




Development of Milestones 2.0

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Disclosure

- RC Chair, Volunteer on Milestones 2.0 Writing Committee for Anesthesiology, Pediatric Anesthesiology, and Pediatric Cardiac Anesthesiology
- I am not speaking on behalf of the ACGME


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Learning Objectives

- Describe the rationale for updated Milestones in Anesthesiology residency training
- List considerations in the development of the Milestones 2.0 rubric
- Describe the development and benefits of the supplemental guide for Milestones 2.0
- Identify and locate resources for programs and clinical competency committees to implement Milestones 2.0.

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Paradigm Shift

“...The ACGME’s **public stakeholders** have **heightened expectations of physicians**. No longer accepting them as independent actors, they expect physicians to function as leaders and participants in team-oriented care. **Patients, payers, and the public demand** information-technology literacy, sensitivity to cost-effectiveness, the ability to involve patients in their own care, and the use of health information technology to improve care for individuals and populations; they also expect that GME will help to **develop practitioners who possess these skills along with the requisite clinical and professional attributes.**” (Nasca et al, 2012)


N ENGL J MED 365(1) NEJM ORG MARCH 15, 2012

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Paradigm Shift – Outcomes Project (1999-2007)

<ul style="list-style-type: none"> • 6 Core Competencies • Medical Knowledge • Patient Care • Professionalism • Communication • Systems-Based Practice • Problem-Based Learning & Improvement 	<ul style="list-style-type: none"> • Linked resident education to expectations/outcomes after graduation • Universally developed • Challenged by lack of utilizable assessments across specialties • Lacked ability to give outcome data to public
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Milestones 1.0 (2014-2021)

The Anesthesiology Milestone Project **Anesthesiology Milestone Group**

The Board of Directors of
The Accreditation Council for Graduate Medical Education
and
The American Board of Anesthesiology

July 2015


Chair: Deborah Culley, MD
Neal Cohen, MD, MPH, MS
Steven Haff, MD, FAAP
Catherine Kelly, MD
Leri Lewis, EdD, MD
Linda Mason, MD
Steven P. Neuster, PhD
Rita M. Patel, MD
Scott Schwartz, DO
Brian Waldschmidt, MD
Mark Warner, MD

Development of the Anesthesiology Educational Milestones

Robert B. Schwartz, MD, University of Texas, M.D. Anderson Cancer Center
Doreen L. Collins, MD, Case Western Reserve University
Robert M. Weiss, MD, Ohio State University
APM, MD, University of the Massachusetts Medical Center

Journal of Graduate Medical Education Supplement, March 15, 2014


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Milestones 1.0 (2014-2021)

- Commitment to balance comprehensiveness with practicality
- Variability between specialties challenged assessment development
- Straightlining
 - guidance material related reporting level based on time in training
 - Programs wary to show slow progression amongst trainees
- Non-PC/MK as harmonized milestones across specialties


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Milestones 2.0 (July 2021)

- July 2019 ACGME-sponsored survey work for PDs/PCs
 - Too many milestones
 - Too many items within milestones
 - Complex/conflicting language
 - Absence of critical skills
- POCUS, EMR, situational awareness, clinical reasoning
- Preamble re-written
- Consistent language
- Limited developmental trajectories

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Milestones 2.0 (July 2021)

Table 1. Comparison Between Milestones 1.0 and Milestones 2.0 in the Number of Milestones per Competency

Competency	Milestones 1.0	Milestones 2.0
Patient care	10	10
Medical knowledge	1	2
Professionalism	5	3
Interpersonal and communication skills	3	3
Practice based learning and improvement	4	2
Systems-based practice	2	3
Total	25	23

Notable Changes

- MK2—Clinical Reasoning
- PC6—POCUS
- PC7—Situational Awareness
- PC11—Pain

Systems-Based Practice (SBP)

- Patient Safety and Quality Improvement (SBP1)
- System Changes for Patient-Centered Care (SBP2)
- Physician Roles in Health Care Systems (SBP3)

Practice-Based Learning and Improvement (PBLI)

- Assessment-Based and Informal Practice (PBLI1)
- Self-Assessment and Commitment to Personal Growth (PBLI2)

Professionalism (PROF)

- Professional Behavior and Ethical Practice (PROF1)
- Accountability and Conscientiousness (PROF2)
- Well-being (PROF3)

Interpersonal and Communication Skills (ICS)

- Patient and Family-Centered Communication (ICS1)
- Interpersonal and Team Communication (ICS2)
- Communication within Health-Care Systems (ICS3)

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Milestones 2.0 (July 2021)

- Harmonized Milestones (SBP, PBLI, Communication, Professionalism)
- Qualitative analysis of Milestones 1.0
- Interdisciplinary and consensus-generating activities
- Standardized baseline with ability to modify for specialty-specific considerations

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Supplemental Guide

- To reduce ambiguity in interpretation and application of milestones
- To enable curricular mapping with relevant and understandable examples
- Resources for curriculum and assessment
- Living, dynamic document within the program for iterative enhancements in clinical/didactic curriculum

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Anesthesiology

ACGME Items - Anesthesiology - Anesthesiology

Milestones

* Milestones Effective Date

- ☐ Anesthesiology
- ☐ Addiction Medicine
- ☐ Adult Cardiothoracic Anesthesiology
- ☐ Clinical Informatics
- ☐ Critical Care Anesthesiology
- ☐ Hospital and Palliative Medicine
- ☐ Internal Medicine - Anesthesiology
- ☐ Obstetric Anesthesiology
- ☐ Pain Medicine
- ☐ Pediatric Anesthesiology
- ☐ Radiology - Anesthesiology
- ☐ Regional Anesthesiology and Acute Pain Medicine

Milestones Supplemental Guides

- ☐ Addiction Medicine Supplemental Guide
- ☐ Anesthesiology Supplemental Guide Template
- ☐ Anesthesiology Supplemental Guide
- ☐ Anesthesiology Supplemental Guide Template
- ☐ Hospital and Palliative Medicine Supplemental Guide
- ☐ Hospital and Palliative Medicine Supplemental Guide Template
- ☐ Regional Anesthesiology and Acute Pain Medicine Supplemental Guide
- ☐ Regional Anesthesiology and Acute Pain Medicine Supplemental Guide Template

Milestones Resources

- ☐ Milestones Resources
- ☐ Milestones Research and Support

Milestones Webcasts

- ☐ 2021 Milestones Anesthesiology Webcast
- ☐ 2019 Milestones Hospital and Palliative Medicine Webcast
- ☐ 2019 Milestones Addiction Medicine Webcast



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Programmatic Resources for Milestones 2.0



Milestones 2.0



Supplemental Guide



A&A Special Article

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Questions?

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