The Forensic Pathology Milestone Project

A Joint Initiative of

The Accreditation Council for Graduate Medical Education

and

The American Board of Pathology





The Forensic Pathology Milestone Project

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

Forensic Pathology Milestones

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Milestone Reporting

This document presents Milestones designed for programs to use in semi-annual review of fellow performance and reporting to the ACGME. Milestones are knowledge, skills, attitudes, and other attributes for each of the ACGME competencies organized in a developmental framework from less to more advanced. They are descriptors and targets for fellow performance as a fellow moves from entry into fellowship through graduation. In the initial years of implementation, the Review Committee will examine Milestone performance data for each program's fellows as one element in the Next Accreditation System (NAS) to determine whether fellows overall are progressing.

For each period, review and reporting will involve selecting milestone levels that best describe each fellow's current performance and attributes. Milestones are arranged into numbered levels. Tracking from Level 1 to Level 5 is synonymous with moving from novice to expert in the subspecialty. These levels do not correspond with post-graduate year of education.

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

- **Level 1:** The fellow demonstrates milestones expected of an incoming fellow.
- **Level 2:** The fellow is advancing and demonstrates additional milestones, but is not yet performing at a mid-fellowship level.
- **Level 3:** The fellow continues to advance and demonstrate additional milestones, consistently including the majority of milestones targeted for fellowship.
- **Level 4:** The fellow has advanced so that he or she now substantially demonstrates the milestones targeted for fellowship. This level is designed as the graduation target.
- **Level 5:** The fellow has advanced beyond performance targets set for fellowship 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 fellows will reach this level.

Additional Notes

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

Examples are provided with some milestones. Please note that the examples are not the required element or outcome; they are provided as a way to share the intent of the element.

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

Answers to Frequently Asked Questions about Milestones are available on the Milestones web page: http://www.acqme.org/acqmeweb/Portals/0/MilestonesFAQ.pdf.

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.

	PC1 — Patient safety: Demonstrates attitudes, knowledge, and practices that contribute to patient safety				
	Level 1	Level 2	Level 3	Level 4	Level 5
	Understands the	Consistently checks identity	Trouble-shoots deviations	Independently and	Routinely uses identified
	importance of identity and	and integrity of body;	from policies (waivers) with	consistently trouble-shoots	errors and discrepancies to
	integrity of the body and	independently obtains	minimal supervision	deviations from policies	improve practice
	medical record/scene	clinical information when		(waivers)	
	investigation report and	needed; fellow incorporates			
	verifies the identity	other resources such as	Contributes to practice		
		electronic health record	change based on identified		
		(EHR) and radiology; handles	error or systematic problem		
		deviations from policies			
		(waivers) with direct			
		supervision			
	Comments:			N	ot yet achieved Level 1
ecting a res	sponse box in the mid	dle of		Selecting a response	e box on the line in
evel implies	that milestones in th	at		between levels indi	cates that milestones i
el and in lo	ower levels have been			lower levels have been substantially	
stantially o	lemonstrated.			demonstrated as we	ell as some milestones
				the higher level(s).	

PC1 — Patient safety: Demonstrates attitudes, knowledge, and practices that contribute to patient safety				
Level 1	Level 2	Level 3	Level 4	Level 5
Understands the	Consistently checks identity	Trouble-shoots deviations	Independently and	Routinely uses identified
importance of identity and	and integrity of body;	from policies (waivers) with	consistently trouble-shoots	errors and discrepancies to
integrity of the body and	independently obtains	minimal supervision	deviations from policies	improve practice
medical record/scene	clinical information when		(waivers)	
investigation report, and	needed; incorporates other			
verifies the identity	resources, such as electronic	Contributes to practice		
	health record (EHR) and	change based on identified		
	radiology; handles deviations	error or systematic problem		
	from policies (waivers) with			
	direct supervision			
Comments:			N	ot yet achieved Level 1

Suggested Evaluation Methods: Direct observation, narrative, QA reports (misidentification rates, amended report rates), quality and safety committee results/work-ups

Level 1	Level 2	Level 3	Level 4	Level 5
Understands the	Able to perform all eight aspects	Observes and participates in	Performs external examinations	Teaches concepts and
importance of	of a routine autopsy	the external examinations on	on cases that do not require an	techniques of medicolega
confidentiality, universal		cases that do not require an	autopsy, including documenting	death investigation
orecautions, chemical		autopsy, including, under	pertinent findings and	
nazards, personal		appropriate supervision,	collecting appropriate	
protective equipment,		documenting pertinent	biological samples	
general principles of a		findings and collecting		
medicolegal autopsy,		appropriate biological		
piosafety, and organ/tissue		samples		
donation				
	Properly identifies the decedent	Demonstrates competence in	Performs complex gross	
	and limitations to extent of the	determining whether a death	dissection, including special	
	autopsy, if applicable	investigation is required	dissection techniques	
		under applicable statutes		
	Understands cultural and			
	religious limitations on autopsies		Demonstrates competence in	
			coordinating death	
	Understands Medical Examiner		investigations and	
	Office jurisdiction regarding		examinations with postmortem	
	clinical records		organ and tissue donations	
	Demonstrates competence in			
	timely and accurate completion		Consistently demonstrates	
	of the death certificate, with		competence in timely and	
	direct supervision		accurate completion of death	
			certificates	

Suggested Evaluation Methods: Direct observation, Case Logs, narrative, Portfolio review (Case Logs), quality management Copyright (c) Pending. The Accreditation Council for Graduate Medical Education and the American Board of Pathology. All rights reserved. The copyright owners grant third parties the right to use the Medical Microbiology Milestones on a non-exclusive basis for educational purposes.

The Forensic Pathology Milestones: ACGME Report Worksheet

MK1 — Interpretation and D	Diagnostic Knowledge: Understa	nds the types of cases most app	ropriate for examination by a f	orensic pathologist
Level 1	Level 2	Level 3	Level 4	Level 5
Understands that certain	Actively observes the	Involved in the decision	With minimal supervision,	Teaches the various criteria
criteria should be met in	decision making process in	making process in	determines which cases are	to consider when deciding
order for a death to be	determining if a body is to be	determining whether a body	to be accepted for	whether to accept a body for
accepted for examination	examined by the pathologist,	will be examined by the	examination and what type	examination and what type
by the forensic pathologist	and, if so, what type of	pathologist, and, if so, what	of examination is most	of examination is most
	examination (external	type of examination (external	appropriate	appropriate for a given case
	examination vs. full autopsy)	examination vs. full autopsy)		
	is most appropriate	is most appropriate		
Comments: Not yet achieved Level 1				

Suggested Evaluation Methods: Direct observation

Level 1	Level 2	Level 3	Level 4	Level 5
Understands the concept of diagnostic adjuncts, including histochemical, immunocytochemistry, and molecular testing	Actively observes indications for ordering diagnostic adjuncts	Orders diagnostic adjuncts appropriately and can interpret results	Reliably and accurately orders and accurately interprets diagnostic adjuncts prior to sign-out	Teaches the application of diagnostic adjuncts, including flow cytometric analysis, immunocytochemistry, and molecular testing
Aware of the availability of ancillary laboratory tests, including toxicology, cultures, and vitreous analysis	Understands diagnostic information that ancillary tests can provide	Orders ancillary laboratory testing appropriately and can interpret results	Reliably and accurately interprets the results of ancillary tests and appropriately incorporates these findings in the final report	Teaches the availability and utility of ancillary laboratory tests that may aid the postmortem examination
Understands the need for knowledge of pathogenesis, diagnostic techniques, and prognostic factors in disease processes	Builds upon knowledge acquired during residency of pathogenesis, diagnostic techniques, and prognostic factors in disease processes	Is capable of identifying the cause of death and underlying conditions that may have contributed to the cause of death	Consistently and accurately identifies the cause of death and underlying conditions that may have contributed to the cause of death	Teaches the pathogenesis, diagnostic techniques, and prognostic factors in disease processes, cause of death and contributing underlying conditions

Suggested Evaluation Methods: Direct observation, 360 evaluation, narrative

Not yet achieved Level 1

MK3 — Recognition and R reporting of findings	Reporting of Autopsy Findings:	Demonstrates attitudes, knowle	dge, and practices that enables	MK3 — Recognition and Reporting of Autopsy Findings: Demonstrates attitudes, knowledge, and practices that enables analysis, appraisal, and reporting of findings				
Level 1	Level 2	Level 3	Level 4	Level 5				
	Demonstrates knowledge	Demonstrates knowledge of	Is capable of properly	Is proficient at, and can teach				
	of the basic disciplines of	proper documentation in	documenting findings in	residents and fellows on, the				
	forensic science and their	medicolegal autopsies,	medicolegal autopsies,	proper documentation in				
	relevance to death	including evidence	including evidence	medicolegal autopsies,				
	investigation systems	recognition, collection,	recognition, collection,	including evidence recognition,				
		preservation, transport,	preservation, transport,	collection, preservation,				
		storage, analysis, and chain-	storage, analysis, and chain-	transport, storage, analysis,				
		of-custody	of-custody	and chain-of-custody				
		Recognize common injury	Consistently identifies and					
		patterns such as are seen in	describes common injury					
		blunt trauma, sharp injury,	patterns such as are seen in					
		firearms injury,	blunt trauma, sharp injury,					
		transportation-related	firearms injury,					
		fatalities, asphyxial injuries,	transportation-related					
		temperature and electrical	fatalities, asphyxial injuries,					
		injuries, and suspected child	temperature and electrical					
		and elder abuse	injuries, and suspected child					
			and elder abuse					
Is aware of common		Recognizes common	Consistently differentiates					
postmortem changes		postmortem changes and	injury patterns from artifacts					
		artifacts	and postmortem changes					
Comments:				Not yet achieved Level 1				
				140t yet demeved Level 1				

Suggested Evaluation Methods: Direct observation, Case Logs

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The Forensic Pathology Milestones: ACGME Report Worksheet

SBP1 — Lab Management: R	Regulatory and compliance: Expl	ains, recognizes, summarizes, ar	nd is able to apply regulatory ar	nd compliance issues
Level 1	Level 2	Level 3	Level 4	Level 5
Is aware of accrediting	Is aware of the accrediting	Understands the components	Understands the	Participates in and complies
agencies and compliance	agencies for death	of accreditation and	components and processes	with ongoing and focused
for hospital-based	investigation offices and	regulatory compliance	for credentialing and	competency assessment;
laboratories and pathology	laboratories	(NAME or other comparable	privileging; participates in an	participates in or leads
departments		accreditation agency)	internal or external office	internal or external office
			and/or laboratory inspection	and/or laboratory
				inspections
Comments:			No	ot yet achieved Level 1

Suggested Evaluation Methods: Direct observation, portfolio, simulation, examination, team leader performance evaluation

Level 1	Level 2	Level 3	Level 4	Level 5
Understands the role of	Attends and actively	Participates in the application	Demonstrates competence	Completes a quality
quality assurance/	observes at laboratory	of laboratory information	in using laboratory	improvement (QI) project
improvement methods,	meetings and conferences	systems and computational	information systems and	
including peer review	related to quality	analysis for forensic	computational analysis for	Teaches QI, risk
01	assurance/improvement	pathology reporting, data	forensic pathology reporting,	management, and
	methods, including peer	management, and quality	data management, and	laboratory safety as they
	review	control/assurance	quality control/assurance	pertain to forensic pathology
Demonstrates knowledge	Participates in peer review			
of proficiency testing	and/or proficiency testing			
Understands the use of	Actively observes the use of			Teaches use of laboratory
laboratory information	laboratory information			information systems and
systems and computational	systems and computational			computational analysis for
analysis for forensic	analysis for forensic			forensic pathology reporting,
pathology reporting, data	pathology reporting, data			data management, and
management, and quality	management, and quality			quality control/assurance
control/assurance	control/assurance			

Suggested Evaluation Methods: Direct observation, 360 evaluation, narrative, examination, peer review

SBP3 — Interagency Interaction: Demonstrates attitudes, knowledge, and practices that facilitates medicolegal jurisprudence				
Level 1	Level 2	Level 3	Level 4	Level 5
Understands the role of the	Is aware of reporting	Understands and learns to	Assesses and applies reporting	Proficient in the discussion
Coroner's and/or Medical	regulations, such as legal	apply reporting regulations,	regulations, such as legal	of reporting regulations,
Examiner's Office in	jurisdiction, statutes	such as legal jurisdiction	jurisdiction and statutes	such as legal jurisdiction and
medicolegal jurisprudence,	regarding authorization to	and statutes regarding	regarding authorization to	statutes regarding
public health, and quality	perform autopsy (medical	authorization to perform	perform medicolegal	authorization to perform
assurance of medical	examiner), device reporting,	medicolegal autopsies, and	autopsies, and appropriately	medicolegal autopsies;
practice	and communicable diseases	verifies with supervisor on	reports communicable	develops policies on the
	reporting	reporting of communicable	diseases	reporting of communicable
		diseases		diseases
	Understands court standards	Demonstrates knowledge	Is capable of describing the	Is proficient at, and can
	on the admissibility of	of the statutory basis for	statutory basis for medicolegal	teach residents and fellows
	forensic techniques and	medicolegal death	death investigation systems	on, the statutory basis for
	expert testimony and	investigation systems and	and requirements to serve as	medicolegal death
	depositions	requirements to serve as	medical examiner, coroner, or	investigation systems and
		medical examiner, coroner,	forensic pathologist; provides	requirements to serve as
		or forensic pathologist;	admissible forensic evidence	medical examiner, coroner,
		learns to provide	and provides expert testimony	or forensic pathologist;
		admissible forensic	and depositions on autopsies	provides admissible forensic
		evidence and observes	performed; observes	evidence and provides
		experienced expert	testimonies and depositions on	expert testimony and
		testimony and depositions	high profile cases by	depositions on all cases
			experienced staff pathologists	
Comments:			Λ	lot yet achieved Level 1

Suggested Evaluation Methods: Direct observation, case log 360 evaluation, narrative

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The Forensic Pathology Milestones: ACGME Report Worksheet

SBP4 — Scene Investigation: Demonstrates attitudes, knowledge, and practices that facilitates medicolegal jurisprudence					
Level 1	Level 2	Level 3	Level 4	Level 5	
Understands the role of the	With appropriate	With direct supervision,	With minimal supervision,	Independently conducts a	
Coroner's and/or Medical	supervision, attends and	participates in scene	conducts a scene	scene investigation	
Examiner's Office when	observes scene investigations	investigations	investigation		
investigating a scene					
Comments:			No	ot yet achieved Level 1	

Suggested Evaluation Methods: Direct observation; Case Logs

PBLI1 — Recognition of Errors and Discrepancies: Displays attitudes, knowledge, and practices that foster improvement of patient care from study of					
errors and discrepancies					
Level 1	Level 2	Level 3	Level 4	Level 5	
Reflects upon errors	Actively observes the	Involved in QI projects that	Demonstrates competence	Teaches and leads in	
	identification of system	address identified system	by participating in	identification of system	
	errors and the process of	errors	identifying system errors and	errors and implementing	
	corrective action planning for		implementing potential	potential systems solutions	
	potential systems solutions		systems solutions		
Comments:			Not	t yet achieved Level 1	

Suggested Evaluation Methods: Self-assessment (written and verbal), Direct observation, Narrative

PBLI2 — Scholarly Activity: Analyzes and appraises pertinent literature, applies scientific method to identify, interprets evidence-based medicine, and applies it clinically					
Level 1	Level 2	Level 3	Level 4	Level 5	
Develops knowledge of the basic principles of research (demographics, institutional review board [IRB], human subjects), including how research is conducted, evaluated, and applied to patient care	Applies evidence-based medicine in presentations, such as at journal club and, as appropriate, identifies research project early in fellowship	Applies evidence-based medicine in presentations at local or regional meetings	Applies evidence-based medicine in presentations at national or international meetings and/or prepares and submits articles for peer-reviewed publications	Educates others through forensic pathology journal clubs or mentoring research projects	
Comments:			No	ot yet achieved Level 1	

Suggested Evaluation Methods: Direct observation and evaluation of presentations by participants; Portfolio; examination

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Level 1	Level 2	Level 3	Level 4	Level 5
Behaves honestly and	Acknowledges personal	Demonstrates respect,	Exemplifies honesty and	Models honesty, respect,
understand the concepts of	errors and puts the interests	compassion, and empathy,	viewed as a role model	compassion, and empathy,
ethical behavior,	of decedents and their	even in difficult situations		even in complex situations
occasionally requiring	families first; engages in			
guidance; seeks counsel	ethical behavior			
when ethical questions				
arise				
Understands the concepts	Demonstrates respect,		Promotes respect,	
of respect, compassion,	compassion, and empathy		compassion, and empathy in	
and empathy			others	

Suggested Evaluation Methods: Direct observation, 360 evaluation

The Forensic Pathology Milestones: ACGME Report Worksheet

PROF2 — Professionalism: Demonstrates responsibility and follow-through on tasks					
Level 1	Level 2	Level 3	Level 4	Level 5	
Completes assigned tasks	Dependably completes	Anticipates team needs and	Anticipates team needs and	Exemplifies effective,	
on time	assigned tasks in a timely	assists as needed	takes leadership role to	reliable management of	
	manner; assists team		independently implement	multiple competing tasks; is	
	members when requested;		solutions	source of support and	
	respects assigned schedules			guidance	
Comments: Not yet achieved Level 1					

Suggested Evaluation Methods: Direct observation, 360 evaluation, Portfolio data (e.g., autopsy TAT)

Level 1	Level 2	Level 3	Level 4	Level 5
Receives feedback constructively	Accepts feedback constructively and modifies practice in response to feedback	Provides constructive feedback	Exemplifies giving and receiving constructive feedback; encourages and actively seeks feedback to improve performance	Models giving and receiving constructive feedback; encourages and actively seeks feedback to improve performance

Suggested Evaluation Methods: Direct observation, 360 evaluation, Role-play or simulation, Fellow experience narrative

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The Forensic Pathology Milestones: ACGME Report Worksheet

PROF4 — Professionalism: Demonstrates responsiveness to each patient's distinct characteristics and needs				
Level 1	Level 2	Level 3	Level 4	Level 5
Respects patient diversity	Embraces diversity and	Demonstrates cultural	Exemplifies cultural	Models cultural competency,
and autonomy; recognizes	respects vulnerable	competency; recognizes	competency; recognizes	recognition of cultural
vulnerable populations	populations; aware of	cultural differences that may	cultural differences and	differences that may affect
	potential for bias or cultural	affect clinical care or	identifies and avoids biases	clinical care or diagnoses and
	differences to affect clinical	diagnoses, and identifies and	that may affect clinical care	works with peers to avoid
	care or diagnoses	avoids biases	or diagnoses	biases
Comments: Not yet achieved Level 1				

Suggested Evaluation Methods: Direct observation, 360 evaluation, Role-play or simulation, Fellow experience narrative

Level 1	Level 2	Level 3	Level 4	Level 5
Aware of importance of	Manages emotional, physical,	Manages emotional, physical,	Recognizes signs of	Accesses institutional
emotional, physical, and	and mental health and issues	and mental health and issues	impairment in others, and	resources to address
mental health and issues	related to fatigue/sleep	related to fatigue/sleep	facilitates seeking	impairment, and initiates
related to fatigue/sleep	deprivation; recognizes signs	deprivation, including in	appropriate help when	seeking appropriate help
deprivation	of impairment in self and	stressful conditions	needed	when needed
	seeks appropriate help when			
	needed			
Exhibits basic professional				
responsibilities, such as				
timely reporting for duty				
rested, and being ready to				
work and appropriately				
dressed				

Suggested Evaluation Methods: Direct observation, 360 evaluation, Role-play or simulation, Fellow experience narrative

ICS1 — Intra- and Inter-departmental and Health Care Clinical/Investigative Team Interactions: Displays attitudes, knowledge, and practices that					
promote safe patient care through interdisciplinary team interactions					
Level 1	Level 2	Level 3	Level 4	Level 5	
Recognizes the importance	Participates through	Assesses, analyzes, and	When appropriate, routinely	Fully participates as member	
of clinical input in	observation and active	interprets pathology reports,	interfaces with clinical	of the health care team and	
formulating a differential	interaction with clinicians	and is able to discuss findings	colleagues and investigators	is recognized as proficient by	
diagnosis and composing a	and death investigators in	in consultation with clinical	appropriately to narrow	peers and clinical colleagues,	
cause of death	obtaining relevant clinical	colleagues, when applicable	differential diagnosis and	when applicable	
	and/or radiologic data, when		arrive at a cause of death		
	applicable				
Aware of the role of the	Observes and participates in	Actively participates in the	Discusses autopsy findings		
medical examiner in	the discussion of autopsy	discussion of autopsy	and is able to appropriately		
communicating and	findings	findings; responds	answer all but the most		
discussing autopsy findings		appropriately to basic	difficult questions		
		questions			
Comments:					
			IN	ot yet achieved Level 1	

Suggested Evaluation Methods: Direct observation, 360 evaluation, narrative

ICS2 — Interaction with Others: Seeks help when appropriate				
Level 1	Level 2	Level 3	Level 4	Level 5
Understands the role of the	Understands the needs of	Demonstrates consistent	Exemplifies consistent	Models and can teach
coroner and/or medical	families of the deceased;	professional interactions in	professional interactions in	professional interactions in
examiner in interaction	demonstrates professional	providing consultations to	providing consultations to	providing consultations to
with families, the public,	interaction in providing	families, the public, health	families, the public, health	families, the public, health
health care providers, the	consultations to families, the	care providers, and law	care providers, and law	care providers, and law
legal system, and the	public, health care providers,	enforcement	enforcement	enforcement
media	and law enforcement officers			
Understands the importance of consultation	Recognizes when consultation is necessary	Demonstrates competence in obtaining consultations, such as from anthropologists, entomologists, forensic odontologists, neuropathologists, pediatricians, psychologists/psychiatrists,	Exemplifies consistent competence in obtaining consultations from experts Provides information to the media when appropriate	Models and can teach residents and fellows what situations are necessary to obtain consultations from experts
	Understands relationship with media	radiologists, and toxicologists Understands role of an expert witness	Testifies when appropriate	Can appropriately and professionally discuss cases with the media
Comments: Not yet achieved Level 1				

Suggested Evaluation Methods: Direct observation, 360 evaluation