

Pediatric Gastroenterology Milestones

The Accreditation Council for Graduate Medical Education



Implementation Date: July 2023

Second Revision: April 2023 First Revision: January 2014

©2023 Accreditation Council for Graduate Medical Education (ACGME)

Pediatric Gastroenterology Milestones

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

©2023 Accreditation Council for Graduate Medical Education (ACGME)

Pediatric Gastroenterology Milestones Work Group

Ifunanya Agbim, MD Amanda Cantor, MD Laura Edgar, EdD, CAE Anna Ermarth, MD, MSc Melvin B. Heyman, MD, MPH Daniel S. Kamin, MD Sarah S. Lusman, MD Judy-April Murayi, MD, RD Jacob Robson, MD, MS Cary G. Sauer, MD, MSc Arvind Srinath, MD, MS Toba Weinstein, MD Elizabeth Yu, MD

The ACGME would like to thank the following organizations for their continued support in the development of the Milestones:

American Board of Pediatrics Association of Pediatric Gastroenterology and Nutrition Nurses Association of Pediatric Program Directors Council of Pediatric Subspecialties

ACGME Review Committee for Pediatrics

North American Society for Pediatric Gastroenterology, Hepatology and Nutrition

©2023 Accreditation Council for Graduate Medical Education (ACGME)

Understanding Milestone Levels and Reporting

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

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

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

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

©2023 Accreditation Council for Graduate Medical Education (ACGME)

Additional Notes

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

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

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

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

©2023 Accreditation Council for Graduate Medical Education (ACGME)

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

Systems-Based Practice 1: Patient Safety				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of common patient safety events	Identifies system factors that lead to patient safety events	Participates in analysis of patient safety events (simulated or actual)	Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	Actively engages teams and processes to modify systems to prevent patient safety events
Demonstrates knowledge of how to report patient safety events	Reports patient safety events through institutional reporting systems (simulated or actual)	Participates in disclosure of patient safety events to patients and patients' families (simulated or actual)	Discloses patient safety events to patients and patients' families (simulated or actual)	Role models or mentors others in the disclosure of patient safety events
Comments:			Not Yet C	Completed Level 1
Selecting a resp middle of a level milestones in tha levels have been demonstrated.	implies that at level and in lower	Selecting a response between levels indication in lower levels have b demonstrated as well milestones in the high	tes that milestones een substantially as some	

©2023 Accreditation Council for Graduate Medical Education (ACGME)

Patient Care 1: Pediatric Gastroenterology History				
Level 1	Level 2	Level 3	Level 4	Level 5
Acquires a comprehensive and developmentally appropriate pediatric medical history	Acquires a pediatric gastroenterology history, including pertinent positives and negatives	Acquires a focused pediatric gastroenterology history with historical subtleties and psychosocial and physical functioning for a patient with a simple complaint	Acquires the complete patient history, interprets subtleties, and determines tailored assessment of disease activity for a patient with a complex complaint	Serves as a role model in acquiring the complete patient history, interpreting subtleties, recognizing ambiguities, and determining tailored assessment of disease activity for a patient with a complex complaint
Comments: Not Yet Completed Level 1				

Level 1	Level 2	Level 3	Level 4	Level 5
Performs complete physical examination adapted for age and development	Performs a focused physical examination on patients with common gastroenterology complaints, based on history, and identifies abnormal findings	Performs a focused physical examination on patients with complex gastroenterology complaints using strategies to maximize patient cooperation and comfort	Performs a physical examination that identifies subtle, nuanced findings	Serves as a role model for performing a physical examination that identifies subtle, nuanced findings

Patient Care 3: Decision Making				
Level 1	Level 2	Level 3	Level 4	Level 5
Reports clinical facts (e.g., history, exam, tests, consultations), with prompting	Generates a differential diagnosis based on the clinical facts and develops plan to obtain tests, as needed	Generates a prioritized differential diagnosis and orders and interprets focused testing for diagnoses	Reappraises diagnosis in real time to avoid diagnostic error and adjusts management accordingly	Serves as a role model for complex diagnostic decision making
Comments:				Completed Level 1

Patient Care 4: Organize and Prioritize Inpatient Care				
Level 1	Level 2	Level 3	Level 4	Level 5
Organizes patient care tasks, with assistance	Organizes patient care tasks and needs assistance for patients with complex disease; recognizes urgent issues	Prioritizes patient care tasks with efficiency; anticipates and triages urgent issues	Prioritizes patient care tasks and manages service independently	Serves as a role model for organizing, prioritizing, and managing patient care tasks
Comments: Not Yet Completed Level 1 Not Yet Assessable				

Patient Care 5: Patient Management in Pediatric Gastrointestinal and Liver Disease				
Level 1	Level 2	Level 3	Level 4	Level 5
Reports management plans developed by others	Participates in the creation of management plans with assistance	Develops and implements an interdisciplinary management plan for common and typical diagnoses	Develops and implements informed management plans for complicated and atypical diagnoses, with the ability to modify plans as necessary	Serves as a role model for development and implementation of management plans for complicated and atypical diagnoses
Comments: Not Yet Completed Level 1				

Patient Care 6: Endoscopic Procedures – Cognitive					
Level 1	Level 2	Level 3	Level 4	Level 5	
Identifies indications for endoscopic procedures	Explains diagnostic endoscopic procedures and possible complications, and obtains informed consent	Interprets findings during endoscopic procedures, recognizes complications, and chooses appropriate interventions	Anticipates and manages patient- specific comorbidities (e.g., bleeding disorder) and complications of therapeutic procedures	Serves as a role model for managing patients with comorbidities and complications of therapeutic procedures	
Comments: Not Yet Completed Level 1					
			Not Yet A	ssessable	

Patient Care 7: Endoscopic Procedures – Technical					
Level 1	Level 2	Level 3	Level 4	Level 5	
Participates in endoscopic procedures and performs scope functions correctly (e.g., dial maneuvers, button use, appropriate ergonomics)	Performs endoscopic procedures, with assistance	Independently performs esophagogastro- duodenoscopy (EGD); completes colonoscopy and performs therapeutic endoscopic procedures with assistance	Independently performs EGD and ileocolonoscopy, including therapeutic endoscopic techniques (e.g., polyps, bleeding, foreign bodies), and manages complications	Independently performs advanced or specialized endoscopic procedures (e.g., single balloon enteroscopy, refractory gastrointestinal bleeding, endo-FLIP) and manages complications	
Comments: Not Yet Completed Level 1					

Medical Knowledge 1: Diagnostic Evaluation Using Gastrointestinal Tests (e.g., breath test, pH probes, imaging, motility testing, genetics)					
Level 1	Level 2	Level 3	Level 4	Level 5	
Reports results of diagnostic studies	Identifies clinically significant results of diagnostic studies, with guidance	Independently interprets or applies results of common diagnostic studies	Independently interprets or applies results of complex diagnostic studies	Serves as a peer expert for interpreting the clinical significance of results of complex diagnostic studies	
Comments: Not Yet Completed Level 1					
			Not Yet A	ssessable	

Medical Knowledge 2: Clinical Knowledge of Pediatric Gastrointestinal and Liver Diseases					
Level 1	Level 2	Level 3	Level 4	Level 5	
Demonstrates foundational medical knowledge of specialty disorders	Applies medical knowledge to common and typical scenarios to guide patient care	Applies medical knowledge to complicated and atypical conditions to guide patient care	Seeks out and integrates medical knowledge of specialty disorders to develop personalized care plans	Serves as a role model at multiple levels, drawing from a breadth of medical knowledge that spans the continuum of simple to complex problems	
Comments:					

Systems-Based Practice 1: Patient Safety				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of common patient safety events	Identifies system factors that lead to patient safety events	Participates in analysis of patient safety events (simulated or actual)	Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	Actively engages teams and processes to modify systems to prevent patient safety events
Demonstrates knowledge of how to report patient safety events	Reports patient safety events through institutional reporting systems (simulated or actual)	Participates in disclosure of patient safety events to patients and families (simulated or actual)	Discloses patient safety events to patients and families (simulated or actual)	Role models or mentors others in the disclosure of patient safety events
Comments: Not Yet Completed Level 1				

Systems-Based Practice 2: Quality Improvement				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives (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 Yet C	ompleted Level 1

Level 1	Level 2	Level 3	Level 4	Level 5
Lists the various interprofessional individuals involved in the patient's care coordination	Coordinates care of patients in routine clinical situations, incorporating interprofessional teams with consideration of patient and family needs	Coordinates care of patients in complex clinical situations, effectively utilizing the roles of interprofessional teams, and incorporating patient and family needs and goals	Coordinates interprofessional, patient-centered care among different disciplines and specialties, actively assisting families in navigating the health care system	Coaches others in interprofessional, patient centered care coordination

Level 1	Level 2	Level 3	Level 4	Level 5
Uses a standard template for transitions of care/hand-offs	Adapts a standard template, recognizing key elements for 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, and ensures closed-loop communication	Performs and advocates for safe and effective transitions of care/hand-offs within and across health care delivery systems, including transitions to adult care	Coaches others in improving transitions of care within and across health care delivery systems to optimize patient outcomes

Systems-Based Practice 5: Population and Community Health				
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates awareness of population and community health needs and disparities	Identifies specific population and community health needs and disparities; identifies local resources	Uses local resources effectively to meet the needs and reduce health disparities of a patient population and community	Adapts practice to provide for the needs of and reduce health disparities of a specific population	Advocates at the local, regional, or national level for populations and communities with health care disparities
Comments:			Not Yet C	ompleted Level 1

Systems-Based Practice	6: Physician Role in Healt	h Care Systems		
Level 1	Level 2	Level 3	Level 4	Level 5
Engages with patients and other providers in discussions about cost- conscious care and key components of the health care delivery system	Identifies the relationships between the delivery system and cost- conscious care and the impact on the patient care	Discusses the need for changes in clinical approaches based on evidence, outcomes, and cost-effectiveness to improve care for patients and families	Advocates for the promotion of safe, quality, and high-value care	Coaches others to promote safe, quality, and high-value care across health care systems
Comments:			Not Yet C	ompleted Level 1

Practice-Based Learning	and Improvement 1: Evide	ence-Based and Informed F	Practice	
Level 1	Level 2	Level 3	Level 4	Level 5
Develops an answerable clinical question and demonstrates how to access available evidence, with guidance	Independently articulates clinical question and accesses available evidence	Locates and applies the evidence, integrated with patient preference, to the care of 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
Comments:			Not Yet C	ompleted Level 1

Level 1	Level 2	Level 3	Level 4	Level 5
Participates in feedback sessions	Demonstrates openness to feedback and performance data	Seeks and incorporates feedback and performance data episodically	Seeks and incorporates feedback and performance data consistently	Role models and coaches others in seeking and incorporating feedback and performance data
Develops personal and professional goals, with assistance	Designs a learning plan based on established goals, feedback, and performance data, with assistance	Designs and implements a learning plan by analyzing and reflecting on the factors which contribute to gap(s) between performance expectations and actual performance	Adapts a learning plan using long-term professional goals, self- reflection, and performance data to measure its effectiveness	Demonstrates continuous self-reflection and coaching of others on reflective practice

Professionalism 1: Professional Behavior				
Level 1	Level 2	Level 3	Level 4	Level 5
Identifies expected professional behaviors and potential triggers for lapses	Demonstrates professional behavior with occasional lapses	Maintains professional behavior in increasingly complex or stressful situations	Recognizes situations that may trigger professionalism lapses and intervenes to prevent lapses in self and others	Models professional behavior and coaches others when their behavior fails to meet professional expectations
Identifies the value and role of pediatric gastroenterology as a vocation/career	Demonstrates accountability for patient care as a pediatric gastroenterologist, with guidance	Fully engages in patient care and holds oneself accountable	Exhibits a sense of duty to patient care and professional responsibilities	Extends the role of the pediatric gastroenterologist beyond the care of patients by engaging with the community, specialty, and medical profession as a whole
Comments:			Not Yet C	ompleted Level 1

Professionalism 2: Ethic	al Principles			
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates knowledge of the ethical principles underlying informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship of limited resources, and related topics	Applies ethical principles in common situations	Analyzes complex situations using ethical principles to address conflict/controversy; seeks help when needed to manage and resolve complex ethical situations	Manages and seeks to resolve ethical dilemmas using appropriate resources (e.g., ethics consultations, literature review, risk management/legal consultation)	Called upon by others to consult in cases of complex ethical dilemmas; identifies and seeks to address system- level factors that induce or exacerbate
Comments:			Not Yet C	ompleted Level 1

Professionalism 3: Acco	untability/Conscientiousne	SS		
Level 1	Level 2	Level 3	Level 4	Level 5
Performs tasks and responsibilities, with prompting	Performs tasks and responsibilities in a timely manner in routine situations	Performs tasks and responsibilities in a thorough and timely manner in complex or stressful situations	Coaches others to ensure tasks and responsibilities are completed in a thorough and timely manner in complex or stressful situations	Creates strategies to enhance others' ability to efficiently complete tasks and responsibilities
Comments:			Not Yet C	ompleted Level 1

Professionalism 4: Well-	Being			
Level 1	Level 2	Level 3	Level 4	Level 5
Recognizes the importance of addressing personal and professional well-being	Describes institutional resources that are meant to promote well-being	Recognizes institutional and personal factors that impact well-being	Describes interactions between institutional and personal factors that impact well-being	Coaches and supports colleagues to optimize well-being at the team, program, or institutional level
Comments:			Not Yet C	ompleted Level 1

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.

Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates respect and attempts to establish rapport	Establishes a therapeutic relationship in straightforward encounters	Establishes a culturally competent and therapeutic relationship in most encounters	Establishes a therapeutic relationship in straightforward and complex encounters, including those with ambiguity and/or conflict	Mentors others to develop positive therapeutic relationships
Attempts to adjust communication strategies based upon patient/family expectations	Adjusts communication strategies as needed to mitigate barriers and meet patient/family expectations	Communicates with sensitivity and compassion, elicits patient/family values, and acknowledges uncertainty and conflict	Uses shared decision making with patient/family to make a personalized care plan	Models and coaches others in patient- and family-centered communication

Level 1	Level 2	Level 3	Level 4	Level 5
Respectfully requests a consultation, with guidance	Clearly and concisely requests consultation by communicating patient information	Formulates a specific question for consultation and tailors communication strategy	Coordinates consultant recommendations to optimize patient care	Maintains a collaborative relationship with referring providers that maximizes adherence to practice recommendations
Identifies the members of the interprofessional team	Participates within the interprofessional team	Uses bi-directional communication within the interprofessional team	Facilitates interprofessional team communication	Coaches others in effective communication within the interprofessional team

Level 1	Level 2	Level 3	Level 4	Level 5
Records accurate information in the patient record	Records accurate and timely information in the patient record	Concisely documents updated, prioritized, diagnostic and therapeutic reasoning in the patient record	Documents diagnostic and therapeutic reasoning, including anticipatory guidance	Models and coaches others in documenting diagnostic and therapeutic reasoning
Identifies the importance of and responds to multiple forms of communication (e.g., in- person, electronic health record (EHR), telephone, email)	Selects appropriate method of communication, with prompting	Aligns type of communication with message to be delivered (e.g., direct and indirect) based on urgency and complexity	Demonstrates exemplary written and verbal communication	Coaches others in writter and verbal communication