Neurological Surgery Milestones for the Middle East



January 2019

The Neurological Surgery Milestones for the Middle East

The Milestones are designed only for use in evaluation of residents in the context of their participation in ACGME-I-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. 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.

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 "Level 1" to "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 one who has had some education in neurological surgery.
- **Level 2:** The resident is advancing and demonstrating additional milestones.
- **Level 3:** The resident continues to advance and demonstrate additional milestones; the resident consistently demonstrates the majority of milestones targeted for residency.
- **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

The "Level 4" Milestones are designed as the graduation *target* and *do not* represent a graduation *requirement*. Making decisions about readiness for graduation is the purview of the program director. Study of Milestones performance data will be required before the ACGME-I and its partners will be able to determine whether milestones in the first four levels appropriately represent the developmental framework, and whether Milestone data overall are of sufficient quality to be used for high-stakes decisions.

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 subcompetency in the same format as the ACGME-I Report Worksheet. For each reporting period, a learner's performance on the milestones for each subcompetency 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 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:			Natur	at ashiguad Laugh 1
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).				et achieved Level 1

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Patient Care 1: Brain Tumor				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs a history and physical examination in patients with a brain tumor	Explains the risks and benefits of craniotomy for brain tumor	Formulates a diagnostic and treatment plan for a patient with a brain or spinal cord tumor	Adapts standard treatment plans and techniques to special circumstances (e.g., recurrence, bone marrow suppression)	Leads discussion at an interdisciplinary tumor board
Places an external ventricular drain; assists with set-up, opening, and closing for brain tumor craniotomies	Assists with routine craniotomy for brain tumor	Performs routine craniotomy for brain tumor; assists with complex craniotomy for brain tumor	Performs complex craniotomy for brain tumor; assists with advanced craniotomy for brain tumor	Performs advanced craniotomy for brain tumor
Provides routine peri- operative care for brain tumor patients	Recognizes and initiates work-up of routine complications (e.g., air embolism, cerebrospinal fluid [CSF] fistula, hematoma)	Manages routine complications and recognizes complex complications (e.g., refractory cerebral edema, major vascular injury)	Manages complex complications	Uses patient outcome data for quality improvement or the development of adjunctive therapy protocols
Comments: Not Yet Achieved Level 1				

Patient Care 2: Surgical Treatment of Epilepsy and Movement Disorders					
Level 1	Level 2	Level 3	Level 4	Level 5	
Performs a history and physical examination in patients with epilepsy or movement disorders	Explains the risks and benefits of functional neurosurgical procedures	Formulates a diagnostic and treatment plan for a patient with epilepsy or a movement disorder	Adapts standard treatment plans and techniques to special circumstances (e.g., Parkinson's plus, multifocal epilepsy)	Leads discussion at an interdisciplinary epilepsy center patient management conference	
Performs stereotactic frame placement or frameless navigation registration; assists with set-up, opening, and closing for functional neurosurgical procedures	Assists with routine functional neurosurgical procedures	Performs routine functional neurosurgical procedures; assists with complex functional neurosurgical procedures	Performs complex functional neurosurgical procedures; assists with advanced functional neurosurgical procedures	Performs advanced functional neurosurgical procedures, including interpretation of electrophysiological data	
Provides routine peri- operative care for movement disorder and epilepsy patients	Recognizes and initiates work-up of routine complications (e.g., seizures, device infection)	Manages routine complications and recognizes complex complications (e.g., status epilepticus, dystonia)	Manages complex complications	Uses patient outcome data for quality improvement; designs care pathways for epilepsy or movement disorder patients	
Comments:	Comments: Not Yet Achieved Level 1				

Patient Care 3: Pain and Peripheral Nerve Disorders				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs a history and physical examination in patients with chronic pain or a peripheral nerve disorder	Explains the risks and benefits of chronic pain and peripheral nerve procedures	Formulates a diagnostic and treatment plan for patients with chronic pain or peripheral nerve disorders	Adapts standard treatment plans and techniques to special circumstances (e.g., cancer pain, deafferentation pain)	Leads discussion at an interdisciplinary case conference or specialty clinic for chronic pain or peripheral nerve disorder patients
Interrogates and programs implanted devices; assists with setup, opening, and closing for chronic pain and peripheral nerve procedures	Assists with routine chronic pain and peripheral nerve procedures	Performs routine chronic pain and peripheral nerve procedures; assists with complex chronic pain and peripheral nerve procedures	Performs complex chronic pain and peripheral nerve procedures; assists with advanced chronic pain and peripheral nerve procedures	Performs advanced chronic pain and peripheral nerve procedures
Provides routine peri- operative care for chronic pain or peripheral nerve disorder patients	Recognizes and initiates work-up of routine complications (e.g., implanted device failure or infection)	Manages routine complications and recognizes complex complications (e.g., intrathecal drug overdose or withdrawal)	Manages complex complications	Uses patient outcome data for quality improvement; designs care pathways for chronic pain or peripheral nerve disorder patients
Comments: Not Yet Achieved Level 1				

Patient Care 4: Spinal Neurological Surgery				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs a history and physical examination in patients with degenerative, traumatic, or neoplastic spinal disorders	Explains the risks and benefits of spinal surgery	Formulates a diagnostic and treatment plan for a patient with degenerative, traumatic, or neoplastic spinal disorders	Adapts standard treatment plans and techniques to special circumstances (e.g., spinal deformity, postirradiated spine, infection)	Leads discussion at an interdisciplinary spine case conference or specialty clinic
Implements spinal bracing or traction; assists with set-up, opening, and closing for spinal surgery procedures	Assists with routine spinal surgery procedures	Performs routine spinal surgery procedures; assists with complex spinal surgery procedures	Performs complex spinal surgery procedures; assists with advanced spinal surgery and reconstructive procedures	Performs advanced spinal surgery and reconstructive procedures
Provides routine peri- operative care for spinal surgery patients	Recognizes and initiates work-up of routine complications (e.g., pain, surgical site infection)	Manages routine complications and recognizes complex complications (e.g., myelopathy, CSF leak, instrument failure/malposition)	Manages complex complications	Uses patient outcome and registry data for quality improvement and treatment selection
Comments:			Not Yet Achie	eved Level 1

Patient Care 5: Vascular Neurological Surgery				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs a history and physical examination in patients with ischemic or hemorrhagic stroke or vascular neurosurgical disorders	Explains the risks and benefits of vascular neurosurgical and endovascular procedures	Formulates a diagnostic and treatment plan for a patient with ischemic or hemorrhagic stroke or vascular neurosurgical disorders	Adapts standard treatment plans and techniques to special circumstances (e.g., vasculitis, ischemic heart disease)	Leads discussion at an interdisciplinary vascular neurosurgical and endovascular surgery case conference or specialty clinic
Manages and obtains CSF samples from external ventricular drains; assists with set- up, opening, and closing for vascular neurosurgical and endovascular procedures	Assists with routine vascular neurosurgical and endovascular procedures	Performs routine vascular neurosurgical and endovascular procedures; assists with complex vascular neurosurgical and endovascular procedures	Performs complex vascular neurosurgical and endovascular procedures; assists with advanced vascular neurosurgical and endovascular procedures	Performs advanced vascular neurosurgical and endovascular procedures
Provides routine perioperative care for vascular neurosurgical and endovascular patients	Recognizes and initiates work-up of routine complications (e.g., seizure, hydrocephalus)	Manages routine complications and recognizes complex complications (e.g., cerebral vasospasm, herniation syndrome, intra-operative aneurysm rupture)	Manages complex complications	Uses patient outcome data for quality improvement; designs care pathways for vascular neurosurgical and endovascular patients
Comments: Not Yet Achieved Level 1				

Patient Care 6: Pediatric Neurological Surgery				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs an age- appropriate history and physical examination with developmental assessment, including for non-accidental trauma	Explains the risks and benefits of pediatric neurosurgical procedures; adapts diagnoses to age-related variations	Formulates a diagnostic and treatment plan for a pediatric patient; determines prognosis in severe brain injury and/or diagnoses brain death in infants and children	Adapts standard treatment plans and techniques to special circumstances (e.g., very young children and infants)	Leads discussion at an interdisciplinary pediatric case conference or specialty clinic; counsels expectant parents regarding fetal anomalies
Performs CSF shunt tap and valve programming; assists with set-up, opening, and closing for pediatric neurosurgical procedures	Assists with routine pediatric neurosurgical procedures	Performs routine pediatric neurosurgical procedures; assists with complex pediatric neurosurgical procedures	Performs complex pediatric neurosurgical procedures; assists with advanced pediatric neurosurgical procedures	Performs advanced pediatric neurosurgical procedures
Provides routine perioperative care for pediatric neurosurgical patients	Recognizes and initiates work-up of routine complications, including in pre-verbal children (e.g., CSF shunt failure, seizure)	Manages routine complications and recognizes complex complications (e.g., hematoma, CSF leak)	Manages complex complications	Uses patient outcome data for quality improvement; designs care pathways for pediatric neurosurgical patients
Comments: Not Yet Achieved Level 1				

Patient Care 7: Traumatic Brain Injury (TBI)				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs a history and physical examination in patients with severe TBI and assigns a Glasgow Coma Scale score	Explains risks and benefits of trauma neurosurgical procedures; evaluates patients with multiple trauma	Selects patients for operative intervention; prioritizes the management of injuries in patients with multiple trauma	Adapts standard treatment plans to special circumstances (e.g., medical comorbidity, coagulopathy)	Leads discussion at interdisciplinary trauma unit rounds and/or conference
Places an intracranial pressure (ICP) monitor; assists with set-up, opening, and closing for neurotrauma procedures	Assists with routine procedures for patients with TBI	Performs routine procedures for patients with TBI; assists with complex procedures for patients with TBI	Performs complex procedures for patients with TBI; assists with advanced procedures for patients with TBI	Performs advanced procedures for patients with TBI
Provides routine peri- operative care for patients with TBI	Recognizes and initiates work-up of routine complications (e.g., sinus injury, air embolus)	Manages routine complications and recognizes complex complications (e.g., cerebral herniation syndrome, persistent CSF fistula)	Manages complex complications	Uses patient outcome data for quality improvement; designs care pathways for neurotrauma patients
Comments: Not Yet Achieved Level 1				

Patient Care 8: Critical Care				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs a history and physical examination in critically ill patients	Manages transient intracranial hypertension (e.g., hyperosmolar agents, CSF drainage)	Manages refractory intracranial hypertension (e.g., cerebral perfusion pressure directed therapy, advanced monitoring, decompressive craniectomy)	Diagnoses and initiates management of acute respiratory distress syndrome	Leads a multidisciplinary neurocritical care team
Inserts arterial and central venous catheters	Assists with routine neurocritical care unit procedures; manages airway and performs endotracheal intubation	Performs routine and assists with complex neurocritical care unit procedures; manages difficult and emergency airways	Performs complex and assists with advanced neurocritical care unit procedures; manages or initiates management of surgical airways	Performs advanced neurocritical care unit procedures; performs bronchoscopy
Manages neurocritical care unit admissions and discharges	Recognizes and initiates work-up of routine systemic complications (e.g., pneumonia, infection, pulmonary embolus, cardiac dysrhythmia, myocardial infarction)	Manages routine systemic complications and prioritizes simultaneous critical clinical events	Manages metabolic and nutritional support for critically ill patients	Manages complex critically ill patients (e.g., septic shock, organ failure); designs care pathways for critically ill patients
Comments: Not Yet Achieved Level 1				

Medical Knowledge 1: Information Gathering and Interpretation				
Level 1	Level 2	Level 3	Level 4	Level 5
Correlates normal neuroanatomy and physiology with function	Correlates pathological neuroanatomy and physiology with function	Identifies anatomical and temporal patterns of disease occurrence	Interprets unusual variations in patterns of disease occurrence	Effectively teaches anatomic-pathological correlation
Gathers, interprets, and reports basic diagnostic test results (e.g., serology, chest radiograph, brain and spine computed tomography [CT])	Describes indications for standard diagnostic testing	Prioritizes, orders, and interprets diagnostic tests appropriate to clinical urgency and complexity	Prioritizes, orders, and interprets complex diagnostic studies (e.g., single-photon emission computerized tomography [SPECT], cerebral perfusion, magnetic resonance [MR] tractography)	Uses complex diagnostic approaches in novel situations
Comments:			Not Yet Achie	eved Level 1

Medical Knowledge 2: Critical Thinking for Diagnosis and Therapy				
Level 1	Level 2	Level 3	Level 4	Level 5
Lists a differential diagnosis for common clinical presentations	Provides a comprehensive differential diagnosis for a wide range of clinical presentations	Provides a focused differential diagnosis based on individual patient presentation	Interprets anomalous presentations and rare disorders	Studies and reports challenging diagnostic presentations
Lists therapeutic options for common clinical presentations	Explains advantages and drawbacks of standard therapeutic options	Justifies optimal therapeutic option based on individual patient presentation	Adapts therapeutic choice to anomalous or rare patient presentations	Creates new or modifies existing therapeutic options
Comments: Not Yet Achieved 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 (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
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 Yo	et Achieved Level 1

Systems-Based Practice	2: System Navigation for Pa	tient-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 using the roles of the interprofessional teams	Coordinates care of patients in complex clinical situations effectively using 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 hand-offs	Performs safe and effective transitions of care/hand-offs in routine clinical situations	Performs safe and effective transitions of care/hand-offs in complex clinical situations	Role models and advocates for safe and effective transitions of care/hand-offs 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	Identifies specific	Uses local resources		Loode innovations and
of population and community health needs and disparities	population and community health needs and inequities for their local population	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 Ye	t Achieved Level 1

Systems-Based Practice	3: Physician Role in Health	Care Systems		
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	Uses 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)	
Comments:			Not Yet A	schieved Level 1

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, 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 Yet	Achieved Level 1		

Practice-Based Learning	and Improvement 2: Reflect	ctive Practice and Commitme	ent 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

potential triggers for professionalism lapses Describes when and how to appropriately report professionalism lapses, including strategies for addressing common barriers Takes responsibility for own professionalism lapses alpses, including strategies for addressing common barriers Analyzes complex own professionalism lapses and intervenes to prevent lapses and uses appropriate resources for managing and resolving ethical principles Takes responsibility for own professionalism lapses, including strategies for addressing common barriers Recognizes and uses appropriate resources for managing and resolving ethical dilemmas as needed (e.g., ethics consultations) Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations	Level 1	Level 2	Level 3	Level 4	Level 5
how to appropriately report professionalism lapses, including strategies for addressing common barriers Demonstrates knowledge of the ethical principles underlying informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship own professionalism lapses situations using ethical principles situations using ethical principles appropriate resources for managing and resolving ethical dilemmas as needed (e.g., ethics consultations) Recognizes need to seek help in managing and resolving complex ethical situations Recognizes need to seek help in managing and resolving complex ethical situations appropriate resources for managing and resolving ethical dilemmas as needed (e.g., ethics consultation) Recognizes need to seek help in managing and resolving complex ethical situations appropriate resources for managing and resolving ethical dilemmas as needed (e.g., ethics consultation) Recognizes need to seek help in managing and resolving complex ethical situations	potential triggers for	professional behavior in	professional behavior in complex or stressful	that may trigger professionalism lapses and intervenes to prevent	•
knowledge of the ethical principles underlying informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship	how to appropriately report professionalism lapses, including strategies for addressing common	own professionalism	situations using ethical	appropriate resources for managing and resolving ethical dilemmas as needed (e.g., ethics consultations, literature review, risk management/legal	problems or impede thei
and related topics	knowledge of the ethical principles underlying informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship of limited resources,	situations using ethical	help in managing and resolving complex ethical		

Professionalism 2: Accou	untability/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:	Comments: Not Yet Achieved Level 1				

Professionalism 3: Self-A	wareness 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 Yes	t Achieved Level 1

Interpersonal and Comm	unication Skills 1: Patient-	and Family-Centered Comm	nunication	
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
Comments:			Not Yo	et Achieved Level 1

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		

_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, email, etc.) that serves as an example for others to follow	Guides departmental or institutional communication 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			