February 2018

Milestones Supplemental Guide

This document provides additional guidance and examples for the Regional Anesthesiology and Acute Pain Medicine Milestones. This is not designed to indicate any specific requirements for each level, but to provide insight into the thinking of the Milestone Working Group.

Included in this document is the intent of each Milestone and examples of what a Clinical Competency Committee (CCC) might expect to be observed/assessed at each level. Also included are suggested assessment models and tools for each subcompetency, references, and other useful information.

It is important to use this guide in conjunction with the ACGME specialty-specific Program Requirements. Specific language has been included that is best defined through the Program Requirements. One notable area within the requirements is VI.A.2.c) which includes the definitions for levels of supervision:

Levels of Supervision

To promote oversight of fellow supervision while providing for graded authority and responsibility, the program must use the following classification of supervision:

Direct Supervision – the supervising physician is physically present with the fellow and patient.

Indirect Supervision:

with Direct Supervision immediately available – the supervising physician is physically within the hospital or other site of patient care, and is immediately available to provide Direct Supervision.

with Direct Supervision available – the supervising physician is not physically present within the hospital or other site of patient care, but is immediately available by means of telephonic and/or electronic modalities, and is available to provide Direct Supervision.

Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered

We encourage you to review this guide with your CCC and the members of your faculty. As you develop a shared mental model of the Milestones, you can create an individualized guide (Supplemental Guide Template available) with institution/program-specific examples, assessment tools used by the program, and curricular components.

Patient Care 1	Peri-Procedural Assessment and Management
Overall Intent	Formulates and implements a regional anesthetic plan and manages complications.
Level 1 Examples	 Selects interscalene block for shoulder arthroscopy Identifies symptoms of phrenic nerve block
Level 2 Examples	 Modifies approach for a patient with chronic obstructive pulmonary disease (COPD) Identifies and manages symptoms of phrenic nerve block with direct supervision
Level 3 Examples	 Selects interscalene catheter for patient undergoing shoulder arthroplasty Identifies and manages brachial plexus injury with direct supervision
Level 4 Examples	 Modifies approach for patient with severe COPD undergoing shoulder arthroplasty Identifies and manages brachial plexus injury with oversight
Level 5 Examples	 Modifies approach for patient with myasthenia gravis undergoing shoulder arthroplasty Identifies and manages respiratory failure
Assessment Models or Tools	 Direct observation Faculty evaluations Sim Lab performance Objective Structured Clinical Examinations (OSCE)
Notes or Resources	 New York School of Regional Anesthesia (NYSORA) <u>http://www.nysora.com/</u> American Society of Regional Anesthesia and Pain Medicine (ASRA) <u>https://www.asra.com/</u>

Patient Care 2	Acute Pain Management
Overall Intent	Formulates and implements acute pain management plan for surgical and
	non-surgical indications and manages complications.
Level 1 Examples	 Selects multimodal pain management plan for colectomy
	 Evaluates and assesses patient with rib fractures
	 Identifies respiratory depression in a patient on opioids
Level 2 Examples	• Tailors multimodal pain management plan for laparoscopic cholecystectomy
	in a patient with opioid tolerance
	 Formulates a plan for a patient with rib fractures
	Alters opioid dosing and monitors patient for respiratory depression
Level 3 Examples	• Selects multimodal pain management plan for pancreatectomy in a patient
	with chronic abdominal pain already taking opioid and non-opioid pain
	medications
	• Implements plan for multimodal medication regiment and intercostal blocks
	for a patient with rib fractures, with direct supervision
	 Identifies and manages delirium in response to combination of medications, with supervision
Level 4 Examples	Selects multimodal pain management plan for emergent pancreatectomy
	patient with active heroin abuse
	• Implements plan for multimodal medication regiment and intercostal blocks
	for a patient with rib fractures, with oversight
	 Identifies and manages delirium in response to combination of medications, with oversight
Level 5 Examples	 Participates in developing Enhanced Recovery after Surgery and Anesthesia (ERAS)
	 Participates in developing ERAS for patient with rib fracture
	 Identifies and manages Stevens Johnson Syndrome in response to combination of medications
Assessment Models	Direct observation
or Tools	Faculty evaluations
	Sim Lab performance
	OSCE
Notes or Resources	Anesthesia Toolbox has resources available
	 NYSORA <u>http://www.nysora.com/</u> ASRA https://www.asra.com/
	• Up To Date

Patient Care 3	Technical/Procedural Skills
Overall Intent	Demonstrates the ability to perform a wide range of peripheral and neuraxial blocks under various localization methods. Demonstrates the ability to use ultrasound.
Level 1 Examples	Performs popliteal-sciatic nerve block with direct supervision
	Performs lumbar spinal with direct supervision
	 Acquires ultrasound images to identify relevant anatomic structures for routine popliteal block
Level 2 Examples	Performs paravertebral block in a patient with direct supervision
	 Performs lumbar spinal anesthesia in a patient with prior spine fusion with direct supervision
	Adjusts ultrasound time gain compensation to optimize nerve image
Level 3 Examples	 Performs popliteal-sciatic nerve block with oversight
	Performs lumbar spinal with oversight
	 Using ultrasound, identifies relevant anatomic structures in a patient with morbid obesity for a popliteal block
Level 4 Examples	 Performs paravertebral block in a patient with oversight
	 Performs lumbar spinal anesthesia in a patient with prior spine fusion with direct oversight
	 Using ultrasound, identifies existing bypass graft and alters popliteal block location
Level 5 Examples	 Performs paravertebral block in a patient with severe scoliosis
	 Performs lumbar spinal anesthesia in a patient with juvenile rheumatoid arthritis
	Assists hand surgeon to identify aberrant radial nerve prior to surgery
Assessment Models	Direct observation
or Tools	Faculty evaluations
	Task training OSCE
	Checklists
Notes or Resources	Anesthesia Toolbox has resources available
	NYSORA http://www.nysora.com/
	ASRA <u>https://www.asra.com/</u>
	Up To Date

Medical Knowledge:

Medical Knowledge 1	Anatomy, Physiology, and Pharmacology
Overall Intent	Learns and applies anatomy, physiology, and pharmacology as they relate to
	regional anesthesia and acute pain management.
Level 1 Examples	 Identifies the sciatic nerve and surrounding structures
Level 2 Examples	Identifies the individual branches of the sciatic nerve
Level 3 Examples	 Identifies the microanatomy of the sciatic nerve
Level 4 Examples	 Demonstrates an anatomic approach to blockade of the sciatic nerve for various procedures in the lower extremities
Level 5 Examples	 Recognizes and teaches blockade of the sciatic nerve at all levels and for all procedures
Assessment Models or	Direct observation
Tools	Faculty evaluation
	Sim Lab
	• OSCE
Notes or Resources	Workshops
	Cadaver Lab

Medical Knowledge 2	Procedures and Techniques
Overall Intent	Demonstrates versatility in performing neuraxial techniques, using landmarks or image guidance and peripheral nerve blocks, and image guidance and nerve stimulation.
Level 1 Examples	• Knows how to perform spinal or lumbar epidural and basic peripheral nerve blocks including interscalene and supraclavicular brachial plexus block, femoral nerve block, popliteal sciatic nerve block, and transverse abdominis plane (TAP) block
Level 2 Examples	• Knows how to perform thoracic epidural, and more complex peripheral nerve blocks including transgluteal sciatic block, rectus sheath block, and quadratus lumborum block
Level 3 Examples	 Knows how to choose between thoracic epidural and paravertebral block, and performs advanced peripheral nerve block, including paravertebral block, lumbar plexus block, and suprascapular nerve block
Level 4 Examples	Chooses regional anesthetic technique in an anticoagulated patient
Level 5 Examples	• Demonstrates knowledge of newer techniques (e.g., serratus anterior block)
Assessment Models or	Direct observation
Tools	Faculty evaluation
	• Sim Lab
	• OSCE
Notes or Resources	Workshops
	NYSORA <u>http://www.nysora.com/</u>
	ASRA <u>https://www.asra.com/</u>

Medical Knowledge 3	Assessment of Acute Pain
Overall Intent	Demonstrates knowledge of the validated acute pain assessment tools.
Level 1 Examples	 Assesses pain in a patient who has had knee arthroplasty with direct supervision Assesses pain in a patient who has had sickle cell crisis with direct
	supervision
Level 2 Examples	 Assesses pain in a patient who has had knee arthroplasty with oversight Assesses pain in a patient who has had sickle cell crisis with oversight
Level 3 Examples	Assesses pain in a patient with opioid dependence who had knee arthroplasty with direct supervision
	 Assesses pain in a patient with opioid dependence who had sickle cell crisis with direct supervision
Level 4 Examples	 Assesses pain in a patient with opioid dependence who had knee arthroplasty with oversight Assesses pain in a patient with opioid dependence who had sickle cell crisis
Level 5 Examples	 with oversight Provides expert consultation for patient with opioid dependence who had knee arthroplasty
	 Provides expert consultation for patient with opioid dependence who had sickle cell crisis (e.g., use of continuous ketamine)
Assessment Models or Tools	 Direct observation Faculty evaluation Sim Lab OSCE
Notes or Resources	 NYSORA <u>http://www.nysora.com/</u> ASRA <u>https://www.asra.com/</u> Textbooks (e.g., Bonica's Management of Pain) American Board of Anesthesiology's digital library

Systems-based Practice:

Systems-based Practice 1	Patient Safety and Quality Improvement
Overall Intent	Demonstrates competence to engage in the analysis and management of patient safety events, including relevant communication with patients, families, and health care professionals. Is able to conduct a quality improvement project.
Level 1 Examples	 Has basic knowledge of patient safety events, reporting pathways, and quality improvement (QI) strategies, but has not yet participated in any such activities
Level 2 Examples	 Has identified and reported a patient safety issue (real or simulated), along with system factors contributing to that issue Is aware of improvement initiatives within their scope of practice
Level 3 Examples	 Has reviewed a patient safety event (e.g., preparing for morbidity and mortality (M&M) presentations, joining a Root Cause Analysis [RCA] group) and has communicated with patients/families about such an event Has participated in a QI project, though they may not have yet designed a QI project
Level 4 Examples	 Collaborates with a team to lead the analysis of a patient safety event and can competently communicate with patients/families about those events Has initiated and completed a QI project, including communication with stakeholders
Level 5 Examples	 Competently assumes a leadership role at the departmental or institutional level for patient safety and/or QI initiatives, possibly even being the person to initiate action or call attention to the need for action
Assessment Models or Tools	 Simulation Reflection Direct observation at bedside or in meetings E-module multiple choice tests Chart or other system documentation by fellow Documentation of QI or patient safety project processes or outcomes 360 evaluations Portfolio
Notes or Resources	 Institute of Healthcare Improvement website (<u>http://www.ihi.org/Pages/default.aspx</u>) which includes multiple choice tests, reflective writing samples, and more

Systems-based Practice 2	System Navigation for Patient Centered Care
Overall Intent	Effectively navigates the health care system, including the interdisciplinary
	team and other care providers, to adapt care to a specific patient population to
	ensure high-quality patient outcomes.
Level 1 Examples	Identifies the members of the interprofessional team and describes their
·	roles; is not routinely utilizing team members or accessing resources
	Lists the essential components of an effective sign-out
	Identifies components of social determinants of health and how they impact
	the delivery of patient care
Level 2 Examples	Contacts interprofessional team members, such as social workers and
	consultants, but requires supervision to ensure all necessary referrals are
	made and resource needs are arranged
	Performs a basic sign-out but still needs direct supervision to identify sick
	versus not sick, and anticipatory guidance for overnight events to the night
	team or next incoming team for a new block
	Identifies different populations within own panel of patients and/or the local
	community
	 Knows which patients are at high risk due for specific health outcomes
	related to health literacy concerns, cost, LGBTQ status, etc.
Level 3 Examples	
Level 5 Examples	• For a post-myocardial infarction patient, the fellow arranges for a nutritionist,
	occupational therapy (OT)/physical therapy(PT), and follow up appointments
	Provides effective anticipatory guidance for unstable patients including
	medication reconciliation and checklists to transition from operating room
	(OR) to floor
	• Appreciates the need for and utilizes clinic or local resources, such as the
	social worker/health navigator, to ensure patients with low literacy
	understand how to schedule a procedure
Level 4 Examples	Role models and educates students and junior team members regarding the
	engagement of appropriate interprofessional team members as needed for
	each patient, and ensures the necessary resources have been arranged
	• Proactively calls the outpatient doctor to ensure a discharged patient can
	get their international normalized ratio (INR) checks, provides efficient
	handoff to the intensive care unit (ICU) team at the end of a rapid response
	event, coordinates and prioritizes consultant input for a new high risk
	diagnosis (such as malignancy) to ensure the patient gets appropriate
	follow-up
	• Performs panel reviews to identify patients who are not up to date on pap
	smears and facilitates their return to the office; identifies patient populations
	at high risk for poor post-operative outcomes due to health disparities and
	implements strategies to improve care
Level 5 Examples	Works with hospital or ambulatory site team members or leadership to analyze are accretion in that acting, and takes a leadership role in
	analyze care coordination in that setting, and takes a leadership role in
	designing and implementing changes to improve the care coordination
	process
	Works with a QI mentor to identify better hand-off tools or to improve
	teaching sessions
	Designs a social determinants of health curriculum to help others learn to
	identify local resources and barriers to care; effectively utilizes resources,

	such as telehealth, for proactive outreach to prevent emergency department (ED) visits or readmission for high-risk populations
Assessment Models or Tools	 Direct observation (including discussion during rounds and case presentations) OSCE, chart review Review of sign-out tools, utilization of checklists between units, from the OR to peri-/post-operative care, or from the ED to an inpatient unit 360 feedback from the interprofessional team Panel management quality metrics and goals mined from Electronic Health Records Lectures/workshops on social determinants of health or population health with identification of local resources
	 Interdisciplinary rounds for high risk patients
Notes or Resources	

Systems-based Practice 3	Physician Role in Health Care Systems
Overall Intent	Understands his/her role in the complex health care system and how to optimize
	the system to improve patient care and the health system's performance.
Level 1 Examples	 Recognizes the multiple, often competing forces, in the health care system (e.g., name all the providers and systems involved in discharging a patient on ambulatory perineural infusion) Compares payment systems, such as Medicare, Medicaid, the VA, and commercial third party payers, and contrast practice models, such as a patient- centered medical home and an Accountable Care Organization; compares and contrasts types of health benefit plans, including preferred provider organization (PPO) and health maintenance organization (HMO) Understands the impact of health plan features, including formularies and network requirements; demonstrates knowledge that is theoretical, and is unable to apply this knowledge to the care of patients without a great direct attending input and prompting Completes a note template following a routine patient encounter and apply
Level 2 Examples	 appropriate coding in compliance with regulations with direct supervision Understands how improving patient satisfaction improves patient adherence and remuneration to the health system; is not yet able to consistently think through clinical redesign to improve quality; does not yet modify personal practice to enhance outcomes Applies knowledge of health plan features, including formularies and network requirements in patient care situations Completes a note template following a routine patient encounter and apply appropriate coding in compliance with regulations, with oversight
Level 3 Examples	 Understands, accesses, and analyzes his/her own individual performance data; relevant data may include: vaccination rates of infants in a fellow's clinic practice; surgical site infection rate of the fellow's post-op patients; central line-associated bloodstream infections (CLABSI) in patients in whom the fellow has placed central lines; A1c of the fellow's patients with diabetes; percentage of patients the fellow intubated had an appropriate "ventilator bundle" implemented; receives data related to readmission rates and begin working on improving transitions of care for his/her patients Uses shared decision and adapts the choice of the most cost-effective medications depending on the relevant formulary Understands process of contract negotiations, choosing malpractice insurance carriers and features, and reporting requirements for MACRA/MIPS
Level 4 Examples	 Works collaboratively with pertinent stakeholders to increase community influenza vaccination rates to decrease ED overcrowding during influenza season, improves surgical start times, increasing the percentage of procedures that include a "time out" or improve informed consent for non-English speaking patients requiring interpreter services Works collaboratively with the institution to improve patient assistance resources or design the institution's community health needs assessment, or develop/implement/assess the resulting action plans; Applies knowledge of contract negotiations, choosing malpractice insurance carriers and features, and reporting requirements for MACRA/MIPS

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Level 5 Examples	 Decreases opioid prescribing on one or more clinical services, incorporates e- consults into the electronic health record, publishes original research in a peer reviewed journal Works with community or professional organizations to advocate for no smoking ordinances
Assessment Models or Tools	 Direct observation: how fellows reflect their knowledge of components in the health care system in their care of patients (e.g., understanding the requirements of Medicare prior to transfer to a skilled nursing facility, or the requirements for home oxygen in order for it to be reimbursed) Chart review/audit of patient care: The fellow's individual performance data should be benchmarked to aggregate at institutional, regional, and national level. Fellows could complete a chart review or audit as part of a quality improvement project. OSCE: A Systems-based Practice observational record of the caregiving environment (ORCE) could be specifically developed for the fellow to demonstrate knowledge of health care systems as both a formative and summative activity. It should include a checklist of explicit behaviors the fellow's quality improvement project (perhaps as part of a portfolio): The fellow's quality improvement project may serve as an excellent assessment model/tool to assess this subcompetency. The program can develop criteria to ensure the fellow is able to access and analyze personal practice data, and work with others to design and implement action plans, and subsequently evaluate the outcome and the impact of the plan(s). Examples include receiving clinical performance data such as readmission rates, number of patients seen in clinic, or quality metrics for patients with diabetes. Multiple choice test: The specialty (and/or the institution) may develop a multiple choice test to evaluate basic fellow knowledge of focused content such as government regulation, MACRA, malpractice insurance.
Notes or Resources	 Physician Performance Measurement and Reporting Introduction (content and case studies): <u>http://www.nationalalliancehealth.org/Physician-Performance-Measurement-Reporting-Introduction</u> The Merit-based Incentive Payment System: Advancing Care Information and Improvement Activities Performance Categories. December 2016 <u>https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/MIPS-ACI-and-IA-presentation.pdf</u> Center for Medicare and Medicaid Services: MIPS and MACRA <u>https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/MACRA-MIPS-and-APMs/MACRA-MIPS-and-APMs.html</u> Agency for Healthcare Research and Quality (AHRQ): The Challenges of Measuring Physician Quality <u>https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/challenges.html</u> Major physician performance sets: <u>https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/measurementsets.html</u> The Kaiser Family Foundation: Topics include health reform, health costs, Medicare, Medicare, private insurance, uninsured: <u>www.kff.org and http://kff.org/health-reform/</u> The National Academy for Medicine (formerly the Institute of Medicine): Dzau VJ McClellan M Burke S Coye MJH Daschle TA Diaz A Frist WH Gaines ME Hamburg MA Henney JE Kumanyika S Leavitt MO McGinnis M Parker R

Sandy LG Schaeffer LD Steele GD Thompson
P Zherhouni E. Vital Directions for Health and Health Care: A Policy Initiative of
the National Academy of Medicine. March 21, 2017:
https://nam.edu/initiatives/vital-directions-for-health-and-health-care/
https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-
academy-of-medicine-initiative/
The Commonwealth Fund Health System Data Center:
http://datacenter.commonwealthfund.org/?_ga=2.110888517.1505146611.1495
417431-1811932185.1495417431#ind=1/sc=1
Health Reform Resource Center:
http://www.commonwealthfund.org/interactives-and-data/health-reform-
resource-
center#/f:@facasubcategoriesfacet63677=[Individual%20and%20Employer%20
Responsibility]
• ABIM Practice Assessment: Modules that physicians can use to assess
clinical practice practice: http://www.abim.org/maintenance-of-
certification/earning-points/practice-assessment.aspx

Practice-based Learning and Improvement 1	Evidence-Based and Informed Practice
Overall Intent	Incorporates evidence and patient values into clinical practice.
Level 1 Examples	Identifies evidence for neuraxial anesthesia in the setting of joint arthroplasty
Level 2 Examples	Identifies evidence for neuraxial anesthesia in a patient with aortic stenosis undergoing joint arthroplasty
Level 3 Examples	Applies available evidence for anesthetic options in a patients with aortic stenosis and decides between general and neuraxial anesthesia
Level 4 Examples	• Identifies lack of evidence related to continuous spinal anesthesia in patients with aortic stenosis undergoing joint arthroplasty
Level 5 Examples	 Creates a local hospital guideline to aid decision making related to anesthesia options for patients with aortic stenosis
Assessment Models or Tools	 Direct observation Fellow portfolio Simulation (OSCE) Oral or written examination
Notes or Resources	

Practice-based Learning and Improvement:

Practice-based Learning and Improvement 2	Reflective Practice and Commitment to Personal Growth
Overall intent	Seeks clinical performance information with the intent to improve care. Reflects on all domains of practice, personal interactions, and behaviors, and their impact on patients and colleagues (reflective mindfulness). Develops clear objectives and goals for improvement in some form of a learning plan
Level 1 Examples	 Is aware of need to improve Is beginning to seek ways to figure out what to work on to improve and make some non-specific goals that may be difficult to execute and achieve
Level 2 Examples	 Increasingly able to identify what to work on in terms of patient care; uses feedback from others After working on wards with him/her for a week, asks attending about ways to talk with patients that is easier to understand Uses feedback with a goal of improving communication skills with patients the following week
Level 3 Examples	 Takes input from nursing staff, peers, and supervisors to gain complex insight into personal strengths and areas to improve Humbly acts on input and is appreciative and not defensive May be beginning to document goals in a more specific and achievable manner, such that attaining them is measureable
Level 4 Examples	 Is clearly in the habit of making a learning plan for each rotation Consistently identifies ongoing gaps and chooses areas to work on
Level 5 Examples	 Actively discusses learning goals with supervisors and colleagues; may encourage other learners on the team to consider how their behavior affects the rest of the team
Assessment Models or Tools	Direct observationReview of learning plan
Notes or Resources	 Hojat M, Veloski JJ, Gonnella JS. Measurement and correlates of physicians' lifelong learning. <i>Academic Medicine</i> 2009. Aug;84(8):1066-74. doi: 10.1097 /ACM. 0b013e 3181acf25f. <i>Contains a validated questionnaire about physician lifelong learning.</i> Lockspeiser TM, Schmitter PA, Lane JL et al. Assessing Fellows' Written Learning Goals and Goal Writing Skill: Validity Evidence for the Learning Goal Scoring Rubric. Academic Medicine 2013. 88 (10) Burke AE, Benson B, Englander R, Carraccio C, Hicks PJ. Domain of competence: practice-based learning and improvement. <i>Academic Pediatrics</i> 2014. 14: S38-S54.

Supplemental Guide for Regional Anesthesiology and Acute Pain Medicine Professionalism:

Professionalism 1	Professional Behavior and Ethical Principles
Overall Intent	Recognizes and addresses lapses in ethical and professional behavior,
	demonstrates ethical and professional behaviors, and utilizes appropriate
	resources for managing ethical and professional dilemmas
Level 1 Examples	 Identifies and describes potential triggers for professionalism lapses, describes when and how to appropriately report professionalism lapses, and outlines strategies for addressing common barriers to reporting Discusses the basic principles underlying ethics (beneficence, nonmaleficence, justice, autonomy) and professionalism (professional values and commitments), and how they apply in various situations (e.g., informed consent process)
	Obtains informed consent for procedures
Level 2 Examples	 Demonstrates professional behavior in routine situations and uses ethical principles to analyze straightforward situations, such as those where: there are no or few conflicts (between values or patients) the fellow may be tired or hungry, but is not excessively fatigued, overwhelmed, or otherwise distressed workload is not unusually high, and there is no significant time pressure to make decisions Acknowledges a lapse without becoming defensive, making excuses, or blaming others
	 Apologizes for the lapse when appropriate and taking steps to make amends if needed
	 Articulates strategies for preventing similar lapses in the future
Level 3 Examples	 Analyzes complex situations, such as how the clinical situation evokes strong emotions, conflicts (or perceived conflicts) between patients or between professional values; the fellow navigates a situation while not at his/her personal best (due to fatigue, hunger, stress, etc.), or the system poses barriers to professional behavior (e.g., inefficient workflow, inadequate staffing, conflicting policies) Recognizes own limitations and seeks resources to help manage and resolve complex ethical situations Analyzes difficult real or hypothetical ethics and professionalism case scenarios or situations, recognizes own limitations, and consistently demonstrates professional behavior
Level 4 Examples	Monitors and responds to fatigue, hunger, stress, etc. in self and team members
	 Recognizes and responds effectively to the emotions of others Actively seeks to consider the perspectives of others Models respect for patients and expects the same from others Recognizes and utilizes appropriate resources for managing and resolving ethical dilemmas (e.g., ethics consultations, literature review, risk management/legal consultation)
Level 5 Examples	 Coaches others when their behavior fails to meet professional expectations, either in the moment (for minor or moderate single episodes of unprofessional behavior) or after the moment (for major single episodes or repeated minor to moderate episodes of unprofessional behavior) Identifies and seeks to address system-wide factors or barriers to promoting a culture of ethical and professional behavior through participation in a work

	group, committee, or taskforce (e.g., ethics committee or an ethics sub- committee, risk management committee, root cause analysis review, patient safety or satisfaction committee, professionalism work group, IRB, fellow grievance committee, etc.
Assessment Models	Direct observation
or Tools	Global evaluation
	Multisource feedback
	• OSCE
	Mentor and program director observations
	• Oral or written self-reflection (e.g., of a personal or observed lapse, ethical
	dilemma, or systems-level factors)
	Simulation
Notes or Resources	 American Society of Anesthesiologist Code of Ethics Guidelines. (https://www.asahq.org/resources/ethics-and-professionalism) American Medical Association Code of Ethics. <u>https://www.ama-assn.org/delivering-care/ama-code-medical-ethics</u> American Board of Internal Medicine; American College of Physicians-American Society of Internal Medicine; European Federation of Internal Medicine. <u>Medical professionalism in the new millennium: a physician charter</u>. Ann Intern Med. 2002;136:243-246. Byyny RL, Papadakis MA, Paauw DS. <u>Medical Professionalism Best Practices</u>. 2015 by Alpha Omega Alpha Medical Society, Menlo Park, CA. Levinson W, Ginsburg S, Hafferty FW, Lucey CR. <u>Understanding Medical Professionalism</u>. McGraw-Hill Education, 2014.

Professionalism 2	Accountability/Conscientiousness
Overall Intent	Takes responsibility for his/her actions and the impact on patients and other members of the health care team.
Level 1 Examples	 Takes responsibility for not getting informed consent for performing peripheral nerve block
Level 2 Examples	 Completes routine tasks and recognizes when he/she will have trouble completing a task (e.g., description of nerve block and its potential complication)
Level 3 Examples	 Completes tasks in stressful situations and preempts issues that would impede completion of tasks (e.g., recognition of intervascular injection of local anesthetic solution and ability to prevent cardiovascular collapse)
Level 4 Examples	 Identifies issues that could impede others from completing tasks and provides leadership to address those issues (e.g., senior fellows advise interns how to manage their time in completing patient care tasks) Follows current evidence-based guidelines for performance of central neuraxial blockade
Level 5 Examples	 Sets up a meeting with the nurse manager to streamline patient discharges Takes responsibility for potential adverse outcomes from peripheral nerve block and professionally discusses this with the interprofessional team
Assessment Models or Tools	 Direct observation Multisource global evaluations Self-evaluations Compliance with deadlines and timelines Simulation OSCE Mentor and program director observations
Notes or Resources	 ASA Code of ethics (https://www.asahq.org/resources/ethics-and-professionalism website insert) Code of conduct from fellow institutional manual

Professionalism 3	Self-Awareness and Help-Seeking
Overall Intent	Identifies, uses, manages, improves, and seeks help for personal and
	professional well-being for self and others.
Level 1 Examples	 Accepts feedback and exhibits positive responses to criticism
Level 2 Examples	 Identifies possible sources of personal stress or lack of clinical knowledge and independently seeks help
Level 3 Examples	 With supervision, assists in developing a personal learning or action plan to address gaps in knowledge or stress and burnout for self or team
Level 4 Examples	 Independently develops personal learning or action plans for continued personal and professional growth, and limits stress and burnout for self or team
Level 5 Examples	 Mentors patients and colleagues in self-awareness and establishes health management plans to limit stress and burnout
Assessment Models	Direct observation
or Tools	 Self-assessment and personal learning plan
	Individual interview
	 Group interview or discussions for team activities
	 Participation in institutional well-being programs
	 Mentor and program director observations
	Institutional online training modules
Notes or Resources	Local resources, including Employee Assistance

Interpersonal and Communication Skills:

Interpersonal and	Patient- and Family-Centered Communication
Communication Skills 1 Overall Intent	Deliberately uses language and behaviors to form a therapeutic relationship
	with a patient and his/her family, to identify communication barriers, including
	self-reflection on personal biases, and minimize them in the doctor-patient
	relationship. Organizes and leads communication around shared decision- making.
Level 1 Examples	 Self-monitors and controls tone, non-verbal responses, and language and
	asks questions to invite the patient's participation
	• Accurately communicates the role of the health care system to patients,
	families, and colleagues and identifies common communication barriers
	(e.g., loss of hearing, language, aphasia) in patient and family encountersIdentifies the need to communicate specifically about a patient's pain
	trajectory after assessing that the patient and family are very anxious about
	time left and may be underestimating this
Level 2 Examples	• Establishes a developing, therapeutic relationship with a patient, reaching
	below the surface to know the patient (e.g., demonstrates patient- centeredness with active listening, attention to affect, and questions that
	explore the patient's personhood)
	• Identifies complex communication barriers (e.g., culture, religious beliefs,
	health literacy) in patient and family encounters
	 Leads an agenda-driven discussion about acute pain management with the patient, family, and primary care team, reassessing the patient's and family's
	understanding and anxiety
Level 3 Examples	• Establishes and maintains a therapeutic relationship with a challenging
	patient (e.g., angry, non-adherent, substance seeking, mentally challenged, etc.), and articulates personal challenges in the relationship, how their
	personal biases may impact the relationship, and strategies to use going
	forward
	Attempts to mitigate identified communication barriers, including reflection
	on implicit biases (e.g., preconceived ideas about patients of certain race or weight) when prompted
	 Moves beyond assessing the patient's/family's understanding to deliver
	meaningful information related to acute pain management and elicits what is
	most important to the patient and family going forward
Level 4 Examples	 Acknowledges uncertainty in a patient's medical complexity and prognosis Establishes a cordial relationship with the most challenging or complex
	patients/families with sensitivity to their specific concerns
	 Independently anticipates and proactively addresses communication
	barriers, including recognition of own implicit biases, and intuitively
	recognizes and controls these biases so they have less impact on a more complex physician-patient relationship
	 Independently engages in shared decision-making with the patient and
	family, including a recommended acute pain management plan to align a
	patient's unique goals with treatment options
Level 5 Examples	 Role models and supports colleagues in self-awareness and reflection to improve therapeutic relationships with patients, and demonstrates intuitive
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	understanding of a patient's perspective; uses a contextualized approach to minimize barriers for patients and colleagues
	 Role models proactive self-awareness and reflection around explicit and implicit biases with a context-specific approach to mitigating communication barriers Leads shared decision making with clear recommendations to patients and families even in more complex clinical situations
Assessment Models or Tools	 Attending assessment of patient/family encounters Standardized patients or structured case discussions Patient/family encounters Self-assessment including self-reflection exercises Mini-clinical evaluation exercise (CEX) Kalamazoo Essential Elements Communication Checklist (Adapted) Skills needed to set the state, Elicit information, Give information, Understand the patient, and End the encounter (SEGUE) SECURE
Notes or Resources	 Laidlaw A, Hart J. Communication skills: an essential component of medical curricula. Part I: Assessment of clinical communication: AMEE Guide No. 51. Med Teach. 2011;33(1):6-8. Makoul G. Essential Elements of Communication in Medical Encounters: The Kalamazoo Consensus Statement. Academic Medicine 2001;76:390-393. Makoul G. The SEGUE Framework for teaching and assessing communication skills. Patient Educ Couns 2001;45(1):23-34. O'Sullivan P, Chao S, Russell M, Levine S, Fabiny A. Development and implementation of an objective structured clinical examination to provide formative feedback on communication and interpersonal skills in geriatric training. J Am Geriatr Soc 2008;56(9):1730-5. Symons AB, Swanson A, McGuigan D, Orrange S, Akl EA. A tool for self-assessment of communication skills and professionalism in fellows. BMC Med Educ 2009; 9:1. American Academy of Hospice and Palliative Medicine: Hospice and Palliative Medicine Competencies Project. http://aahpm.org/fellowships/competencies#competencies-toolkit accessed June 6, 2017.

Interpersonal and Communication Skills 2	Interprofessional and Team Communication
Overall Intent	Effectively communicates with the health care team, including with
	consultants, in both straightforward and complex situations.
Level 1 Examples	 Shows respect in health care team communications through words and actions Listens to and considers others' points of view, is nonjudgmental and actively engaged, and demonstrates humility
Level 2 Examples	 Communicates clearly and concisely in an organized and timely manner during consultant encounters, as well as with the health care team in general
Level 3 Examples	 Verifies understanding of his/her communications within the health care team (i.e., closed loop communications, restating), and raises concerns or provides opinions and feedback when needed to others on the team Uses teach-back or other strategies to assess receiver understanding during consultations Demonstrates active listening by fully focusing on the patient or surrogate, actively showing verbal and non-verbal signs (eye contact, posture, reflection, questioning, or summarization) Respectfully provides feedback for the purposes of improvement or reinforcement of correct knowledge, skills, and attitudes Inconsistently provides feedback or constructive criticism to superiors; unable to consistently manage conflict between team members
Level 4 Examples	 Offers suggestions to negotiate or resolve conflicts related to patient care among health care team members; raises concerns or provides opinions and feedback, when needed, to superiors on the team
Level 5 Examples	 Communicates with all health care team members, resolves conflicts, and provides feedback in any situation Adapts communication strategies in handling complex situations
Assessment Models or Tools	 Direct observation Global assessment Multi-source assessment Simulation encounters Standardized patient encounters or OSCE Checklists Record or chart review
Notes or Resources	 François, J. (2011). Tool to assess the quality of consultation and referral request letters in family medicine. Canadian Family Physician, 57(5), 574–575. Consultant Evaluation of Faculty form in Dehon E, Simpson K, Fowler D, Jones A. Development of the faculty 360. MedEdPORTAL Publications. 2015;11:10174. <u>http://doi.org/10.15766/mep_</u>2374-8265.10174.

Interpersonal and Communication Skills 3	Communication within Health Care Systems
Overall Intent	Effectively communicates using a variety of methods.
Level 1 Examples	 Notes are accurate but include extraneous information Identifies medical errors and near misses, but does not know how to use the reporting system
Level 2 Examples	 Notes are organized and accurate but still contain extraneous information, such as all vital signs collected over the past 24 hours or irrelevant lab results Recognizes that a communication breakdown has happened during sign-out and respectfully brings the breakdown to the attention of the chief fellow or
	 faculty member Unable to identify potential solutions to a system breakdown and is unable or uncomfortable raising concerns directly with colleagues
Level 3 Examples	 Documentation is accurate, organized, and concise with no extraneous information, but inconsistently contains anticipatory (if/then) guidance Identifies an incident in which a communication breakdown occurred and offers constructive suggestions for how to improve the system; requires supervision or support to talk to a colleague about the incident
Level 4 Examples	 Notes are exemplary, but is not yet able to provide feedback to colleagues who are insufficiently documenting Talks directly to a colleague about breakdowns in communication in order to prevent recurrence
Level 5 Examples	 Teaches colleagues how to improve clinical notes, including terminology, billing compliance, conciseness, and inclusion of all required elements Leads a task force established by the hospital QI committee to develop a plan to improve housestaff hand-offs
Assessment Models or Tools	 Chart (HPI, progress notes, procedure notes, discharge summary) audit Observation of sign-outs, observation of requests for consultations 360 evaluation of chart documentation Chart stimulated recall exercise addressing systems based practice
Notes or Resources	 Jennifer A. Bierman, Kathryn Kinner Hufmeyer, David T. Liss, A. Charlotta Weaver & Heather L. Heiman (2017): Promoting Responsible Electronic Documentation: Validity Evidence for a Checklist to Assess Progress Notes in the Electronic Health Record, Teaching and Learning in Medicine, Starmer, Amy J., et al. "I-pass, a mnemonic to standardize verbal handoffs."Pediatrics 129.2 (2012): 201-204.