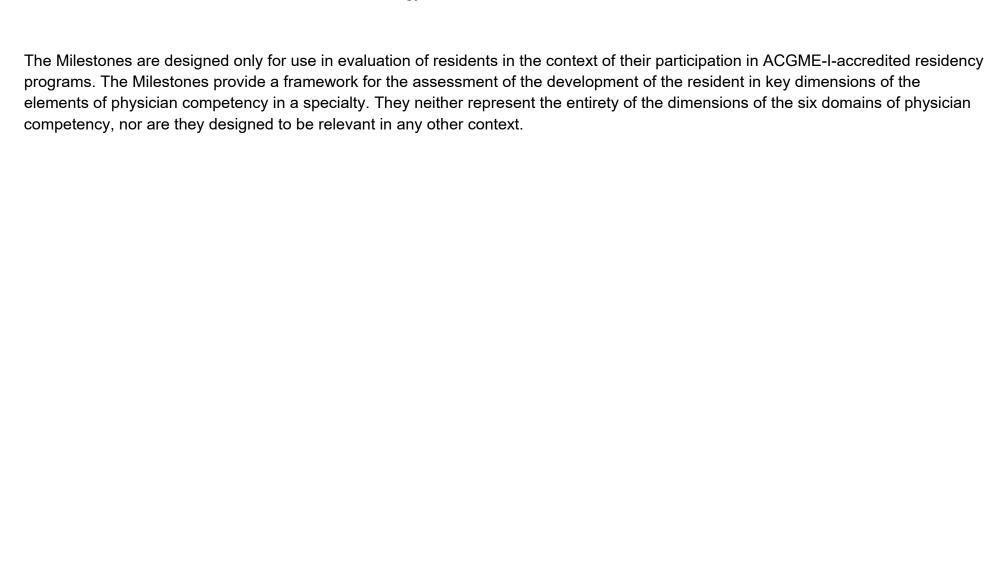
## Urology Milestones for the Middle East



May 2017

## Urology Milestones for the Middle East



## **Milestones Reporting**

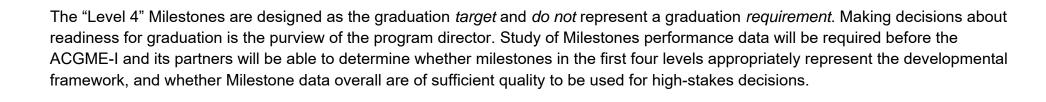
This document presents milestones designed for programs to use in semi-annual review of resident performance and reporting to the ACGME-I. Milestones are knowledge, skills, attitudes, and other attributes for each of the ACGME-I competencies organized in a developmental framework from less to more advanced. They are descriptors and targets for resident performance as a learner moves from entry into their program through graduation.

For each period, review and reporting will involve selecting milestone levels that best describe each resident's current performance and attributes. Milestones are arranged in numbered levels. Tracking from "Critical Deficiencies"/"Level 1" to "Aspirational"/"Level 5" is synonymous with moving from novice to expert in the specialty. These levels do not correspond with time in the educational program. Dependent upon previous education and experience, residents may enter a program at varying points in the Milestones.

Selection of a level implies that the resident substantially demonstrates the milestones in that level, as well as those in lower levels (see the diagram on page v).

- **Level 1:** The resident demonstrates milestones expected of an incoming resident.
- **Level 2:** The resident is advancing and demonstrates additional milestones.
- **Level 3:** The resident continues to advance and demonstrate additional milestones; the resident demonstrates the majority of milestones targeted for residency in this sub-competency.
- **Level 4:** The resident has advanced so that he or she now substantially demonstrates the milestones targeted for residency. This level is designed as the graduation target.
- **Level 5:** The resident has advanced beyond performance targets set for residency, and is demonstrating "aspirational" goals which might describe the performance of someone who has been in practice for several years. It is expected that only a few exceptional residents will reach this level.

## **Additional Notes**



Answers to Frequently Asked Questions about Milestones are posted on the ACGME-I website.

The diagram below presents an example set of milestones for one sub-competency in the same format as the ACGME-I Report Worksheet. For each reporting period, a learner's performance on the milestones for each sub-competency will be indicated by selecting the level of milestones that best describes that learner's performance in relation to those milestones.

Systems-Based Practice	1: Patient Safety and Quali	ty Improvement		
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of common patient safety events	Identifies system factors that lead to patient safety events	Participates in analysis of patient safety events (simulated or actual)	Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	Actively engages teams and processes to modify systems to prevent patient safety events
Demonstrates knowledge of how to report patient safety events	Reports patient safety events through institutional reporting systems (actual or simulated)	Participates in disclosure of patient safety events to patients and families (simulated or actual)	Discloses patient safety events to patients and families (simulated or actual)	Role models or mentors others in the disclosure of patient safety events
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives (e.g., community vaccination rate, infection rate, smoking cessation)	Participates in local quality improvement initiatives	Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Creates, implements, and assesses quality improvement initiatives at the institutional or community level
Comments:			Not y	et achieved Level 1
Selecting a response box in of a level implies that mile that level and in lower level substantially demonstrate	stones in els have been	Selecting a response between levels indicated lower levels have been demonstrated as well the higher level(s).	es that milestones in substantially	

Level 1	Level 2	Level 3	Level 4	Level 5
Acquires general history from patient and able to elicit genitourinary complaints	Acquires accurate and relevant history from the patient in an efficiently customized, prioritized, and hypothesis-driven fashion for genitourinary complaints	Obtains relevant historical subtleties that inform and prioritize both differential diagnoses and diagnostic plans, including sensitive, complicated, and detailed information that may not often be volunteered by the patient	Role models gathering subtle and reliable information from the patient for junior members of the health care team, particularly for sensitive aspects of genitourinary conditions	Highly efficient at gathering information, including history and physical exam
Performs an accurate general physical examination	Performs an accurate physical examination that is appropriately targeted to a patient's genitourinary complaints and medical condition	Identifies common genitourinary exam findings routinely, but inconsistently able to identify subtle physical exam findings	Routinely identifies subtle or unusual physical findings pertinent to genitourinary conditions	
Examples: Obtains basic elements of a complaint, including onset, duration, quality of pain, associated symptoms, exacerbating factors Performs a focused general physical exam	Examples: Obtains routine history for patient newly diagnosed with T1c prostate cancer  Performs scrotal/genital examination in adults and identifies common pathology, such as hydrocele and testis tumors  Identifies physical findings warranting immediate surgical intervention (e.g., suspected torsion)	Examples: Obtains history for patient newly diagnosed with prostate cancer, including family history and details of erectile function and urinary continence  Performs scrotal/genital examination in adults and children, and identifies common and subtle physical findings	Examples: Obtains history from a patient with metastatic cancer with a past history of definitive treatment for prostate cancer Differentiates retractile versus undescended testis in child	Example: Rapidly focuses on presenting problem; elicits key information in a prioritized, rapid fashion

Patient Care 2: Uses Diagno	ostic Tests and Procedures, Ir	ncluding Performance and In	terpretation of Imaging Studie	S
Level 1	Level 2	Level 3	Level 4	Level 5
Selects and performs appropriate diagnostic tests and/or imaging procedures for general complaints	Selects and performs appropriate diagnostic tests and/or imaging procedures based on patient's genitourinary complaints and medical condition	Selects appropriate routine diagnostic tests based on patient's genitourinary complaints and medical condition. Is familiar with indications for advanced diagnostic tests and/or procedures	Consistently employs routine and advanced diagnostic tests and imaging procedures in a judicious fashion based on patient's genitourinary complaints and medical condition	Employs and performs routine and advanced diagnostic tests in an efficient fashion based on patient's genitourinary complaints and medical condition
		Makes appropriate clinical decisions based on common diagnostic test results. Applies results of advanced diagnostic testing with supervision  Selects and performs imaging studies based on patient's genitourinary complaint and medical condition	Makes appropriate clinical decisions based on common and advanced diagnostic test results	
Example: Orders non-contrast computed tomography (CT) scan to evaluate renal colic	Examples: Orders appropriate tests for common post-operative concerns, such as hypoxia or tachycardia  Performs bladder scan to assess post-void residual urine volume	Examples: Employs uroflowmetry appropriately in the evaluation of voiding dysfunction  Understands indications for urodynamic evaluation	Examples: Formulates clinical question to be addressed by urodynamic evaluation  Interprets results of urodynamic testing in context of patient's medical history and exam	Example: Applies appropriate and selective CT scanning versus plain film radiography for follow-up in patients with stone disease

May 2017	U	Irology Milestones for the Mid	dle East		
		Performs ultrasound	Selects appropriate		
		•	imaging modality, balancing risks (i.e.,		
			radiation exposure),		
		block and biopsy	benefits and costs		
Comments:				Not Yet Achieved Level 1	

Patient Care 3: Develops a Patient Care Plan, including Medical, Surgical, and/or Radiological Interventions. Counsel Pre-operative Patients Regarding Treatment Options. Discuss Risks, Benefits and Alternatives (Informed Consent Process). Counsel Patients Regarding Potential Short-and Long-Term Impact of Interventions on Quantity and Quality of Life, as Applicable. Adapt Initial Plan as Sub-acute or Chronic Condition Evolves

Level 1	Level 2	Level 3	Level 4	Level 5
Develops rudimentary plan for routine clinical problem	Develops plan for routine clinical problem with defined treatment options in otherwise healthy patient	Develops plan for more complex clinical problem in otherwise healthy patient	Develops plan for complex clinical problem in patient with multiple co-morbid conditions	Routinely and efficiently develops plan for complex clinical problem in patient with multiple co-morbid conditions
Understands basic elements of informed consent	Counsels patient for routine, lower-risk interventions	Counsels patients for routine, intermediate risk urologic interventions	Counsels patients for complex, higher-risk urologic interventions, with potential impact on quantity and/or quality of life	Counsels patients for complex, higher-risk urologic interventions, with potential impact on quantity and/or quality of life
Example: Identifies shock wave Iithotripsy as management option for urinary calculi	Examples: Identifies shock wave Iithotripsy and/or ureteroscopic fragmentation for routine symptomatic proximal ureteral stone  Obtains informed consent for selected stone treatment  Considers metabolic evaluation when patient presents with episode of recurrent nephrolithiasis	Examples: Identifies and prioritizes management options for incidental small renal mass in an otherwise healthy patient  Identifies medical and surgical management options for patient with LUTS  If patient with LUTS does not improve with medical management, appropriately selects operative intervention	Examples: Identifies and prioritizes management option for incidental renal mass in elderly female with chronic kidney disease and significant co-morbidities  Discusses risks, benefits, alternatives, and expected recovery, with understanding of quality of life impact, of radical cystectomy with various urinary diversions	Examples: Identifies and prioritizes management options for older patient with caval thrombus and renal tumor  Discusses risks, benefits, and alternatives of intervention with significant mortality or morbidity risk

May 201 <i>1</i>	Urc	logy Milestones for the Middle	e East	
		Discusses risks, benefits, alternatives, and expected recovery course for straightforward radical nephrectomy		
Comments:			Not Yet A	Achieved Level 1

Level 1	Level 2	Level 3	Level 4	Level 5
Identifies alterations in normal physiology	Identifies common intra- operative and post- operative alterations and complications	Identifies and manages less common intra- operative and post- operative alterations and complications	Identifies and manages common and uncommon intra-operative and post-operative physiologic alterations and complications	Efficiently identifies and manages common and uncommon intra-operative and post-operative physiologic alterations and complications
	Manages common complications, with appropriate help-seeking behavior as necessary	Identifies and manages common later complications of urologic interventions		
Example: Readily identifies signs of physiologic alteration, such as hypotension or tachycardia	Examples: Readily identifies, evaluates, and appropriately manages post-operative ileus  Seeks assistance from upper level residents and/or faculty as appropriate for resident experience and clinical condition of patient	Examples: Recognizes and manages partial disruption of ureteropelvic junction during percutaneous nephrostolithotomy, either intra-operatively or post- operatively  Recognizes symptoms of and manages bladder neck contracture after radical prostatectomy	Examples: Recognizes development of uretero-enteric anastomotic stricture following ileal loop urinary diversion  Appropriately manages immediate intervention for stricture as well as further evaluation (i.e., for recurrence of urothelial carcinoma)	Example: Rapidly anticipates and takes action to prevent development of post-operative complications Initiates early nutritional supplementation in at-risk post-operative patients

Patient Care 5: Performs Ope	en Surgical Procedures			
Level 1	Level 2	Level 3	Level 4	Level 5
Closes incisions for routine urologic procedures under direct supervision (as defined in the Program Requirements)	Creates and closes surgical wounds for <i>routine</i> urologic procedures	Plans, creates, and closes surgical wounds for <b>routine</b> urologic procedures	Plans, creates, and closes surgical wounds for <i>routine</i> and complex urologic procedures	Manipulates, repairs, and/or excises (as necessary) internal structures with appropriate instrument selection for a <i>majority of</i> routine and complex urologic procedures
	Performs routine urologic procedures appropriate for level of education	Manipulates, repairs, and excises (as necessary) internal structures with appropriate instrument selection and technique for <i>routine</i> urologic procedures	Manipulates, repairs, and/or excises (as necessary) internal structures with appropriate instrument selection for a <i>majority of</i> urologic procedures	
Example: Closure of the abdomen after a midline incision	Examples: Circumcision in an adult with phimosis Hydrocelectomy for a moderate sized hydrocele	Examples: Radical orchiectomy for a testicular mass  Orchidopexy for an inguinal undescended testis  Bladder neck/urethral sling for female stress urinary incontinence  Opening and closing of abdominal and flank incisions	Demonstrates capacity to perform surgical procedures independently  Examples: Open partial nephrectomy for a small polar renal mass  Ileal conduit urinary diversion Placement of inflatable penile prosthesis	Examples: Cystectomy and orthotopic neobladder  Radical nephrectomy for renal cancer with infrahepatic caval tumor thrombus
Comments:			Not Yet A	chieved Level 1

Patient Care 6: Performs E	Endoscopic Procedures of the	Upper and Lower Urinary Tra	ect	
Level 1	Level 2	Level 3	Level 4	Level 5
Obtains access and perform examination of bladder in a female under direct supervision (as defined in the Program Requirements)  Obtains access and performs examination of bladder and ureter for routine cases	Obtains access to bladder, ureter, <b>and kidney</b> , as appropriate for level of education	Obtains access to bladder, ureter, and kidney for routine and complex cases	Manipulates endoscopic equipment with appropriate instrument selection and correct force, speed, depth, and distance for a <i>majority of routine and complex</i> transurethral and ureteroscopic and percutaneous cases	
		Manipulates endoscopic equipment with appropriate instrument selection and correct force, speed, depth, and distance for <i>routine</i> transurethral and ureteroscopic cases, as appropriate for level of education	Manipulates endoscopic equipment with appropriate instrument selection and correct force, speed, depth, and distance for a <i>majority of</i> transurethral and ureteroscopic and percutaneous cases	Obtains percutaneous renal access
			Performs routine transurethral, ureteroscopic, and percutaneous procedures with independence	
Example: Cystoscopy in an adult female for removal of a ureteral stent	Examples: Rigid cystoscopy in a male and female patient	Examples: Transurethral resection of bladder tumor (TURBT) for a 3cm papillary bladder tumor	Examples: Transurethral resection of the prostate (TURP) involving resection of about 40gm of prostate chips	Examples: TURP for a 60-gram prostate Flexible ureteroscopy holmium laser lithotripsy and

May 2017	U	rology Milestones for the Mic	ldle East	
	Insert a ureteral stent in the patient with a ureteral stone that is not impacted Bladder biopsy with cold cup forceps  Obtain retrograde access to the kidney with normal anatomy of the ureter and kidney  Routine diagnostic ureteroscopy	Ureteroscopy and fragmentation of a small proximal or distal ureteral stone  Dilation of a percutaneous renal tract for percutaneous nephroscopy	TURBT for papillary lesions that are large or in difficult locations (e.g., bladder dome)  Retrograde access to kidney requiring balloon dilation of ureter  Flexible ureteroscopy with fragmentation of renal calculus  Flexible ureteroscopy with biopsy of urothelial lesion in upper tract  Percutaneous nephrolithotomy for a 3cm renal pelvic stone	extraction of a 1cm lower pole renal stone Percutaneous nephrolithotomy for a staghorn stone  Percutaneous access for percutaneous nephrolithotomy under fluoroscopic guidance in the operating room (OR)
Comments:			Not Ye	et Achieved Level 1

Level 1	Level 2	Level 3	Level 4	Level 5
Manipulates laparoscopic equipment as assistant for routine cases without robotic assistance under direct supervision (as defined in the Program Requirements)	Manipulates laparoscopic equipment with correct force, speed, depth, and distance <i>as assistant</i> for <i>routine</i> cases	Obtains access and insufflate abdomen for <b>routine</b> cases	Manipulates laparoscopic and/or robotic equipment with appropriate instrument selection and correct force, speed, depth, and distance for <i>routine</i> cases	Manipulates laparoscopic and/or robotic equipment with appropriate instrument selection and correct force, speed, depth, and distance for a majority of <i>routine</i> and complex cases
		Manipulates laparoscopic equipment with appropriate instrument selection and correct force, speed, depth, and distance for a portion of <i>routine</i> cases, as appropriate for level of education	Performs routine laparoscopic procedures with independence	
Example: Holds the laparoscope for laparoscopic renal cyst decortication and uncomplicated simple nephrectomy	Example: Functions as first assistant for a laparoscopic nephrectomy	Examples: Obtains routine access to the peritoneal cavity with establishment of pneumoperitoneum  Assists and inserts trocars at the appropriate locations for procedures appropriate for level of education  Performs some portion of a laparoscopic surgery appropriate for level of	Example: Laparoscopic radical nephrectomy for a 7cm renal mass	Examples: Robot assisted laparoscopic radical prostatectomy  Robot assisted laparoscopic pyeloplasty
		education		

Level 1	Level 2	Level 3	Level 4	Level 5
Performs routine outpatient procedures under direct supervision (as defined in the Program Requirements)	Obtains access to bladder for <b>routine</b> office procedures	Manipulates endoscopic and office surgical equipment with correct force, speed, depth, and distance for <i>routine</i> procedures	Manipulates endoscopic and office surgical equipment with correct force, speed, depth, and distance for <i>routine and complex</i> procedures	Performs <b>complex</b> diagnostic and therapeutic outpatient procedures
			Demonstrates capacity to teach and supervise performance of office- based procedures. Interprets office-based ultrasound of the kidney, bladder, and genitalia	
			Performs routine office- based procedures with independence	
Examples: Removal of surgical drains Removal of skin sutures and staples	Examples: Flexible cystoscopy for bladder cancer surveillance Flexible cystoscopy for removal of ureteral stent	Example: Transrectal ultrasound guided needle biopsy of the prostate	Examples: Flexible cystoscopy with dilation of urethral stricture  Routine office vasectomy Percutaneous suprapubic	Examples: Performs and interprets videourodynamic studies  Performs outpatient minimally invasive treatment for benign
			tube insertion	prostate hyperplasia (BPH)  Trans rectal ultrasound scan (TRUS) implantation of fiducial marker for prostate cancer

Level 1	Level 2	Level 3	Level 4	Level 5
Understands normal physiology, fluid and electrolyte balance, hemostasis, sepsis, and wound healing	Understands the effects of age, pregnancy, and obesity on the surgical patient	Understands the effects of comorbidities on the surgical patient (e.g., cardiac, pulmonary, renal, hepatic failure)	Understands the management of complex multisystem surgical pathophysiology, including intensive care and organ system support (e.g., dialysis, ventilator use)	Applies an evidence-based approach to innovative and complex obstetric procedures
Understands the principles of safe surgical practice (e.g., checklist, surgical consent, aseptic technique, patient positioning, skin preparation, draping, use of appropriate instruments, universal precautions)	Understands alterations in nutrition, including obesity and cachexia; understands the indications for enteral and parenteral feeding	Understands the impact of psychosocial disorders (e.g., depression, body dysmorphic disorder) on pre- and post-operative management	Understands potential reasons to decline offering surgical services  Understands the process of professional and legal discharge of a patient from practice	Systematically reviews outcomes and publishes in peer-reviewed journals
	Understands the effects of alcohol, tobacco, and substance abuse	Understands the effects of chemotherapy, radiation, immunosuppression, and medications, including homeopathic regimens		

Medical Knowledge 2: Differential Diagnosis				
Level 1	Level 2	Level 3	Level 4	Level 5
Creates a differential diagnosis for general complaints from patient's history and physical	Creates a differential diagnosis that includes common causes of urologic complaints	Creates a differential diagnosis that includes common and uncommon causes of urologic complaints	Creates a differential diagnosis that includes common and uncommon causes of urologic complaints	Creates a differential diagnosis that includes common, uncommon and rare causes of urologic complaints
Example:	Examples:	Prioritizes potential causes of patient complaint using information gathering skills	Rapidly generates differential and strategy to finalize diagnosis	Rapidly generates differential and strategy to finalize diagnosis for multiple urologic complaints
For abdominal pain, considers urologic and non-urologic etiologies	For flank pain, considers common etiologies, such as urinary lithiasis and pyelonephritis  For hematuria, considers common etiologies, such as infection, prostatic hyperplasia, and malignancy	Examples: For flank pain, considers less common etiologies, such as spontaneous hemorrhage from possible benign or malignant renal neoplasm (in addition to common etiologies listed above)  For hematuria, considers less common etiologies, such as renal source of bleeding	Examples: Generates differential and diagnostic strategy for range of urologic complaints, such as potential genitourinary malignancy, lower urinary tract symptoms, and flank pain	Examples: Generates differential and diagnostic strategy for multiple urologic complaints, such as lower urinary tract symptoms (LUTS) and renal mass
Comments:			Not Ye	et Achieved Level 1

Urology Milestones for the Middle East

May 2017

Medical Knowledge 3: Evidence-Based Medicine				
				1
Level 1	Level 2	Level 3	Level 4	Level 5
Understands the basis for clinical guidelines in treatment of urologic patients	Demonstrates knowledge of guidelines in managing urologic patients with basic symptoms	Demonstrates knowledge of guidelines in treatment of patients requiring basic medical or procedural intervention	Demonstrates knowledge of guidelines in treatment of patients with complex conditions or malignancies	Demonstrates knowledge of limitations of guidelines and other tools in managing complex patients that do not fit into standard categories
Understands the difference between clinical recommendations from evidence, clinical principles, and expert opinion				
	Examples: Recognizes need for imaging and endoscopic evaluation when required for asymptomatic microhematuria patients	Examples: Counsels patients with urinary stones on appropriate dietary and fluid recommendations	Examples: Correctly institutes intravesical therapy regimen for patients with nonmuscle invasive bladder cancer	
	Understands evaluation of lower urinary tract symptoms in men related to benign prostatic hypertrophy	Recognizes need for timely intervention in prepubertal boys with undescended testes	Correctly recommends options for patients with asymptomatic metastatic castration-resistant prostate cancer	
	Understands recommendations related to detection of early prostate cancer	Understands how to correctly treat patients with priapism using intracavernosal agents		
Comments:			Not Yet Achieved	Level 1

Medical Knowledge 4: Core Domains				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates basic understanding of urologic principles related to anatomy, physiology, and epidemiology	Demonstrates knowledge of issues related to general care of all urologic patients as measured by performance on national standardized testing and other objective measures	Demonstrates knowledge of issues related to specific basic urologic populations as measured by performance on national standardized testing and other objective measures	Demonstrates knowledge of issues related to advanced urologic populations as measured by performance on national standardized testing and other objective measures	Demonstrates evidence of advanced knowledge of subspecialties within urology consistent with an independent practicing physician
Examples: Understands the anatomic layers traversed through an open flank incision  Recognizes the physiologic consequences related to fluid and electrolyte disturbances	Examples: Understands types of radiographic studies used in evaluation and associated issues related to radiation safety  Correctly recognizes types of urologic infections  Understands physiologic alterations related to calculus disease	Examples: Understands embryologic issues related to pediatric urology, such as disorders of sexual differentiation  Understands pathophysiology related to voiding dysfunction and urinary incontinence  Correctly identifies and understands causes of male infertility	Examples: Understands specific issues related to renal transplantation and renovascular disease  Correctly identifies causes and management of urinary fistulae  Understands specific recommendations and issues related to medical oncology in urologic cancer patients	
Comments:			Not Yet Achieved	d Level 1

Systems-Based Practice 1: Patient Safety and Quality Improvement					
Level 1	Level 2	Level 3	Level 4	Level 5	
Demonstrates knowledge of common patient safety events	Identifies system factors that lead to patient safety events	Participates in analysis of patient safety events (simulated or actual)	Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	Actively engages teams and processes to modify systems to prevent patient safety events	
Demonstrates knowledge of how to report patient safety events	Reports patient safety events through institutional reporting systems (actual or simulated)	Participates in disclosure of patient safety events to patients and families (simulated or actual)	Discloses patient safety events to patients and families (simulated or actual)	Role models or mentors others in the disclosure of patient safety events	
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives (e.g., community vaccination rate, infection rate, smoking cessation)	Participates in local quality improvement initiatives	Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Creates, implements, and assesses quality improvement initiatives at the institutional or community level	
Comments:	Comments:  Not Yet Achieved Level 1				

Systems-Based Practice 2: System Navigation for Patient-Centered Care					
Level 1	Level 2	Level 3	Level 4	Level 5	
Demonstrates knowledge of care coordination	Coordinates care of patients in routine clinical situations effectively utilizing the roles of the interprofessional teams	Coordinates care of patients in complex clinical situations effectively utilizing the roles of their interprofessional teams	Role models effective coordination of patient-centered care among different disciplines and specialties	Analyzes the process of care coordination and leads in the design and implementation of improvements	
Identifies key elements for safe and effective transitions of care and handoffs	Performs safe and effective transitions of care/handoffs in routine clinical situations	Performs safe and effective transitions of care/handoffs in complex clinical situations	Role models and advocates for safe and effective transitions of care/handoffs within and across health care delivery systems, including outpatient settings	Improves quality of transitions of care within and across health care delivery systems to optimize patient outcomes	
Demonstrates knowledge of population and community health needs and disparities	Identifies specific population and community health needs and inequities for their local population	Uses local resources effectively to meet the needs of a patient population and community	Participates in changing and adapting practice to provide for the needs of specific populations	Leads innovations and advocates for populations and communities with health care inequities	
Comments:  Not Yet Achieved Level 1					

Level 1	Level 2	Level 3	Level 4	Level 5
Identifies components of the complex health care system	Describes the physician's role and how the interrelated components of complex health care system impact patient care	Analyzes how personal practice affects the system (e.g., length of stay, readmission rates, clinical efficiency)	Manages the interrelated components of the complex health care systems for efficient and effective patient care	Advocates for or leads change to enhance systems for high value, efficient, and effective patient care
Describes basic health payment systems, including government, private, public, and uninsured care and different practice models	Delivers care informed by patient specific payment model	Utilizes shared decision making in patient care, taking into consideration payment models	Advocates for patient care understanding the limitations of each patient's payment model (e.g., community resources, patient assistance resources)	Participates in advocacy activities for health policy to better align payment systems with high value care
		Identifies resources and effectively plans for transition to practice (e.g., information technology, legal, billing and coding, financial, personnel)	Describes basic elements needed to transition to practice (e.g., contract negotiations, malpractice insurance, government regulation, compliance)	

Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates how to access and use available evidence, and incorporate patient preferences and values in order to care for a routine patient	Articulates clinical questions and elicits patient preferences and values in order to guide evidence-based care	Locates and applies the best available evidence, integrated with patient preference, to the care of complex patients	Critically appraises and applies evidence even in the face of uncertainty and conflicting evidence to guide care, tailored to the individual patient	Coaches others to critically appraise and apply evidence for complex patients, and/or participates in the development of guidelines
Comments:			Not Ye	t Achieved Level 1

Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth				
Level 1	Level 2	Level 3	Level 4	Level 5
Accepts responsibility for personal and professional development by establishing goals	Demonstrates openness to performance data (feedback and other input) in order to inform goals	Seeks performance data episodically, with adaptability and humility	Intentionally seeks performance data consistently, with adaptability and humility	Role models consistently seeking performance data, with adaptability and humility
Identifies the factors that contribute to gap(s) between expectations and actual performance	Analyzes and reflects on the factors that contribute to gap(s) between expectations and actual performance	Analyzes, reflects on, and institutes behavioral change(s) to narrow the gap(s) between expectations and actual performance	Challenges assumptions and considers alternatives in narrowing the gap(s) between expectations and actual performance	Coaches others on reflective practice
Actively seeks opportunities to improve	Designs and implements a learning plan, with prompting	Independently creates and implements a learning plan	Uses performance data to measure the effectiveness of the learning plan and, when necessary, improves it	Facilitates the design and implementation of learning plans for others
Comments:  Not Yet Achieved Level 1				

_evel 1	Level 2	Level 3	Level 4	Level 5
Identifies and describes potential triggers for professionalism lapses	Demonstrates insight into professional behavior in routine situations	Demonstrates professional behavior in complex or stressful situations	Recognizes situations that may trigger professionalism lapses and intervenes to prevent lapses in self and others	Coaches others when their behavior fails to meet professional expectations
Describes when and now to appropriately report professionalism apses, including strategies for addressing common parriers	Takes responsibility for own professionalism lapses	Analyzes complex situations using ethical principles	Recognizes and utilizes appropriate resources for managing and resolving ethical dilemmas as needed (e.g., ethics consultations, literature review, risk management/legal consultation)	Identifies and seeks to address system-level factors that induce or exacerbate ethical problems or impede their resolution
Demonstrates knowledge of the ethical principles underlying informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship of limited resources, and related topics	Analyzes straightforward situations using ethical principles	Recognizes need to seek help in managing and resolving complex ethical situations		

Professionalism 2: Accountability/Conscientiousness				
Level 1	Level 2	Level 3	Level 4	Level 5
Takes responsibility for failure to complete tasks and responsibilities, identifies potential contributing factors, and describes strategies for ensuring timely task completion in the future	Performs tasks and responsibilities in a timely manner with appropriate attention to detail in routine situations	Performs tasks and responsibilities in a timely manner with appropriate attention to detail in complex or stressful situations	Recognizes situations that may impact others' ability to complete tasks and responsibilities in a timely manner	Takes ownership of system outcomes
Responds promptly to requests or reminders to complete tasks and responsibilities	Recognizes situations that may impact own ability to complete tasks and responsibilities in a timely manner	Proactively implements strategies to ensure that the needs of patients, teams, and systems are met		
Comments:  Not Yet Achieved Level 1				

Professionalism 3: Self-Awareness and Help-Seeking				
Level 1	Level 2	Level 3	Level 4	Level 5
Recognizes status of personal and professional well-being, with assistance	Independently recognizes status of personal and professional well-being	With assistance, proposes a plan to optimize personal and professional well-being	Independently develops a plan to optimize personal and professional well-being	Coaches others when emotional responses or limitations in knowledge/skills do not meet professional expectations
Recognizes limits in the knowledge/skills of self or team, with assistance	Independently recognizes limits in the knowledge/skills of self or team	With assistance, proposes a plan to remediate or improve limits in the knowledge/skills of self or team	Independently develops a plan to remediate or improve limits in the knowledge/skills of self or team	
	Demonstrates appropriate help-seeking behaviors			
Comments:			Not Y	et Achieved Level 1

Level 1	Level 2	Level 3	Level 4	Level 5
Uses language and non- verbal behavior to demonstrate respect and establish rapport	Establishes a therapeutic relationship in straightforward encounters using active listening and clear language	Establishes a therapeutic relationship in challenging patient encounters	Easily establishes therapeutic relationships, with attention to patient/family concerns and context, regardless of complexity	Mentors others in situational awareness and critical self-reflection to consistently develop positive therapeutic relationships
Identifies common barriers to effective communication (e.g., language, disability) while accurately communicating own role within the health care system	Identifies complex barriers to effective communication (e.g., health literacy, cultural)	When prompted, reflects on personal biases while attempting to minimize communication barriers	Independently recognizes personal biases while attempting to proactively minimize communication barriers	Role models self- awareness practice while identifying teaching a contextual approach to minimize communication barriers
Identifies the need to adjust communication strategies based on assessment of patient/family expectations and understanding of their health status and treatment options	Organizes and initiates communication with patients/families by introducing stakeholders, setting the agenda, clarifying expectations, and verifying an understanding of the clinical situation	With guidance, sensitively and compassionately delivers medical information; elicits patient/family values, goals and preferences; and acknowledges uncertainty and conflict	Independently uses shared decision making to align patient/family values, goals, and preferences with treatment options to make a personalized care plan	Role models shared decision making in patient/family communication in situations with a high degree of uncertainty/conflict

Interpersonal and Communication Skills 2: Interprofessional and Team Communication						
Level 1	Level 2	Level 3	Level 4	Level 5		
Respectfully requests a consultation	Clearly and concisely requests a consultation	Checks own understanding of consultant recommendations	Coordinates recommendations from different members of the health care team to optimize patient care	Role models flexible communication strategies that value input from all health care team members, resolving conflict when needed		
Respectfully receives a consultation request	Clearly and concisely responds to a consultation request	Checks understanding of recommendations when providing consultation	Communicates feedback and constructive criticism to superiors	Facilitates regular health care team-based feedback in complex situations		
Uses language that values all members of the health care team	Communicates information effectively with all health care team members	Uses active listening to adapt communication style to fit team needs				
	Solicits feedback on performance as a member of the health care team	Communicates concerns and provides feedback to peers and learners				
Comments:  Not Yet Achieved Level 1						

evel 1	Level 2	Level 3	Level 4	Level 5
Accurately records information in the patient record	Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record	Concisely reports diagnostic and therapeutic reasoning in the patient record	Communicates clearly, concisely, in a timely manner, and in an organized written form, including anticipatory guidance	Models feedback to improve others' written communication
Safeguards patient personal health information	Demonstrates accurate, timely, and appropriate use of documentation shortcuts	Appropriately selects direct (e.g., telephone, in-person) and indirect (e.g., progress notes, text messages) forms of communication based on context	Produces written or verbal communication (e.g., patient notes, e-mail, etc.) that serves as an example for others to follow	Guides departmental or institutional communicatio around policies and procedures
Communicates through appropriate channels as required by institutional policy (e.g. patient safety reports, cell phone/pager usage)	Documents required data in formats specified by institutional policy	Uses appropriate channels to offer clear and constructive suggestions to improve the system	Initiates difficult conversations with appropriate stakeholders to improve the system	Facilitates dialogue regarding systems issues among larger community stakeholders (e.g., institution, health care system, field)
	Respectfully communicates concerns about the system			