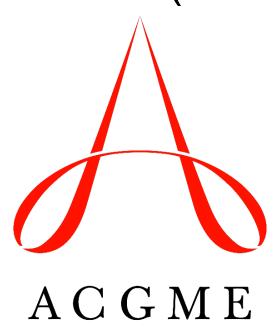


Supplemental Guide: Emergency Medical Services (EMS)



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Milestones Supplemental Guide

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

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

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

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

Patient Care 1: Procedures Performed in the Pre-Hospital Environment Overall Intent: To perform life-saving procedures in the pre-hospital environment	
Milestones	Examples
Level 1 Knows indications, contraindications, risks, and benefits, anatomic landmarks, equipment, procedural technique, and potential complications of common pre-hospital procedures	Demonstrates locating anatomic landmarks for pleural decompression
Recognizes that the pre-hospital environment affects procedures	Identifies potential difficulties in performing cardiopulmonary resuscitation (CPR) in a home
Level 2 Performs the indicated common procedure on patients with moderate urgency who have identifiable landmarks and a low-moderate risk for complications	Applies traction splint for suspected femur fracture
Discusses the effects of the pre-hospital environment on performing procedures	Identifies risks of performing defibrillation on a wet pool deck
Level 3 Performs the indicated procedure, takes steps to avoid potential complications, and recognizes the outcome and/or complications resulting from the procedure	Applies a tourniquet for hemorrhage control on multiple patients during an active shooter response (real or simulated)
Evaluates the environment and situation in the decision to perform a procedure	Triages procedures in a multiple-patient incident
Level 4 Performs indicated procedures on patients, including those with challenging features (e.g., poorly identifiable landmarks, at extremes of age, or with co-morbid conditions)	Manages endotracheal intubation for a difficult airway
Modifies the procedure depending on the environment and situation	Inserts supraglottic airway in confined space
Level 5 Incorporates evidence-based medicine to improve procedures and develop novel techniques used in different environments	Assesses the literature to develop an evidence-based protocol for use of point-of-care ultrasound to guide field management
Assessment Models or Tools	Direct observation

	Multisource feedback Simulation
Curriculum Mapping	
Notes or Resources	• Cone D, Brice JH, Delbridge TR, Myers JB (eds). Emergency Medical Services: Clinical
	Practice and Systems Oversight. Hoboken, NJ: Wiley; 2015. ISBN:978-1118865309.

Patient Care 2: Pre-Hospital Recognition and Stabilization of Time/Life-Critical Conditions	
•	s with time-sensitive or life-threatening illness or injury in the pre-hospital setting and ensure
transfer to the appropriate facility Milestones	Evamples
Level 1 Recognizes when a patient is unstable	■ Examples ■ Recognizes abnormal vital signs in adult and pediatric patients
and requires immediate intervention	Recognizes apnormal vital signs in adult and pediatric patients
Performs a primary assessment on a critical patient	Identifies immediately life-threatening conditions
Describes local laws and regulations governing advanced directives for medical care	Recognizes that the presence of advanced directives may alter usual care
Level 2 Prioritizes stabilization actions in the	Addresses ABCs in correct order
resuscitation of a critical patient	Attends to immediate life threats before addressing other injuries in a trauma patient
Reassesses a patient after implementing an	Rechecks blood pressure after fluid bolus
intervention	Rechecks lung sounds after neb treatment
Evaluates the validity of an advanced directive for medical care as it applies to resuscitation	Discusses advanced directives with next of kin/family on scene
Level 3 Independently adapts management strategies of critical conditions to the situation and environment	Recognizes when to initiate transport and complete procedures en route to hospital
Chooses appropriate transport modality and destination facility for critical conditions	Directs transport of a ST-segment myocardial infarction (STEMI) patient to a facility with a catheterization lab capable of performing emergent percutaneous coronary intervention (PCI)
Makes the decision to withhold or end resuscitation	Participates in discussion of cardiac arrest resuscitation futility with family/next of kin on scene
Level 4 Participates in policy and protocol development for the management of critical patients	Develops regional trauma protocols
Performs quality improvement efforts to improve the care to patients with critical conditions	Evaluates time to first defibrillation among cardiac arrest patients within EMS system

Participates in the development of policies and	Participates in the development of a protocol for communicating with a patients' family's
protocols related to end-of-life care	regarding futility of care
Level 5 Independently develops or leads the development of policies and protocols for the care of critical conditions	Recognizes the need for new policy or protocol related to care of left ventricular assist device patients
Independently develops or leads the development of policies and protocols related to end of life	Develops a policy to support EMS clinician care of patients' comfort needs in place, to reduce transport of patients with goals of comfort-focused care
Assessment Models or Tools	Direct observation
	Multisource feedback
	Patient care record audit
	Simulation
Curriculum Mapping	•
Notes or Resources	Cone D, Brice JH, Delbridge TR, Myers JB (eds). <i>Emergency Medical Services: Clinical Practice and Systems Oversight</i> . Hoboken, NJ: Wiley; 2015. ISBN:978-1118865309.

Patient Care 3: Recognition and Treatment of Pre-Hospital Conditions Overall Intent: To manage patients with both routine and complex conditions in the pre-hospital setting	
Milestones	Examples
Level 1 Under supervision, manages patients with common and simple presentations	With assistance of the medical director and/or online medical control, administers aspirin with suspected cardiac chest pain
Recognizes that the pre-hospital environment affects patient care	Defers chemical cardioversion in a stable patient based on local protocol though this may differ from what would be performed in-hospital
Level 2 Independently manages patients with common and simple presentations	Independently treats a patient with congestive heart failure with sublingual nitrates and continuous positive airway pressure (CPAP)
Discusses the effects of the pre-hospital environment on patient care	Describes the necessary steps to optimize intubation success in the field
Level 3 Under supervision, manages patients with uncommon and complicated presentations	Under supervision, manages a complex patient that requires immediate adaptation of treatment protocols
Modifies patient care depending on the environment and situation	 With guidance, appropriately prioritizes treatment when multiple interventions are required Begins assessment and management of an entrapped patient before extrication, including fluid administration, pain management, and mitigation of environmental hypothermia
Level 4 Independently manages patients with uncommon and complicated presentations in challenging conditions	 Independently manages a complex patient in a contaminated environment Appropriately prioritizes treatment when multiple interventions are required
Incorporates evidence-based medicine to improve patient care provided in different environments	Uses literature to support management decisions that require adaptation of routine care
Level 5 Teaches others how to manage patients with uncommon and complicated presentations in challenging conditions	Educates EMS clinicians on care of patients with exposure to hazardous materials
Independently develops or leads the development of policies and protocols related to pre-hospital patient care	Develops a policy on care of the entrapped patient
Assessment Models or Tools	 Direct observation Multisource feedback Patient care record/chart audit

	• Simulation
Curriculum Mapping	
Notes or Resources	 Cone D, Brice JH, Delbridge TR, Myers JB (eds). Emergency Medical Services: Clinical Practice and Systems Oversight. Hoboken, NJ: Wiley; 2015. ISBN:978-1118865309. National Association of States EMS Officials (NASEMSO). Model EMS Clinical Guidelines. https://nasemso.org/projects/model-ems-clinical-guidelines/. 2021. National Association of EMS Physicians (NAEMSP). Position Statements. https://naemsp.org/resources/position-statements/. 2021.

Patient Care 4: General Special Operations in Emergency Medical Services (EMS); Mass Casualty and Disaster Management Overall Intent: To manage mass casualty events using triage, treatment, and transport concepts; to use the concepts of preparation,	
response, mitigation, and recovery for disaster events	
Milestones	Examples
Level 1 Describes the principles of care in mass casualty or disaster situations	Discusses concept of providing care for greatest number with limited resources
Demonstrates awareness of National Incident Management System (NIMS) and Incident Command System (ICS)	• Completes ICS 100, 200, 700, 800 online courses
Level 2 With supervision, participates in a mass casualty or disaster management event/exercise	 Participates in a tabletop mass casualty incident exercise or simulated event Participates in a disaster life support course
Describes principles and terminology of mass casualty and disaster response, including triage, NIMS, and ICS	 Triages real or simulated patients using systems such as "Sort, Assess, Life-saving interventions, Treatment/Transportation" (SALT), Simple Triage And Rapid Treatment (START), or Jump START
Level 3 Independently provides care at a mass casualty or disaster event/exercise	Provides patient care at a traffic collision with multiple patients
Participates in the development of an Incident Action Plan and/or After Action Review	Participates in the development of an incident action plan for a marathon
Level 4 Develops and implements protocols for	Develops a crush injury protocol
a mass casualty or disaster event	Develops an ambulance staging protocol
Leads the team to develop an Incident Action Plan and/or After Action Review	Independently develops incident action plan for a marathon
Level 5 Performs as a medical director for a mass casualty or disaster response team	Oversees the medical care teams at a building collapse
Conducts scholarly activity in mass casualty or disaster management	Publishes a paper related to disaster medicine
Assessment Models or Tools	Direct observation
	Multisource feedback
	Simulation
Curriculum Mapping	

Notes or Resources	• Cone D, Brice JH, Delbridge TR, Myers JB (eds). Emergency Medical Services: Clinical
	Practice and Systems Oversight. Hoboken, NJ: Wiley; 2015. ISBN:978-1118865309.
	Federal Emergency Management Agency (FEMA). National Incident Management
	System (NIMS). https://training.fema.gov/nims/. 2021.
	• National Disaster Life Support Foundation (NDLSF). https://www.ndlsf.org/ . 2021.

Medical Knowledge 1: Medical Oversight Overall Intent: To engage in the oversight of an EMS agency or system	
Milestones	Examples
Level 1 Identifies the need for medical oversight of EMS agencies and systems	Describes the role of online medical control in termination of resuscitation
Describes the policies for EMS oversight in their EMS agency or system	Lists the conditions requiring contact of online medical control
Level 2 Defines the core components of medical oversight of EMS agencies and systems	Describes the role of offline and online medical control
Contributes to meetings/planning sessions where policies for EMS agency or system oversight are discussed	Participates in EMS system meetings Reviews changes to treatment protocols
Level 3 Performs medical oversight of an EMS agency, with supervision	Operates as an online medical control physician with supervision
Assists in policy development for oversight of EMS agencies or systems	Proposes changes to treatment protocols
Level 4 Independently performs oversight of an EMS agency	 Independently operates as an online medical control physician Acts as a medical director for an EMS agency
Develops policy for oversight of EMS agencies or systems	Creates a new treatment protocol or policy or makes substantial revisions to a prior treatment protocol or policy
Level 5 Performs oversight of a complex or multi-agency EMS system	 Provides medical direction for an EMS system that includes multiple agencies and receiving facilities Leads an advisory board or task force to make recommendations on medical oversight of
	EMS systems
Assessment Models or Tools	 Audit of online medical control record Direct observation Multisource feedback
Curriculum Mapping	
Notes or Resources	 Clawson JJ, Dernocoeur KB, Murray C. Principles of Emergency Medical Dispatch. 6th ed. Salt Lake City, UT: International Academy of EMD; 2014.

• Cone D, Brice JH, Delbridge TR, Myers JB (eds). *Emergency Medical Services: Clinical Practice and Systems Oversight*. Hoboken, NJ: Wiley; 2015. ISBN:978-1118865309.

Milestones	Examples
Level 1 Identifies and describes the basic roles of Special Teams	Defines responsibilities of EMS and law enforcement for a tactical EMS team
Level 2 Defines the core components and specialty training required of Special Teams	 Creates training on confined space and crush syndrome for an urban search and rescue team Explains the training required for a tactical team carrying tourniquets and hemostatic agents
Level 3 Effectively participates as a medical team member in a Special Team during actual or simulated operations	Responds with an ambulance strike team for a complex rescue incident Participates in a tactical team simulated training exercise
Level 4 Develops and implements protocols for Special Teams	 Creates EMS protocol for highly infectious disease response including personal protective equipment (PPE) and transportation equipment
Level 5 Performs as a medical director for a Special Team	 Is a member of the Urban Search and Rescue (USAR) team Manages on-scene medical direction for marathon event
Assessment Models or Tools	Direct observationMultisource feedbackSimulation
Curriculum Mapping	•
Notes or Resources	 An EMS special team is a designated group of EMS practitioners, operating with physiciar medical oversight, with specialized training, protocols, tactics, equipment, or other capabilities to provide direct medical care and/or operational support (that may include occupational health services) to a specialized public safety unit or to an EMS operation (e.g., special event, disaster response). related teams include but are not limited to Tactical Emergency Medical Support (TEMS), Hazardous Materials (HazMat), Urban Search and Rescue (USAR), Special Event Teams, Ambulance Strike Teams/Task Forces, EMS Task Force, Wilderness EMS Teams

Systems-Based Practice 1: Patient Safety Overall Intent: To engage in the analysis and management of patient safety events, including relevant communication with patients, families, and health care professionals	
Milestones	Examples
Level 1 Demonstrates knowledge of common patient safety events and knows how to report	Lists patient misidentification or medication errors as common patient safety events
Level 2 Identifies system factors that lead to patient safety events	 Identifies that sharps disposal containers in the ambulance may lead to decreased needle sticks
Level 3 Participates in analysis of patient safety events (simulated or actual)	Prepares morbidity and mortality presentations
Level 4 Conducts root cause analysis of patient safety events and offers error prevention strategies (simulated or actual)	Collaborates with a team to conduct a root cause analysis of a medication administration error and effectively communicates with patients/families about the event
Level 5 Actively engages team and modifies system processes to prevent patient safety events	Assumes a leadership role at the departmental or agency level for patient safety
Assessment Models or Tools	 Direct observation E-module multiple choice tests Medical record (chart) audit, including patient care records Multisource feedback Portfolio Reflection Simulation
Curriculum Mapping	•
Notes or Resources	 AHRQ. Diagnostic Safety and Quality. https://www.ahrq.gov/topics/diagnostic-safety-and-quality.html. 2021. AHRQ. Patient Safety Network: Safety Culture in EMS. https://psnet.ahrq.gov/perspective/safety-culture-ems. 2021. Institute of Healthcare Improvement. Open School. https://www.ihi.org/education/IHIOpenSchool/Pages/default.aspx. 2021. The Joint Commission. Patient Safety Resources. https://www.jointcommission.org/resources/patient-safety-topics/patient-safety/. 2021 Langley GJ, Moen RD, Nolan Km, et al. The Improvement Guide: A Practical Approach to Enhancing Organizational Performance. 2nd ed. San Francisco, CA: Jossey-Bass; 2009.

Systems-Based Practice 2: Quality Improvement Overall Intent: To conduct a quality improvement project	
Examples	
Describes quality assurance analysis tool	
Summarizes protocols to reduce medication administration errors	
Discusses protocols to reduce the spread of infectious diseases	
Participates in project identifying root cause analysis	
 Participates in a quality improvement initiative such as cardiac arrest outcomes, major trauma performance, or high-risk refusal protocol compliance 	
Participates in the completion of a quality improvement project to improve airway skills,	
including assessing the problem, articulating a broad goal, and monitoring progress and	
challenges	
Engages with community leaders to address and decrease opioid overdose	
Direct observation	
E-module multiple choice tests	
Medical record (chart) audit, including patient care record Multipourse feedback	
Multisource feedback Portfolio	
Reflection	
• Simulation	
• Simulation	
• EMS Company https://www.omg.gov/projects/omg.company.html 2021	
 EMS. Compass. https://www.ems.gov/projects/ems-compass.html. 2021. Institute of Healthcare Improvement. Open School. 	
http://www.ihi.org/education/IHIOpenSchool/Pages/default.aspx. 2021.	
■ Langley GJ, Moen RD, Nolan Km, et al. <i>The Improvement Guide: A Practical Approach to</i>	
Enhancing Organizational Performance. 2nd ed. San Francisco, CA: Jossey-Bass; 2009.	
Resuscitation Academy. https://www.resuscitationacademy.org/. 2021.	

Systems-Based	Practice 3: System Navigation for Patient-Centered Care
Overall Intent: To effectively navigate the health care system, including the interdisciplinary team and other care providers and adapt care	
to a specific patient population to ensure high-q	
Milestones	Examples
Level 1 Demonstrates knowledge of care coordination	Discusses the multidisciplinary nature of EMS
Identifies key elements for safe and effective transitions of care and hand-offs	Lists the essential components of a standardized hand-off tool and care transition
Demonstrates knowledge of population and community health needs and disparities	Identifies the different reasons why patients use EMS
Level 2 In routine clinical situations, coordinates patient care integrating the roles of interprofessional teams	Coordinates care with the mobile outreach team and chronic care providers to help decrease EMS use
In routine clinical situations, enables safe and effective transitions of care/hand-offs	Routinely uses a standardized hand-off tool for a stable patient
Identifies specific population and community health needs and inequities for their local population	Works with social workers and case manages for patients with limited transportation options to arrange for referral to medical transport, community paramedicine, and telemedicine
Level 3 In complex clinical situations, coordinates patient care by integrating the roles	Works with the social worker to coordinate care for a homeless patient that will ensure follow-up
of the interprofessional teams, with supervision	Coordinates with law enforcement for a difficult transport
In complex clinical situations, enables safe and effective transitions of care/hand-offs, with supervision	Routinely uses a standardized hand-off tool when transferring a patient to the emergency department or specialty team
Effectively uses local EMS resources to meet the needs of a patient population and community	Refers patients to a free clinic for their routine health care needs
Level 4 In complex clinical situations, coordinates patient care by integrating the roles of the interprofessional teams, independently	Coordinates care for home hospice services

 Incorporates communication with primary provider regarding a frequent user Identifies an issue with the patient and notifies the social worker of the need for resources post-discharge
Assists in designing protocols for a leave-behind naloxone program
Leads a program to provide community paramedic-led care to high-risk heart failure patients
Develops a protocol to improve transitions to long-term care facilities
Leads development of telemedicine consultation program
Direct observation
Medical record (chart) audit Multisource feedback
Multisource feedback Objective structured clinical examination (OSCE)
Quality metrics and goals mined from electronic health records
Review of sign-out tools, use and review of checklists
•
 CDC. Population Health Training. https://www.cdc.gov/pophealthtraining/whatis.html. 2021. Kaplan KJ. In Pursuit of Patient-Centered Care. Tissue Pathology; 2016. http://tissuepathology.com/2016/03/29/in-pursuit-of-patient-centered-care/#axzz5e7nSsAns. 2021. Skochelak SE, Hammoud MM, Lomis KD, et al. AMA Education Consortium: Health Systems Science. 2nd ed. Elsevier; 2021. ISBN:9780323694629.

Systems-Based Practice 4: Physician Role in Health Care Systems	
Overall Intent: To understand the physician's role in the complex health care system and how to optimize the system to improve patient care and the health system's performance	
Milestones	Examples
Level 1 Identifies key components of EMS within the complex health care system	Differentiates between level of care provided by various EMS clinicians including emergency medical technicians (EMTs) and paramedics
Identifies basic knowledge domains required for medical practice	Describes cognitive, affective, and psychomotor domains important for EMS clinicians
Level 2 Describes how components of a complex health care system are interrelated to EMS systems, and how this impacts patient care	Explains how a mobile integrated health system integrates with the 911 system to provide optimal patient care and minimize unnecessary hospitalization
Demonstrates efficient integration of information technology, including EMS information systems, required for medical practice	 Recognizes that appropriate EMS documentation can influence billing Integrates EMS patient care reports into hospital medical records
Level 3 Discusses how individual EMS practice affects the broader system	Uses outcome data from hospitalized patients to inform response resources
Describes core administrative knowledge needed for the transition to independent EMS practice	Discusses the core elements of EMS physician contract negotiation
Level 4 Manages various components of the complex EMS system to provide efficient and effective patient care and the transition of care	 Ensures proper EMS documentation of systems of care patients for database reporting Analyzes dispatch protocols to assure optimal resource assignment
Analyzes individual EMS practice patterns and professional requirements	Identifies the need for more field time and arranges experiences
Level 5 Advocates for or leads EMS systems change that enhances high value, efficient, and effective patient care, and the transition of care	Works with community or professional organizations to advocate for proper EMS use Uses regional benchmarks to improve efficiency
Assessment Models or Tools	 Direct observation Medical record (chart) audit Patient satisfaction data Portfolio
Curriculum Mapping	

Notes or Resources	Agency for Healthcare Research and Quality (AHRQ). Major Physician Measurement
	Sets. https://www.ahrq.gov/professionals/quality-patient-
	safety/talkingquality/create/physician/measurementsets.html. 2021.
	AHRQ. Measuring the Quality of Physician Care.
	https://www.ahrq.gov/professionals/quality-patient-
	safety/talkingquality/create/physician/challenges.html. 2021.
	Center for Medicare and Medicaid Services (CMS). MACRA.
	https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-
	Based-Programs/MACRA-MIPS-and-APMs/MACRA-MIPS-and-APMs.html. 2021.
	The Commonwealth Fund. Health System Data Center.
	http://datacenter.commonwealthfund.org/?_ga=2.110888517.1505146611.1495417431-
	<u>1811932185.1495417431#ind=1/sc=1</u> . 2021.
	• Dzau VJ, McClellan MB, McGinnis JM, et al. Vital directions for health and health care:
	Priorities from a National Academy of Medicine initiative. <i>JAMA</i> . 2017;317(14):1461-1470.
	https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-academy-
	of-medicine-initiative/. 2021.
	• The Kaiser Family Foundation: Topic: Health Reform. https://www.kff.org/topic/health-
	<u>reform/</u> . 2021.
	• Skochelak SE, Hammoud MM, Lomis KD, et al. AMA Education Consortium: Health
	Systems Science. 2nd ed. Elsevier; 2021. ISBN:9780323694629.

Systems-Rase	d Practice 5: EMS Personnel (Supervision and Training)	
Overall Intent: To understand the scope of practice and core fund of knowledge for EMS clinicians at each certification level and design		
training materials to meet the EMS clinicians' ed		
Milestones	Examples	
Level 1 Demonstrates awareness of educational content appropriate to scope of practice	Describes the difference between components and requirements for certification at the Emergency Medical Responder (EMR), Emergency Medical Technician (EMT), Advanced Emergency Medical Technician (AEMT), or paramedic level	
Demonstrates awareness of culture of safety and EMS clinician health and well-being	Ensures seatbelt use in patient compartment of ambulance Lists resources such as peer support for EMS clinician health and well-being	
Level 2 With supervision, designs and presents educational content appropriate to scope of practice	Prepares an educational activity appropriate for pre-hospital clinician's certification level on a pre-hospital clinical condition	
Describes a culture of safety and EMS clinician health and well-being	Discusses Just Culture concepts	
Level 3 Identifies educational needs and develops training materials appropriate to scope of practice	Designs a trauma simulation appropriate for paramedics to introduce a new advanced life support protocol	
Integrates a culture of safety and EMS clinician health and well-being into pre-hospital practice, with supervision	Participates in the implementation of a back-injury prevention program	
Level 4 Develops educational content in response to identified educational need	Implements training on electrocardiogram (EKG) interpretation of STEMI after noting a high false positive catheter lab activation rate	
Independently integrates culture of safety and EMS clinician health and well-being into prehospital practice	Develops and implements a program to reduce low-back injuries	
Level 5 Designs a curriculum or course appropriate for a given scope of practice or to address a specific need involving multiple levels of care providers	Develops a community paramedicine curriculum	
Designs health and well-being program for EMS system	Develops and implements a back injury reduction program regionally or statewide	

Assessment Models or Tools	Direct observation
	Incident reports
	Simulated/Actual sentinel event investigation
Curriculum Mapping	
Notes or Resources	• EMS. Compass. https://www.ems.gov/projects/ems-compass.html. 2021.
	• EMS. Strategy for a National EMS Culture of Safety. https://www.ems.gov/pdf/Strategy-
	for-a-National-EMS-Culture-of-Safety-10-03-13.pdf. 2021.
	NAEMSP. Quality and Safety. https://naemsp.org/resources/position-statements/quality-
	and-safety/. 2021.

Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice Overall Intent: To incorporate evidence and patient values into clinical practice	
Milestones	Examples
Level 1 Demonstrates how to access and use available evidence	 Describes how to access and use health information, including accessing articles and using databases, such as UpToDate or ClinicalKey Discusses the principles of evidence-based practice
Level 2 Articulates the questions necessary to guide evidence-based systems of care	• Formulates patient-oriented clinical questions and may take the form of PICO (Patient-Intervention-Control-Outcome); self-identifies areas of uncertainty and asks for help in answering clinical questions
Level 3 Locates and applies the best available evidence to guide systems of care	 Demonstrates a high level of mastery with electronic tools applied to clinical practice Uses clinical practice guidelines in making patient care decisions while eliciting patient preferences Adheres to agency, department, and institutional clinical care policies and processes
Level 4 Critically appraises and applies evidence even in the face of incomplete or conflicting evidence to guide systems of care	 Identifies the variability of medical evidence and demonstrates the ability to critically evaluate source data and merge the evidence with its application to pre-hospital patient care Uses evidence-based practices while also being able to define when and/or why to deviate from those practices
Level 5 Coaches others to critically appraise and apply evidence for systems of care, and/or participates in the development of guidelines	 Leads local teams tasked with developing best practices in the context of the local jurisdiction Sought after by EMS clinicians to teach them how to interpret and apply literature to their practice Leads clinical teaching on application of best practices in critical appraisal of EMS literature
Assessment Models or Tools	 Direct observation Oral or written examinations Presentation evaluation Research portfolio
Curriculum Mapping	•
Notes or Resources	 Flaherty RJ. A simple method for evaluating the clinical literature. Fam Pract Manag. 2004;11(5):47-52. https://www.aafp.org/fpm/2004/0500/p47.html. 2021. Institutional Institutional Review Board (IRB) guidelines National Institutes of Health. Write Your Application. https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/write-your-application.htm. 2021. U.S. National Library of Medicine. PubMed Tutorial. https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html. 2021. Various journal submission guidelines

Practice-Based Learning and Ir	mprovement 2: Reflective Practice and Commitment to Personal Growth	
Overall Intent: To seek clinical performance information with the intent to improve care; reflects on all domains of practice, personal		
tara di managan di man	colleagues and patients (reflective mindfulness); develop clear objectives and goals for	
improvement in some form of a learning plan		
Milestones	Examples	
Level 1 Demonstrates an openness to feedback	Identifies goals for growth opportunities in areas needing improvement	
and other input	Accepts feedback from the patient care team	
Level 2 Demonstrates an openness to feedback	After receiving a metric report in the bottom quartile, discusses possible reasons with	
and other input and uses it to develop personal	mentor(s) and begins to implement suggested changes	
and professional goals		
Identifies the factors that contribute to the	Assesses time management skills and their impact on timely completion of assigned tasks	
gap(s) between expectations and actual	Demonstrates understanding of performance gaps when completing self-evaluation	
performance	Creates a narranal aumiaulum ta improva pro bagnital management of national with about	
Level 3 Seeks and accepts feedback and other input for developing personal and professional	Creates a personal curriculum to improve pre-hospital management of patients with chest	
goals	pain Solicits feedback from members of the patient care team	
goals	Solicits reeuback from members of the patient care team	
Analyzes and reflects upon the factors that	Participates in quality assurance and process improvement activities related to own	
contribute to gap(s) between expectations and	performance	
actual performance		
Level 4 Using feedback and other input,	• Uses performance metrics to create an improvement plan for field intubation success rate	
continually improves and measures the		
effectiveness of one's personal and professional		
goals		
Analyzes, reflects on, and institutes behavioral	• After patient encounter, debriefs with the pre-hospital team members to optimize future	
change(s) to narrow the gap(s) between	collaboration in the care of the patient and family members	
expectations and actual performance Level 5 Acts as a role model for the	• Models practice improvement and adaptability	
development of personal and professional goals	Models practice improvement and adaptability	
development of personal and professional goals		
Coaches others on reflective practice	Develops educational module for collaboration with pre-hospital care team members	
Coddinos canore on remodivo praedico	Assists other team members in developing their individualized learning plans	
Assessment Models or Tools	Chart stimulated recall	
	Direct observation	
	Review of learning plan	

Curriculum Mapping	
Notes or Resources	Burke AE, Benson B, Englander R, Carraccio C, Hicks PJ. Domain of competence:
	Practice-based learning and improvement. Acad Pediatr. 2014;14(2 Suppl):S38-S54.
	https://www.academicpedsjnl.net/article/S1876-2859(13)00333-1/fulltext. 2021.
	Hojat M, Veloski JJ, Gonnella JS. Measurement and correlates of physicians' lifelong
	learning. Acad Med. 2009;84(8):1066-74.
	https://insights.ovid.com/crossref?an=00001888-200908000-00021. 2021.
	• Lockspeiser TM, Schmitter PA, Lane JL, Hanson JL, Rosenberg AA, Park YS. Assessing
	residents' written learning goals and goal writing skill: Validity evidence for the learning
	goal scoring rubric. Acad Med. 2013;88(10):1558-1563.
	https://insights.ovid.com/article/00001888-201310000-00039. 2021.

use appropriate resources for managing ethical Milestones	Examples
Level 1 Demonstrates professional behavior in routine situations and in how to report professionalism lapses	Discusses how fatigue may cause a lapse in professionalism Identifies that tardiness has adverse effect on patient care and on professional relationships
Demonstrates knowledge of the ethical principles underlying patient care	 Articulates how the principle of "do no harm" applies to a patient who may not need field cardioversion even though the training opportunity exists Recognizes that ethical principles should stop an EMS physician from performing a procedure for which they are not trained and/or credentialed
Level 2 Identifies and describes potential triggers and takes responsibility for professionalism lapses	 Respectfully approaches an EMS clinician who is operating outside of protocol Notifies appropriate supervisor when an EMS clinician has repeatedly operated outside of protocols
Analyzes straightforward situations using ethical principles	Applies ethical principles to: informed consent, surrogate decision making, advance directives, termination of resuscitation decisions, confidentiality, error disclosure, stewardship of limited resources, and related topics
Level 3 Exhibits professional behavior in complex and/or stressful situations	Exhibits empathetic behaviors towards a distraught family member following an unsuccessful resuscitation attempt of a relative
Analyzes complex situations using ethical principles, and recognizes the need to seek help	Identifies an inappropriate social media post that included protected health information and seeks guidance regarding next steps
in managing and resolving them	Offers treatment and/or destination options for a patient, free of bias, while recognizing own limitations and consistently honoring the patient's choice
Level 4 Identifies situations that might trigger professionalism lapses and intervenes to prevent them in oneself and others	 Actively considers the perspectives of others Models respect for patients and promotes the same from colleagues when a patient or family member expresses frustrations with prior negative EMS system interactions
Uses appropriate resources for managing and resolving ethical dilemmas	Recognizes and uses ethics consults, literature, risk-management/legal counsel to resolve ethical dilemmas
Level 5 Coaches others when their behavior fails to meet professional expectations	 Coaches others when their behavior fails to meet professional expectations and creates a performance improvement plan to prevent recurrence

Identifies and addresses system-level factors	Engages stakeholders to address excessive ambulance patient offload times at
that either induce or exacerbate ethical	emergency department arrival to decrease patient and provider frustrations that lead to
problems or impede their resolution	unprofessional behavior
Assessment Models or Tools	Direct observation
	Global evaluation
	Multisource feedback
	Oral or written self-reflection
	Simulation
Curriculum Mapping	
Notes or Resources	ABIM Foundation. American Board of Internal Medicine. Medical professionalism in the
	new millennium: A physician charter. <i>Annals of Internal Medicine</i> . 2002;136(3):243-246.
	https://annals.org/aim/fullarticle/474090/medical-professionalism-new-millennium-
	physician-charter. 2021.
	• ACEP. Code of Ethics for Emergency Physicians. https://www.acep.org/patient-
	care/policy-statements/code-of-ethics-for-emergency-physicians/. 2021.
	• AMA. Ethics. https://www.ama-assn.org/delivering-care/ethics . 2021.
	Bynny RL, Paauw DS, Papadakis MA, Pfeil S. Medical Professionalism Best Practices:
	Professionalism in the Modern Era. Aurora, CO: Alpha Omega Alpha Medical Society;
	2017. Medical Professionalism Best Practices: Professionalism in the Modern Era.
	Aurora, CO: Alpha Omega Alpha Medical Society; 2017.
	http://alphaomegaalpha.org/pdfs/Monograph2018.pdf. 2021.
	• Levinson W, Ginsburg S, Hafferty FW, Lucey CR. <i>Understanding Medical</i>
	Professionalism. 1st ed. New York, NY: McGraw-Hill Education; 2014. ISBN:978-
	0071807432.
	• Williams KA, Berry BC, Yee A, et al. Code of ethics for EMS physician medical directors.
	Prehosp Emerg Care. 2021;25(4):461.
	https://www.tandfonline.com/doi/full/10.1080/10903127.2020.1808747. 2021.

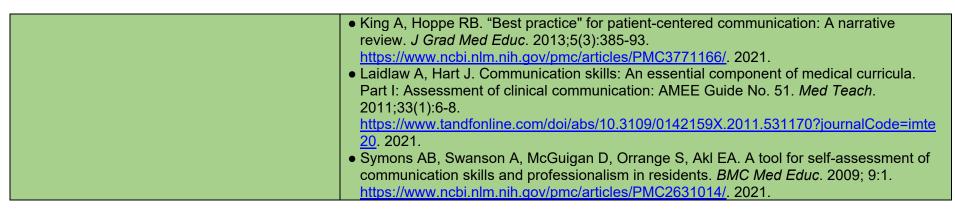
Professionalism 2: Accountability/Conscientiousness Overall Intent: To take responsibility for one's own actions and the impact on patients and other members of the health care team	
Milestones	Examples
Level 1 In routine situations, performs tasks and responsibilities with appropriate attention to detail	 Completes procedure logs in an accurate and detailed manner Appropriately prepares for didactic sessions
Responds promptly to requests and reminders	Completes end-of-rotation evaluations
to complete tasks and responsibilities	Responds to emails and other communications in a timely manner
Level 2 In routine situations, performs tasks and responsibilities in a timely manner with appropriate attention to detail	Completes administrative tasks, procedure logs, and licensing requirements by specified due date
Takes responsibility for failure to complete tasks and responsibilities	Promptly responds to and corrects delinquencies in tasks when notified by program administration
Level 3 In complex or stressful situations, performs tasks and responsibilities in a timely manner with appropriate attention to detail	 Notifies fellowship faculty members when clinical workload exceeds individualcapability Maintains appropriate communications and/or documentation during a mass casualty incident
Recognizes situations that might impact one's own ability to complete tasks and responsibilities in a timely manner, and describes strategies for ensuring timely task completion in the future	In preparation for being away from the fellowship, ensures completion of and/or delegation of program responsibilities
Level 4 Proactively implements strategies to ensure that the needs of patients, teams, and systems are met	Organizes a pre-shift huddle with EMS clinicians to set goals for the shift to ensure all needs are met
Recognizes situations that might impact others' ability to complete tasks and responsibilities	While providing online medical control prioritizes essential information, during a critical trauma or mass casualty incident
Level 5 Takes ownership of system outcomes	Sets up a meeting with EMS leadership to streamline transfer of care and leads team to find solutions to the problem
Assessment Models or Tools	 Compliance with deadlines and timelines Direct observation Global evaluations Multisource feedback

	Self-evaluations and reflective tools
	Simulation
Curriculum Mapping	
Notes or Resources	ACEP. Code of Ethics for Emergency Physicians. https://www.acep.org/patient-care/policy-statements/code-of-ethics-for-emergency-physicians/ . 2021.
	Code of conduct from EMS Agency and fellow institutional manuals
	Expectations of the fellowship program regarding accountability and professionalism
	Williams KA, Berry BC, Yee A, et al. Code of ethics for EMS physician medical directors.
	Prehosp Emerg Care. 2021;25(4):461.
	https://www.tandfonline.com/doi/full/10.1080/10903127.2020.1808747. 2021.

Professionalism 3: Self-Awareness and Well-Being Overall Intent: To identify, use, manage, improve, and seek help for personal and professional well-being for self and others	
Milestones	Examples
Level 1 Recognizes, with assistance, the status	Acknowledges own response to work-life balance
of one's personal and professional well-being	Uses self-assessment tools
Level 2 Independently recognizes the status of	Independently identifies and communicates the impacts of a tragedy or significant event
one's personal and professional well-being and	on self or others
engages in help-seeking behaviors	
Level 3 With assistance, proposes a plan to	With the multidisciplinary team, develops a reflective response to deal with personal
optimize personal and professional well-being	impact of difficult patient encounters and disclosures
Level 4 Independently develops a plan to	Independently identifies ways to manage personal stress
optimize one's personal and professional well-	Organizes schedule to appropriately balance work tasks with leisure
being	
Level 5 Coaches others when their emotional	• Recognizes when an EMS clinician needs support to maintain well-being and develops a
responses or level of knowledge/skills fail to	plan to assist
meet professional expectations	Organizes institutional efforts to address clinician well-being after a stressful patient
	encounter
Assessment Models or Tools	Direct observation
	Group interview or discussions for team activities
	Individual interview
	Institutional online training modules or assessment tools
Cuminulum Manning	Self-assessment and personal learning plan
Curriculum Mapping	This subsequent and view at intended to evaluate a following wall being but to ansure each
Notes or Resources	• This subcompetency is not intended to evaluate a fellow's well-being, but to ensure each
	fellow 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.
	ACGME. "Well-Being Tools and Resources." https://dl.acgme.org/pages/well-being-tools-
	resources. 2021.
	Employee Assistance Programs at EMS agencies and healthcare systems
	Hicks PJ, Schumacher D, Guralnick S, Carraccio C, Burke AE. Domain of competence:
	personal and professional development. <i>Acad Pediatr</i> . 2014 Mar-Apr;14(2 Suppl):S80-97.
	https://www.academicpedsinl.net/article/S1876-2859(13)00332-X/fulltext. 2021.

Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication		
Overall Intent: To deliberately use language and behaviors to form constructive relationships with patients, to identify communication		
	ses, and minimize them in the doctor-patient relationships; organize and lead communication	
around shared decision making		
Milestones	Examples	
Level 1 Uses language and non-verbal behavior to reflect respect and establish rapport while accurately communicating one's own role within the health care system	Introduces self and faculty member, identifies patient and others on the scene, and engages all parties in health care discussion	
Identifies common barriers to effective communication (e.g., language, disability)	Identifies need for and uses a trained interpreter with non-English-speaking patients	
With insight gained through an assessment of patient/patient's family's expectations coupled with an understanding of their health status and treatment options, adjusts one's communication strategies	Explains intravenous (IV) start or other procedure in age-appropriate terms	
Level 2 Establishes a therapeutic relationship in straightforward encounters with patients, using active listening and clear language	Uses patient-centered language and restates patient/parent perspective when discussing IV start or other procedure	
Identifies complex barriers to effective communication (e.g., health literacy, cultural, technology)	Recognizes the need for special communication strategies to communicate information to a patient who has limited comprehension skills	
Organizes and initiates communication with a patient/patient's family by clarifying expectations and verifying one's understanding of the clinical situation	Verifies that the patient/family member understands the treatment plan	
Level 3 Establishes a therapeutic relationship in challenging patient encounters	Acknowledges patient's desire to decline care/transport and explain physician's rationale for need for treatment/transport	
When prompted, reflects on one's personal biases, while attempting to minimize communication barriers	Acknowledges the difficulty in taking care of patients with multiple calls to EMS and the need to give each encounter full attention	

With guidance, sensitively and compassionately delivers medical information to patients, elicits patient/patient's family's values, learns their goals and preferences, and acknowledges uncertainty and conflict	Consults family member(s) to determine goals and a plan of care for a terminally ill patient
Level 4 Easily establishes therapeutic relationships with patients, regardless of the complexity of cases	Engages representative family members with disparate goals in the care of a patient with dementia
Independently recognizes personal biases of patients, while attempting to proactively minimize communication barriers	Recognizes potential personal bias of a patient family member related to a lung cancer death of another family member and acknowledges those concerns
Independently uses shared decision making with a patient/patient's family to align their values, goals, and preferences with potential treatment options and ultimately to achieve a personalized care plan	Leads a discussion with pre-hospital team and family members around withholding care
Level 5 Acts as a mentor to others in situational awareness and critical self-reflection with the aim of consistently developing positive therapeutic relationships and minimizing communication barriers	Provides ethics training for pre-hospital providers
Acts as a role model to exemplify shared decision making in patient/patient's family's communication that embodies various degrees of uncertainty/conflict	Leads the team debrief after a critical incident
Assessment Models or Tools	 Direct observation OSCE Self-assessment including self-reflection exercises Standardized patients
Curriculum Mapping	
Notes or Resources	 Berkey FJ, Wiedemer JP, Vithalani ND. Delivering bad or life-altering news. Am Fam Physician. 2018;98(2):99-104. https://www.aafp.org/afp/2018/0715/p99.html. 2021. Hashim MJ. Patient-centered communication: Basic skills. Am Fam Physician. 2017;95(1):29-34. https://www.aafp.org/afp/2017/0101/p29.html. 2021.



Interpersonal and Communication Skills 2: Interprofessional and Team Communication Overall Intent: To effectively communicate with the pre-hospital care team in both straightforward and complex situations **Milestones Examples** Level 1 Identifies the roles and areas of • Introduces self as a physician (fellow) in a professional manner expertise of various members of the health care team Uses language that reflects the values all Acknowledges the contribution of each member of the pre-hospital care team members of the health care team Acknowledges areas in need of improvement communicated to them by members of the Receives feedback in a respectful manner prehospital care team • Requests advanced life support response for a patient with chest pain and directs care Level 2 Describes the roles and areas of expertise of various members of the health care including 12-lead EKG acquisition team • Provides clear and direct online medical control instructions and communicates patient Communicates information effectively with all information to receiving team or service health care team members Solicits feedback on performance as a member • Requests outcome data for a patient cared for in the field of the health care team **Level 3** Integrates recommendations made by • Uses input from other EMS clinicians during a cardiac arrest resuscitation various members of the health care team to optimize patient care • Assists EMS clinicians in communicating the importance of transport to the emergency Engages in active listening to adapt to the communication styles of the team department to a hesitant or resistant patient Communicates concerns and provides feedback • Recommends areas for improvement to team members and includes multiple resources to peers and learners for performance enhancement Level 4 Uses flexible communication strategies • Mediates conflict and difficult dialogue when multiple EMS clinicians are collaborating on to incorporate input from all team members and care of an agitated patient resolve conflict when needed

Uses effective communication to lead or manage health care teams	Uses closed-loop communication during the management of cardiac arrest
Communicates feedback and constructive criticism to superiors	Informs system leadership of concerns from EMS providers about lack of appropriate PPE
Level 5 Acts as a role model for communication skills necessary to lead or manage health care teams	 Presents at conferences regarding effective communication and conflict mediation styles Coaches others in conflict mediation styles
In complex situations, facilitates regular health care team-based feedback	Organizes and leads a multidisciplinary meeting to organize an optimal care plan for an EMS high-volume user
Assessment Models or Tools	 Direct observation Global assessment Medical record (chart) audit Multisource feedback Simulation
Curriculum Mapping	•
Notes or Resources	 Bronsky ES, Woodson J. Effective communication in EMS. JEMS. https://www.jems.com/administration-and-leadership/effective-communication-in-ems/. Dehon E, Simpson K, Fowler D, Jones A. Development of the faculty 360. https://www.mededportal.org/doi/10.15766/mep_2374-8265.10174. François, J. Tool to assess the quality of consultation and referral request letters in family medicine. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3093595/. Green M, Parrott T, Cook G. Improving your communication skills. BMJ. 2012;344:e357 https://www.bmj.com/content/344/bmj.e357. Henry SG, Holmboe ES, Frankel RM. Evidence-based competencies for improving communication skills in graduate medical education: A review with suggestions for implementation. https://www.tandfonline.com/doi/abs/10.3109/0142159X.2013.769677?journalCode=imte20. Roth CG, Eldin KW, Padmanabhan V, Freidman EM. Twelve tips for the introduction of emotional intelligence in medical education. https://www.tandfonline.com/doi/abs/10.1080/0142159X.2018.1481499?journalCode=imte20. 2021.

Interpersonal and Communication Skills 3: Communication within Health Care Systems Overall Intent: To effectively communicate using a variety of methods	
Milestones	Examples
Level 1 Recognizes how to accurately document information in the patient's record and safeguards the patient's personal information	 Documents accurate and appropriate patient information Avoids talking about patients about sensitive issues in public spaces when possible
Communicates professionally through appropriate channels/chain of command	 Describes appropriate steps to report patient safety concerns States the chain of command for the organization
Level 2 Demonstrates organized diagnostic and therapeutic reasoning through the patient record in a timely manner	Documents are organized, accurate, and outlines clinical reasoning that supports the field management
Respectfully communicates concerns about the system	 Recognizes that a communication breakdown has happened and respectfully brings the breakdown to the attention of a supervisor or department leadership
Level 3 Concisely reports diagnostic and therapeutic reasoning in the patient record	Documents complex clinical thinking but may not contain anticipatory guidance
Uses appropriate channels/chain of command to offer constructive suggestions for improving the system	Directs concerns to supervisor or department leadership—as appropriate, i.e., appropriate escalation
Level 4 Communicates clearly, concisely, and contemporaneously in an organized written form, including anticipatory guidance	Documents are consistently accurate, organized, and concise, and frequently incorporates anticipatory guidance
Initiates difficult conversations with appropriate stakeholders to improve the system	Talks directly to the EMS clinician about breakdowns in communication at hospital handoff to prevent recurrence
Level 5 Models feedback to improve others' written communication	 Leads a task force established by the quality improvement committee to develop a plan to improve EMS hand-offs Identifies exemplary documentation and uses it to teach others
Leads dialogue regarding systems issues among broader community stakeholders	 Meaningfully participates in a committee to examine the EMS system emergency response plan involving EMS Agencies, hospitals, and other healthcare facilities
Assessment Models or Tools	Direct observationMedical record (chart) audit

	Multisource feedback
Curriculum Mapping	
Notes or Resources	 Haig KM, Sutton S, Whittington J. SBAR: A shared mental model for improving communication between clinicians. <i>Jt Comm J Qual Patient Saf.</i> 2006;32(3):167-175. https://www.jointcommissionjournal.com/article/S1553-7250(06)32022-3/fulltext. 2021. Maddry JK, Arana AA, Clemons MA, et al. Impact of a standardized EMS handoff tool on inpatient medical record documentation at a level 1 trauma center. <i>Prehosp Emerg Care</i>. 2021;25(5):656-663. https://www.tandfonline.com/doi/abs/10.1080/10903127.2020.1824050?journalCode=ipec20. 2021. VirtalSmarts. Crucial Moments in Healthcare. https://www.vitalsmarts.com/healthcare/2021.

To help programs transition to the new version of the Milestones, the original Milestones 1.0 have been mapped to the new Milestones 2.0; it is indicated if subcompetencies are similar between versions. These are not exact matches but include some of the same elements. Not all subcompetencies map between versions. Inclusion or exclusion of any subcompetency does not change the educational value or impact on curriculum or assessment.

Milestones 1.0	Milestones 2.0
PC1: Procedures Performed in the Pre-Hospital Environment	PC1: Procedures Performed in the Pre-Hospital Environment
PC2: Pre-Hospital Recognition and Stabilization of Time/Life-Critical Conditions	PC2: Pre-Hospital Recognition and Stabilization of Time/Life-Critical Conditions
PC3: Recognition and Treatment of Pre-Hospital Conditions	PC3: Recognition and Treatment of Pre-Hospital Conditions
PC4: Mass Casualty and Disaster Management	PC4: General Special Operations in Emergency Medical Services (EMS); Mass Casualty and Disaster Management
PC5: General Special Operations in Emergency Medical Services (EMS) –	PC4: General Special Operations in Emergency Medical Services (EMS); Mass Casualty and Disaster Management
MK1: Medical Oversight	MK1: Medical Oversight
	MK2: Special Teams
SBP1: EMS Personnel (Supervision and Training)	SBP5: EMS Personnel (Supervision and Training)
SBP2: Systems Management	SBP1: Patient Safety SBP4: Physician Role in Health Care Systems
	SBP3: System Navigation for Patient-Centered Care
PBLI1: Quality Management	SBP2: Quality Improvement
PBLI2: Research	PBLI1: Evidence-Based and Informed Practice
	PBLI2: Reflective Practice and Commitment to Personal Growth
PROF1: Ethics and Professional Behavior	PROF1: Professional Behavior and Ethical Principles
PROF2: Accountability	PROF2: Accountability/Conscientiousness
	PROF3: Self-Awareness and Well-Being
ICS1: Team Communications and Management	ICS2: Interprofessional and Team Communication
ICS2: Patient-centered Communications	ICS1: Patient- and Family-Centered Communication
	ICS3: Communication within Health Care Systems

Available Milestones Resources

Milestones 2.0: Assessment, Implementation, and Clinical Competency Committees Supplement, 2021 - https://meridian.allenpress.com/jgme/issue/13/2s

Milestones Guidebooks: https://www.acgme.org/milestones/resources/

- Assessment Guidebook
- Clinical Competency Committee Guidebook
- Clinical Competency Committee Guidebook Executive Summaries
- Implementation Guidebook
- Milestones Guidebook

Milestones Guidebook for Residents and Fellows: https://www.acgme.org/residents-and-fellows/ the acgme-for-residents-and-fellows/

- Milestones Guidebook for Residents and Fellows
- Milestones Guidebook for Residents and Fellows Presentation
- Milestones 2.0 Guide Sheet for Residents and Fellows

Milestones Research and Reports: https://www.acgme.org/milestones/research/

- Milestones National Report, updated each fall
- Milestones Predictive Probability Report, updated each fall
- Milestones Bibliography, updated twice each year

Developing Faculty Competencies in Assessment courses - https://www.acgme.org/meetings-and-educational-activities/courses-and-workshops/developing-faculty-competencies-in-assessment/

Assessment Tool: Direct Observation of Clinical Care (DOCC) - https://dl.acgme.org/pages/assessment

Assessment Tool: Teamwork Effectiveness Assessment Module (TEAM) - https://team.acgme.org/

Improving Assessment Using Direct Observation Toolkit - https://dl.acgme.org/pages/acgme-faculty-development-toolkit-improving-assessment-using-direct-observation

Remediation Toolkit - https://dl.acgme.org/courses/acgme-remediation-toolkit

Learn at ACGME has several courses on Assessment and Milestones - https://dl.acgme.org/