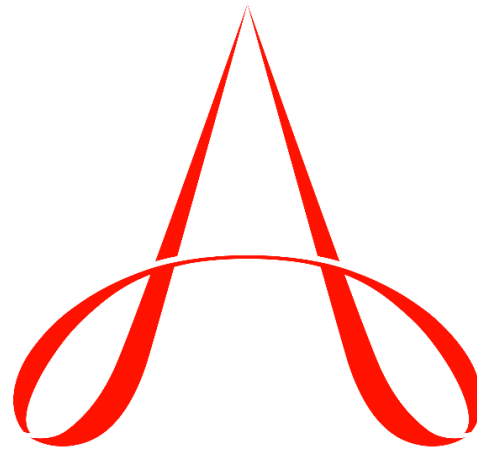




Interventional Radiology – Integrated Milestones

The Accreditation Council for Graduate Medical Education



A C G M E

Second Revision: December 2019

First Revision: December 2012

Interventional Radiology - Integrated Milestones

The Milestones are designed only for use in evaluation of residents in the context of their participation in ACGME-accredited residency programs. The Milestones provide a framework for the assessment of the development of the resident in key dimensions of the elements of physician competency in a specialty or subspecialty. They neither represent the entirety of the dimensions of the six domains of physician competency, nor are they designed to be relevant in any other context.

Interventional Radiology - Integrated Milestones

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American Board of Radiology

Association of Program Directors in Interventional Radiology

Review Committee for Radiology

Understanding Milestone Levels and Reporting

This document presents the Milestones, which programs use in a semi-annual review of resident performance, and then report to the ACGME. Milestones are knowledge, skills, attitudes, and other attributes for each of the ACGME Competencies organized in a developmental framework. The narrative descriptions are targets for resident performance throughout their educational program.

Milestones are arranged into levels. Tracking from Level 1 to Level 5 is synonymous with moving from novice to expert resident in the specialty or subspecialty. For each reporting period, the Clinical Competency Committee will review the completed evaluations to select the milestone levels that best describe each learner's current performance, abilities, and attributes for each subcompetency.

These levels *do not* correspond with post-graduate year of education. Depending on previous experience, a junior resident may achieve higher levels early in his/her educational program just as a senior resident may be at a lower level later in his/her educational program. There is no predetermined timing for a resident to attain any particular level. Residents may also regress in achievement of their milestones. This may happen for many reasons, such as over scoring in a previous review, a disjointed experience in a particular procedure, or a significant act by the resident.

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

Additional Notes

Level 4 is designed as a graduation *goal* but *does not* represent a graduation *requirement*. Making decisions about readiness for graduation and unsupervised practice is the purview of the program director. Furthermore, Milestones 2.0 include revisions and changes that preclude using Milestones as a sole assessment in high-stakes decisions (i.e., determination of eligibility for certification or credentialing). Level 5 is designed to represent an expert resident whose achievements in a subcompetency are greater than the expectation. Milestones are primarily designed for formative, developmental purposes to support continuous quality improvement for individual learners, education programs, and the specialty. The ACGME and its partners will continue to evaluate and perform research on the Milestones to assess their impact and value.

Examples are provided for some milestones within this document. Please note: the examples are not the required element or outcome; they are provided as a way to share the intent of the element.

Some milestone descriptions include statements about performing independently. These activities must occur in conformity to ACGME supervision guidelines as described in the Program Requirements, as well as to institutional and program policies. For example, a resident who performs a procedure independently must, at a minimum, be supervised through oversight.

A Supplemental Guide is also available to provide the intent of each subcompetency, examples for each level, assessment methods or tools, and other available resources. The Supplemental Guide, like examples contained within the Milestones, is designed only to assist the program director and Clinical Competency Committee, and is not meant to demonstrate any required element or outcome.

Supplemental Guides and other resources are available on the Milestones page of each specialty section of the ACGME website. On www.acgme.org, choose the applicable specialty under the “Specialties” menu, then select the “Milestones” link in the lower navigation bar.

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

Medical Knowledge 2: Physics, Protocol Selection, and Optimization of Images				
Level 1	Level 2	Level 3	Level 4	Level 5
Discusses the basic physics for imaging and image guided intervention	Demonstrates knowledge of basic medical physics and radiobiology in imaging and image guided intervention	Applies knowledge of basic medical physics and radiobiology to imaging and image guided intervention	Applies physical principles to optimize image quality, including dose reduction strategies	Teaches physical principles to optimize image quality to other specialties
Discusses the protocols and contrast agent/dose for imaging and image guided intervention	Selects appropriate protocols and contrast agent/dose for emergent and routine imaging and image guided intervention	Selects appropriate protocols and contrast agent/dose for complex imaging and image guided intervention	Modifies protocols and contrast agent/dose as determined by clinical circumstances	Develops imaging and image guided intervention protocols
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="float: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Selecting a response box in the middle of a level implies that milestones in that level and in lower levels have been substantially demonstrated.

Selecting a response box on the line in between levels indicates that milestones in lower levels have been substantially demonstrated as well as **some** milestones in the higher level(s).

Patient Care 1: Reporting				
Level 1	Level 2	Level 3	Level 4	Level 5
Generates reports with appropriate elements for coding	Efficiently generates clear and concise reports that do not require substantive correction	Efficiently generates clear and concise reports that rarely require correction	Generates tailored reports meeting the needs of the care provider and complex interventional reports with appropriate elements for coding	Generates tailored reports meeting the referring subspecialty needs
Describes lexicons and structured reporting	Uses lexicons and structured reporting that do not require substantive correction	Uses lexicons and structured reporting that rarely require correction	Proficiently uses lexicons and structured reporting to provide accurate and timely reports that do not require correction	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Patient Care 2: Imaging Consultation				
Level 1	Level 2	Level 3	Level 4	Level 5
Uses electronic health record (EHR) to obtain relevant clinical information	For emergent and routine imaging consultations, delineates the clinical question, obtains appropriate clinical information, uses evidence-based imaging guidelines, and recommends next steps, with assistance	For complex imaging consultations, delineates the clinical question, obtains appropriate clinical information, uses evidence-based imaging guidelines, and recommends next steps, with assistance	Manages imaging consultations independently, taking into consideration cost effectiveness and risk benefit analysis	Provides comprehensive imaging consultation at the expected level of a subspecialist
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="float: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Patient Care 3: Image Interpretation				
Level 1	Level 2	Level 3	Level 4	Level 5
Identifies primary imaging findings	Identifies secondary and critical imaging findings and formulates differential diagnoses	Prioritizes differential diagnoses, and recommends management options	Provides a single diagnosis, when appropriate, with integration of current guidelines to recommend management	Demonstrates expertise and efficiency at a level expected of a subspecialist
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/>

Patient Care 4: Pre-Procedural Consultation				
Level 1	Level 2	Level 3	Level 4	Level 5
Gathers a complete history and performs a physical	Gathers a focused history and performs a physical	Chooses appropriate pre-procedural laboratory and imaging studies	Adjusts procedural plan based upon pre-procedural laboratory and imaging results	Mentors other learners in the pre-procedural consultation
Formulates a pre-procedural assessment and plan with guidance from a faculty member	Formulates a pre-procedural assessment and plan with minimal guidance from a faculty member	Independently formulates a pre-procedural assessment and plan for common disorders	Independently formulates a pre-procedural assessment and plan for complex disorders	Develops patient care protocols/teaching materials
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Patient Care 5: Performance of Procedures				
Level 1	Level 2	Level 3	Level 4	Level 5
<p>Performs basic procedures (e.g., paracentesis, thoracentesis, non-targeted biopsy)</p> <p>Effectively uses basic image guidance (e.g., visualize needle tip with ultrasound)</p>	<p>Performs advanced basic procedures (e.g., central venous access, targeted superficial biopsy)</p> <p>Demonstrates basic catheter and wire skills</p>	<p>Performs moderately complex procedures (e.g., nephrostomy, diagnostic angiography)</p> <p>Integrates catheter and wire skills with imaging of complex anatomy</p>	<p>Performs complex procedures (e.g., transarterial chemoembolisation therapy [TACE], transjugular intrahepatic portosystemic shunt [TIPS], stent graft)</p> <p>Integrates catheter and wire skills with advanced imaging guidance and device use</p>	<p>Develops new techniques or tools</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Comments:</p> <p style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/></p>				

Patient Care 6: Post-Procedural Patient Care				
Level 1	Level 2	Level 3	Level 4	Level 5
<p>Manages routine post-procedural care with guidance</p> <p>Evaluates post-procedural complications</p>	<p>Manages post-procedural care with minimal guidance</p> <p>Manages minor post-procedural complications</p>	<p>Formulates and implements post-procedural imaging and clinical follow-up for patients after basic procedures</p> <p>Manages major post-procedural complications</p>	<p>Formulates and implements post-procedural imaging and clinical follow-up for patients after complex procedures</p> <p>Anticipates and mitigates post-procedural complications</p>	<p>Mentors other learners in post-procedural care and management of complications</p> <p>Develops a clinical pathway or guideline for post-procedural care</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Comments:</p> <p style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></p> <p style="text-align: right;">Not Yet Assessable <input type="checkbox"/></p>				

Medical Knowledge 1: Diagnostic Imaging Knowledge				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of imaging anatomy	Applies knowledge of anatomy to make common imaging diagnoses	Applies knowledge of anatomy to make uncommon imaging diagnoses	Proficiently integrates knowledge of anatomic and molecular imaging with pathophysiology to formulate a diagnosis	Proficiently integrates knowledge of anatomic and molecular imaging with pathophysiology to formulate a diagnosis at the expected level of a subspecialist
Demonstrates knowledge of pathophysiology of disease processes	Applies knowledge of pathophysiology to make common imaging diagnoses	Applies knowledge of pathophysiology to make uncommon imaging diagnoses		
Demonstrates knowledge of cellular and molecular systems	Applies knowledge of cellular and molecular systems to make common imaging diagnoses	Applies knowledge of cellular and molecular systems to make uncommon imaging diagnoses		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				
				Not Yet Completed Level 1 <input type="checkbox"/>
				Not Yet Assessable <input type="checkbox"/>

Medical Knowledge 2: Physics, Protocol Selection, and Optimization of Images				
Level 1	Level 2	Level 3	Level 4	Level 5
Discusses the basic physics for imaging and image-guided intervention	Demonstrates knowledge of basic medical physics and radiobiology in imaging and image-guided intervention	Applies knowledge of basic medical physics and radiobiology to imaging and image-guided intervention	Applies physical principles to optimize image quality, including dose reduction strategies	Teaches physical principles to optimize image quality to other specialties
Discusses the protocols and contrast agent/dose for imaging and image-guided intervention	Selects appropriate protocols and contrast agent/dose for emergent and routine imaging and image-guided intervention	Selects appropriate protocols and contrast agent/dose for complex imaging and image-guided intervention	Modifies protocols and contrast agent/dose as determined by clinical circumstances	Develops imaging and image-guided intervention protocols
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="float: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Medical Knowledge 3: Imaging Technology and Image Acquisition				
Level 1	Level 2	Level 3	Level 4	Level 5
Discusses imaging technology and image acquisition	Demonstrates knowledge of basic image acquisition and image processing, and recognizes common imaging artifacts and technical problems	Demonstrates knowledge of instrument quality control and image reconstruction, troubleshoots for artifact reduction	Proficiently optimizes image acquisition and processing in collaboration with the technology/imaging team	Presents or publishes research on imaging technology
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="float: right; text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Medical Knowledge 4: Pathophysiology and Treatment				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of pathophysiology of common conditions	Demonstrates knowledge of pathophysiology and treatment of patients with common conditions	Demonstrates knowledge of pathophysiology and treatment of patients with complex conditions	Demonstrates knowledge of the pathophysiologic changes after treatment	Contributes to peer-reviewed literature on pathophysiology and/or treatment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="float: right; text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Medical Knowledge 5: Procedural Anatomy				
Level 1	Level 2	Level 3	Level 4	Level 5
Identifies normal anatomy during procedures	Identifies anatomic variants during procedures	Articulates the implications of varying anatomy for procedural planning	Identifies post-operative anatomy and its implications for procedures	Develops simulation models or other resources
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Medical Knowledge 6: Pharmacology				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates basic knowledge of the pharmacologic agents used in interventional radiology	Demonstrates knowledge of dosing and drug choice for sedation and other commonly used pharmacologic agents	Demonstrates knowledge of the indications, contraindications, side-effects, and complications of pharmacologic agents	Applies functional knowledge of pharmacology to interventional radiology procedures and peri-procedural care	Develops pharmacologic protocols or departmental guidelines
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="float: right; text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/> </div>				

Systems-Based Practice 1: Patient Safety				
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 (simulated or actual)	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
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

Systems-Based Practice 2: Quality Improvement				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives	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
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Systems-Based Practice 3: System Navigation for Patient-Centered Care				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of care coordination in radiology imaging/procedures	Coordinates care of patients in routine radiology imaging/procedures effectively using the roles of the interprofessional teams	Coordinates care of patients in complex radiology imaging/procedures effectively using the roles of the interprofessional teams	Role models effective coordination of patient-centered care among different disciplines and specialties	Analyses the process of care coordination and leads in the design and implementation of improvements
Performs safe and effective transitions of care/hand-offs in basic clinical situations	Performs safe and effective transitions of care/hand-offs in moderately complex clinical situations	Performs safe and effective transitions of care/hand-offs in complex clinical situations	Role models safe and effective transitions of care/hand-offs	Improves quality of transitions of care within and across health care delivery systems to optimize patient outcomes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

Systems-Based Practice 4: Multidisciplinary Conferences				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates basic knowledge of how a multidisciplinary conference operates	Attends multidisciplinary conferences	Contributes meaningfully to the multidisciplinary conference	Initiates and presents their own patients at multidisciplinary conference, and is responsible for comprehensive discussion	Leads a multidisciplinary conferences
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Systems-Based Practice 5: Population Health				
Level 1	Level 2	Level 3	Level 4	Level 5
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
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

Systems-Based Practice 6: Physician Role in Health Care Systems				
Level 1	Level 2	Level 3	Level 4	Level 5
Identifies key components of the complex health care system	Describes how components of a complex health care system are interrelated, and how this impacts patient care	Discusses how individual practice affects the broader system	Manages various components of the complex health care system to provide efficient and effective patient care	Advocates for or leads systems change that enhances high-value, efficient, and effective patient care
Describes the mechanisms for reimbursement, including types of payers	States relative cost of common procedures	Describes the technical and professional components of imaging costs	Describes the radiology revenue cycle and measurements of productivity	Participates in health policy advocacy activities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Systems-Based Practice 7: Contrast Agent Safety				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of contrast reactions and commonly used pre-medication regimens	Recognizes contrast reactions (simulated or actual)	Manages contrast reactions, with supervision (simulated or actual)	Independently manages contrast reactions (simulated or actual)	Leads educational experience in simulation laboratory for contrast reaction
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Systems-Based Practice 8: Radiation Safety				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of the mechanisms of radiation injury and the ALARA (“as low as reasonably achievable”) concept Wears lead apron and dosimeter at all times	Applies principles of ALARA in daily practice Uses fluoroscopy techniques that decrease exposure, with guidance Uses radiation protection devices, including shielding, as appropriate, with guidance	Accesses resources to determine exam-specific radiation dose information Independently uses radiation protection devices, including shielding, as appropriate	Communicates the relative risk and benefits of exam-specific radiation exposure to patients and practitioners Counsels colleagues and allied health staff regarding radiation exposure	Creates, implements, and assesses radiation safety initiatives at the institutional level Participates in radiation safety education and research
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;"> Not Yet Completed Level 1 <input type="checkbox"/> </div>				

Systems-Based Practice 9: Magnetic Resonance (MR) Safety				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of the risks of MR, including safety zones and pre-MR screening	Accesses resources to determine the safety of implanted devices and retained foreign bodies	Communicates MR safety, including implants and retained foreign bodies, to patients and practitioners	Applies principles of MR safety to complex cases, such as MR guided interventions	Creates, implements, and assesses MR safety initiatives at the institutional level
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

Systems-Based Practice 10: Informatics				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates familiarity with information systems, including EHRs, radiological information systems, and picture archiving and communication systems	Demonstrates familiarity with information standards in radiology and describes their roles	Describes approaches to capture and integrate data from radiology examinations into medical decision making	Applies knowledge of information systems, standards, and data to support radiology initiatives, as appropriate	Participates in operational and strategic information systems meetings; applies informatics knowledge to help guide direction and operation of the radiology department
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates how to access and use available evidence to guide routine patient care	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 and values, to care for complex patients	Critically appraises 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
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

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 professional development by establishing goals	Receptive to performance data and feedback in order to inform goals	Episodically seeks performance data and feedback, with humility and adaptability	Consistently seeks performance data and feedback with humility and adaptability	Coaches other learners to consistently seek performance data and feedback
Identifies factors which contribute to gap(s) between expectations and actual performance	Analyzes and reflects on factors which 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	Analyzes effectiveness of behavioral changes where appropriate and considers alternatives in narrowing the gap(s) between expectations and actual performance	Coaches others on reflective practice
Actively seeks opportunities to improve performance	Designs and implements a learning plan, with prompting	Designs and implements a learning plan independently	Uses performance data to measure the effectiveness of the learning plan and when necessary, improves it	Facilitates the design and implements learning plans for others
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				
				Not Yet Completed Level 1 <input type="checkbox"/>

Professionalism 1: Professional Behavior				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of expectations for professional behavior and describes how to appropriately report professional lapses	Demonstrates insight into professional behavior in routine situations and takes responsibility for own professionalism lapses	Demonstrates professional behavior in complex or stressful situations and takes responsibility for own professionalism lapses	Recognizes situations that may trigger professionalism lapses and intervenes to prevent lapses in self and others	Coaches others to meet professional expectations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Professionalism 2: Ethical Principles				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of the ethical principles underlying informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, and stewardship of limited resources	Analyzes straightforward situations using ethical principles	Recognizes need to seek help in managing and resolving complex ethical situations	Recognizes and uses 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
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

Professionalism 3: Accountability/Conscientiousness				
Level 1	Level 2	Level 3	Level 4	Level 5
Responds promptly to requests or reminders to complete tasks and responsibilities	Performs tasks and responsibilities in a timely manner to ensure that the needs of patients, teams, and systems are met in routine situations	Performs tasks and responsibilities in a timely manner to ensure that the needs of patients, teams, and systems are met in complex or stressful situations	Recognizes and raises awareness of situations that may impact others' ability to complete tasks and responsibilities in a timely manner	Takes ownership of system outcomes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/>

Professionalism 4: 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, and is aware of available resources	Independently recognizes status of personal and professional well-being, and uses available resources when appropriate	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	Independently recognizes limits in the knowledge/skills of self or team and demonstrates appropriate help-seeking behaviors	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	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

This subcompetency is not intended to evaluate a resident's well-being, but to ensure each resident has the fundamental knowledge of factors that impact well-being, the mechanisms by which those factors impact well-being, and available resources and tools to improve well-being.

Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication				
Level 1	Level 2	Level 3	Level 4	Level 5
<p>Uses language and nonverbal behavior to demonstrate respect and establish rapport</p> <p>Accurately communicates own role within the health care system</p> <p>Organizes and initiates communication with patient/family by clarifying expectations and verifying understanding of the clinical situation</p>	<p>Establishes a therapeutic relationship in straightforward encounters using active listening and clear language</p> <p>Identifies barriers to effective communication (e.g. language, health literacy, cultural, personal biases)</p> <p>Adjusts communication strategies based on assessment of patient/family expectations and understanding</p>	<p>Establishes a therapeutic relationship in challenging patient encounters</p> <p>Identifies personal barriers that hinder effective communication</p> <p>With guidance, sensitively and compassionately delivers medical information, elicits patient goals and preferences, and acknowledges uncertainty and conflict</p>	<p>Easily establishes therapeutic relationships, with attention to patient/family concerns and context, regardless of complexity</p> <p>Actively minimizes communication barriers</p> <p>Independently uses shared decision making to make a personalized care plan</p>	<p>Mentors others in situational awareness and critical self-reflection to consistently develop positive therapeutic relationships</p> <p>Coaches other learners to minimize communication barriers</p> <p>Coaches other learners in patient/family communications and shared decision making</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Comments:</p> <p style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></p>				

Interpersonal and Communication Skills 2: Interprofessional and Team Communication				
Level 1	Level 2	Level 3	Level 4	Level 5
Respectfully requests or receives consultations	Clearly and concisely requests or responds to consultations	Checks understanding of recommendations when receiving or providing consultations	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
Uses language that values all members of the interventional team	Communicates information effectively with all interventional team members	Solicits feedback on performance as a member of the interventional team	Coordinates recommendations from different members of the interventional team to optimize patient care	Uses interventional team feedback and recommendations to facilitate quality improvement
Demonstrates knowledge of institutional and national communication guidelines	Communicates emergent findings and/or management options	Communicates non-emergent findings and/or management options where failure to act may adversely affect patient outcome	Independently manages real-time consultations which are tailored to the referring provider	Coaches other learners in tailored communications to referring providers
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <div style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></div>				

Interpersonal and Communication Skills 3: Communication within Health Care Systems				
Level 1	Level 2	Level 3	Level 4	Level 5
<p>Accurately records information in the patient record, safeguarding patient personal health information</p> <p>Demonstrates knowledge of institutional communications policies</p>	<p>Appropriately selects direct (e.g., telephone, in-person) and indirect (e.g., progress notes, text messages) forms of communication based on context</p> <p>Communicates appropriately as required by institutional policy</p>	<p>Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record</p> <p>Identifies issues in systems communications</p>	<p>Achieves written or verbal communication (patient notes, email, etc.) that serves as an example for others to follow</p> <p>Uses appropriate channels to offer clear and constructive suggestions to improve communication systems</p>	<p>Guides departmental or institutional communication around policies and procedures</p> <p>Facilitates dialogue regarding systems issues among larger community stakeholders (institution, health care system, field)</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Comments:</p> <p style="text-align: right;">Not Yet Completed Level 1 <input type="checkbox"/></p>				