.9	50.7	57.7					
SBP03											
	≤Level 5.0										
	≤Level 4.5										
	≤Level 4.0										
	≤Level 3.5									31.7	39.0
	≤Level 3.0							31.4		66.7	70.3
	≤Level 2.5			25.3	24.7	29.4	33.4	41.5	54.6	61.1	
	≤Level 2.0		21.9	28.0	24.4	37.2	63.1	58.4	72.9		
	≤Level 1.5	21.9	25.7	28.3	34.4						
	$\leq$ Level 1.0	28.6	40.8	61.0	79.5						
PBLI01											
	≤ Level 5.0							(50			
	$\leq$ Level 4.5							17.8			10.1
	≤ Level 4.0							18.0		00.1	19.4
	≤ Level 3.5			10.0				22.8	01.0	32.1	44.7
	≤ Level 3.0			18.9	00.0	0.5.0		31.5	31.3	48.1	72.0
	≤ Level 2.5		19.4	21.7	22.9	27.8	44.4	40.2	57.9	79.5	
	≤ Level 2.0		21.7	24.0	22.6	35.2	47.3	26.8			
	≤ Level 1.5	21.5	20.4	27.6	50.5	46.8	45.4				
	$\leq$ Level 1.0	20.2	29.0	56.9	72.6	40.0					

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#### Specialty: Plastic Surgery - Integrated

	1	1		1							
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End	Yr5, Mid-Year	Yr5, Year-End
PBLI02											
	$\leq$ Level 5.0										
	$\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5				19.0		19.7	22.4	26.7	31.6	
	$\leq$ Level 3.0		18.3	19.4	18.3	21.4	23.5	31.0	34.9	52.5	67.3
	$\leq$ Level 2.5		19.5	21.7	20.8	26.6	33.4	39.9	49.8	41.0	79.7
	$\leq$ Level 2.0		20.9	22.9	26.2	35.5	47.1	43.1	62.9	53.4	
	$\leq$ Level 1.5	19.1	19.9	23.2	20.1	36.1	53.6				
	$\leq$ Level 1.0	22.7	25.8	53.6	42.0	27.7					
PROF01											
FRUFUI	≤Level 5.0										
	$\leq$ Level 3.0 $\leq$ Level 4.5										
	$\leq$ Level 4.0										
	$\leq$ Level 3.5			20.0				24.5		36.7	
	$\leq$ Level 3.0			22.0		24.4		42.4	44.9	58.7	78.6
	$\leq$ Level 2.5		22.3	23.2	27.6	33.3	43.0	37.5	37.0	67.1	67.6
	$\leq$ Level 2.0		23.3	21.3	31.6	37.3	42.8	24.5	24.6	50.6	00
	$\leq$ Level 1.5	25.2	31.7	21.8	33.6	49.7	34.1				
	$\leq$ Level 1.0	27.0	28.6				<b>U</b>				
PROF02											
	≤Level 5.0										
	≤Level 4.5										
	≤Level 4.0										
	≤Level 3.5			24.4	23.7	25.0	26.4	30.6	33.7	42.3	67.0
	≤ Level 3.0		22.9	24.3	24.7	26.8	29.6	39.3	49.3	54.8	83.5
	$\leq$ Level 2.5		28.2	29.0	32.5	35.9	44.2	57.7	53.6	71.2	78.5
	$\leq$ Level 2.0	25.0	28.7	26.5	32.6	37.8	47.4	48.3	32.2	76.9	
	$\leq$ Level 1.5	33.4	30.2	21.3	65.4	65.5	57.7	57.9	52.4	54.6	
	$\leq$ Level 1.0	27.6	35.7			51.7	38.0				
ICS01											
10301	≤Level 5.0										
	$\leq$ Level 4.5							01.0			
	$\leq$ Level 4.0 $\leq$ Level 3.5							21.0		11.2	48.5
				24.0	04.1	05.0	00.2	26.3	10.0	41.3	
	$\leq$ Level 3.0			24.0	24.1	25.2	29.3	41.1	48.3	68.5 87.4	89.2
	$\leq$ Level 2.5		07.9	26.4	29.7 27.1	39.6 370	55.0	50.5	53.5 21.8	87.4	54.4
	$\leq$ Level 2.0	0.0.1	27.3	22.9	27.1	37.9	60.6	41.6	21.8		
	$\leq$ Level 1.5 $\leq$ Level 1.0	28.1 31.4	19.7 25.8	23.8	42.5	36.0 51.7			33.3		

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#### **Subspecialty: Hand Surgery**

Resident Year	1	Total Residents
# of Residents	23	23

1. Patient Care - Acquired Conditions (Tumor, Dupuytren's, tenosynovitis, vascular, contractures) - Patient Care







#### 3. Patient Care - Arthritis - Patient Care







Note: Please reference milestone narrative for full text.

# 6. Medical Knowledge - Congenital - Medical Knowledge



# 4. Medical Knowledge - Arthritis - Medical Knowledge



#### Subspecialty: Hand Surgery





#### 9. Patient Care - Trauma: Bone, Joint - Patient Care









10. Medical Knowledge - Trauma: Bone, Joint - Medical Knowledge







Note: Please reference milestone narrative for full text.

#### 8. Medical Knowledge - Nerve — Medical Knowledge

#### **Subspecialty: Hand Surgery**

13. Patient Care - Tendon - Patient Care



#### 15. Systems-Based Practice - Patient Safety, Resource Allocation, Practice Management — Systems-Based Practice







14. Medical Knowledge - Tendon - Medical Knowledge Level 5 Level 4 Level 3 Level 2 Level 1 **Resident Year** 

16. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and ...







#### **Specialty: Preventive Medicine (Aerospace Medicine)**

Resident Year	1	2	Total Residents
# of Residents	18	25	43

1. Patient Care - Emergency Preparedness and Response: Apply skills in Emergency Preparedness and Response - Patient Care 1



3. Patient Care - Inform and Educate : Inform and educate populations about health threats and risks - Patient Care 3







Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Community Health: Monitor, diagnose, and investigate community health problems - Patient Care 2









4. Patient Care - Policies and Plans : Develop policies and plans to

#### Specialty: Preventive Medicine (Aerospace Medicine)

7. Patient Care - Develop and applying medical standards, grant exceptions - Patient Care 7



9. Patient Care - Identifying appropriate patients for aeromedical transport and provide guidance for safe ...



11. Patient Care - Advise in techniques for sustaining and enhancing human performance - Patient Care 11



8. Patient Care - Educate passengers and physicians about the hazards of flight with certain medical conditions ...



10. Patient Care - Advise in the operational use of aerospace biomedical equipment - Patient Care 10







#### Specialty: Preventive Medicine (Aerospace Medicine)

13. Patient Care - Conduct aeromedical research - Patient Care 13



15. Patient Care - For space-based programs only : Apply medical care standards and programs, evaluating ...



17. Medical Knowledge - Environmental Health - Medical Knowledge 2



Note: Please reference milestone narrative for full text.



14. Patient Care - For all programs : Space medicine knowledge - Patient Care 14

16. Medical Knowledge - Behavioral Health - Medical Knowledge 1







#### Specialty: Preventive Medicine (Aerospace Medicine)

19. Medical Knowledge - Epidemiology - Medical Knowledge 4



21. Systems-Based Practice - Incorporate considerations of cost awareness and risk-benefit analysis in patient ...



23. Practice-Based Learning and Improvement - Identify strengths, deficiencies, and limits in one's knowledge  $\ldots$ 



Note: Please reference milestone narrative for full text.

20. Systems-Based Practice - Work and coordinate patient care effectively in various health care delivery ...



22. Systems-Based Practice - Work in interprofessional teams to enhance patient safety and improve patient ...



24. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness  $\ldots$ 



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#### Specialty: Preventive Medicine (Aerospace Medicine)

25. Professionalism - Accountability to patients, society and the profession - Professionalism 2



27. Interpersonal and Communication Skills - Maintain comprehensive, timely and legible medical records, ...



26. Interpersonal and Communication Skills - Communicate effectively with patients, families, and the public,  $\ldots$ 



#### Specialty: Preventive Medicine (Occupational Medicine)

Resident Year	1	2	Total Residents
# of Residents	60	62	122

1. Patient Care - Toxicology: Recognize, evaluate, and treat exposures to toxins at work or in the general ...



included in the analysis.

3. Patient Care - Emergency Preparedness and Response: Apply skills in Emergency Preparedness and Response - Patient Care 3



Note: 2 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.







4. Patient Care - Community Health: Monitor, diagnose, and investigate community health problems - Patient Care 4



Note: 3 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - Policies and Plans: Develop policies and plans to support individual and community health  $\ldots$ 



ded in the analysis.
### **Specialty: Preventive Medicine (Occupational Medicine)**

7. Patient Care - Evaluating Health Services: Evaluate population-based health services - Patient Care 7



9. Patient Care - Occupational and Environmental Medicine (OEM)



Note: 2 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.

11. Patient Care - Health and Productivity: Identify and address individual and organizational factors in ...







Note: 1 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Patient Care - Work Fitness and Disability Integration: Determine if a worker can safely be at work/complete ...



Note: 2 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Patient Care - Public Health, Surveillance, and Disease Prevention: Develop, evaluate, and manage medical ...



included in the analysis.

### **Specialty: Preventive Medicine (Occupational Medicine)**

13. Patient Care - OEM Related Management and Administration -Patient Care 13















Note: 1 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Environmental Health - Medical Knowledge 2



Note: 1 of 122 residents have a status of "Not Yet Rotated" and are not included in the analysis.

18. Medical Knowledge - Epidemiology - Medical Knowledge 4



included in the analysis.

### Specialty: Preventive Medicine (Occupational Medicine)

19. Systems-Based Practice - Work and coordinate patient care effectively in various health care delivery ...



21. Systems-Based Practice - Work in interprofessional teams to enhance patient safety and improve patient ...



23. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness  $\ldots$ 



Note: Please reference milestone narrative for full text.

20. Systems-Based Practice - Incorporate considerations of cost awareness and risk-benefit analysis in patient ...



22. Practice-Based Learning and Improvement - Identify strengths, deficiencies, and limits in one's knowledge ...







### Specialty: Preventive Medicine (Occupational Medicine)

25. Interpersonal and Communication Skills - Communicate effectively with patients, families, and the public, ...





26. Interpersonal and Communication Skills - Maintain comprehensive, timely and legible medical records, ...

### Specialty: Preventive Medicine (Public Health and General Preventive Medicine)

Resident Year	1	2	Total Residents
# of Residents	98	87	185

1. Patient Care - Emergency Preparedness and Response: Apply skills in Emergency Preparedness and Response - Patient Care 1



included in the analysis.

3. Patient Care - Inform and Educate: Inform and educate populations about health threats and risks - Patient Care 3



Note: 9 of 185 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.







4. Patient Care - Policies and Plans: Develop policies and plans to support individual and community health ...



Note: 7 of 185 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - Descriptive Epidemiology: Able to characterize the health of a community - Patient Care 6



included in the analysis.

### Specialty: Preventive Medicine (Public Health and General Preventive Medicine)

7. Patient Care - Analytic Epidemiology: Able to design and conduct an epidemiologic study - Patient Care 7









included in the analysis.

11. Patient Care - Conditions of Public Health Significance: Implement appropriate clinical care for individuals ...



8. Patient Care - Disease Outbreak: Investigate and respond to a cluster or outbreak - Patient Care 8



Note: 13 of 185 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Patient Care - Clinical Preventive Services (CPS): Analyze evidence regarding the performance of proposed ...



Note: 5 of 185 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Patient Care - Preventive Services: Select and provide appropriate evidence-based clinical preventive ...



Note: 7 of 185 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### Specialty: Preventive Medicine (Public Health and General Preventive Medicine)

13. Medical Knowledge - Behavioral Health - Medical Knowledge 1



#### 15. Medical Knowledge - Biostatistics - Medical Knowledge 3



17. Systems-Based Practice - Incorporate considerations of cost awareness and risk-benefit analysis in patient ...



Note: Please reference milestone narrative for full text.



Note: 8 of 185 residents have a status of "Not Yet Rotated" and are not included in the analysis.





18. Systems-Based Practice - Work in interprofessional teams to enhance patient safety and improve patient ...



14. Medical Knowledge - Environmental Health - Medical Knowledge 2

### Specialty: Preventive Medicine (Public Health and General Preventive Medicine)

19. Practice-Based Learning and Improvement - Identify strengths, deficiencies, and limits in one's knowledge ...



21. Professionalism - Accountability to patients, society and the profession - Professionalism 2



23. Interpersonal and Communication Skills - Maintain comprehensive, timely and legible medical records, ...



Note: Please reference milestone narrative for full text.

20. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness ...



22. Interpersonal and Communication Skills - Communicate effectively with patients, families, and the public, ...



### Specialty: Psychiatry

Resident Year	1	2	3	4	Total Residents
# of Residents	1,881	1,811	1,717	1,241	6,650

1. Patient Care - PC1. Psychiatric Evaluation A: General interview skills B: Collateral information gathering ...



3. Patient Care - PC3. Treatment Planning and Management A: Creates treatment plan B: Manages patient crises,  $\ldots$ 







2. Patient Care - PC2. Psychiatric Formulation and Differential Diagnosis [see narrative footnote 1] A: ...







6. Medical Knowledge - MK1. Development through the life cycle (including the impact of psychopathology  $\ldots$ 



Note: Please reference milestone narrative for full text. 549 • MILESTONES NATIONAL REPORT 2020

### **Specialty: Psychiatry**

7. Medical Knowledge - MK2. Psychopathology [see narrative footnote 1] Includes knowledge of diagnostic ...



9. Medical Knowledge - MK4. Psychotherapy Refers to knowledge regarding: 1) individual psychotherapies, ...



11. Medical Knowledge - MK6. Practice of Psychiatry A: Ethics B:



Regulatory compliance C: Professional development and frameworks

8. Medical Knowledge - MK3. Clinical Neuroscience [see narrative footnote 1] Includes knowledge of neurology, ...



10. Medical Knowledge - MK5. Somatic Therapies Medical Knowledge of somatic therapies, including psychopharmacology, ...



12. Systems-Based Practice - SBP1. Patient Safety and the Health care Team A: Medical errors and improvement ...



### Specialty: Psychiatry

13. Systems-Based Practice - SBP2. Resource Management (may include diagnostics, medications, level of care,  $\dots$ 



15. Systems-Based Practice - SBP4. Consultation to non-psychiatric medical providers and non-medical systems ...



17. Practice-Based Learning and Improvement - PBLI2. Formal practicebased quality improvement based on ...



14. Systems-Based Practice - SBP3. Community-Based Care A: Community-based programs B: Self-help groups ...



16. Practice-Based Learning and Improvement - PBLI1. Development and execution of lifelong learning through ...



18. Practice-Based Learning and Improvement - PBLI3. Teaching A: Development as a teacher B: Observable teaching skills



### Specialty: Psychiatry

19. Professionalism - PROF1. [see narrative footnote 1] Compassion, integrity, respect for others, sensitivity  $\dots$ 



21. Interpersonal and Communication Skills - ICS1. Relationship development and conflict management with ...



20. Professionalism - PROF2. Accountability to self, patients, colleagues, and the profession A: Fatigue  $\dots$ 



22. Interpersonal and Communication Skills - ICS2. Information sharing and record keeping A: Accurate and ...



### Specialty: Psychiatry

Cubarrent	Thursday		- V. 4	->>	- X.O	¥.0	
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						20.7
	$\leq$ Level 3.5		19.5	19.9	20.3	22.4	28.8
	$\leq$ Level 3.0		19.6	20.5	22.4	31.4	55.3
	$\leq$ Level 2.5		20.7	24.6	30.1	50.5	73.5
	$\leq$ Level 2.0	20.0	21.1	30.4	38.0	70.3	68.7
	$\leq$ Level 1.5	22.1	30.0	56.8	57.7		
	$\leq$ Level 1.0	27.1	43.6	74.7			
2000							
PC02							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0		01.0	00.0	00.0	00.0	00.0
	≤ Level 3.5		21.9	22.0	22.2	23.9	29.8
	≤ Level 3.0		22.0	22.2	23.5	32.2	54.5
	≤ Level 2.5	005	22.5	25.2	30.7	49.1	61.3
	≤ Level 2.0	22.5	23.7	34.6	37.8	49.5	58.8
	≤ Level 1.5	24.3	31.3	49.7	43.6	42.1	
	≤ Level 1.0	28.7	35.3	51.9			
PC03							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5			22.1	22.2	23.9	29.7
	≤ Level 3.0		22.1	22.3	23.1	30.8	51.3
	≤ Level 2.5		22.2	24.9	29.9	45.2	62.4
	≤ Level 2.0	23.1	23.7	32.5	37.1	59.5	52.5
	≤ Level 1.5	24.2	30.7	57.1	57.3	66.5	
	$\leq$ Level 1.0	26.7	33.7	48.4	55.7	25.6	
2004							
PC04							
	≤ Level 5.0						
	≤ Level 4.5	34.5					
	≤ Level 4.0	34.5					35.4
	≤ Level 3.5	34.5				35.4	42.1
	≤ Level 3.0	34.5	34.5	34.8	35.3	40.1	59.9
	$\leq$ Level 2.5	34.5	34.5	35.2	38.6	56.1	66.1
	$\leq$ Level 2.0	34.7	34.8	38.1	42.9	69.3	68.2
	≤ Level 1.5	36.1	38.2	50.4	48.2	54.9	
	$\leq$ Level 1.0	36.7	41.3	54.4	54.8	44.0	

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### Specialty: Psychiatry

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC05							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5			22.7		25.5	31.6
	≤ Level 3.0		22.7	22.9	23.7	31.3	50.1
	≤ Level 2.5	23.0	23.1	24.8	28.6	52.9	64.2
	≤ Level 2.0	22.8	23.7	28.8	35.1	65.9	63.1
	≤ Level 1.5	23.6	27.0	48.7	51.3		
	$\leq$ Level 1.0	25.4	29.1	45.7	57.9		
MK01							
	≤ Level 5.0						
	≤ Level 4.5			00.4	00 5	00.7	10.4
	≤ Level 4.0		00 5	39.4	39.5	39.7	40.4
	≤ Level 3.5	00.0	39.7	40.2	40.0	40.8	45.4
	≤ Level 3.0	39.6	39.6	40.3	40.5	44.9	59.9
	≤ Level 2.5	39.5	39.7	41.4	44.7	56.9	66.1
	≤ Level 2.0	39.4	40.6	44.0	49.7	61.0	73.3
	≤ Level 1.5	40.0	42.9	55.5	55.2	52.8	63.5
	≤ Level 1.0	40.7	44.6	51.2	49.8	38.7	49.4
MK02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0			27.5		28.0	
	$\leq$ Level 3.5			27.9	28.1	30.2	37.6
	$\leq$ Level 3.0		27.8	28.7	29.0	37.1	55.6
	$\leq$ Level 2.5		28.2	29.0	32.3	50.0	62.8
	$\leq$ Level 2.0	28.4	29.2	36.4	41.0	49.9	48.1
	$\leq$ Level 1.5	28.0	34.5	49.6	34.8	25.1	
	$\leq$ Level 1.0	31.4	41.0	52.6	43.3	21.6	
МК03							
	≤ Level 5.0						
	$\leq$ Level 3.0 $\leq$ Level 4.5						
	$\leq$ Level 4.0						40.3
	$\leq$ Level 4.0 $\leq$ Level 3.5	39.3	39.4	40.1	39.8	41.1	40.3
	$\leq$ Level 3.5 $\leq$ Level 3.0	-					
		39.3 39.6	39.4 40.0	40.7 41.8	40.7 44.3	45.1 59.1	60.8 65.1
	≤ Level 2.5 ≤ Level 2.0						
		40.2	41.1	45.0	48.9	60.3	67.2
	$\leq$ Level 1.5 $\leq$ Level 1.0	41.7 43.6	45.2 45.2	57.9 63.1	53.6 61.0	51.0 33.3	44.1

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### Specialty: Psychiatry

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
MK04				inia real		initia real	
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5			37.1	37.4	38.6	45.1
	≤ Level 3.0		37.2	37.6	37.8	44.5	62.0
	≤ Level 2.5		37.4	38.5	40.0	54.6	67.6
	$\leq$ Level 2.0	37.4	38.2	40.3	46.0	64.5	72.0
	≤ Level 1.5	37.7	41.4	50.4	54.3	67.9	52.7
	$\leq$ Level 1.0	39.9	47.4	61.3	57.9	58.0	22.7
<b>VK05</b>							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5			28.1	28.0	30.1	36.4
	≤ Level 3.0		27.9	28.4	28.7	36.1	51.2
	≤ Level 2.5	28.1	28.5	28.8	32.1	51.6	53.7
	≤ Level 2.0	28.0	29.0	35.8	40.4	51.8	64.7
	≤ Level 1.5	29.1	32.3	42.1	45.9	70.2	
	$\leq$ Level 1.0	30.1	34.8	46.2	46.0		
MK06							
WINOO	≤ Level 5.0						
	$\leq$ Level 3.0 $\leq$ Level 4.5			36.1	36.1	36.2	
	$\leq$ Level 4.5 $\leq$ Level 4.0				36.2	36.3	37.2
	$\leq$ Level 4.0 $\leq$ Level 3.5		26.2	36.2			
	$\leq$ Level 3.5 $\leq$ Level 3.0	36.2	36.3 36.3	36.6 36.7	36.5 37.1	38.9 45.5	44.9 62.5
		36.5			39.6	60.3	
	≤ Level 2.5	-	37.0	38.2			61.7
	≤ Level 2.0 ≤ Level 1.5	36.9 37.9	37.1	42.4	47.9	61.9 64.5	67.1
	$\leq$ Level 1.5 $\leq$ Level 1.0	37.9 39.6	40.8 42.5	56.2 44.5	57.4 48.9	34.3	
		39.0	42.0	44.0	40.9	34.3	
SBP01							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5	38.3	38.2			41.2	47.1
	≤ Level 3.0	38.3	38.2	39.2	39.6	45.7	61.7
	≤ Level 2.5	38.4	38.5	39.6	43.0	64.6	60.1
	≤ Level 2.0	38.2	38.7	43.1	49.2	72.0	69.6
	≤ Level 1.5	39.0	43.6	53.1	58.3	76.2	
	≤ Level 1.0	41.3	45.3	57.5	45.3		

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### Specialty: Psychiatry

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
SBP02		Mid-Tear		wild-real	Tear-Enu	wild-real	
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0					22.4	22.8
	≤ Level 3.5			22.7	22.7	25.1	30.4
	≤ Level 3.0			23.3	23.9	29.6	49.7
	≤ Level 2.5			25.1	29.2	55.9	54.2
	≤ Level 2.0	23.1	23.3	29.5	35.9	52.4	82.6
	≤ Level 1.5	24.2	27.2	48.2	39.7	59.4	
	$\leq$ Level 1.0	27.1	30.7	49.3	44.5		
SBP03							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5			23.8		25.7	31.4
	$\leq$ Level 3.0			24.0	24.8	30.4	49.6
	$\leq$ Level 2.5	23.7		25.1	28.4	48.0	52.6
	$\leq$ Level 2.0	23.5	24.5	28.5	33.7	50.3	62.2
	$\leq$ Level 1.5	25.2	26.7	34.1	35.9	24.4	
	$\leq$ Level 1.0	26.1	25.4	21.5	28.0	20.0	
SBP04							
	≤ Level 5.0						
	$\leq$ Level 4.5			23.3			
	$\leq$ Level 4.0			23.4			24.0
	$\leq$ Level 3.5			23.7	24.8	27.5	33.9
	$\leq$ Level 3.0			24.5	26.3	31.9	47.3
	≤ Level 2.5			25.4	28.5	43.5	67.0
	≤ Level 2.0		24.6	29.7	36.4	38.6	64.7
	$\leq$ Level 2.0 $\leq$ Level 1.5	24.2	24.0	41.6	40.8	35.7	04.7
	$\leq$ Level 1.0	24.2	27.4	35.2	40.8	48.4	
PBLI01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5				32.0	34.2	41.6
	$\leq$ Level 3.0				33.8	41.6	57.7
	$\leq$ Level 2.5	31.9	31.7	33.7	39.3	59.3	65.5
	$\leq$ Level 2.0	32.1	32.5	42.1	46.7	52.6	60.6
	≤ Level 1.5	33.2	37.9	48.6	59.6	42.6	82.7
	≤ Level 1.0	37.3	39.4	69.8	70.7	51.2	

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### Specialty: Psychiatry

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PBLI02				initia real			
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						40.5
	≤ Level 3.5				41.0	42.1	49.5
	≤ Level 3.0		40.1	40.4	41.2	46.1	60.5
	≤ Level 2.5	40.1	40.3	40.6	43.4	58.7	69.5
	≤ Level 2.0	40.2	40.4	42.9	47.1	64.0	81.4
	≤ Level 1.5	40.5	41.8	50.8	51.4	64.4	82.2
	$\leq$ Level 1.0	41.1	46.6	54.9	57.1	62.4	
PBLI03	≤ Level 5.0						
	≤ Level 5.0 ≤ Level 4.5						
						27.2	28.2
	≤ Level 4.0 ≤ Level 3.5				27.2	30.5	28.2 39.1
	$\leq$ Level 3.5 $\leq$ Level 3.0			27.1	29.0	37.4	51.9
		06 5	06.0				
	≤ Level 2.5	26.5	26.9	27.9	34.1	48.4	68.2
	$\leq$ Level 2.0 $\leq$ Level 1.5	27.4 28.3	28.5 32.9	34.2 50.9	39.7 53.8	57.1 57.2	68.2
	$\leq$ Level 1.0	30.2	37.2	45.6	60.0	29.7	
PROF01							
	≤ Level 5.0						
	$\leq$ Level 4.5					19.4	
	$\leq$ Level 4.0				19.4	19.5	20.3
	$\leq$ Level 3.5	19.3	19.3		20.0	22.6	31.9
	$\leq$ Level 3.0	19.4	19.5	20.3	21.3	31.6	48.5
	$\leq$ Level 2.5	20.2	19.9	22.7	25.7	44.7	50.6
	$\leq$ Level 2.0	19.9	21.3	30.6	34.1	58.4	64.8
	$\leq$ Level 1.5	23.7	29.1	48.4	44.9	45.2	
	$\leq$ Level 1.0	27.1	30.3	64.7	57.6		
PROF02							
	≤ Level 5.0						
	$\leq$ Level 4.5				23.4	23.4	
	$\leq$ Level 4.0				23.4	23.4	24.7
	$\leq$ Level 3.5		23.4		23.4	26.4	35.5
	≤ Level 3.0	23.4	23.4	24.4	26.3	33.7	49.8
	≤ Level 3.0 ≤ Level 2.5	23.4	23.5	24.4	31.7	48.0	63.1
	$\leq$ Level 2.0	23.0	25.5	34.1	41.8	68.3	74.8
	$\leq$ Level 2.0	24.3	34.9	53.5	41.0	68.1	74.0
	$\leq$ Level 1.0	34.0	34.9	59.1	81.6	60.1	

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### Specialty: Psychiatry

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
ICS01							
	≤ Level 5.0						
	$\leq$ Level 4.5					27.8	
	$\leq$ Level 4.0					28.0	28.7
	≤ Level 3.5	27.9	27.9	28.0	28.1	30.6	38.4
	$\leq$ Level 3.0	28.0	27.7	28.4	30.0	38.1	55.9
	$\leq$ Level 2.5	28.3	28.3	31.5	35.8	50.3	70.8
	$\leq$ Level 2.0	28.7	29.9	36.1	39.8	72.0	88.2
	$\leq$ Level 1.5	30.7	36.9	55.4	55.7	61.6	
	$\leq$ Level 1.0	33.7	38.8	63.7	77.7	66.2	
ICS02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5				21.5	21.4	
	$\leq$ Level 4.0				21.5	21.7	
	$\leq$ Level 3.5		21.5	21.7	22.3	25.3	34.5
	$\leq$ Level 3.0		21.4	22.3	24.3	32.9	52.2
	$\leq$ Level 2.5	21.6	22.0	24.9	30.5	49.1	66.0
	$\leq$ Level 2.0	22.0	23.5	31.4	37.9	65.5	89.6
	$\leq$ Level 1.5	24.2	30.5	44.2	56.3	68.6	
	≤ Level 1.0	26.4	32.3	54.4	82.4	54.3	

### Subpecialty: Addiction Medicine (multidisciplinary)

Resident Year	1	Total Residents
# of Residents	80	80

1. Patient Care - 1: Screening, Evaluation, Differential Diagnosis, and Case Formulation of the Patient with or at Risk of  $\ldots$ 



3. Medical Knowledge - 1: Neuroscience of Substance Use and Addictive Disorders



5. Medical Knowledge - 3: Treatment Modalities and Interventions in



Note: Please reference milestone narrative for full text.

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2. Patient Care - 2: Pharmacologic and Non-Pharmacologic Treatment for Substance Use and Addictive Disorders







6. Systems-Based Practice - 1: Patient Safety and Quality Improvement in Addiction Medicine

### Subpecialty: Addiction Medicine (multidisciplinary)

7. Systems-Based Practice - 2: System Navigation for Patient-Centered Care in Addiction Medicine



# 9. Practice-Based Learning and Improvement - 1: Evidence-Based and Informed Practice



11. Professionalism - 1: Professional Behavior and Ethical Principles



Note: Please reference milestone narrative for full text.











8. Systems-Based Practice - 3: The Addiction Medicine Physician Role in Health Care Systems

### Subpecialty: Addiction Medicine (multidisciplinary)

13. Professionalism - 3: Self-Awareness and Help-Seeking



15. Interpersonal and Communication Skills - 2: Interprofessional and Team Communication



14. Interpersonal and Communication Skills - 1: Patient- and Family-Centered Communication







### Subpecialty: Addiction Psychiatry

Resident Year	1	Total Residents
# of Residents	75	75

1. Patient Care -  $\rm PC1$  — Evaluation and diagnosis of the patient A. Thorough evaluation of the patient ...



3. Patient Care - PC3 — Pharmacological interventions for substance use and addictive disorders A. Uses  $\ldots$ 







Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 Level 2 Level 1 I Resident Year







6. Medical Knowledge - MK3 — Psychotherapy, behavioral, and psychosocial treatments: including individual ...



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### Subpecialty: Addiction Psychiatry

7. Systems-Based Practice - SBP1 — Patient Safety and the Health Care Team A. Medical errors and improvement  $\ldots$ 



9. Systems-Based Practice - SBP3 — Community-based Care A. Community-based programs B. Self-help groups C. Recovery and ...



11. Practice-Based Learning and Improvement - PBL11 — Development and execution of lifelong learning through ...



Note: Please reference milestone narrative for full text.



10. Systems-Based Practice - SBP4 — Consultation to general psychiatrists, non-psychiatric medical providers, ...



12. Practice-Based Learning and Improvement - PBLI2 — Teaching A. Development as a teacher B. Observable teaching skills



8. Systems-Based Practice - SBP2 — Resource Management: Costs of care and resource management in addiction treatment

### Subpecialty: Addiction Psychiatry

13. Professionalism - PROF1 [see narrative footnote 1] — Compassion, integrity, respect for others, sensitivity ...



15. Interpersonal and Communication Skills - ICS1 — Relationship development and conflict management with  $\ldots$ 



14. Professionalism - PROF2 — Accountability to self, patients, colleagues, and the profession A. Fatigue ...







### Subspecialty: Child and Adolescent Psychiatry

Resident Year	1	2	Total Residents
# of Residents	492	425	917

1. Patient Care - PC1 — Psychiatric Evaluation



3. Patient Care - PC3 — Treatment Planning and Management







Note: Please reference milestone narrative for full text.



# 2. Patient Care - PC2 — Psychiatric Formulation and Differential Diagnosis [see narrative footnote 1]

#### 4. Patient Care - PC4 — Psychotherapy







#### Subspecialty: Child and Adolescent Psychiatry

7. Medical Knowledge - MK2 — Psychopathology and Wellness, including Knowledge of Diagnostic Criteria, ...



9. Medical Knowledge - MK4 — Psychotherapy: Refers to knowledge regarding: 1) individual psychotherapies, ...







Note: Please reference milestone narrative for full text.

8. Medical Knowledge - MK3 — Clinical Neuroscience and Genetics, including Knowledge of Neurology, Neuropsychiatry, ...



10. Medical Knowledge - MK5 — Somatic Therapies: Medical Knowledge of Somatic Therapies, including Psychopharmacology, ECT, ...





12. Systems-Based Practice - SBP1 — Patient Safety and the Health Care Team

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### Subspecialty: Child and Adolescent Psychiatry

13. Systems-Based Practice - SBP2 - Resource Management



<sup>15.</sup> Systems-Based Practice - SBP4 — Consultation to and Integration with Non-psychiatric Medical Providers  $\ldots$ 







Note: Please reference milestone narrative for full text.



16. Practice-Based Learning and Improvement - PBLI1 — Development and Execution of Lifelong Learning through ...



18. Professionalism - PROF1 — Compassion, Integrity, Respect for Others, Sensitivity to Diverse Patient  $\ldots$ 



#### 14. Systems-Based Practice - SBP3 — Community-based Care

### Subspecialty: Child and Adolescent Psychiatry

19. Professionalism - PROF2 — Accountability to Self, Patients, Colleagues, and the Profession



<sup>20.</sup> Interpersonal and Communication Skills - ICS1 — Relationship Development and Conflict Management with  $\ldots$ 



21. Interpersonal and Communication Skills - ICS2 — Information Sharing and Record Keeping



### Subspecialty: Consultation-Liaison Psychiatry

Resident Year	1	Total Residents
# of Residents	91	91

1. Patient Care - PC1 — Consultative Patient Care: clarifying the question, gathering data and collateral  $\ldots$ 



3. Medical Knowledge - MK1 — Knowledge regarding Psychiatric Illnesses in the Medically III: assessment  $\ldots$ 







2. Patient Care - PC2 — Integrated Patient Care: performing, coordinating, and supervising care in multidisciplinary ...











### Subspecialty: Consultation-Liaison Psychiatry

7. Systems-Based Practice - SBP2 — Resource Management: costs of care and resource selection



9. Systems-Based Practice - SBP4 — Consultation to Health Care Systems



11. Practice-Based Learning and Improvement - PBLI2 — Teaching A. Development as a teacher B. Observable teaching skills



f 8. Systems-Based Practice - SBP3 — Community-based Care: community-based programs; self-help groups, including ...



10. Practice-Based Learning and Improvement - PBLI1 — Lifelong Learning A. Self-assessment and self-improvement B. Use of ...



12. Professionalism - PROF1 — Compassion, Integrity, and Respect A. Compassion for others, self-reflection, sensitivity to  $\ldots$ 



### Subspecialty: Consultation-Liaison Psychiatry

13. Professionalism - PROF2 — Accountability to Self, Patients, Colleagues, and Profession A. Work balance ...







15. Interpersonal and Communication Skills - ICS2 — Information Sharing and Record Keeping A. Accurate ...



### Subspecialty: Forensic Psychiatry

Resident Year	1	Total Residents
# of Residents	85	85

1. Patient Care - PC1 — Patient Care A. Provides psychiatric care in a forensic setting



3. Medical Knowledge - MK1 — Knowledge of the Law and Ethical Principles as they relate to the Practice  $\ldots$ 







Note: Please reference milestone narrative for full text.



# 2. Patient Care - PC2 — Procedural Skills A. Conducts a forensic psychiatric evaluation in criminal and ...









#### Subspecialty: Forensic Psychiatry

7. Systems-Based Practice - SBP3 — Consultation to Medical Providers and Non-medical systems (e.g., military, ...



9. Practice-Based Learning and Improvement - PBLI2 — Teaching A. Development as a teacher B. Observable teaching skills



11. Professionalism - PROF2 — Accountability to Self, Patients, Colleagues, Legal Systems, Professionals, ...



Note: Please reference milestone narrative for full text.



10. Professionalism - PROF1 — Compassion, Integrity, Respect for Others, Sensitivity to Diverse Patient ...







### Subspecialty: Forensic Psychiatry

13. Interpersonal and Communication Skills - ICS2 — Information Sharing and Record Keeping A. Accurate and  $\ldots$ 



### Subspecialty: Geriatric Psychiatry

Resident Year	1	Total Residents
# of Residents	42	42

1. Patient Care - PC1 - Geriatric Psychiatric Evaluation and Differential Diagnosis A. Geriatric-specific ...



3. Patient Care - PC3 - Treatment Planning and Management A. Participates in the development, management, ...







Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 Level 2 Level 1

Resident Year











### Subspecialty: Geriatric Psychiatry

7. Systems-Based Practice - SBP1 - Patient Safety and the Health Care Team A. Medical errors and improvement  $\ldots$ 



9. Systems-Based Practice - SBP3 - Community-based Care A. Community-based programs B. Self-help groups C. Recovery and rehabilitation



11. Practice-Based Learning and Improvement - PBLI1 - Development and Execution of Lifelong Learning through ...



Note: Please reference milestone narrative for full text.

Level 5 Level 4 Level 3 Level 2 Level 1 i Resident Year

10. Systems-Based Practice - SBP4 - Consultation to non-psychiatric medical providers and non-medical systems ...



12. Practice-Based Learning and Improvement - PBLI2 - Teaching A. Development as a teacher B. Observable teaching skills



8. Systems-Based Practice - SBP2 - Resource Management: Costs of care and resource management
#### Subspecialty: Geriatric Psychiatry

13. Professionalism - PROF1 - Compassion, Integrity, Respect for Others, Sensitivity to Diverse Patient  $\ldots$ 



15. Interpersonal and Communication Skills - ICS1 - Relationship Development and Conflict Management with ...



14. Professionalism - PROF2 - Accountability to Self, Patients, Colleagues, and the Profession A. Fatigue ...



16. Interpersonal and Communication Skills - ICS2 - Information Sharing and Record Keeping A. Accurate and  $\ldots$ 



#### **Specialty: Radiation Oncology**

1. Patient Care - Lymphoma - Patient Care

Resident Year	1	2	3	4	Total Residents
# of Residents	193	196	192	193	774



Note: 171 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

3. Patient Care - Genitourinary (GU) - Patient Care



Note: 85 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.

2. Patient Care - Head and Neck - Patient Care



Note: 145 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

4. Patient Care - Palliation - Patient Care



Note: 40 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Patient Care - Gastrointestinal (GI) - Patient Care



Note: 133 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### Specialty: Radiation Oncology

<sup>7.</sup> Patient Care - Gynecologic (GYN) - Patient Care







Note: 107 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

<sup>11.</sup> Patient Care - Stereotactic Radiosurgery (SRS)/Stereotactic Body Radiotherapy (SBRT) — Patient Care



8. Patient Care - Lung - Patient Care



Note: 106 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

10. Patient Care - Brachytherapy - Patient Care



Note: 119 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Medical Knowledge - Medical Physics — Medical Knowledge



Note: 25 of 774 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### **Specialty: Radiation Oncology**

13. Medical Knowledge - Radiation/Cancer Biology — Medical Knowledge







17. Practice-Based Learning and Improvement - Identify strengths, deficiencies, and limits in one's knowledge ...



Note: Please reference milestone narrative for full text.

14. Systems-Based Practice - Work and coordinate patient care effectively in various health care delivery ...



16. Systems-Based Practice - Work in interprofessional teams to enhance patient safety and improve patient ...



18. Practice-Based Learning and Improvement - Participate in the education of patients, families, students, ...



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#### **Specialty: Radiation Oncology**

19. Professionalism - Compassion, integrity, and respect for others, as well as sensitivity and responsiveness  $\ldots$ 



21. Interpersonal and Communication Skills - Effective communication with patients, families, and the public,  $\ldots$ 







22. Interpersonal and Communication Skills - Effective member or leader of a health care team or other professional  $\dots$ 



#### **Specialty: Radiation Oncology**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PC01								
	≤ Level 5.0							
	≤ Level 4.5							
	≤ Level 4.0							
	≤ Level 3.5				28.0	31.7		
	≤ Level 3.0			27.2	29.0	37.6	45.9	
	≤ Level 2.5		23.1	26.8	32.8	44.6	54.0	
	≤ Level 2.0	24.9	23.9	27.0	26.3	23.4	15.8	
	≤ Level 1.5	36.5	24.2	23.4	32.7	20.2		
	$\leq$ Level 1.0	37.8	10.7	18.5				
PC02								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5							
	$\leq$ Level 3.0	22.0	28.9	29.8	34.5	43.0	50.6	
	$\leq$ Level 2.5	23.4	31.6	34.7	37.9	56.4	73.0	
	$\leq$ Level 2.0	23.5	29.9	32.4	42.1	38.5	58.0	
	$\leq$ Level 1.5	28.8	28.3	29.2	60.8	34.8	35.7	
	≤ Level 1.0	26.0	35.7	52.2				
PC03								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5							
	$\leq$ Level 3.0		22.6	24.9	27.5	35.3	44.8	
	$\leq$ Level 2.5	18.6	21.4	24.8	31.0	44.6	57.0	
	$\leq$ Level 2.0	19.0	20.7	27.1	35.7	35.5	54.6	
	$\leq$ Level 1.5	23.5	20.0	18.9	34.9			
	$\leq$ Level 1.0	14.3	12.0					
PC04								
	$\leq$ Level 5.0							
	≤ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5			8.7	9.4			
	$\leq$ Level 3.0		7.8	9.7	12.2	24.0	34.1	
	$\leq$ Level 2.5		9.6	14.0	15.4	41.2	50.1	
	$\leq$ Level 2.0	8.8	11.2	18.1	30.2			
	$\leq$ Level 1.5	11.3	16.8		21.1			
	$\leq$ Level 1.0	14.4	16.3					

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#### **Specialty: Radiation Oncology**

Cubernetener	Threehold	V-4	V.1	¥~0	¥~0	V-2	V2
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC05							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	≤ Level 4.0						
	$\leq$ Level 3.5					32.1	37.6
	≤ Level 3.0	24.8	25.4	27.2	32.5	37.9	42.5
	$\leq$ Level 2.5	22.7	24.3	33.6	34.6	47.1	52.0
	≤ Level 2.0	25.7	26.9	32.2	51.3	60.0	73.0
	≤ Level 1.5	31.6	32.2	20.4	67.6		
	$\leq$ Level 1.0	30.3	13.9	37.6			
PC06							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5					37.1	
	≤ Level 3.0			30.5	34.4	37.7	47.3
	$\leq$ Level 2.5	30.2	27.7	33.1	34.4	54.6	77.2
	$\leq$ Level 2.0	29.9	28.2	33.6	41.1	54.6	
	≤ Level 1.5	26.5	39.9	60.1	59.2	31.8	
	≤ Level 1.0	23.6	22.5	76.2			
PC07							
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5				30.2	35.4	42.5
	≤ Level 3.0	21.0	25.3	28.8	32.8	40.8	53.7
	≤ Level 3.0 ≤ Level 2.5	21.5	28.3	38.5	38.9	61.9	91.6
		23.6	29.9		52.0		91.0
	≤ Level 2.0 ≤ Level 1.5	26.4	29.4	41.1 37.8	48.3	39.8	
	≤ Level 1.0	26.9	33.7	34.9	34.6		
		20.9	33.7	54.5	34.0		
PC08							
	≤ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0						
	≤ Level 3.5					35.8	46.2
	≤ Level 3.0		28.3	31.9	34.9	45.9	59.0
	≤ Level 2.5	25.9	31.9	37.0	45.8	76.5	78.3
	≤ Level 2.0	26.0	33.1	38.5	44.5	48.1	34.2
	≤ Level 1.5	27.4	30.1	46.3	65.3		0.12
	$\leq$ Level 1.0	30.9	27.6	+0.0	00.0		

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#### **Specialty: Radiation Oncology**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC09							
	$\leq$ Level 5.0						
	≤ Level 4.5						
	≤ Level 4.0					24.3	25.0
	$\leq$ Level 3.5				26.4	30.1	35.9
	≤ Level 3.0		21.1	24.2	29.0	37.4	43.1
	$\leq$ Level 2.5	21.0	24.5	28.0	29.7	48.3	55.7
	$\leq$ Level 2.0	22.7	22.9	25.3	23.9		
	≤ Level 1.5	30.6	30.0	35.7	35.7		
	≤ Level 1.0	16.5	15.9				
PC10							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5		29.5		32.9	36.6	43.2
	$\leq$ Level 3.0	28.5	29.6	30.8	35.3	41.6	51.7
	$\leq$ Level 2.5	30.1	31.2	34.8	42.0	60.9	78.4
	$\leq$ Level 2.0	29.6	32.4	41.7	49.6	68.3	77.4
	≤ Level 1.5	36.5	44.3	61.3	79.6	75.8	
	$\leq$ Level 1.0	22.5	28.0	51.7			
PC11							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5						32.4
	$\leq$ Level 3.0		24.2	25.3	29.3	36.3	43.5
	$\leq$ Level 2.5	20.0	24.7	26.8	37.3	63.1	62.4
	$\leq$ Level 2.0	18.8	23.7	26.8	31.9	53.2	
	≤ Level 1.5	27.2	26.2	31.6	33.5	33.6	
	≤ Level 1.0	34.2	16.7	23.2			
MK01							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5			9.8	10.2		
	$\leq$ Level 3.0		9.5	9.1	12.3	19.0	17.1
	$\leq$ Level 2.5			10.6	14.3	34.7	32.5
	$\leq$ Level 2.0	8.1	12.1	12.5	10.9	12.4	14.0
	$\leq$ Level 1.5	18.4	11.0	3.5	13.8		
	≤ Level 1.0	48.4	6.9				

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#### **Specialty: Radiation Oncology**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
MK02								
	$\leq$ Level 5.0							
	≤ Level 4.5							
	≤ Level 4.0							
	$\leq$ Level 3.5				9.5			
	≤ Level 3.0		8.1	9.3	9.1	14.1	16.7	
	$\leq$ Level 2.5	9.6	9.1		15.5	9.8	9.7	
	$\leq$ Level 2.0	8.8	12.4	12.9	17.5	9.8	9.7	
	≤ Level 1.5	22.8	6.1		9.8			
	$\leq$ Level 1.0	16.5	8.9					
SBP01								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5	15.5	16.5	17.4	20.0	27.5	28.7	
	$\leq$ Level 3.0	16.4	17.8	20.3	24.0	31.9	34.7	
	$\leq$ Level 2.5	18.0	17.3	20.5	24.5	62.9	70.4	
	$\leq$ Level 2.0	18.9	18.5	22.3	26.5			
	$\leq$ Level 1.5	13.6	26.3	18.1	52.5			
	$\leq$ Level 1.0	9.5	13.6					
SBP02								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5	14.3				21.1	24.9	
	$\leq$ Level 3.0	15.2		18.3	20.3	25.5	30.6	
	$\leq$ Level 2.5	16.5	16.3	16.1	23.1	56.6		
	$\leq$ Level 2.0	17.1	18.3	20.1	28.5			
	≤ Level 1.5	18.8	25.9	18.2	52.2			
	$\leq$ Level 1.0	17.8	21.3					
SBP03								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0							
	$\leq$ Level 3.5					21.5	25.1	
	$\leq$ Level 3.0	15.1		19.4	24.1	25.8	32.7	
	$\leq$ Level 2.5	16.7	14.6	19.2	18.9	51.5	54.0	
	$\leq$ Level 2.0	16.0	14.0	17.2	13.6			
	$\leq$ Level 1.5	15.2	15.6	36.0	52.1			
	≤ Level 1.0	13.2	6.2					

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#### **Specialty: Radiation Oncology**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PBLI01								
	≤ Level 5.0							
	$\leq$ Level 4.5							
	≤ Level 4.0							
	$\leq$ Level 3.5	17.0		18.4	21.2	26.1	32.4	
	≤ Level 3.0	18.2		21.1	24.8	28.6	35.0	
	$\leq$ Level 2.5	19.5	17.1	23.9	26.5	74.6	76.4	
	$\leq$ Level 2.0	17.0	18.7	27.2	31.4			
	≤ Level 1.5	18.0	23.1	27.0	52.3			
	$\leq$ Level 1.0	9.5	22.2	48.5				
PBLI02								
	≤ Level 5.0							
	≤ Level 4.5							
	$\leq$ Level 4.0			14 5	10.0	10.1	00.4	
	≤ Level 3.5			11.5	13.9	18.1	22.4	
	≤ Level 3.0	10.0		13.8	14.9	23.2	28.9	
	≤ Level 2.5	12.6	11.5	14.1	13.5	18.2	22.5	
	≤ Level 2.0	12.4	15.6	14.1	11.4			
	≤ Level 1.5	12.9	19.2	11.6	51.7			
	≤ Level 1.0	11.3	6.4	50.7				
PROF01								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	≤ Level 4.0							
	≤ Level 3.5	13.5	13.8				31.3	
	≤ Level 3.0	14.5	15.0	17.5	22.8	30.3	32.0	
	$\leq$ Level 2.5	14.8	14.3	17.4	22.6	56.7	66.3	
	≤ Level 2.0	15.6	18.8	17.0	21.3	73.8	47.6	
	≤ Level 1.5	22.6	30.5	14.9	68.2			
	$\leq$ Level 1.0	20.0	15.4					
PROF02								
	≤ Level 5.0							
	≤ Level 4.5							
	≤ Level 4.0	100	10.1		10.1	00.5	00.0	
	≤ Level 3.5	12.9	13.4	14.0	18.1	22.5	29.6	
	≤ Level 3.0	14.3	13.3	15.9	21.8	32.9	39.2	
	≤ Level 2.5	13.9	14.3	18.6	25.8	66.3	79.5	
	≤ Level 2.0	14.8	18.2	21.1	27.7		47.3	
	≤ Level 1.5	21.4	29.7	31.0	68.2			
	$\leq$ Level 1.0	26.9	21.2					

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#### **Specialty: Radiation Oncology**

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
ICS01				inia real			
	≤ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	≤ Level 3.5		13.9	14.6	17.8	23.1	27.2
	$\leq$ Level 3.0		14.4	17.8	20.2	24.7	31.3
	$\leq$ Level 2.5	16.0	16.1	17.9	16.7	56.4	78.8
	$\leq$ Level 2.0	18.9	18.7	12.6	14.6		46.7
	$\leq$ Level 1.5	23.4	19.1	19.3	67.6		
	$\leq$ Level 1.0	19.6	8.0	50.8			
ICS02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0						
	$\leq$ Level 3.5		12.0	12.8	16.1	19.7	24.0
	$\leq$ Level 3.0		12.8	15.2	18.7	27.3	37.0
	$\leq$ Level 2.5	13.4	11.2	15.3	16.7	56.7	58.0
	$\leq$ Level 2.0	12.8	15.9	13.3	14.2	64.8	65.1
	$\leq$ Level 1.5	11.4	13.7	17.4	67.5		
	$\leq$ Level 1.0	13.8	6.3	50.6			

#### Specialty: Diagnostic Radiology

1. Patient Care - Consultant (PCTS1)

Resident Year	1	2	3	4	Total Residents
# of Residents	1,166	1,117	1,167	1,095	4,545



3. Medical Knowledge - Protocol selection and optimization of images (MK1)  $\,$ 



5. Systems-Based Practice - Quality Improvement (SBP1)



Note: Please reference milestone narrative for full text.



#### 2. Patient Care - Competence in procedures (PCTS2)

4. Medical Knowledge - Interpretation of examinations (MK2)



6. Systems-Based Practice - Health care economics (SBP2)



#### Specialty: Diagnostic Radiology

7. Practice-Based Learning and Improvement - Patient safety: contrast agents; radiation safety; MR safety; sedation (PBLI1)



9. Practice-Based Learning and Improvement - Scholarly activity (PBLI3)



11. Interpersonal and Communication Skills - Effective communication with patients, families, and caregivers (ICS1)



Note: Please reference milestone narrative for full text.

0 0 Level 5 0 o 0 Level 4 0 Level 3 0 0 0 0 0 Level 2 0 0 Level 1 0 0 2 **Resident Year** 

10. Professionalism - Professional Values and Ethics (PROF1)



12. Interpersonal and Communication Skills - Effective communication with members of the health care team (ICS2)



8. Practice-Based Learning and Improvement - Self-Directed Learning (PBLI2)

#### Specialty: Diagnostic Radiology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End
PC01							
	≤ Level 5.0						
	$\leq$ Level 4.5					39.7	
	$\leq$ Level 4.0					39.8	
	≤ Level 3.5			40.0	40.1	42.1	46.5
	≤ Level 3.0			40.1	41.0	49.3	67.0
	$\leq$ Level 2.5			42.3	49.1	77.8	81.3
	≤ Level 2.0		40.5	47.5	60.3	78.0	93.5
	≤ Level 1.5	41.7	44.7	66.5	64.1	74.4	
	$\leq$ Level 1.0	44.7	53.1	71.3			
PC02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	$\leq$ Level 4.0					44.1	
	$\leq$ Level 3.5					46.8	51.6
	$\leq$ Level 3.0	44.1			45.9	52.5	67.2
	$\leq$ Level 2.5	44.3		46.9	50.4	75.9	80.4
	$\leq$ Level 2.0	44.6	45.3	49.3	61.2	76.5	77.2
	$\leq$ Level 1.5	45.6	47.3	61.6	76.0	85.5	
	$\leq$ Level 1.0	46.3	57.1	67.0			
MK01							
VIROI	≤ Level 5.0						
	$\leq$ Level 4.5					39.8	
	$\leq$ Level 4.0					39.8	
	≤ Level 4.0 ≤ Level 3.5					-	45.1
	≤ Level 3.5					41.5	
				41.0	475	48.8	64.3
	≤ Level 2.5		40.6	41.8 45.5	47.5	74.9	76.9
	$\leq$ Level 2.0	40.6	40.6		65.7	79.5	86.9
	≤ Level 1.5	40.6	42.9	70.8	82.3	74.9	
	≤ Level 1.0	43.8	55.0	89.0			
MK02							
	$\leq$ Level 5.0						
	$\leq$ Level 4.5						
	≤ Level 4.0					40.8	
	≤ Level 3.5					43.5	47.4
	≤ Level 3.0			41.6	42.3	52.1	68.9
	≤ Level 2.5		41.2	42.9	49.8	77.6	85.1
	≤ Level 2.0	41.3	41.7	49.2	64.7	83.2	95.9
	≤ Level 1.5	42.4	47.6	70.0	80.8	87.3	
	≤ Level 1.0	46.9	58.7	83.7			

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#### Specialty: Diagnostic Radiology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
SBP01								
	≤ Level 5.0							
	≤ Level 4.5					39.2		
	≤ Level 4.0					39.6		
	≤ Level 3.5				43.8	48.0	53.6	
	≤ Level 3.0	39.1		41.2	44.9	51.9	65.8	
	≤ Level 2.5	39.8	41.4	44.2	50.0	73.0	79.2	
	≤ Level 2.0	40.0	41.6	47.6	56.7	74.0	84.3	
	≤ Level 1.5	41.0	43.7	56.7	57.5	82.5	92.3	
	≤ Level 1.0	41.9	48.0	54.4	56.4	82.9	85.6	
SBP02								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5			38.6	39.1	39.2		
	$\leq$ Level 4.0			38.6	39.1	39.3		
	$\leq$ Level 3.5		39.8	40.4	40.6	42.7	48.9	
	$\leq$ Level 3.0	38.1	39.7	40.7	41.5	47.1	61.1	
	$\leq$ Level 2.5	38.5	40.5	43.1	46.2	69.7	76.7	
	$\leq$ Level 2.0	38.5	40.8	45.7	54.9	68.9	75.7	
	≤ Level 1.5	39.7	42.1	68.4	63.6	61.9	66.8	
	$\leq$ Level 1.0	40.9	51.2	65.5	51.0	53.3	54.3	
PBLI01								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0					39.1		
	$\leq$ Level 3.5	39.1	39.2	39.5	39.7	40.5	44.7	
	$\leq$ Level 3.0	39.1	39.2	39.5	40.0	46.1	60.9	
	$\leq$ Level 2.5	39.1	39.8	41.7	46.9	74.6	79.8	
	$\leq$ Level 2.0	39.2	39.2	45.6	62.4	68.7	78.6	
	$\leq$ Level 1.5	39.9	42.5	66.1	67.5	72.6	70.1	
	$\leq$ Level 1.0	42.7	51.9	68.9	67.6	90.6	64.9	
PBLI02								
	≤ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0					36.1	36.5	
	$\leq$ Level 3.5		36.1	36.3	36.4	37.9	42.1	
	$\leq$ Level 3.0		36.1	36.4	37.0	43.3	57.3	
	$\leq$ Level 2.5		36.1	37.6	43.3	69.7	75.8	
	$\leq$ Level 2.0		36.6	40.7	52.3	69.4	85.4	
	$\leq$ Level 1.5	37.3	39.8	54.3	64.2	78.3		
	$\leq$ Level 1.0	39.8	47.6	65.1	74.4	78.8		

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#### Specialty: Diagnostic Radiology

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	
PBLI03								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5					23.9		
	≤ Level 4.0					24.8		
	≤ Level 3.5		24.6	27.7	31.5	40.5	45.6	
	≤ Level 3.0		25.0	28.8	33.7	44.1	57.6	
	≤ Level 2.5	24.0	28.0	31.2	40.8	61.6	67.6	
	≤ Level 2.0	24.1	28.9	34.1	44.1	62.6	69.7	
	≤ Level 1.5	25.2	31.0	42.8	56.6	61.7	85.6	
	$\leq$ Level 1.0	26.0	34.1	45.7	55.5	66.6	92.2	
PROF01								
	$\leq$ Level 5.0							
	$\leq$ Level 4.5					37.4	37.7	
	$\leq$ Level 4.0					37.8	38.4	
	$\leq$ Level 3.5	37.6	37.6	38.0	39.1	41.5	46.9	
	$\leq$ Level 3.0	37.6	38.0	38.5	40.1	48.8	65.8	
	$\leq$ Level 2.5	38.1	38.4	41.4	47.8	74.8	82.4	
	$\leq$ Level 2.0	38.1	39.6	47.3	62.1	87.7	86.1	
	$\leq$ Level 1.5	39.5	45.5	68.5	76.3	80.1	74.7	
	$\leq$ Level 1.0	43.5	55.0	78.5	89.9	77.3	65.6	
ICS01								
	≤ Level 5.0							
	$\leq$ Level 4.5							
	$\leq$ Level 4.0					37.4		
	$\leq$ Level 3.5			37.7		40.5	45.5	
	≤ Level 3.0	27.4			20.9			
	≤ Level 3.0	37.4 37.5	37.9	38.7 39.9	39.8 48.0	48.5 75.4	62.7 78.4	
	≤ Level 2.0	38.0	38.3	46.1	60.9 CE E	68.5	66.3	
	≤ Level 1.5	39.1	42.7	65.3	65.5	67.3		
	≤ Level 1.0	41.1	51.1	69.5				
ICS02								
	≤ Level 5.0							
	≤ Level 4.5					36.8		
	$\leq$ Level 4.0					37.1		
	$\leq$ Level 3.5	36.9				40.8	44.9	
	$\leq$ Level 3.0	37.0	37.4	38.0	39.3	47.9	62.8	
	$\leq$ Level 2.5	37.0	38.0	39.4	47.3	72.8	79.8	
	$\leq$ Level 2.0	37.2	38.4	44.9	58.9	72.0	76.6	
	≤ Level 1.5	38.7	42.7	66.1	74.3	58.4	71.5	
	$\leq$ Level 1.0	41.1	52.8	75.9	65.1	50.7	61.1	

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#### Subspecialty: Abdominal Radiology

Resident Year	1	Total Residents
# of Residents	52	52

#### 1. Patient Care - Consultant - Patient Care 1



### 2. Patient Care - Competence in Procedures - Patient Care 2



#### 3. Patient Care - Patient Safety - Patient Care 3





5. Medical Knowledge - Interpretation — Medical Knowledge 2







6. Systems-Based Practice - Quality Improvement (QI) - Systems-Based Practice 1

#### Subspecialty: Abdominal Radiology

7. Systems-Based Practice - Health Care Economics - Systems-Based Practice 2



9. Practice-Based Learning and Improvement - Scholarly Activity -Practice-Based Learning and Improvement 2







Level 5

Practice-Based Learning and Improvement 1



8. Practice-Based Learning and Improvement - Self-directed learning -

10. Professionalism - Individual - Professionalism 1







#### Subspecialty: Abdominal Radiology

13. Interpersonal and Communication Skills - Effective communication with members of the health care team  $\dots$ 



#### Subspecialty: Musculoskeletal Radiology

Resident Year	1	Total Residents		
# of Residents	33	33		

#### 1. Patient Care - Patient Safety - Patient Care 1



#### 3. Patient Care - Competence in Procedures: Arthrography, Biopsy, other Therapeutic Procedures - Patient ...







Note: Please reference milestone narrative for full text.

0 Level 5 0 Level 4 Level 3 Level 2 Level Resident Year

#### 2. Patient Care - Consultant - Patient Care and Technical Skills 1







#### 6. Medical Knowledge - Cross-sectional Protocols - Medical Knowledge

#### Subspecialty: Musculoskeletal Radiology

7. Systems-Based Practice - Quality Improvement (QI) — Systems-Based Practice 1



## 9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement 1









**Resident Year** 

10. Practice-based Learning and Improvement - Scholarly Activity — Practice-based Learning and Improvement 2

Level '



12. Professionalism - Systems — Professionalism 2



8. Systems-Based Practice - Healthcare Economics — Systems-Based Practice 2

#### Subspecialty: Musculoskeletal Radiology

13. Interpersonal and Communication Skills - Effective Communication with Patients, Families, and Caregivers ...





14. Interpersonal and Communication Skills - Effective Communication with Members of the Health Care Team ...

#### Subspecialty: Neuroradiology

Resident Year	1	Total Residents		
# of Residents	283	283		

#### 1. Patient Care - Consultant in Neuroradiology - Patient Care 1



#### 3. Patient Care - Patient Safety - Patient Care 3







Note: Please reference milestone narrative for full text.



## 2. Patient Care - Competence in Invasive and Non-invasive Procedures - Patient Care 2









#### Subspecialty: Neuroradiology

7. Systems-Based Practice - Health Care Economics — Systems-Based Practice 1



9. Practice-Based Learning and Improvement - Scholarly Activity — Practice-Based Learning and Improvement 2





11. Professionalism - Personal - Professionalism 1

8. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement 1



10. Practice-Based Learning and Improvement - Implements Quality Improvement (QI) Project — Practice-Based ...



12. Professionalism - Systems - Professionalism 2



#### Subspecialty: Neuroradiology

13. Interpersonal and Communication Skills - Effective Communication with Patients, Families and Caregivers — Interpersonal ...





14. Interpersonal and Communication Skills - Effective Communication with Members of the Health Care Team ...

#### Subspecialty: Pediatric Radiology

Resident Year	1	Total Residents
# of Residents	61	61

#### 1. Patient Care - Consultant - Patient Care 1



#### 3. Patient Care - Competence in Procedures - Patient Care 3



#### 5. Medical Knowledge - Interpretation — Medical Knowledge 2



Note: Please reference milestone narrative for full text.

#### 2. Patient Care - Safety - Patient Care 2







6. Medical Knowledge - Knowledge of Basic and Clinical Science Appropriate to Pediatric Radiology - Medical Knowledge 3



#### Subspecialty: Pediatric Radiology

7. Systems-Based Practice - Quality Improvement — Systems-Based Practice 1



#### 9. Practice-Based Learning and Improvement - Self-directed learning — Practice-Based Learning and Improvement 1





Note: Please reference milestone narrative for full text.

11. Professionalism - Personal - Professionalism 1

Level 2 Level 4 Level 2 Level 2 Level 1 i Resident Year









8. Systems-Based Practice - Health Care Economics — Systems-Based Practice 2

#### Subspecialty: Pediatric Radiology

13. Interpersonal and Communication Skills - Effective Communication with Members of the Health Care Team  $\dots$ 





14. Interpersonal and Communication Skills - Effective Teaching— Interpersonal and Communication Skills 3

#### Subspecialty: Vascular and Interventional Radiology

Resident Year	1	Total Residents	
# of Residents	261	261	

#### 1. Patient Care - Non-procedural Care/Consultation — Patient Care 1



# Level 5 Level 4 Level 3 Level 2 C Level 1 Resident Year

#### 2. Patient Care - Procedural Skills - Patient Care 2

















#### Subspecialty: Vascular and Interventional Radiology

7. Systems-Based Practice - Quality Improvement (QI) — Systems-Based Practice 1



#### 9. Practice-Based Learning and Improvement - Self-directed Learning — Practice-Based Learning and Improvement 1







Note: Please reference milestone narrative for full text.



8. Systems-Based Practice - Health Care Economics - Systems-Based

10. Practice-Based Learning and Improvement - Scholarly Activity — Practice-Based Learning and Improvement 2







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#### Subspecialty: Vascular and Interventional Radiology

13. Interpersonal and Communication Skills - Effective Communication with Patients, Families, and Caregivers  $\ldots$ 





14. Interpersonal and Communication Skills - Effective Communication with Members of the Health Care Team ...

#### Specialty: Interventional Radiology - Integrated

Resident Year	1	2	3	4	5	Total Residents
# of Residents	142	122	65	72	25	426





2. Patient Care - PC2 - Diagnostic Radiology: Competence in Procedures

Level 5

Level 5

Level 4

Level 3

Level 2

Level '



4. Patient Care - PC4 - Interventional Radiology: Non-procedural

Care/Consultation and Follow-Up

4

#### 3. Patient Care - PC3 - Diagnostic Radiology: Safety

5. Patient Care - PC5 - Interventional Radiology: Procedural Skills



Note: Please reference milestone narrative for full text.

Level 3 Level 4 Level 3 Level 2 Level 1 Devel 2 Level 1 Devel 2 Level 3 Level 4 Level 3 Level 4 Level 3 Level 4 Level 3 Level 4 Level

6. Patient Care - PC6 – Diagnostic and Interventional Radiology: Procedural Radiation Safety

**Resident Year** 



5

#### Specialty: Interventional Radiology - Integrated

7. Medical Knowledge - MK1- Diagnostic Radiology: Protocol Selection and Optimization of Images



9. Medical Knowledge - MK3 – Diagnosis and Intervention in Primary Vascular Disease







8. Medical Knowledge - MK2 – Diagnostic Radiology: Interpretation of Examinations



10. Medical Knowledge - MK4 - Transcatheter Therapy - Embolization







#### Specialty: Interventional Radiology - Integrated

13. Systems-Based Practice - SBP2 - Health Care Economics



15. Practice-Based Learning and Improvement - PBLI2 – Scholarly Activity



17. Professionalism -  $\mathsf{PROF2}-\mathsf{Compassion},$  Integrity, Accountability, and Respect for Self and Others



14. Practice-Based Learning and Improvement - PBLI1 - Self-directed Learning



16. Professionalism - PROF1 - Administrative Tasks



18. Interpersonal and Communication Skills - ICS1 – Effective Communication with Patients, Families, and Caregivers



#### Specialty: Interventional Radiology - Integrated

19. Interpersonal and Communication Skills - ICS2 – Diagnostic Radiology: Effective Communication with Members ...



20. Interpersonal and Communication Skills -  $\mbox{ICS3}-\mbox{Interventional}$  Radiology: Effective Communication with  $\dots$ 



#### **Specialty: Surgery**

Resident Year	1	2	3	4	5	Total Residents*
# of Residents	2,784	1,747	1,523	1,446	1,396	8,896

\*Note: There are 2 residents with an incomplete milestone evaluation that are excluded from the box plots below.





Note: 25 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

3. Patient Care - Performance of Operations and Procedures (POP) - PATIENT CARE (PC3)



Note: 99 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 74 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

2. Patient Care - Care For Diseases and Conditions (CDC) - PATIENT CARE (PC2)







Note: 27 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

6. Systems-Based Practice - Coordination of Care (CC) - SYSTEMS-BASED PRACTICE (SBP1)



Note: 39 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.
#### **Specialty: Surgery**

7. Systems-Based Practice - Improvement of Care (IC) - SYSTEMS-BASED PRACTICE (SBP2)



Note: 57 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

9. Practice-Based Learning and Improvement - Self-directed Learning (SDL) - PRACTICE-BASED LEARNING AND IMPROVEMENT (PBLI2)



Note: 40 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

11. Professionalism - Care for Diseases and Conditions (CDC) - PROFESSIONALISM (PROF1)







Note: 163 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

10. Practice-Based Learning and Improvement - Improvement of Care (IC) - PRACTICE-BASED LEARNING AND IMPROVEMENT (PBLI3)



Note: 129 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

12. Professionalism - Maintenance of Physical and Emotional Health (MPEH) - PROFESSIONALISM (PROF2)



Note: 31 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### **Specialty: Surgery**

13. Professionalism - Performance of Assignments and Administrative Tasks (PAT) - PROFESSIONALISM (PROF3)



Note: 31 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

15. Interpersonal and Communication Skills - Coordination of Care (CC) - INTERPERSONAL AND COMMUNICATION SKILLS (ICS2)



Note: 43 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.





Note: 43 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

16. Interpersonal and Communication Skills - Performance of Operations and Procedures (POP) - INTERPERSONAL ...



Note: 72 of 8,894 residents have a status of "Not Yet Assessable" and are not included in the analysis.

# PPV Table 127a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

### Specialty: Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PC01									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5						46.0	48.9	53.2
	$\leq$ Level 3.0	45.9		46.1	46.0	47.0	48.8	62.3	71.6
	$\leq$ Level 2.5	46.2	46.2	48.1	50.2	58.5	69.1	70.1	81.4
	$\leq$ Level 2.0	47.4	48.0	50.4	54.5	64.2	69.8	61.1	
	$\leq$ Level 1.5	47.9	50.4	57.3	70.5	54.2			
	$\leq$ Level 1.0	50.5	57.9	43.9					
PC02									
PC02	≤Level 4.0								
	$\leq$ Level 4.0 $\leq$ Level 3.5						45.6	48.5	53.5
		45.0		45.0	45.0	46 E			
	$\leq$ Level 3.0	45.2		45.2	45.3	46.5	48.9	61.7	71.2
	$\leq$ Level 2.5	45.4	45.5	47.4	50.7	59.3	68.7	70.4	73.1
	$\leq$ Level 2.0	46.2	47.0	51.1	54.7	67.9	75.2	71.7	
	$\leq$ Level 1.5	47.0	49.4	66.9	71.2	59.5			
	≤Level 1.0	50.7	59.5	42.1					
PC03									
	≤Level 4.0								
	≤Level 3.5						56.0	58.8	61.4
	≤Level 3.0	55.8				57.4	59.0	72.7	76.7
	$\leq$ Level 2.5	56.1	56.2	57.4	59.0	68.5	72.1	82.2	88.3
	≤Level 2.0	56.4	56.4	60.6	66.7	76.1	80.5	81.7	
	≤Level 1.5	57.2	59.4	74.5	71.3	84.0	79.9		
	$\leq$ Level 1.0	58.0	66.0	75.2	91.0				
MK01									
	$\leq$ Level 4.0								
	≤ Level 3.5			59.7	59.8	59.8	60.1	63.2	68.7
	≤ Level 3.0			59.8	60.4	61.5	64.9	74.8	82.8
	≤ Level 2.5	59.2	60.2	62.8	64.7	75.0	78.7	87.0	91.7
	≤ Level 2.0	60.3	63.1	68.4	70.7	85.0	88.3	90.5	91.3
	$\leq$ Level 1.5	61.2	68.7	80.9	85.8	80.9	88.4		
	$\leq$ Level 1.0	64.7	75.4	85.2	87.4		80.8		
MK02									
	$\leq$ Level 4.0								
	≤ Level 3.5						57.0	59.5	63.6
	$\leq$ Level 3.0				56.8	58.3	60.0	69.7	79.5
	$\leq$ Level 2.5	56.4	56.6	58.5	59.2	67.6	70.9	80.1	76.7
	$\leq$ Level 2.0	57.3	57.8	62.2	68.0	81.2	80.6	68.5	78.2
	$\leq$ Level 1.5	58.3	60.1	70.1	75.8	73.2	79.3		
	$\leq$ Level 1.0	60.2	60.0	76.0	84.8		71.1		

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# PPV Table 128a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

### Specialty: Surgery

							1		
Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
SBP01									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5		44.5	44.4	45.0	46.1	46.1	49.2	56.7
	$\leq$ Level 3.0		44.7	44.9	46.0	48.7	50.0	64.5	69.2
	$\leq$ Level 2.5	45.0	45.5	48.5	53.3	62.5	66.3	71.7	64.7
	$\leq$ Level 2.0	45.7	47.0	53.4	59.7	67.6	73.1	60.3	54.5
	$\leq$ Level 1.5	45.9	52.3	63.2	63.7	71.8			41.9
	$\leq$ Level 1.0	48.3	58.4	77.2	70.8				
SBP02									
00102	≤Level 4.0								
	≤ Level 3.5			53.9	54.1	54.6	54.6	57.7	63.0
	≤ Level 3.0		53.6	54.2	54.6	55.5	56.9	68.5	76.8
	$\leq$ Level 2.5	53.7	53.6	55.5	57.8	63.0	69.6	82.5	88.6
	≤ Level 2.0	53.8	54.5	58.2	61.4	71.3	79.7	84.2	00.0
	≤ Level 2.0	55.3	57.5	65.5	76.8	62.5	75.7	68.7	
	≤ Level 1.0	57.0	61.0	82.9	71.9	02.0		00.7	
		01.0	01.0	02.0	71.5				
PBLI01									
	≤Level 4.0								
	≤ Level 3.5			53.8		54.2	54.7	59.4	63.6
	≤ Level 3.0		53.1	54.2	55.0	55.7	58.0	73.6	78.6
	≤ Level 2.5	53.9	53.6	55.4	57.0	63.7	69.2	81.9	82.6
	≤ Level 2.0	54.1	54.5	59.1	60.8	69.9	72.1	74.1	65.2
	≤ Level 1.5	54.4	55.1	66.9	76.3	74.1	83.8		
	≤ Level 1.0	56.1	62.7	56.7	93.7				
PBLI02									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5					58.3	58.3	61.8	66.5
	≤ Level 3.0			58.4	58.4	59.3	61.0	72.4	78.9
	$\leq$ Level 2.5	57.6	58.1	58.7	60.9	68.2	73.0	87.6	88.2
	$\leq$ Level 2.0	57.8	58.1	61.9	63.2	76.4	84.4	89.2	85.5
	$\leq$ Level 1.5	58.4	62.1	67.0	65.2	73.0	73.0		
	$\leq$ Level 1.0	58.2	67.5	88.8	66.8				
PBLI03									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5					58.1	58.1	61.1	64.6
	$\leq$ Level 3.0			58.0	58.2	59.1	60.3	68.9	76.6
	$\leq$ Level 2.5	57.8	57.9	59.0	59.9	66.1	68.2	83.7	89.0
	$\leq$ Level 2.0	57.7	58.4	60.6	64.4	71.4	80.2	86.1	77.2
	$\leq$ Level 1.5	58.7	60.0	65.8	66.5	77.0	78.3		
	$\leq$ Level 1.0	58.6	62.7	79.6	81.2		70.1		

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# PPV Table 128a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

### Specialty: Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
PROF01									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5	43.5	43.6	43.3	43.9	44.5	44.7	49.1	55.9
	$\leq$ Level 3.0	43.5	43.6	44.1	45.2	47.5	51.0	63.8	73.8
	$\leq$ Level 2.5	44.1	45.7	48.5	51.7	67.4	70.5	79.9	86.9
	$\leq$ Level 2.0	43.8	46.1	51.9	57.5	75.3	73.9	75.0	86.4
	$\leq$ Level 1.5	47.5	48.1	64.7	78.9	80.1	80.6	78.6	54.3
	$\leq$ Level 1.0	48.9	61.1	64.6	79.3	85.2		72.3	40.2
PROF02									
	≤Level 4.0								
	$\leq$ Level 3.5	47.2		47.6	47.4	47.7	47.8	51.2	57.1
	$\leq$ Level 3.0	47.4	47.1	48.0	48.6	51.7	54.5	66.4	72.8
	$\leq$ Level 3.0 $\leq$ Level 2.5	48.0	47.1	50.3	52.1	66.9	70.6	82.1	89.4
	$\leq$ Level 2.0	47.7	48.7	53.1	58.1	73.9	69.6	76.3	85.6
	$\leq$ Level 1.5	49.8	49.8	64.1	68.3	66.4	69.1	78.6	00.0
	$\leq$ Level 1.0	47.2	61.0	61.4	75.4	00.4	66.0	70.0	
PROF03		77.2	01.0	01.4	70.4		00.0		
	≤Level 4.0								
	$\leq$ Level 3.5			52.3	52.2	52.8	53.4	58.6	63.7
	$\leq$ Level 3.0	51.9		52.4	52.4	55.4	58.8	66.9	78.7
	$\leq$ Level 2.5	52.2	52.2	54.2	54.6	68.6	70.8	84.1	91.2
	$\leq$ Level 2.0	52.9	54.2	58.5	60.2	75.3	71.8	79.9	85.3
	$\leq$ Level 1.5	56.4	57.7	76.1	76.5	78.1	69.2	78.3	80.8
	$\leq$ Level 1.0	57.7	62.5	77.3	68.7	78.7	82.0	76.8	79.9
ICS01									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5	43.6	43.3		43.5		44.1	46.6	53.1
	$\leq$ Level 3.0	43.7	43.3	43.7	44.0	46.2	47.9	59.6	75.5
	$\leq$ Level 2.5	44.1	43.6	46.2	48.4	58.2	65.3	85.9	
	$\leq$ Level 2.0	44.9	45.0	49.3	55.1	63.8	63.7		
	$\leq$ Level 1.5	46.9	50.8	62.2	58.8	65.0			
	$\leq$ Level 1.0	48.3	57.3	65.6	59.8	56.6			
ICS02									
	≤Level 4.0								
	$\leq$ Level 3.5	46.5			46.5	47.0	47.6	49.8	56.7
	$\leq$ Level 3.0	46.5		46.5	46.9	49.0	52.0	61.4	74.0
	$\leq$ Level 2.5	46.9	47.4	49.4	52.7	63.2	71.0	80.8	93.2
	$\leq$ Level 2.0	46.7	48.2	55.7	61.1	70.6	76.6	86.8	
	≤ Level 1.5	48.5	52.8	67.3	79.9	69.5			
	$\leq$ Level 1.0	51.0	57.1	66.2	66.0	66.0			

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# PPV Table 128a - Milestone Evaluation by Resident Year: Mid Year 2019-2020

### Specialty: Surgery

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End	Yr2, Mid-Year	Yr2, Year-End	Yr3, Mid-Year	Yr3, Year-End	Yr4, Mid-Year	Yr4, Year-End
ICS03									
	$\leq$ Level 4.0								
	$\leq$ Level 3.5	50.8			50.7	50.9	51.3	53.3	59.2
	$\leq$ Level 3.0	50.8		51.0	51.1	52.1	56.1	67.4	78.9
	$\leq$ Level 2.5	51.2	51.3	53.6	55.0	65.9	69.3	85.8	92.0
	$\leq$ Level 2.0	50.9	53.0	57.8	62.1	75.1	76.9		
	$\leq$ Level 1.5	52.4	58.9	71.6	76.3	73.5	79.2		
	$\leq$ Level 1.0	56.1	65.5	71.0	82.5				

### Subspecialty: Complex General Surgical Oncology

Resident Year	1	2	Total Residents
# of Residents	59	57	116

1. Patient Care - Patient Care - Hepatobiliary/Pancreas: Evaluation and Multimodality Care



3. Patient Care - Patient Care - Endocrine/Head and Neck: Evaluation and Multimodality Care



5. Patient Care - Patient Care - Gastrointestinal/Gynecology/Thoracic: Evaluation and Multimodality Care



Level 5



#### 2. Patient Care - Patient Care - Hepatobiliary/Pancreas: Technical Aspects of Surgical Interventions





6. Patient Care - Patient Care - Gastrointestinal/Gynecology/Thoracic: Technical Aspects of Surgical Interventions



Note: Please reference milestone narrative for full text. 619 • MILESTONES NATIONAL REPORT 2020

### Subspecialty: Complex General Surgical Oncology

7. Patient Care - Patient Care - Breast: Evaluation and Multimodality Care



9. Patient Care - Patient Care - Melanoma, Sarcoma, Common and Rare Cutaneous and Soft Tissue Malignancies: Evaluation and ...



<sup>11.</sup> Medical Knowledge - General Knowledge Assessment - Medical Knowledge



Note: Please reference milestone narrative for full text.

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10. Patient Care - Patient Care - Melanoma, Sarcoma, Common and Rare Cutaneous and Soft Tissue Malignancies: ...





12. Systems-Based Practice - Systems-Based Practice - Administrative Responsibility

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8. Patient Care - Patient Care - Breast: Technical Aspects of Surgical Interventions

### Subspecialty: Complex General Surgical Oncology

13. Systems-Based Practice - Systems-Based Practice — Coordination and Transitions of Care



15. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement — Scholarly Activity



17. Practice-Based Learning and Improvement - Practice-based Learning and Improvement — Self-Directed Learning



Note: Please reference milestone narrative for full text.





16. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement — Teaching





18. Professionalism - Professionalism — Professionalism and Personal Behavior

### Subspecialty: Complex General Surgical Oncology

19. Professionalism – Professionalism — Ethical Issues in Cancer Patients



21. Professionalism - Professionalism - Healthy Work Environment



23. Interpersonal and Communication Skills - Interpersonal and Communication Skills — Effective Communication  $\ldots$ 





22. Interpersonal and Communication Skills - Interpersonal and Communication Skills — Effective Communication with Patients ...



### 20. Professionalism - Professionalism - Personal Responsibility

### Subspecialty: Pediatric Surgery

Resident Year	1	2	Total Residents
# of Residents	47	40	87

#### 1. Patient Care - Bronchoscopy/Esophagoscopy - Patient Care



3. Patient Care - Inguinal hernia repair on a child less than six months of age - Patient Care



5. Patient Care - Hirschsprung pull through - Patient Care





2. Patient Care - Esophageal atresia/Tracheoesophageal Fistula (TEF) Repair - Patient Care



4. Patient Care - Intestinal/duodenal atresia (DA) repair - Patient Care



6. Patient Care - Wilms/Neuroblastoma Resection - Patient Care



Note: Please reference milestone narrative for full text. 623 • MILESTONES NATIONAL REPORT 2020

### Subspecialty: Pediatric Surgery

7. Patient Care - Congenital Diaphragmatic Hernia Repair — Patient Care



9. Patient Care - General Patient Care Assessment - Patient Care



11. Medical Knowledge - General Knowledge Assessment — Medical Knowledge



Note: Please reference milestone narrative for full text.

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10. Medical Knowledge - Medical Knowledge





12. Systems-Based Practice - Healthcare Delivery and Cost – Systems-Based Practice

#### 8. Patient Care - General Procedure Assessment - Patient Care

#### Subspecialty: Pediatric Surgery

13. Systems-Based Practice - Patient Safety - Systems-Based Practice









17. Professionalism - Integrity - Professionalism

14. Systems-Based Practice - Systems-based Documentation ----Systems-Based Practice 0 Level 5 Level 4



16. Practice-Based Learning and Improvement - Self-directed Learning -Practice-Based Learning and Improvement







### Subspecialty: Pediatric Surgery

19. Professionalism - Behavior and Respect — Professionalism



21. Interpersonal and Communication Skills - Collaborator — Interpersonal and Communication Skills





# 22. Interpersonal and Communication Skills - Patient- and Family-centered Care — Interpersonal and Communication Skills



#### 20. Professionalism - Leadership — Professionalism

### **Subspecialty: Surgical Critical Care**

Resident Year	1	Total Residents
# of Residents	301	301

#### 1. Patient Care - Patient Care - Respiratory Failure



2. Medical Knowledge - Medical Knowledge — Respiratory Failure (Ventilator-Associated Events)



#### 3. Patient Care - Patient Care - Nutritional Support



#### 5. Patient Care - Patient Care — Shock/Resuscitation



4. Medical Knowledge - Medical Knowledge - Nutritional Support



#### 6. Medical Knowledge - Medical Knowledge - Shock/Resuscitation



### Subspecialty: Surgical Critical Care

7. Patient Care - Patient Care - Acute Kidney Injury



#### 9. Patient Care - Patient Care - Trauma and Burns







Note: Please reference milestone narrative for full text.



### 8. Medical Knowledge - Medical Knowledge — Acute Kidney Injury

10. Medical Knowledge - Medical Knowledge - Trauma and Burns







### **Subspecialty: Surgical Critical Care**

13. Patient Care - Patient Care — Neurologic Disorders of Critically-III Patients



15. Patient Care - Patient Care — Gastrointestinal (GI) Disorders of Critically-III Patients



17. Patient Care - Patient Care — Infectious Diseases of Critically-III Surgical Patients



Note: Please reference milestone narrative for full text.











14. Medical Knowledge - Medical Knowledge — Neurologic Disorders of Critically-III Patients

### Subspecialty: Surgical Critical Care

19. Patient Care - Patient Care - Procedural Competence\*



#### 21. Systems-Based Practice - Systems-Based Practice - Coordination and Transitions of Care



23. Practice-Based Learning and Improvement - Practice-Based Learning and Improvement - Teaching



Level 5

Level 4











Note: Please reference milestone narrative for full text.

#### 20. Systems-Based Practice - Systems-Based Practice - Administrative Responsibility

### **Subspecialty: Surgical Critical Care**

25.  $\ensuremath{\mathsf{Professionalism}}$  –  $\ensuremath{\mathsf{Professionalism}}$  and  $\ensuremath{\mathsf{Personal}}$  Behavior



#### 27. Professionalism - Professionalism - Personal Responsibility



29. Interpersonal and Communication Skills - Interpersonal and Communication Skills — Effective Communication with Patients ...



Note: Please reference milestone narrative for full text.



26. Professionalism - Professionalism — Ethical Issues in Critically-III Patients

28. Professionalism - Professionalism - Healthy Work Environment







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### Subspecialty: Vascular Surgery

Resident Year	1	2	Total Residents
# of Residents	126	125	251





2. Patient Care - PC2: Vascular Medicine



#### 3. Patient Care - PC3: Perioperative Care



#### 5. Patient Care - PC5: Technical Skills – Procedural Preparation



4. Patient Care - PC4: Longitudinal Care (e.g., outpatient management, screening, surveillance)



#### 6. Patient Care - PC6: Technical Skills - Open Surgical Skills



Note: Please reference milestone narrative for full text. 632 • MILESTONES NATIONAL REPORT 2020

### Subspecialty: Vascular Surgery

7. Patient Care - PC7: Technical Skills - Endovascular







11. Medical Knowledge - MK3: Procedural Understanding – Basic Procedures (e.g., amputation, basic AV fistula/graft, ...



Note: Please reference milestone narrative for full text.

8. Patient Care - PC8: Vascular Imaging (e.g., computed tomography [CT], magnetic resonance [MR], angiography, ultrasonography)



10. Medical Knowledge - MK2: Procedural Anatomy – Basic Procedures (e.g., amputation, basic AV fistula/graft, ...



12. Medical Knowledge - MK4: Crisis Management – Basic Procedures (e.g., amputation, basic AV fistula/graft,  $\ldots$ 



#### Subspecialty: Vascular Surgery

13. Medical Knowledge - MK5: Procedural Rationale – Intermediate Procedures (e.g., femoral-popliteal bypass, extra-anatomic ...



15. Medical Knowledge - MK7: Procedural Understanding – Intermediate Procedures (e.g., femoral-popliteal ...



17. Medical Knowledge - MK9: Procedural Rationale – Advanced Procedures (e.g., open aortic surgery at all ...



Note: Please reference milestone narrative for full text.

14. Medical Knowledge - MK6: Procedural Anatomy – Intermediate Procedures (e.g., femoral-popliteal bypass, ...



16. Medical Knowledge - MK8: Crisis Management – Intermediate Procedures (e.g., femoral-popliteal bypass, ...



18. Medical Knowledge - MK10: Procedural Anatomy – Advanced Procedures (e.g., open aortic surgery at all levels, mesenteric ...



#### Subspecialty: Vascular Surgery

19. Medical Knowledge - MK11: Procedural Understanding – Advanced Procedures (e.g., open aortic surgery ...



21. Systems-Based Practice - SBP1: Radiation Safety







20. Medical Knowledge - MK12: Crisis Management – Advanced Procedures (e.g., open aortic surgery at all ...



22. Systems-Based Practice - SBP2: Coordination of Care



24. Practice-Based Learning and Improvement - PBLI1: Teaching



#### Subspecialty: Vascular Surgery

25. Practice-Based Learning and Improvement - PBLI2: Self-directed Learning



27. Professionalism - PROF1: Integrity







Note: Please reference milestone narrative for full text.



28. Professionalism - PROF2: Personal Wellbeing







26. Practice-Based Learning and Improvement - PBLI3: Quality Improvement

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### Subspecialty: Vascular Surgery

31. Interpersonal and Communication Skills - ICS2: Communications with Healthcare Team



### Specialty: Vascular Surgery - Integrated

1. Patient Care - PC1: Patient Data

Resident Year	1	2	3	4	5	Total Residents
# of Residents	68	63	65	57	55	308



2. Patient Care - PC2: Vascular Medicine



3. Patient Care - PC3: Perioperative Care



5. Patient Care - PC5: Technical Skills - Procedural Preparation



4. Patient Care - PC4: Longitudinal Care (e.g., outpatient management, screening, surveillance)



6. Patient Care - PC6: Technical Skills - Open Surgical Skills



Note: Please reference milestone narrative for full text. 638 • MILESTONES NATIONAL REPORT 2020

### Specialty: Vascular Surgery - Integrated

7. Patient Care - PC7: Technical Skills - Endovascular



9. Medical Knowledge - MK1: Procedural Rationale – Basic Procedures (e.g., amputation, basic arteriovenous ...



11. Medical Knowledge - MK3: Procedural Understanding – Basic Procedures (e.g., amputation, basic AV fistula/graft, ...



8. Patient Care - PC8: Vascular Imaging (e.g., computed tomography [CT], magnetic resonance [MR], angiography, ultrasonography)



10. Medical Knowledge - MK2: Procedural Anatomy – Basic Procedures (e.g., amputation, basic AV fistula/graft, ...







### **Specialty: Vascular Surgery - Integrated**

13. Medical Knowledge - MK5: Procedural Rationale – Intermediate Procedures (e.g., femoral-popliteal bypass, extra-anatomic ...



15. Medical Knowledge - MK7: Procedural Understanding – Intermediate Procedures (e.g., femoral-popliteal ...



17. Medical Knowledge - MK9: Procedural Rationale – Advanced Procedures (e.g., open aortic surgery at all ...



14. Medical Knowledge - MK6: Procedural Anatomy – Intermediate Procedures (e.g., femoral-popliteal bypass, ...



16. Medical Knowledge - MK8: Crisis Management – Intermediate Procedures (e.g., femoral-popliteal bypass, ...







### **Specialty: Vascular Surgery - Integrated**

19. Medical Knowledge - MK11: Procedural Understanding – Advanced Procedures (e.g., open aortic surgery ...



21. Systems-Based Practice - SBP1: Radiation Safety







20. Medical Knowledge - MK12: Crisis Management – Advanced Procedures (e.g., open aortic surgery at all ...



22. Systems-Based Practice - SBP2: Coordination of Care



24. Practice-Based Learning and Improvement - PBLI1: Teaching



### **Specialty: Vascular Surgery - Integrated**

25. Practice-Based Learning and Improvement - PBLI2: Self-directed Learning



27. Professionalism - PROF1: Integrity







26. Practice-Based Learning and Improvement - PBLI3: Quality Improvement



28. Professionalism - PROF2: Personal Wellbeing







### Specialty: Vascular Surgery - Integrated

31. Interpersonal and Communication Skills - ICS2: Communications with Healthcare Team



### Specialty: Thoracic Surgery (Two-Year)

Resident Year	1	2	Total Residents
# of Residents	74	78	152

1. Patient Care - Ischemic Heart Disease — Patient Care and Technical Skills



included in the analysis.

<sup>3.</sup> Patient Care - Cardiopulmonary Bypass, Myocardial Protection and Temporary Circulatory Support — Patient ...



Note: 14 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### 5. Patient Care - Valvular Disease — Patient Care and Technical Skills



Note: Please reference milestone narrative for full text. 644 • MILESTONES NATIONAL REPORT 2020





Note: 15 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: 14 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Medical Knowledge - Valvular Disease — Medical Knowledge



Note: 15 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.

#### Specialty: Thoracic Surgery (Two-Year)

7. Patient Care - Great Vessel Disease — Patient Care and Technical Skills



#### 9. Medical Knowledge - Congenital Heart Disease — Medical Knowledge



included in the analysis.



11. Patient Care - Esophagus - Patient Care and Technical Skills



Note: 16 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: 16 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.

#### 8. Medical Knowledge - Great Vessel Disease - Medical Knowledge

### Specialty: Thoracic Surgery (Two-Year)

13. Patient Care - Lung and Airway - Patient Care and Technical Skills









17. Patient Care - Critical Care - Patient Care and Technical Skills



included in the analysis.

16. Medical Knowledge - Chest Wall/Pleura/Mediastinum — Medical Knowledge



Note: 13 of 152 residents have a status of "Not Yet Rotated" and are not included in the analysis.





14. Medical Knowledge - Lung and Airway - Medical Knowledge

### Specialty: Thoracic Surgery (Two-Year)

19. Professionalism - Ethics and Values - Professionalism







<sup>23.</sup> Systems-Based Practice - Resource Allocation — Systems-Based Practice



Note: Please reference milestone narrative for full text.



22. Systems-Based Practice - Patient Safety - Systems-Based Practice





24. Systems-Based Practice - Practice Management — Systems-Based Practice

### 20. Professionalism - Personal Accountability - Professionalism

### Specialty: Thoracic Surgery (Two-Year)

25. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and  $\dots$ 





### Note: Please reference milestone narrative for full text.

26. Practice-Based Learning and Improvement - Research and Teaching — Practice-Based Learning and Improvement
| Subcompetency | Threshold        | Yr1, Mid-Year | Yr1, Year-End |
|---------------|------------------|---------------|---------------|
| PC01          |                  |               |               |
|               | $\leq$ Level 5.0 |               |               |
|               | $\leq$ Level 4.5 |               |               |
|               | ≤ Level 4.0      |               |               |
|               | ≤ Level 3.5      |               | 59.7          |
|               | ≤ Level 3.0      |               | 72.7          |
|               | ≤ Level 2.5      | 66.7          | 82.3          |
|               | ≤ Level 2.0      | 82.8          | 87.0          |
|               | ≤ Level 1.5      | 82.9          |               |
|               | ≤ Level 1.0      | 61.0          |               |
|               |                  |               |               |
| PC02          |                  |               |               |
|               | $\leq$ Level 5.0 |               |               |
|               | $\leq$ Level 4.5 |               |               |
|               | $\leq$ Level 4.0 |               |               |
|               | $\leq$ Level 3.5 |               | 59.1          |
|               | ≤ Level 3.0      |               | 72.1          |
|               | ≤ Level 2.5      | 63.9          | 83.9          |
|               | ≤ Level 2.0      | 79.1          | 92.0          |
|               | ≤ Level 1.5      | 80.9          |               |
|               | ≤ Level 1.0      | 70.2          |               |
|               |                  |               |               |
| PC03          |                  |               |               |
|               | ≤ Level 5.0      |               |               |
|               | ≤ Level 4.5      |               |               |
|               | ≤ Level 4.0      |               |               |
|               | ≤ Level 3.5      |               | 65.6          |
|               | ≤ Level 3.0      | 63.3          | 73.0          |
|               | ≤ Level 2.5      | 65.0          | 84.7          |
|               | ≤ Level 2.0      | 76.7          | 90.7          |
|               | ≤ Level 1.5      | 81.2          |               |
|               | ≤ Level 1.0      | 71.9          |               |
|               |                  |               |               |
| PC04          |                  |               |               |
|               | $\leq$ Level 5.0 |               |               |
|               | $\leq$ Level 4.5 |               |               |
|               | $\leq$ Level 4.0 |               |               |
|               | $\leq$ Level 3.5 |               | 63.0          |
|               | $\leq$ Level 3.0 | 58.9          | 70.7          |
|               | $\leq$ Level 2.5 | 63.4          | 85.3          |
|               | ≤ Level 2.0      | 74.0          | 81.0          |
|               | ≤ Level 1.5      | 71.4          | 60.2          |
|               | ≤ Level 1.0      | 50.1          |               |

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PC05			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		58.9
	≤ Level 3.0	56.3	70.1
	$\leq$ Level 2.5	73.6	74.1
	$\leq$ Level 2.0	78.7	78.6
	≤ Level 1.5	68.1	
	≤ Level 1.0		
PC06			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5	47.5	56.4
	$\leq$ Level 3.0	59.0	70.6
	$\leq$ Level 2.5	63.3	81.3
	≤ Level 2.0	77.0	78.3
	≤ Level 1.5		
	≤ Level 1.0		
PC07			
	≤ Level 5.0		
	$\leq$ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5	42.8	53.8
	≤ Level 3.0	50.2	65.9
	$\leq$ Level 2.5	66.0	81.2
	≤ Level 2.0	76.4	88.0
	≤ Level 1.5	54.3	
	≤ Level 1.0	34.0	
PC08			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		59.3
	≤ Level 3.0	48.4	67.9
	≤ Level 2.5	66.5	72.8
	≤ Level 2.0	76.0	66.4
	≤ Level 1.5	61.5	29.4
	≤ Level 1.0	41.9	

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
MK01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		58.4
	≤ Level 3.0		73.9
	$\leq$ Level 2.5	60.1	75.4
	$\leq$ Level 2.0	74.6	82.1
	$\leq$ Level 1.5	75.9	72.3
	$\leq$ Level 1.0	39.8	
MK02			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		57.6
	$\leq$ Level 3.0		73.7
	$\leq$ Level 2.5	52.0	76.1
	$\leq$ Level 2.0	70.9	88.8
	≤ Level 1.5	83.5	50.3
	≤ Level 1.0	43.9	
MK03			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0		
	≤ Level 3.5		59.8
	≤ Level 3.0		69.8
	≤ Level 2.5	63.3	85.4
	≤ Level 2.0	78.9	82.3
	≤ Level 1.5	83.2	50.9
	≤ Level 1.0	55.5	
MK04			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		
	≤ Level 3.5		61.1
	$\leq$ Level 3.0		72.4
	≤ Level 2.5	61.4	82.6
	≤ Level 2.0	75.6	80.6
	≤ Level 1.5	74.4	50.9
	$\leq$ Level 1.0	39.0	30.9
		39.0	

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
MK05			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	≤ Level 3.5	61.4	66.3
	≤ Level 3.0	61.9	73.9
	≤ Level 2.5	72.1	75.8
	≤ Level 2.0	77.6	73.9
	≤ Level 1.5	82.4	50.9
	≤ Level 1.0	43.0	
MK06			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0		
	≤ Level 3.5		
	≤ Level 3.0	67.4	80.4
	$\leq$ Level 2.5	86.4	83.5
	≤ Level 2.0	89.8	78.5
	$\leq$ Level 1.5	82.5	51.8
	$\leq$ Level 1.0	41.8	01.0
		41.0	
MK07			
WIKU/			
	≤ Level 5.0		
	$\leq$ Level 4.5		40.5
	≤ Level 4.0		49.5
	≤ Level 3.5		56.3
	≤ Level 3.0	55.1	58.8
	≤ Level 2.5	64.1	62.6
	$\leq$ Level 2.0	74.3	69.2
	≤ Level 1.5	54.8	
	≤ Level 1.0		
MK08			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0		46.4
	≤ Level 3.5		55.8
	$\leq$ Level 3.0	45.7	56.2
	$\leq$ Level 2.5	66.5	62.5
	$\leq$ Level 2.0	76.3	56.7
	$\leq$ Level 1.5	71.9	
	$\leq$ Level 1.0		

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
MK09			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		57.2
	≤ Level 3.0	58.4	63.4
	≤ Level 2.5	61.7	74.6
	≤ Level 2.0	67.6	82.8
	≤ Level 1.5	66.4	
	≤ Level 1.0	45.2	
MK10		-	
	≤ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		53.7
	$\leq$ Level 3.5	51.0	65.1
	$\leq$ Level 3.0	51.1	70.3
	$\leq$ Level 2.5	75.6	63.7
	$\leq$ Level 2.0	75.1	57.7
	$\leq$ Level 1.5	85.9	
	$\leq$ Level 1.0	29.1	
SBP01			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0	47.1	
	≤ Level 3.5	49.6	57.3
	≤ Level 3.0	53.1	63.5
	≤ Level 2.5	52.4	55.5
	≤ Level 2.0	71.4	80.2
	≤ Level 1.5	84.8	
	≤ Level 1.0	66.2	
SBP02			
	≤ Level 5.0		
	≤ Level 4.5		
	≤ Level 4.0	50.1	
	≤ Level 3.5	56.9	58.1
	$\leq$ Level 3.0	57.8	66.9
	$\leq$ Level 2.5	54.6	52.0
	$\leq$ Level 2.0	72.4	74.3
	≤ Level 2.0	75.9	74.0
	$\leq$ Level 1.0	10.0	

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
SBP03			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0	55.2	56.4
	$\leq$ Level 3.5	55.8	63.5
	$\leq$ Level 3.0	59.5	72.6
	$\leq$ Level 2.5	60.7	65.7
	$\leq$ Level 2.0	64.9	54.6
	$\leq$ Level 1.5	84.6	
	$\leq$ Level 1.0		
PBLI01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5		62.4
	≤ Level 3.0	63.1	68.7
	≤ Level 2.5	77.4	64.7
	≤ Level 2.0	75.4	69.1
	≤ Level 1.5	84.4	
	≤ Level 1.0	72.8	
PBLI02			
	≤ Level 5.0		
	≤ Level 4.5		
	$\leq$ Level 4.0		
	≤ Level 3.5	53.9	67.5
	≤ Level 3.0	65.4	86.3
	≤ Level 2.5	70.5	72.8
	≤ Level 2.0	67.6	83.7
	≤ Level 1.5	91.0	00.7
	≤ Level 1.0	84.3	
	_ LOVOI 1.0		
PROF01			
	≤ Level 5.0		
	$\leq$ Level 3.0 $\leq$ Level 4.5	40.8	
	$\leq$ Level 4.5 $\leq$ Level 4.0		
		42.1	<u> </u>
	≤ Level 3.5	50.8	69.1
	≤ Level 3.0	58.9	77.5
	≤ Level 2.5	57.3	76.4
	≤ Level 2.0	62.0	
	≤ Level 1.5	69.6	
	$\leq$ Level 1.0		

Subcompetency	Threshold	Yr1, Mid-Year	Yr1, Year-End
PROF02			· ·
	≤ Level 5.0		
	$\leq$ Level 4.5	43.6	
	$\leq$ Level 4.0	44.2	
	$\leq$ Level 3.5	57.0	71.6
	≤ Level 3.0	57.9	76.2
	$\leq$ Level 2.5	69.0	81.4
	≤ Level 2.0	71.0	
	≤ Level 1.5	75.8	
	$\leq$ Level 1.0	73.1	
ICS01			
	$\leq$ Level 5.0		
	$\leq$ Level 4.5		
	$\leq$ Level 4.0		
	$\leq$ Level 3.5	49.2	57.9
	$\leq$ Level 3.0	47.8	63.2
	$\leq$ Level 2.5	59.3	56.1
	$\leq$ Level 2.0	71.5	81.0
	$\leq$ Level 1.5	87.9	
	$\leq$ Level 1.0	73.9	

### Specialty: Thoracic Surgery (Three-Year)

Resident Year	1	2	3	Total Residents
# of Residents	29	31	31	91

1. Patient Care - Ischemic Heart Disease — Patient Care and Technical Skills



Note: 12 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.

<sup>3.</sup> Patient Care - Cardiopulmonary Bypass, Myocardial Protection and Temporary Circulatory Support — Patient ...



Note: 11 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.



#### 2. Medical Knowledge - Ischemic Heart Disease - Medical Knowledge







Note: 10 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Medical Knowledge - Valvular Disease — Medical Knowledge



included in the analysis.

### Specialty: Thoracic Surgery (Three-Year)

7. Patient Care - Great Vessel Disease — Patient Care and Technical Skills



#### 9. Medical Knowledge - Congenital Heart Disease — Medical Knowledge







Note: Please reference milestone narrative for full text.



Note: 16 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: 7 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.





8. Medical Knowledge - Great Vessel Disease - Medical Knowledge

#### Specialty: Thoracic Surgery (Three-Year)

13. Patient Care - Lung and Airway - Patient Care and Technical Skills



included in the analysis.











Note: 6 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Chest Wall/Pleura/Mediastinum — Medical Knowledge



Note: 6 of 91 residents have a status of "Not Yet Rotated" and are not included in the analysis.





#### 14. Medical Knowledge - Lung and Airway - Medical Knowledge

### Specialty: Thoracic Surgery (Three-Year)

19. Professionalism - Ethics and Values - Professionalism



# 21. Interpersonal and Communication Skills - Interpersonal and Communication Skills



<sup>23.</sup> Systems-Based Practice - Resource Allocation — Systems-Based Practice



Note: Please reference milestone narrative for full text.



22. Systems-Based Practice - Patient Safety - Systems-Based Practice





24. Systems-Based Practice - Practice Management — Systems-Based Practice

#### 20. Professionalism - Personal Accountability - Professionalism

### Specialty: Thoracic Surgery (Three-Year)

25. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and  $\ldots$ 



26. Practice-Based Learning and Improvement - Research and Teaching - Practice-Based Learning and Improvement



#### **Specialty: Thoracic Surgery - Integrated**

Resident Year	1	2	3	4	5	6	Total Residents
# of Residents	36	36	37	33	30	23	195

1. Patient Care - Ischemic Heart Disease - Patient Care and Technical Skills



included in the analysis.

<sup>3.</sup> Patient Care - Cardiopulmonary Bypass, Myocardial Protection and Temporary Circulatory Support - Patient ...



Note: 16 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.





Note: Please reference milestone narrative for full text.



<sup>2.</sup> Medical Knowledge - Ischemic Heart Disease - Medical Knowledge

**Resident Year** 



4. Medical Knowledge - Cardiopulmonary Bypass, Myocardial Protection and Temporary Circulatory Support - Medical Knowledge



Note: 15 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.

6. Medical Knowledge - Valvular Disease - Medical Knowledge



Note: 14 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.

### **Specialty: Thoracic Surgery - Integrated**

7. Patient Care - Great Vessel Disease - Patient Care and Technical Skills





<sup>9.</sup> Medical Knowledge - Congenital Heart Disease - Medical Knowledge

Note: 64 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.







Note: 13 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.

Resident Year

4

3

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Note: 22 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.

12. Medical Knowledge - Esophagus - Medical Knowledge



Note: Please reference milestone narrative for full text.

#### 8. Medical Knowledge - Great Vessel Disease - Medical Knowledge

### **Specialty: Thoracic Surgery - Integrated**

13. Patient Care - Lung and Airway — Patient Care and Technical Skills















Note: 20 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.

16. Medical Knowledge - Chest Wall/Pleura/Mediastinum — Medical Knowledge



Note: 21 of 195 residents have a status of "Not Yet Rotated" and are not included in the analysis.



18. Medical Knowledge - Critical Care — Medical Knowledge

Note: Please reference milestone narrative for full text.

#### 14. Medical Knowledge - Lung and Airway - Medical Knowledge

#### Specialty: Thoracic Surgery - Integrated

19. Professionalism - Ethics and Values - Professionalism



# 21. Interpersonal and Communication Skills - Interpersonal and Communication Skills



23. Systems-Based Practice - Resource Allocation — Systems-Based Practice



Note: Please reference milestone narrative for full text.



22. Systems-Based Practice - Patient Safety - Systems-Based Practice





24. Systems-Based Practice - Practice Management — Systems-Based Practice

### 20. Professionalism - Personal Accountability — Professionalism

### **Specialty: Thoracic Surgery - Integrated**

25. Practice-Based Learning and Improvement - The ability to investigate and evaluate the care of patients, to appraise and  $\dots$ 







#### **Specialty: Transitional Year**

Resident Year	1	Total Residents
# of Residents	1,583	1,583

#### 1. Patient Care - 1: History



not included in the analysis.

#### 3. Patient Care - 3: Differential Diagnosis and Assessment







Note: Please reference milestone narrative for full text.

2. Patient Care - 2: Physical Examination



Note: 1 of 1,583 residents have a status of "Not Yet Assessable" and are not included in the analysis.

#### 4. Patient Care - 4: Clinical Management



6. Patient Care - 6: Care of Diverse Patients





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### **Specialty: Transitional Year**

7. Medical Knowledge - 1: Clinical Reasoning



#### 9. Systems-Based Practice - 1: Patient Safety and Quality Improvement



11. Systems-Based Practice - 3: Physician Role in Health Care Systems



Note: Please reference milestone narrative for full text.



Note: 59 of 1,583 residents have a status of "Not Yet Assessable" and are not included in the analysis.









#### 8. Medical Knowledge - 2: Procedural Knowledge and Informed Consent

#### **Specialty: Transitional Year**

13. Practice-Based Learning and Improvement - 2: Reflective Practice and Personal Growth



#### 15. Professionalism - 2: Accountability and Conscientiousness



17. Interpersonal and Communication Skills - 1: Patient and Family-Centered Communication



Note: Please reference milestone narrative for full text.



#### 14. Professionalism - 1: Professional and Ethical Behavior









### **Specialty: Transitional Year**

19. Interpersonal and Communication Skills - 3: Communication within Health Care Systems



### Specialty: Urology

Resident Year	1	2	3	4	5	Total Residents
# of Residents	382	359	349	344	311	1,745





3. Patient Care - Develops a patient care plan, including medical, surgical, and/or radiological interventions. ...



5. Patient Care - Performs open surgical procedures. (PC5)













### Specialty: Urology

7. Patient Care - Performs laparoscopic/robot-assisted surgical procedures. (PC7)



9. Medical Knowledge - Surgical Care (MK1)







Note: Please reference milestone narrative for full text.



10. Medical Knowledge - Differential Diagnosis (MK2)







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### Specialty: Urology

13. Systems-Based Practice - Works effectively within and across health delivery systems. (SBP1)  $\,$ 



15. Systems-Based Practice - Works in interprofessional teams to enhance patient safety. (SBP3)



17. Practice-Based Learning and Improvement - Improves via feedback and self-assessment. (PBLI1)



14. Systems-Based Practice - Incorporates cost awareness and riskbenefit analysis into patient care. (SBP2)







18. Practice-Based Learning and Improvement - Learns and improves by asking and answering clinical questions from a patient ...



### Specialty: Urology

19. Practice-Based Learning and Improvement - Acquires the best evidence. (PBLI3)



21. Practice-Based Learning and Improvement - Applies the evidence to decision-making for individual patients. (PBLI5)



23. Practice-Based Learning and Improvement - Participates in the education of other team members. (PBLI7)



20. Practice-Based Learning and Improvement - Appraises the evidence for validity, impact, and applicability. (PBLI4)



22. Practice-Based Learning and Improvement - Improves the quality of care for a panel of patients. (PBLI6)



24. Professionalism - Demonstrates adherence to ethical principles. (P1)



### **Specialty: Urology**

25. Professionalism - Demonstrates compassion, integrity, and respect for others. (P2)



27. Professionalism - Demonstrates respect for patient privacy and autonomy. (P4)



29. Professionalism - Demonstrates sensitivity and responsiveness to diverse populations, including diversity ...



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supersede self-interest. (P3)

Level 5

Level 4



26. Professionalism - Demonstrates responsiveness to patient needs that

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28. Professionalism - Demonstrates accountability to patients, society, and the profession. (P5)



30. Interpersonal and Communication Skills - Communicates effectively with patients and families with diverse socioeconomic ...



### **Specialty: Urology**

31. Interpersonal and Communication Skills - Effectively counsels, educates, and obtains informed consent. (See PC) (ICS2)



33. Interpersonal and Communication Skills - Communicates effectively during care transitions and consultations with fellow ...



32. Interpersonal and Communication Skills - Communicates effectively with physicians, other health professionals, ...



34. Interpersonal and Communication Skills - Works effectively as a member or leader of a health care team  $\dots$ 



### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

Resident Year	1	2	3	Total Residents
# of Residents	10	14	12	36

#### 1. Patient Care - General Pelvic Floor Evaluation — Patient Care



3. Patient Care - Anal Incontinence and Defecatory Dysfunction Treatment — Patient Care







Note: Please reference milestone narrative for full text.

2. Patient Care - Urinary Incontinence and Overactive Bladder Treatment - Patient Care



4. Patient Care - Pelvic Organ Prolapse Treatment - Patient Care



6. Patient Care - Painful Bladder Syndrome Treatment — Patient Care



### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

7. Patient Care - Urinary Tract Infection (UTI) - Patient Care



9. Medical Knowledge - Urinary Incontinence and Overactive Bladder Treatment — Medical Knowledge







8. Medical Knowledge - Pelvic Floor Anatomy and Physiology — Medical Knowledge



10. Medical Knowledge - Anal Incontinence and Defecatory Dysfunction Treatment — Medical Knowledge







#### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

13. Medical Knowledge - Painful Bladder Syndrome Treatment — Medical Knowledge



15. Medical Knowledge - Neuro-Urology - Medical Knowledge



17. Systems-Based Practice - Health Care Economics — Systems-Based Practice



Note: Please reference milestone narrative for full text.

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16. Systems-Based Practice - Computer Systems — Systems-Based Practice



18. Systems-Based Practice - Works and coordinates patient care effectively in various health care delivery ...



14. Medical Knowledge - Urinary Tract Infection - Medical Knowledge

### Subspecialty: Female Pelvic Medicine and Reconstructive Surgery

19. Practice-Based Learning and Improvement - Scholarly Activity — Practice-Based Learning and Improvement









Note: Please reference milestone narrative for full text.

20. Practice-Based Learning and Improvement - Implements Quality Improvement Project — Practice-Based Learning and Improvement



22. Interpersonal and Communication Skills - Health Care Teamwork — Interpersonal and Communication Skills



### Subspecialty: Pediatric Urology

Resident Year	1	Total Residents
# of Residents	20	20

1. Patient Care - Information Gathering, Preoperative/Diagnostic Testing, Differential Diagnosis - Patient Care 1



# 3. Patient Care - Perioperative Care (Fluid and Electrolytes, Pain Management) - Patient Care 3







2. Patient Care - Patient Management/Indications for Surgery/Judgment -Patient Care 2



4. Patient Care - Genital Reconstructive Procedures - Patient Care 4







### Subspecialty: Pediatric Urology

<sup>7.</sup> Patient Care - Laparoscopic/Robotic - Patient Care 7



9. Medical Knowledge - Related Fields of Knowledge (Nephrology, Endocrinology, Radiation Safety, etc.) - Medical Knowledge ...



11. Systems-Based Practice - Cost Awareness and Risk-Benefit Analysis In Patient Care — Systems-Based Practice 2



Note: Please reference milestone narrative for full text.



10. Systems-Based Practice - Working Effectively Within and Across Health Delivery Systems for the Benefit ...







8. Medical Knowledge - Appropriate Competency in Core Domains - Medical Knowledge 1

#### Subspecialty: Pediatric Urology

13. Practice-Based Learning and Improvement - Improves via feedback and self-assessment — Practice-Based ...



# 15. Practice-Based Learning and Improvement - Education of Team Members — Practice-Based Learning and Improvement 3



17. Professionalism - Respect for Patient Privacy and Autonomy — Professionalism 2  $\,$ 



14. Practice-Based Learning and Improvement - Evidence-based Learning — Practice-Based Learning and Improvement 2



16. Professionalism - Work Ethic: Integrity, Altruism, and Teamwork— Professionalism 1







#### Subspecialty: Pediatric Urology

19. Interpersonal and Communication Skills - Communication: Families and Care Givers — Interpersonal and  $\dots$ 



21. Interpersonal and Communication Skills - Communication: Personal Interactions with Physicians, Nurses, ...



20. Interpersonal and Communication Skills - Communication: Children — Interpersonal and Communication Skills 2



22. Interpersonal and Communication Skills - Use of Technology and Information Sharing Modalities to Facilitate  $\ldots$ 

