

Supplemental Guide: Urology



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Milestones Supplemental Guide

This document provides additional guidance and examples for the Urology Milestones. This is not designed to indicate any specific requirements for each level, but to provide insight into the thinking of the Milestone Work 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.

Review this guide with the CCC and faculty members. As the program develops a shared mental model of the Milestones, consider creating an individualized guide (Supplemental Guide Template available) with institution/program-specific examples, assessment tools used by the program, and curricular components.

Additional tools and references, including the Milestones Guidebook, Clinical Competency Committee Guidebook, and Milestones Guidebook for Residents and Fellows, are available on the <u>Resources</u> page of the Milestones section of the ACGME website.

Patient Care 1: Patient Evaluation Overall Intent: To efficiently obtain and synthesize the history, physical exam, and collateral patient data to develop an appropriate	
management plan Milestones	Examples
Wilestones	All examples relate to a patient with hematuria and its potential causes
Level 1 Obtains history and physical exam to form a patient assessment	 Obtains a history and physical exam for a patient with hematuria; identifies risk factors and determines if work-up is indicated Confirms dipstick hematuria with a microscopic urinalysis Differentiates between gross hematuria and microscopic hematuria
Level 2 Evaluates patients; orders and interprets diagnostic testing	 Recognizes contaminated urine specimens and orders a catheterized specimen Orders appropriate radiographic imaging and endoscopic evaluation Interprets computerized tomography (CT) scans and ultrasounds Identifies indications for cytology
Level 3 Develops a plan to manage patients with straightforward conditions	 Develops a plan for pertinent findings and results of initial work-up of a small bladder tumor Develops a plan for a renal pelvic stone Identifies indications for continuous bladder irrigation As the condition worsens, recognizes the need to escalate care
Level 4 Develops a plan to manage patients with complex conditions and adapts plan for changing clinical situation	 Manages refractory hemorrhagic cystitis patients Manages unstable hemorrhage after partial nephrectomy
Level 5 Develops a clinical pathway for the management of patients with complex conditions or identifies clinical trials for patients	 Develops an institutional clinical algorithm for managing patients with radiation cystitis Refers and counsels patients with metastatic bladder cancer for appropriate clinical trial
Assessment Models or Tools	 Clinical case discussion assessment Direct observation End-of-rotation evaluation Medical record (chart) audit Multisource feedback Observed structured clinical examination Simulation
Curriculum Mapping	
Notes or Resources	 AUA University. Guidelines. <u>https://www.auanet.org/guidelines</u>. 2019. AUA University. AUA Urology Core Curriculum. <u>https://auau.auanet.org/core</u>. 2019. AUA University. Update series volume. <u>https://auau.auanet.org/courses/published?title=Update%20Series%20Volumeℴ=title%sort=desc</u>. 2019.

Wein AJ, Kavoussi LR, Partin AW, Peters CA. Campbell-Walsh Urology. 11th ed. Philadelphia, PA: Elsevier; 2015. ISBN: 978-1455775675.

Patient Care 2: Peri-Procedural Care	
physiologic alterations and complications	e pre-operative, intra-operative, and post-operative management of patients, including
Milestones	Examples
Level 1 Identifies alterations in normal physiology	 Identifies post-operative hypotension, fever, or tachycardia Selects appropriate pre-operative antibiotics Appropriately selects prophylaxis for venous thromboembolism
Level 2 Accurately and reliably gathers and reports clinical information pertaining to common peri-procedural alterations and complications Level 3 Independently identifies and prioritizes tasks necessary for management of common peri-procedural alterations and complications	 Orders appropriate testing for chest pain Orders appropriate work-up for fever Performs appropriate workup of altered mental status Manages oliguria after sacrocolpopexy or sling Manages post-operative anemia Manages hypotension in a postoperative partial nephrectomy
Level 4 Independently identifies and prioritizes tasks necessary for management of complex and/or less common peri-procedural alterations and complications	 Manages continuous bladder irrigation Manages infected lymphocele following pelvic lymphadenectomy Manages chylous ascites after xanthogranulomatous pyelonephritis nephrectomy Manages pheochromocytoma using pharmacology Recognizes the need for and initiates early parenteral nutrition support
Level 5 Proactively recognizes potential risk factors for complications, and implements measures to prevent or mitigate them, applying effective team management skills to manage multiple scenarios simultaneously	 Manages septic shock in immunosuppressed coagulopathic patient Manages multidisciplinary care for a patient with pelvic fracture and posterior urethral disruption
Assessment Models or Tools	 Clinical case discussion assessment Direct observation End-of-rotation evaluation Medical record (chart) audit Multisource feedback Observed structured clinical examination Simulation
Curriculum Mapping Notes or Resourcesadd one for prioritization	 AUA University. AUA Urology Core Curriculum. <u>https://auau.auanet.org/core</u>. 2019. AUA University. Update series volume. <u>https://auau.auanet.org/courses/published?title=Update%20Series%20Volumeℴ=title%sort=desc</u>. 2019. Wein AJ, Kavoussi LR, Partin AW, Peters CA. <i>Campbell-Walsh Urology</i>. 11th ed. Philadelphia, PA: Elsevier; 2015. ISBN: 978-1455775675.

2017. ISBN:9780323392426.

Patient Care 3: Endoscopic Procedures Overall Intent: To perform endoscopic procedures safely and efficiently	
Milestones	Examples
Level 1 Prepares patient and equipment for endoscopic procedures (e.g., lithotomy positioning, assemble endoscope)	 Correctly assembles endoscopic equipment Appropriately positions patient with pressure points padded and limbs situated ergonomically
Level 2 Independently performs bedside endoscopic procedures (e.g., cystoscopy with catheter placement over a wire)	 Visualizes entire surface of bladder during cystoscopy Anticipates need for additional supplies for catheter placement over wire
Level 3 Independently performs simple endoscopic procedures (e.g., simple transurethral resection of a bladder tumor (TURBT), simple ureteroscopy (URS), small transurethral resection of the prostate (TURP))	 Anticipates additional equipment needed for procedure Judiciously uses disposable equipment Safely performs: transurethral resection of a bladder tumor (TURBT) of a 3 cm posterior wall lesion transurethral resection of the prostate (TURP) for 40 gm prostate ureteropyeloscopy with laser lithotripsy
Level 4 Independently performs complex endoscopic procedures (e.g., percutaneous nephrolithotomy (PCNL), complex URS, complex TURBT, large TURP)	 Appropriately manages intraoperative endoscopic complications Safely performs: Percutaneous nephrolithotomy (PCNL) TURBT of a 5cm bladder tumor at the lateral bladder wall or dome TURP for >80 gm prostate
Level 5 Independently performs complex endoscopic procedures in altered anatomy (e.g., horseshoe kidney, urinary diversion, spinal malformation)	 Manages a severely encrusted ureteral stent Obtains percutaneous renal access
Assessment Models or Tools	 Clinical case discussion assessment Crowdsourcing assessment of surgical skills Direct observation End-of-rotation evaluation Medical record (chart) audit Multisource feedback Simulation Surgical skills assessment tool
Curriculum Mapping	•
Notes or Resources	 American Urological Association (AUA) University. AUA Urology Core Curriculum. <u>https://auau.auanet.org/core</u>. 2019. AUA University. Surgical Video Library. <u>https://auau.auanet.org/node/25250</u>. 2019.

ed. Hoboken, NJ: Wiley Blackwell; 2019. ISBN:978-1-119-24516-2.

Patient Care 4: Open Procedures Overall Intent: To competently and independently perform simple and complex open urologic procedures	
Milestones	Examples
Level 1 Demonstrates basic skills (e.g., positioning, knot tying, suturing)	 Positions patient for common surgery Performs closure of skin incision Manages wound vacuum dressing changes Ties square knots using one or both hands
Level 2 Independently performs bedside open procedures (e.g., incision and drainage, priapism aspiration and irrigation, circumcision, removal of genital wart)	 Performs incision and drainage of a scrotal abscess Performs dorsal slit for refractory paraphimosis Performs complex dressing changes with debridement on a Fournier's gangrene patient
Level 3 Independently performs simple open procedures (e.g., scrotal procedures, vasectomy, cystorrhaphy, mid-urethral sling)	 Performs hydrocelectomy, orchiopexy, orchiectomy, synthetic mid-urethral sling Repairs an iatrogenic bladder injury in a non-radiated field Performs primary artificial urinary phincter/inflatable penile prosthesis placement in a non-radiated patient
Level 4 Independently performs complex open procedures (e.g., partial nephrectomy, prosthetic replacement, cystectomy and ileal conduit, ureteral reconstruction)	 Revises/replaces an infected three-piece inflatable penile prosthesis Performs extravesical ureteral reimplant Performs simple prostatectomy Performs excision and repair of urethral diverticulum
Level 5 Independently performs uncommon complex open procedures (e.g., retroperitoneal lymph node dissection (RPLND), nephrectomy with caval thrombus, reconstructive genital surgery)	 Performs salvage cystectomy or prostatectomy Performs a nephrectomy for xanthogranulomatous pyelonephritis Performs gender affirming surgery Performs microscopic vasoepididymostomy
Assessment Models or Tools	 Clinical case discussion assessment Crowdsourcing assessment of surgical skills Direct observation End-of-rotation evaluation Medical record (chart) audit Multisource feedback Objective Structured Assessment of Technical Skills Simulation Surgical skills assessment tool
Curriculum Mapping	•
Notes or Resources	• Smith J, Howards S, Preminger G, Dmochowski R. <i>Hinman's Atlas of Urologic Surgery</i> . 4th ed. Philadelphia, PA: Elseview; 2018. ISBN:978-0-12-801648-0.

• AUA University. Surgical Video Library. <u>https://auau.auanet.org/node/25250</u>. 2019.

Patient Care 5: Minimally Invasive Procedures (Laparoscopic and Robotic) Overall Intent: To competently navigate minimally invasive techniques to provide safe and effective patient care	
Milestones	Examples
Level 1 Demonstrates basic skills (e.g.,	Properly drapes and preps patient to maintain sterile field
positioning, draping, docking and undocking)	Properly adjusts robotic console and table height for optimized ergonomics
Level 2 Assists during minimally invasive	Holds camera steadily during laparoscopic procedure
procedures (e.g., port placement, bedside	Efficiently exchanges surgical tools during laparoscopic and robotic procedures
assistant)	Maintains correct depth perception and force of tissue manipulation
Level 3 Independently performs simple portions	 Independently reflects colon during minimally invasive nephrectomy
of the procedure (e.g., bladder takedown, colon	 Independently exposes ureteropelvic junction for pyeloplasty
reflection, pelvic lymph node dissection)	Exposes correct anatomy for sacral colpopexy
Level 4 Independently performs critical	Independently completes vesicourethral anastomosis in robotic-assisted laparoscopic
(complex) portions of the procedure (e.g., hilar	prostatectomy
dissection, renorrhaphy, anastomosis)	Independently completes nerve-sparing portion of robotic-assisted laparoscopic
	prostatectomy
Level E Independently performs advanced	Independently completes robotic partial nephrectomy for exophytic tumor
Level 5 Independently performs advanced minimally invasive procedures (e.g., cystectomy,	 Manages an intraoperative rectal injury during prostatectomy Completes intracorporeal urinary diversion following radical cystectomy
complex partial nephrectomy, complex	Completes infractiporeal unitary diversion following radical cystectomy Original completes partial nephrectomy for hilar tumor
reconstruction)	
Assessment Models or Tools	Clinical case assessment
	Crowdsourcing assessment of surgical skills
	Direct observation
	End-of-rotation evaluation
	Global Evaluative Assessment of Robotic Skills
	Multisource feedback
	Simulation
	Surgical skills assessment tool
	Virtual skills simulator
Curriculum Mapping	•
Notes or Resources	Virtual skills simulator
	• Fundamentals of Laparoscopic Surgery. <u>https://www.flsprogram.org/</u> . 2019.

Patient Care 6: Office-Based Procedures Overall Intent: To proficiently perform all manner of office procedures encountered in independent practice	
Milestones	Examples
Level 1 Demonstrates basic skills in office procedures (e.g., Foley catheter placement, drain removal)	 Places Foley catheter Removes staples Changes suprapubic tube Performs bladder irrigation
Level 2 Performs simple office-based procedures, with direct supervision (e.g., prostate biopsy, urodynamics interpretation, vasectomy, urethral stricture dilation)	 Performs flexible diagnostic cystoscopy Performs trans rectal ultrasound with prostate biopsy Performs routine penile or inguinal cord block Performs intra-cavernosal injections
Level 3 Independently performs simple office- based procedures, including percutaneous suprapubic tube placemen	 Performs flexible diagnostic cystoscopy with urethral dilation Performs urodynamics with interpretation Places suprapubic tube Performs a bladder Botox injection
Level 4 Independently performs complex office- based procedures (e.g., renal ultrasound, bladder biopsy, Botox injection)	 Performs cystoscopy and biopsy/fulguration Performs penile plaque injection Performs targeted prostate biopsy
Level 5 Independently performs advanced office-based procedures (e.g., stage 1 neuromodulation, minimally invasive benign prostatic hyperplasia (BPH) procedure, penile ultrasound)	 Performs testicular sperm aspiration Performs ultrasound-guided renal biopsy Performs minimally invasive benign prostatic hyperplasia procedure
Assessment Models or Tools	 Direct observation End-of-rotation evaluation Multisource feedback Simulation
Curriculum Mapping	•
Notes or Resources	 Urology boot camp or dry lab sessions AUA Hands-On Courses. <u>http://www.aua2019.org/register/hands-on-courses</u>. 2019. AUA University – Consults and Emergencies, Ultrasound, Foley and Suprapubic Tubes <u>https://auau.auanet.org/</u> 2019.

Medical Knowledge 1: Clinical Medical Knowledge Overall Intent: To demonstrate comprehensive knowledge, including guidelines, of the full spectrum of urologic diseases, treatments, and populations

Milestones	Examples
Level 1 Demonstrates knowledge of anatomy	Describes the layers of the abdominal wall
and physiology as it pertains to surgical	 Demonstrates knowledge of male urethral segments
conditions	 Demonstrates knowledge of anatomy of the inguinal canal
	 Demonstrates knowledge of prostate anatomy
Level 2 Demonstrates knowledge of	 Describes pathophysiology of hyperoxaluria in a patient with inflammatory bowel disease
pathophysiology and treatments of simple	 Describes the pathophysiology and treatment of stress urinary incontinence
urologic conditions	Describes the treatment of undescended testicle
Level 3 Demonstrates knowledge of	 Describes treatment of a pediatric patient with cystinuria
pathophysiology and treatments of complex	• Describes management of a patient with stage IB testicular germ cell tumor in a non-
urologic conditions considering patient factors	compliant patient or with limited access to care
(e.g., comorbidity, social context)	Distinguishes between obstructive and non-obstructive azoospermia
Level 4 Demonstrates comprehensive	Recognizes the need for upper tract surveillance in patients with Lynch syndrome
knowledge, including guidelines, of the full	Discusses the role of biomarkers in prostate cancer
spectrum of urologic diseases, treatments, and	 Describes peri-operative management of a patient with pheochromocytoma
populations	. Develope a regular didactic review for other regular of the backtones to pro-
Level 5 Creates a curriculum for clinical medical knowledge	 Develops a regular didactic review for other members of the health care team
Assessment Models or Tools	AUA Self-assessment study program
	Case-based discussion assessment
	Direct observation
	End-of-rotation evaluations
	• In-service exam
	Mock oral examination
	Multisource feedback
Curriculum Mapping	
Notes or Resources	AUA. Guidelines. https://www.auanet.org/guidelines . 2019.
	• AUA University. AUA Urology Core Curriculum. https://auau.auanet.org/core. 2019.
	• Wein AJ, Kavoussi LR, Partin AW, Peters CA. Campbell-Walsh Urology. 11th ed.
	Philadelphia, PA: Elsevier; 2015. ISBN: 978-1455775675.
	• Fisher JD, PachaT, Santucci RA. Urology In-Service and Board Review - The Essential
	and Concise Study Guide. Corpus Christi, TX: BMED Press LLC; 2013. ISBN: 978-
	0982749838.
	AUA. AUA Inside Tract Podcast. https://www.auanet.org/podcast . 2019.

• Pocket Guide to Urology. <u>http://www.pocketguidetourology.com/</u>. 2019.

Medical Knowledge 2: Clinical Reasoning Overall Intent: To use sound reasoning and data synthesis skills for safe clinical decision making	
Milestones	Examples
	All examples relate to prostate cancer screening
Level 1 Integrates patient-specific information to	Identifies patients for prostate cancer screening while considering patient's risk factors
generate an appropriate working diagnosis	and preference
Level 2 Provides a prioritized differential	Develops a list of potential causes for elevated prostate-specific antigen levels
diagnosis using supporting rationale	 Explains indications for ordering a repeat prostate-specific antigen level
Level 3 Independently synthesizes clinical	 Uses risk stratification tools to determine need for additional diagnostic testing for
information to inform diagnosis and therapy in	elevated prostate-specific antigen levels
simple cases and adapts based on a patient's	 Uses predictive prostate cancer nomograms to counsel patients
clinical course and additional data	 Explains the indications for systematic versus targeted biopsy for elevated prostate- specific antigen levels
Level 4 Independently synthesizes clinical	Appropriately manages patients with persistently elevated prostate-specific antigen levels
information to inform diagnosis and therapy in	after previous negative prostate biopsy
complex cases, recognizing sources of error	 Incorporates emerging evidence to revise the clinical plan
Level 5 Teaches others to recognize sources of	Reviews institutional prostate cancer screening patterns to assess for bias and delivers
diagnostic error	feedback to providers
Assessment Models or Tools	AUA In-service examination
	Clinical case discussion assessment
	Direct observation
	End-of-rotation evaluation
	Medical record (chart) audit
	Mock oral examination
	Multisource feedback
	Observed structured clinical examination
Curriculum Mapping	•
Notes or Resources	Society to Improve Diagnosis in Medicine. Inter-Professional Consensus Curriculum on
	Diagnosis and Diagnostic Error.
	https://www.improvediagnosis.org/?s=competency+summary+list. 2019.
	Society to Improve Diagnosis in Medicine. Driver Diagram.
	https://www.improvediagnosis.org/wp-content/uploads/2018/10/Driver Diagram -
	July_31M.pdf. 2019.
	Society to Improve Diagnosis in Medicine. Assessment of Reasoning Tool.
	https://www.improvediagnosis.org/art/. 2019.
	CancerNomograms. http://labs.fccc.edu/nomograms/ . 2019.

Systems-Based Practice 1: Patient Safety and Quality Improvement (QI)	
Overall Intent: To engage in the analysis and management of patient safety events, including relevant communication with patients,	
families, and health care professionals; to condu	
Milestones	Examples
Level 1 Demonstrates knowledge of common patient safety events and institutional reporting system	 Lists patient misidentification or medication errors as common patient safety events Describes how to report errors in your local environment
Demonstrates knowledge of basic quality improvement methodologies and metrics	 Describes importance of surgical checklist, including time-out
Level 2 Identifies and reports patient safety events	 Identifies lack of hand sanitizer dispenser at each clinical exam room may lead to increased infection rates
	 Reports breakdowns of sterile processing that could harm patients
Describes local quality improvement initiatives (e.g., multimodal analgesics, antibiotic stewardship, smoking cessation, hospital acquired infection)	• Summarizes protocols resulting in decreased spread of hospital acquired <i>C. difficile</i>
Level 3 Participates in analysis of patient safety events (simulated or actual)	 Presents patient safety event at morbidity and mortality conference
Participates in local quality improvement initiatives	Participates in project identifying root cause of retained ureteral stent
Level 4 Offers strategies (simulated or actual) to prevent patient safety events	 Collaborates with a multidisciplinary team to analyze and decrease risk of catheter- associated urinary tract infection or surgical site infections
Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	 Designs a local QI project to increase patient compliance or provide additional educational materials for patients
Level 5 Actively engages and leads teams and processes to prevent patient safety events	 Assumes a leadership role at the departmental or institutional level to improve patient safety Conducts a simulation for disclosing patient safety events
Creates, implements, and assesses quality improvement initiatives at the institutional or community level	 Designs a regional or national QI project to appropriately utilize imaging in the management of prostate cancer
Assessment Models or Tools	Direct observation

	 E-module multiple choice tests Local patient safety event reporting Medical record (chart) audit Multisource feedback Resident portfolio Simulation
Curriculum Mapping	•
Notes or Resources	 Institute of Healthcare Improvement. <u>http://www.ihi.org/Pages/default.aspx</u>. 2019 AUA. Quality Improvement Summit. <u>https://www.auanet.org/education/educational-calendar/quality-improvement-summit</u>. 2019. AUA University. AUA Urology Core Curriculum. <u>https://auau.auanet.org/core</u>. 2019.

Systems-Based Practice 2: System Navigation for Patient-Centered Care	
Overall Intent: To effectively navigate 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	
Milestones	Examples
Level 1 Demonstrates knowledge of care coordination and community health needs	 For a patient with advanced prostate cancer, identifies that care is delivered through multi- disciplinary team members Identifies that patients with different backgrounds may have different needs
Performs safe and effective transitions of care/hand-offs in routine clinical situations	 Lists the essential components of sign-out, care transition and hand-offs
Level 2 Coordinates multidisciplinary care of patients in routine clinical situations, considering inequities and disparities for their local population (e.g., cultural barriers)	 Appropriately coordinates translation services for patients and provides patient materials that are sensitive to patient background
Performs safe and effective transitions of care/hand-offs in complex clinical situations	 Routinely uses sign-out effectively for a stable patient
Level 3 Coordinates multidisciplinary care of patients in complex clinical situation and incorporates local resources into the plan (e.g., home parenteral nutrition, postoperative intravenous feeding, intensive care unit)	 Coordinates a plan with the social worker to initiate home health care for patients with complicated wound care Works with patients to provide affordable medications and treatments
Supervises safe and effective transitions of care/hand-offs of junior residents	• Supervises safe hand-offs when transferring a patient to the intensive care unit (ICU)
Level 4 Leads care coordination of patients with barriers or other disparities in care (e.g., trauma patient with no access to care)	 Leads coordination of care for patients without insurance or means to access care
Resolves conflicts in transitions of care between teams	• Effectively manages times when volume of work outpaces available resources
Level 5 Designs innovative care coordination strategies for populations with health care inequities	 Develops a telemedicine pilot to improve access to care
Leads in the design and implementation of improvements to transitions of care	 Develops a protocol to improve transitions to long-term care facilities

Assessment Models or Tools	 Direct observation Medical record (chart) audit Multisource feedback Observed structured clinical examination Review of sign-out tools, use and review of checklists Rotation evaluation
Curriculum Mapping	•
Notes or Resources	 CDC. Population Health Training in Place Program (PH-TIPP). https://www.cdc.gov/pophealthtraining/whatis.html. 2019. Kaplan KJ. In pursuit of patient-centered care. http://tissuepathology.com/2016/03/29/in- pursuit-of-patient-centered-care/#axzz5e7nSsAns. 2019. Skochelak SE, Hawkins RE, Lawson LE, Starr SR, Borkan JM, Gonzalo JD. AMA Education Consortium: Health Systems Science. 1st ed. Philadelphia, PA: Elsevier; 2016. https://commerce.ama-assn.org/store/ui/catalog/productDetail?product_id=prod2780003. 2019. Starmer, AJ, et al. I-pass, a mnemonic to standardize verbal handoffs. <i>Pediatrics</i>. 2012;129(2):201-204. https://pediatrics.aappublications.org/content/129/2/201?sso=1&sso_redirect_count=1&nf status=401&nftoken=00000000-0000-0000-0000- 0000000000&nfstatusdescription=ERROR%3a+No+local+token. 2019.

Systems-Based Practice 3: Physician Role in Health Care Systems Overall Intent: To understand the physician's role in the complex health care system and how to optimize the system to improve patient care	
and health system performance	
Milestones	Examples
Level 1 Identifies basic needs for effective transition to practice (e.g., information technology, legal, billing and coding, financial, personnel)	 Identifies that notes must meet coding requirements
Describes basic health payment systems (e.g., government, private, public, uninsured care) and practice models	 Identifies that the type of health plan coverage may impact care
Level 2 Demonstrates use of information technology required for medical practice (e.g., electronic health record, documentation required for billing and coding)	 Uses appropriate documentation to capture patient complexity
Describes how components of a complex health care system are interrelated and how this impacts patient care	• Explains that ordering extraneous tests or use of unnecessary supplies in the operating room (OR) impact overall health care costs
Level 3 Describes core administrative knowledge needed for transition to independent practice (e.g., contract negotiations, malpractice insurance, government regulation, compliance)	 Discusses the advantages and disadvantages of various employment models Understands the core elements of employment contracts
Discusses how individual practice affects the broader system performance (e.g., length of stay, readmission rates, clinical efficiency)	 Recognizes the importance of timely discharge processes on hospital length of stay and access to care for other patients
Level 4 Analyzes individual practice patterns and professional requirements in preparation for practice	 Compares individual post-prostate biopsy infection rate to benchmarks and changes practice if indicated Proactively compiles procedure log in anticipation of applying for hospital privileges
Manages various components of the complex health care system to provide efficient and effective patient care (e.g., patient payment models, insurance)	 Works collaboratively to improve patient assistance resources for a patient with a recent extensive surgery and limited resources Incorporates value-based principles in managing patients

Level 5 Educates others to prepare them for transition to practice	 Leads a practice management conference for residents Provides a lecture on payment models
Advocates for or leads systems change that enhances high-value, efficient, and effective patient care	 Improves informed consent process for non-English-speaking patients Works with community or professional organizations to advocate for health care access
Assessment Models or Tools	 Direct observation Medical record (chart) audit Multisource feedback Patient satisfaction data Portfolio Rotation evaluation
Curriculum Mapping	
Notes or Resources	 Agency for Healthcare Research and Quality (AHRQ). Measuring the Quality of Physician Care. https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/challenges.html. 2019. AHRQ. Major physician performance sets. https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/measurementsets.html. 2019. The Kaiser Family Foundation. www.kff.org. 2019. The Kaiser Family Foundation. Health Reform. https://www.kff.org/topic/health-reform/. 2019. Dzau VJ, McClellan M, Burke S, et al. Vital directions for health and health care: priorities from a National Academy of Medicine Initiative. <i>NAM Perspectives</i>. Discussion Paper, National Academy of Medicine, Washington, DC. https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-academy-of-medicine-initiative/. 2019. The Commonwealth Fund. Health System Data Center. http://datacenter.commonwealthfund.org/? ga=2.110888517.1505146611.1495417431-1811932185.1495417431#ind=1/sc=1. 2019. The Commonwealth Fund. Health Reform Resource Center. http://www.commonwealthfund.org/interactives-and-data/health-reform-resource-center#/f:@facasubcategoriesfacet63677=[Individual%20and%20Employer%20Responsibility. 2019. American Board of Internal Medicine. QI/PI activities. http://www.abim.org/maintenance-of-centification/earning-points/practice-assessment.aspx. 2019.

Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice	
Overall Intent: To incorporate evidence and patient values into clinical practice	
Milestones	Examples
Level 1 Demonstrates how to access available evidence	 Identifies evidence-based guidelines for hematuria assessment
Level 2 Articulates clinical questions to guide evidence-based care	 In a patient with stress urinary incontinence, identifies and discusses potential evidence- based treatment options
Level 3 Integrates best available evidence with patient preferences to guide care	 Obtains, discusses, and applies evidence for the treatment of a child with vesicoureteral reflux
Level 4 Tailors patient care in the setting of conflicting or absent evidence	 Accesses and applies the primary literature to identify treatment options for hormone resistant prostate cancer
Level 5 Coaches others to critically appraise and apply evidence for patients with complex conditions	 Leads clinical teaching on application of best practices in critical appraisal of cytoreductive nephrectomy in a patient with metastatic kidney cancer As part of a team, develops pain management pathways to decrease opioid use
Assessment Models or Tools	 Direct observation Electronic health record (EHR) review In-service examinations Mock oral examinations Presentation evaluation Rotation evaluations
Curriculum Mapping	
Notes or Resources	 National Institutes of Health. U.S. National Library of Medicine. PubMed Tutorial. <u>https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html</u>. 2019 AUA. Guidelines. <u>https://www.auanet.org/guidelines</u>. 2019. AUA University. Update series volume. <u>https://auau.auanet.org/courses/published?title=Update%20Series%20Volumeℴ=titl</u> e&sort=desc. 2019.

Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth Overall Intent: To seek clinical performance information with the intent to improve care; to reflect on all domains of practice, personal	
	colleagues and patients; to develop clear goals and objectives for improvement
Milestones	Examples
Level 1 Identifies gap(s) between expectations and actual performance	 Identifies gaps in surgical skills Seeks feedback from patients, families, and patient care team members
Establishes goals for personal and professional development	 Sets a SMART (specific, measurable, attainable, realistic and time-bound) personal practice goal of improving knowledge of vesicoureteral reflux
Level 2 Analyzes and reflects on the factors which contribute to gap(s) between expectations and actual performance	 Identifies the impact of personal anxiety on fine motor skills
Identifies opportunities for performance improvement; designs a learning plan	 Assesses time-management skills and how it impacts timely completion of clinic notes and literature reviews When prompted, develops a longitudinal education plan to improve their evaluation of vesicoureteral reflux
Level 3 Institutes behavioral change(s) to narrow the gap(s) between expectations and actual performance	 Uses standardized assessment tools to inform refinement of surgical technique Completes a focused literature review prior to patient encounters
Integrates practice data and feedback with humility to implement a learning plan	 Incorporating feedback, completes a personal curriculum to refine their evaluation of vesicoureteral reflux
Level 4 Continuously reflects on remaining gaps and institutes behavioral adjustments to narrow them	 Routinely records own robotic procedures to analyze and improve technical skills Routinely debriefs with the attending and other team members to optimize patient care
Uses performance data to measure the effectiveness of the learning plan and adapts when necessary	 Performs a self-directed chart audit of their evaluation of vesicoureteral reflux
Level 5 Coaches others on reflective practice	Leads others through a reflective practice cycle
Coaches others in the design and implementation of learning plans	 Assists other residents and students in developing their individualized learning plans
Assessment Models or Tools	 Direct observation End-of-rotation evaluations In-service examinations

	 Mock oral examination Reflective Ability Rubric Simulation Video review
Curriculum Mapping	
Notes or Resources	 C-SATS. Global Evaluative Assessment of Robotic Skills (GEARS). <u>https://www.csats.com/gears</u>. 2019. OSAT assessment CSAT assessment AUA University. Update series volume. <u>https://auau.auanet.org/courses/published?title=Update%20Series%20Volumeℴ=title%sort=desc</u>. 2019. Learning by Doing: A Guide to Teaching and Learning Methods. <u>https://thoughtsmostlyaboutlearning.files.wordpress.com/2015/12/learning-by-doing-graham-gibbs.pdf</u>. 2019. O'Sullivan P, Aronson L, Chittenden E, Niehaus B, Learman L. Reflective ability rubric and user guide. <i>MedEdPORTAL</i>. 2010;6:8133. <u>https://doi.org/10.15766/mep_2374-8265.8133</u>. 2019.

Professionalism 1: Professional Behavior and Ethical Principles Overall Intent: To recognize and address lapses in ethical and professional behavior, demonstrate ethical and professional behaviors, and	
use appropriate resources for managing ethical and professional dilemmas	
Milestones	Examples
Level 1 Demonstrates professional behavior in routine situations and knows how to report professionalism lapses	 Understands that substance abuse impairs judgment Can verbalize the institutional process for reporting impaired physicians Knows how to access appropriate graduate medical education (GME) resources and other hospital employee assistance programs
Demonstrates knowledge of ethical principles underlying shared decision making and patient confidentiality	 Recognizes and respects the importance of confidentiality in the sign-out process Respects patient autonomy by not performing unnecessary procedures for learning purposes
Level 2 Demonstrates insight into personal triggers for professionalism lapses, develops mitigation strategies	 Is punctual to assigned clinical and educational duties Ensures adequate sleep before a complex surgery
Analyzes straightforward situations using ethical principles	 Conveys discomfort when performing unfamiliar tasks and declines to continue without supervision
Level 3 Demonstrates professional behavior in complex or stressful situations	 Appropriately responds to a distraught family member following an unsuccessful resuscitation attempt
Seeks help in managing and resolving complex ethical situations	 After noticing a colleague's inappropriate social media post, reviews policies related to posting of content, and seeks guidance
Level 4 Recognizes and intervenes in situations to prevent professionalism lapses in self and	 Proactively assumes tasks of a junior resident who is fatigued to ensure they are able to get adequate rest
others	 Advocates for members of the care team when implicit or explicit bias is witnessed
Recognizes and uses appropriate resources for managing and resolving ethical dilemmas (e.g., ethics consultations, literature review)	 Seeks ethics consult for posthumous sperm extraction
Level 5 Coaches others when their behavior fails to meet professional expectations	• Develops a peer coaching program to guide others when behavior fails to meet professional expectations, and creates a performance improvement plan to prevent recurrence
Identifies and seeks to address system-level factors that induce or exacerbate ethical problems or impede their resolution	 Partners with program director to design and implement vendor interaction policy
Assessment Models or Tools	Direct observation

	 Mock oral examination or written self-reflection Multisource feedback Rotation evaluation Simulation
Curriculum Mapping	•
Notes or Resources	 American Medical Association. Ethics. <u>https://www.ama-assn.org/delivering-care/ama-code-medical-ethics</u>. 2019. ABIM Foundation; American Board of Internal Medicine, ACP-ASIM Foundation, American College of Physicians-American Society of Internal Medicine, European Federation of Internal Medicine. Medical professionalism in the new millennium: a physician charter. <i>Ann Intern Med</i>. 2002;136:243-246. <u>http://abimfoundation.org/wp-content/uploads/2015/12/Medical-Professionalism-in-the-New-Millenium-A-Physician-Charter.pdf</u>. 2019. Byyny RL, Papadakis MA, Paauw DS. <i>Medical Professionalism Best Practices</i>. Menlo Park, CA: Alpha Omega Alpha Medical Society; 2015. <u>https://alphaomegaalpha.org/pdfs/2015MedicalProfessionalism.pdf</u>. 2019. Levinson W, Ginsburg S, Hafferty FW, Lucey CR. <i>Understanding Medical Professionalism</i>. 1st ed. New York, NY: McGraw-Hill Education; 2014. Bynny RL, Paauw DS, Papadakis MA, Pfeil S. <i>Medical Professionalism. Best Practices: Professionalism in the Modern Era</i>. Menlo Park, CA: Alpha Omega Alpha Medical Society; 2017. <u>http://alphaomegaalpha.org/pdfs/Monograph2018.pdf</u>. 2019.

Professionalism 2: Administrative Tasks Overall Intent: To take responsibility for one's actions and the impact on patients and other members of the health care team **Examples** Milestones Level 1 Takes responsibility for failure to • Responds promptly to reminders from program administrator to complete work-hour logs complete tasks and responsibilities, identifies • Timely attendance at conferences potential contributing factors, and describes • Timely completion of end-of-rotation evaluations strategies for ensuring timely task completion in the future Level 2 Performs tasks and responsibilities in a • Completes administrative tasks, safety modules, case logs, and licensing requirements by timely manner with appropriate attention to specified due date detail in routine situations • Before going out of town, completes tasks in anticipation of lack of computer access while traveling Level 3 Performs tasks and responsibilities in a • Notifies attending of multiple competing demands on-call, appropriately triages tasks, and asks for assistance from other residents or faculty members as needed timely manner with appropriate attention to detail in complex or stressful situations Level 4 Recognizes situations that may impact Implements an administrative process for resident responsibilities for upcoming visiting others' ability to complete tasks and professor event responsibilities in a timely manner and proposes solutions Level 5 Develops systems to enhance other's Develops automated reminder system to notify others of upcoming deadlines ability to efficiently complete administrative tasks and responsibilities Assessment Models or Tools Case log review Compliance with deadlines and timelines Direct observation Multisource feedback Rotation evaluations Self-evaluations and reflective tools **Curriculum Mapping** • AUA. Code of Ethics. https://www.auanet.org/myaua/aua-ethics/code-of-ethics. 2019 Notes or Resources Code of conduct from fellow/resident institutional manual Expectations of residency program regarding accountability and professionalism

Professionalism 3: Well-Being Overall Intent: To identify and mitigate personal and professional stressors that affect well-being of self and others	
Milestones	Examples
Level 1 Recognizes status of personal and professional well-being, with assistance	 Acknowledges own response to patient's adverse outcome Completes a well-being questionnaire
Level 2 Independently recognizes status of personal and professional well-being	Independently identifies and communicates impact of a personal family tragedy
Level 3 With assistance, proposes a plan to optimize personal and professional well-being	After meeting with mentor, reflects and develops a strategy to address the personal impact of difficult patient encounters
Level 4 Independently develops a plan to optimize personal and professional well-being	Independently identifies and engages in ways to manage personal stress and mitigate burnout
Level 5 Coaches others when emotional responses do not meet professional expectations	Reaches out to a team member who appears to be struggling and offers resources and guidance
Assessment Models or Tools	Direct observation
	Group discussions
	 Individual interview or meeting with mentor Rotation evaluation
	Self-assessment and personal learning plan
	Semi-annual review
Curriculum Mapping	
Notes or Resources	 Local resources, including Employee Assistance and online training modules ACGME. Tools and Resources. <u>https://www.acgme.org/What-We-Do/Initiatives/Physician-Well-Being/Resources</u>. 2019. AMA. Physician Well-being. <u>https://www.ama-assn.org/topics/physician-well-being</u>. 2019.

Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication Overall Intent: To form therapeutic relationships using shared decision making, to identify and mitigate communication barriers and bias		
Milestones	Examples	
Level 1 Demonstrates respect and establishes rapport with patient and family (e.g., situational awareness of language, disability, health literacy level, cultural)	 Introduces self and faculty member, explains the roles of team members, and identifies patient and others in the room Actively listens and engages all parties in healthcare discussion 	
Communicates with patients and their families in	 Identifies need for trained interpreter with non-English-speaking patients 	
an understandable and respectful manner	 Uses age-appropriate language when counseling pediatric patients 	
Level 2 Establishes a therapeutic relationship in straightforward encounters	 Avoids medical jargon and restates patient perspective when discussing erectile dysfunction 	
Identifies barriers to effective communication (e.g., health literacy, cultural)	 Recognizes the need for handouts with diagrams and pictures to communicate information to a patient who is unable to read 	
Level 3 Establishes a therapeutic relationship in challenging encounters (e.g., shared decision making)	 Appropriately counsels patient on treatment options for prostate cancer using shared decision making to align treatment plan with patient priorities 	
When prompted, reflects on personal biases while attempting to minimize communication barriers	 In a discussion with a mentor, acknowledges personal discomfort in caring for transgender patient 	
Level 4 Facilitates difficult discussions specific to patient and family conferences, (e.g., end-of- life, explaining complications, therapeutic uncertainty)	 Continues to engage representative family members with disparate goals in the care of a critically ill patient Uses patient and family input to engage palliative care and develop a plan for home hospice in the terminally ill patient, aligned with the patient's values 	
Independently recognizes personal biases while attempting to proactively minimize communication barriers	 Recognizes their potential implicit bias involved in caring for a transgender patient and solicits input from faculty to mitigate communication barriers 	
Level 5 Mentors others in situational awareness and critical self-reflection	Leads a discussion group on personal experience of moral distress	
Coaches others in the facilitation of crucial conversations	Develops a residency curriculum on social justice which addresses implicit bias	
Assessment Models or Tools	Direct observation	

	 Kalamazoo Essential Elements Communication Checklist (Adapted) Multisource feedback Observed structured clinical examination Self-assessment including self-reflection exercises Skills needed to set the State, Elicit information, Give information, Understand the patient, and End the encounter (SEGUE)
Curriculum Mapping	•
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. <i>Med Teach</i>. 2011;33(1):6-8. <u>https://www.tandfonline.com/doi/full/10.3109/0142159X.2011.531170</u>. 2019. Makoul G. Essential elements of communication in medical encounters: the Kalamazoo consensus statement. <i>Acad Med</i>. 2001;76(4):390-393. <u>https://journals.lww.com/academicmedicine/Fulltext/2001/04000/Essential Elements of Communication in Medical.21.aspx#pdf-link</u>. 2019. Makoul G. The SEGUE Framework for teaching and assessing communication skills. <i>Patient Educ Couns</i>. 2001;45(1):23-34. <u>https://www.ncbi.nlm.nih.gov/pubmed/11602365</u>. 2019. Symons AB, Swanson A, McGuigan D, Orrange S, Akl EA. A tool for self-assessment of communication skills and professionalism in residents. <i>BMC Med Educ</i>. 2009;9:1. <u>https://bmcmededuc.biomedcentral.com/articles/10.1186/1472-6920-9-1</u>. 2019. Harvard. Implicit Association Test (IAT). <u>https://implicit.harvard.edu/implicit/takeatest.html</u>. 2019. AUA University. <u>https://auau.auanet.org/</u>. 2019.

Interpersonal and Communication Skills 2: Patient Counseling and Shared Decision Making Overall Intent: To counsel patients about indications, risks, benefits, and alternatives during informed consent		
Milestones	Examples	
Level 1 Demonstrates basic understanding of informed consent process	 Confirms consent and patient counseling has been completed for a procedure 	
Level 2 Answers questions about treatment plan and seeks guidance when appropriate	 Uses patient-centered communication when answering questions during the informed consent process Ensures use of receptive body language, eye contact, and posture 	
Level 3 Counsels patient through decision- making process, including questions, for simple clinical problems	 Fully discusses indications, risks, benefits, and alternatives during informed consent for ureteroscopy Obtains a consent in situations in which the patient is unable to provide it themselves and documents appropriately 	
Level 4 Counsels patient through decision- making process, including questions, for complex clinical problemsLevel 5 Counsels patient through decision-	 Fully discusses indications, risks, benefits, and alternatives during informed consent for prostatectomy Obtains a consent in emergent situations and documents appropriately Develops supplemental materials to better inform patients prior to procedure 	
making process, including questions, for uncommon clinical problems	 Obtains consent for a micro-testicular sperm extraction procedure with anticipated low success rate 	
Assessment Models or Tools	 Direct observation Multisource feedback Patient evaluation of residents Rotation evaluation 	
Curriculum Mapping	•	
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. <i>Med Teach</i>. 2011;33(1):6-8. <u>https://www.tandfonline.com/doi/full/10.3109/0142159X.2011.531170</u>. 2019. Makoul G. Essential elements of communication in medical encounters: the Kalamazoo consensus statement. <i>Acad Med</i>. 2001;76(4):390-393. <u>https://journals.lww.com/academicmedicine/Fulltext/2001/04000/Essential Elements of Communication_in_Medical.21.aspx#pdf-link</u>. 2019. Makoul G. The SEGUE Framework for teaching and assessing communication skills. <i>Patient Educ Couns</i>. 2001;45(1):23-34. <u>https://www.ncbi.nlm.nih.gov/pubmed/11602365</u>. 2019. 	

 Symons AB, Swanson A, McGuigan D, Orrange S, Akl EA. A tool for self-assessment of communication skills and professionalism in residents. BMC Med Educ. 2009;9:1.
 <u>https://bmcmededuc.biomedcentral.com/articles/10.1186/1472-6920-9-1</u>. 2019. Harvard. Implicit Association Test (IAT). https://implicit.harvard.edu/implicit/takeatest.html.
 2019. AUA University. <u>https://auau.auanet.org/</u>. 2019.

Interpersonal and Communication Skills 3: Interprofessional and Team Communication

Overall Intent: To effectively communicate with the health care team, including consultants, in both straightforward and complex situations

Milestones	Examples
Level 1 Respectfully interacts and actively communicates with all members of health care team (e.g., politely accepts and requests consults) Level 2 Communicates in an approachable and	 Respectfully requests cardiology consultation for anticoagulation management Receives consult request for a patient with urinary retention, asks clarifying questions politely, and expresses gratitude for the consult Acknowledges the contribution of nursing and social work in the discharge of a patient Succinctly presents complete information to senior residents or faculty
productive manner to facilitate team work (e.g., active listening updates in timely fashion duality)	 Succinctly presents complete information to senior residents of faculty Communicates diagnostic evaluation recommendations clearly and concisely in an organized and timely manner Communicates consultation to the dietician in the EHR for a metabolic stone patient to decrease risk factor for stone formation Actively listens to other members of the team and responds appropriately
Level 3 Actively recognizes and mitigates communication barriers and biases with members of the health care team	 After a consultation has been completed, communicates directly with the primary team to verify they have received and understand the recommendations When receiving treatment recommendations from an attending physician, actively listens and repeats back the plan to ensure understanding Seeks opportunity to constructively educate consulting service
Level 4 Leads and coordinates recommendations from multidisciplinary members of the health care team (e.g., facilitates conflict resolution)	 Leads a multidisciplinary goals of care conference for a patient with terminal disease Presents a case to tumor board and coordinates the recommendations from each specialty
Level 5 Exemplar of flexible communication strategies	Mediates a conflict resolution between different members of the health care team
Assessment Models or Tools	 Direct observation Medical record (chart) audit Multi-source feedback Rotation evaluation Simulation
Curriculum Mapping	
Notes or Resources	 Roth CG, Eldin KW, Padmanabhan V, Freidman EM. Twelve tips for the introduction of emotional intelligence in medical education. <i>Med Teach</i>. 2019;41(7):1-4. https://www.tandfonline.com/doi/full/10.1080/0142159X.2018.1481499. 2019. Green M, Parrott T, Cook G., Improving your communication skills. <i>BMJ</i>. 2012;344:e357. https://www.bmj.com/content/344/bmj.e357.

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medicine. <i>Can Fam Physician</i> . 2011;57(5):574–575.	
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2019.	
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Quality Improvement Lippincott Manual Series). 1st ed. Philadelphia, PA: Wolters Kluwer;	
2016. ISBN: 978-1451193558.	

Interpersonal and Communication Skills 4: Communication within Health Care Systems **Overall Intent:** To effectively communicate across the health care system using the medical record **Examples** Milestones • Documentation is accurate but may include extraneous information Level 1 Accurately records information in the patient record in a timely manner while • Shreds patient list after rounds; avoids talking about patients in the elevator safeguarding patient personal health information Level 2 Documents diagnostic and therapeutic Organized and accurate documentation outlines clinical reasoning that supports the reasoning in the patient record with appropriate treatment plan use of documentation shortcuts Develops documentation templates to avoid copy-and-paste errors Level 3 Concisely reports diagnostic and Complex clinical thinking is documented concisely but may not contain anticipatory therapeutic reasoning quidance Level 4 Efficiently communicates in an • Writes accurate, organized, and concise note for a patient with overactive bladder and organized fashion that includes contingency provides plan for follow-up management if current treatment is unsuccessful plans • Notes are exemplary and used to teach others. Level 5 Facilitates improved written and verbal • Organizes one-on-one teaching sessions with residents and medical students to improve communication of others documentation Assessment Models or Tools Direct observation Medical record (chart) audit Multisource feedback Rotation evaluation **Curriculum Mapping** • • Bierman JA, Hufmeyer KK, Liss DT, Weaver AC, Heiman HL. Promoting responsible Notes or Resources electronic documentation: validity evidence for a checklist to assess progress notes in the electronic health record. Teach Learn Med. 2017;29(4):420-432. https://www.tandfonline.com/doi/full/10.1080/10401334.2017.1303385. 2019. • AUA University. https://auau.auanet.org/. 2019.

In an effort to aid programs in the transition to using the new version of the Milestones, we have mapped the original Milestones 1.0 to the new Milestones 2.0. Below we have indicated where the subcompetencies are similar between versions. These are not necessarily exact matches, but are areas that include some of the same elements. Note that not all subcompetencies map between versions. Inclusion or exclusion of any subcompetency does not change the educational value or impact on curriculum or assessment.

Milestones 1.0	Milestones 2.0
PC1: Gathers information by interviewing the patient or	PC6: Patient Evaluation
surrogate and performing a physical exam.	
PC2: Uses diagnostic tests and procedures, including	PC6: Patient Evaluation
performance and interpretation of imaging studies.	
PC3: Develops a patient care plan, including medical,	PC5: Peri-procedural Care
surgical, and/or radiological interventions.	MK2: Clinical Reasoning
PC4: Performs intra-operative and post-operative	PC5: Peri-procedural Care
management of patients, including recognition and	
treatment of physiologic alterations and complications.	
PC5: Performs open surgical procedures.	PC2: Open Procedures
PC6: Performs endoscopic procedures of the upper and	PC1: Endoscopic Procedures
lower urinary tract	
PC7: Performs laparoscopic/robot-assisted surgical	PC3: Minimally Invasive Procedures (Laparoscopic and Robotic)
procedures.	
PC8: Performs office-based procedures.	PC4: Office-Based Procedures
MK1: Surgical Care	MK1: Clinical Medical Knowledge
MK2: Differential Diagnosis	MK2: Clinical Reasoning
MK3: Evidence-Based Medicine	PBLI1: Evidence-Based and Informed Practice
MK4: Core Domains	MK1: Clinical Medical Knowledge
SBP1: Works effectively within and across health delivery	SBP2: System Navigation for Patient-Centered Care
systems.	
SBP2: Incorporates cost awareness and risk-benefit	SBP3: Physician Role in Health Care Systems
analysis into patient care.	
SBP3: Works in inter-professional teams to enhance	SBP1: Patient Safety and Quality Improvement
patient safety	ICS3: Interprofessional and Team Communication
SBP4: Uses technology to accomplish safe health care	ICS4: Communication within Health Care Systems
delivery.	
PBLI1: Improves via feedback and self-assessment.	PBLI2: Reflective Practice and Commitment to Personal Growth
PBLI2: Learns and improves by asking and answering	PBLI1: Evidence-Based and Informed Practice
clinical questions from a patient scenario.	

PBLI3: Acquires the best evidence.	PBLI1: Evidence-Based and Informed Practice
PBLI4: Appraises the evidence for validity, impact, and applicability.	PBLI1: Evidence-Based and Informed Practice
PBLI5: Applies the evidence to decision-making for individual patients.	PBLI1: Evidence-Based and Informed Practice
PBLI6: Improves the quality of care for a panel of patients.	SBP1: Patient Safety and Quality Improvement
PBLI7: Participates in the education of other team members.	ICS3: Interprofessional and Team Communication
PROF1: Demonstrates adherence to ethical principles.	PROF1: Professional Behavior and Ethical Principles
PROF2: Demonstrates compassion, integrity, and respect for others.	PROF1: Professional Behavior and Ethical Principles
PROF3: Demonstrates responsiveness to patient needs that supersede self-interest.	PROF1: Professional Behavior and Ethical Principles
PROF4: Demonstrates respect for patient privacy and autonomy.	PROF1: Professional Behavior and Ethical Principles
PROF5: Demonstrates accountability to patients, society,	PROF2: Administrative Tasks
and the profession.	ICS4: Communication within Health Care Systems
PROF6: Demonstrates sensitivity and responsiveness to	PROF1: Professional Behavior and Ethical Principles
diverse populations, including diversity in gender, age,	PBLI2: Reflective Practice and Commitment to Personal Growth
culture, race, religion, disabilities, and sexual orientation.	ICS1: Patient and Family-Centered Communication
No match	PROF3: Well-Being and Awareness
ICS1: Communicates effectively with patients and families with diverse socioeconomic and cultural backgrounds.	ICS1: Patient and Family-Centered Communication
ICS2: Effectively counsels, educates, and obtains	ICS1: Patient and Family-Centered Communication
informed consent.	ICS2: Patient Counseling and Shared Decision Making
ICS3: Communicates effectively with physicians, other	ICS3: Interprofessional and Team Communication
health professionals, and health-related agencies.	
ICS4: Communicates effectively during care transitions	SBP2: System Navigation for Patient-Centered Care
and consultations with fellow residents.	ICS3: Interprofessional and Team Communication
ICS5: Works effectively as a member or leader of a health	ICS3: Interprofessional and Team Communication
care team or other professional group.	