

Headache Medicine Milestones

Common milestones for Interpersonal and Communication Skills, Practice-Based Learning and Improvement, Professionalism, and Systems-Based Practice

1. Systems thinking, including cost- and risk-effective practice – Systems-based Practice							
Level 1	Level 2	Level 3	Level 4	Level 5			
 Identifies and describes the roles of other team members. Identifies obvious or critical causes of error. 	 Minimizes unnecessary diagnostic and therapeutic tests. Advocates for cost-conscious utilization of resources. Reports system errors that contribute to patient safety. 	 Practices cost-effective patient care. Advocates for safe patient care and optimal patient care systems. Participates in quality assurance or improvement activities to improve patient safety. 	 Leads quality assurance or improvement activities. Initiates care delivery models to mitigate barriers to cost-effective and high-quality care. 	 Mentors others in quality improvement activities. Mentors others in developing care delivery models. 			
Comments:	Comments: Not Applicable						
 Self-directed learning – Practice-based Learning and Improvement Identify strengths, deficiencies, and limits in one's knowledge and expertise Set learning and improvement goals Identify and perform appropriate learning activities 							
Level 1	Level 2	Level 3	Level 4	Level 5			

dress, and timeliness in

all activities.

patient care.

Comments:						
			Not A	pplicable		
			NOT A	ppicasie		
4. Knowledge about, resp	ect for, and adherence to the	e ethical principles relevant	to the practice of medicine.	remembering in particular		
	patients that supersedes self-					
Level 1	Level 2	Level 3	Level 4	Level 5		
Demonstrates ability to	Analyzes and manages	Consistently displays	Analyzes and manages	Demonstrates leadership		
discuss common ethical	ethical issues in	responsiveness to	ethical issues in	and mentorship in		
				_		
principles and identify	straightforward clinical	patients that supersedes	complex clinical	applying ethical		
ethical issues in	situations.	self-interest.	situations.	principles.		
practice.				 Active participant on 		
				hospital ethics		
				committee.		
Comments:			Not A	pplicable		
5. Relationship development, teamwork, and managing conflict – Interpersonal and Communication Skills						
Level 1	Level 2	Level 3	Level 4	Level 5		
 Develops a positive 	Manages simple patient/	 Manages conflict in 	 Manages conflict across 	 Engages in scholarly 		
relationship with	family related conflicts.	complex situations.	specialties and systems	activity regarding		
patients in	• Engages patients in	• Uses easy-to-understand	of care.	teamwork and conflict		
uncomplicated	shared decision making.	language in all phases of	Leads team-based	management.		
situations.		communication (avoids	patient care activities.	 Is proficient in crucial 		
	• Consistently	"medicalese" and	panem care activities.	conversations.		
Actively participates in	demonstrates respect for			conversations.		
team-based care.	all team members.	considers the health				
		literacy of the recipient).				

		Consistently demonstrates respect for healthcare providers from other departments.			
Comments: Not Applicable					
	nication skills which result in ssionals – Interpersonal and	Communication Skills	_		
Level 1	Level 2	Level 3	Level 4	Level 5	
 Completes documentation in a timely fashion. Requires guidance or assistance to engage in communication with persons of different socioeconomic and cultural backgrounds. Follows through on patient communications. 	 Educates patients about their diseases and management including risks and benefits of treatment options. Effectively communicates the results of a neurologic consultation in a timely manner. Effectively communicates with other healthcare professionals. 	 Effectively gathers information from collateral sources when necessary. Demonstrates synthesis, formulation, and thought process in documentation. Demonstrates effective non-verbal communication skills. 	 Mentors colleagues in timely, accurate and efficient documentation. Consistently uses teach back in patient encounters. Models cross-cultural communication and establishes therapeutic relationships with persons of diverse socioeconomic and cultural backgrounds. 	 Consistently receives highest tenth percentile patient/family feedback on communication skills on standardized validated assessments. Develops patient education materials related to the subspecialty. Engages in scholarly activity regarding interpersonal communication in the subspecialty. 	

Comments: Not Applicable						
7. Research and other sch	nolarly activity					
Level 1	Level 2	Level 3	Level 4	Level 5		
Reads subspecialty- scientific literature critically.	• Critically evaluates and presents results of published research in the subspecialty at journal club or in a similar setting.	 Writes a case report, review article, or chapter suitable for publication in the subspecialty, or Presents an abstract or lecture in field of the subspecialty at a professional meeting. 	 Designs and initiates original research in field of the subspecialty. Develops an educational curriculum in the subspecialty. 	 Publishes original peer-reviewed research. Serves as a research mentor. 		
Comments: Not Applicable						

Headache Medicine Milestones for Patient Care and Medical Knowledge

8. History – Patient Care						
Level 1	Level 2	Level 3	Level 4	Level 5		
Obtains a headache and pain history.	 Obtains a complete and relevant headache and pain history. Utilizes electronic medical record to formulate history without distracting from the patient interview. 	Obtains a complete, relevant, and organized headache and pain history synthesizing all available data	• Efficiently obtains a complete, relevant, and organized headache and pain history, including all relevant previous data.	 Efficiently obtains a complete, relevant, and organized headache and pain history incorporating subtle verbal and nonverbal cues. Mentors learners in obtaining a Headache Medicine history. 		
Comments:			Not A	applicable		

9. Head and Neck Examination – Patient Care							
Level 1	Level 2	Level 3	Level 4	Level 5			
Performs a complete head and neck examination.	Performs a complete and accurate head and neck examination.	Performs a relevant and accurate head and neck examination, incorporating some additional appropriate maneuvers.	Efficiently performs a relevant and accurate head and neck examination, incorporating all additional appropriate maneuvers.	 Consistently demonstrates mastery in performing a complete, relevant, and organized head and neck examination. Mentors learners in the performance of a Headache Medicine physical examination. 			

Comments: Not Applicable							
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10. Headache-Specific Net	ırological Examination – Pa	tient Care					
Level 1	Level 2	Level 3	Level 4	Level 5			
Performs complete neurological examination.	Performs complete and accurate neurological examination, including funduscopic exam.	 Performs a relevant and accurate neurological examination, incorporating some additional appropriate maneuvers. Consistently performs an accurate funduscopic exam and visualizes optic nerve head. 	Efficiently performs a relevant and accurate neurological examination, accurately incorporating all additional appropriate maneuvers.	 Consistently demonstrates mastery in performing a complete, relevant, and organized neurological examination. Able to describe, in detail, the funduscopic exam and additional examination findings. 			
Comments:			Not A	Applicable			
11. Headache Diagnosis – Medical Knowledge							
Level 1	Level 2	Level 3	Level 4	Level 5			
Summarizes history and examination findings.	Summarizes key elements of history and examination findings and is able to generate a	Synthesizes information to focus and prioritize headache diagnostic	Efficiently uses ICHD criteria, pointing out pitfalls in diagnosis.	 Accurately correlates the clinical presentation with detailed anatomy/physiology of 			

Generates a short list of possible headache diagnoses.	good headache differential diagnosis using the framework of the most current of the ICHD. Explains basic neuroanatomy and	possibilities using the ICHD. • Correlates the clinical presentation with basic anatomy/physiology of the disorder. • Accurately identifies the	Continuously reconsiders diagnosis as clinical presentation evolves.	the disorder, including the peripheral nerve distributions of the head and neck. • Effectively educates others about ICHD rationale and framework.
	physiology of headache.	peripheral sensory distribution of the head and neck.		 Explains controversies in headache diagnosis.
				in headache diagnosis.
Comments:			Not A	Applicable
12. Diagnostic Investigatio	n – Medical Knowledge			
Level 1	Level 2	Level 3	Level 4	Level 5
Demonstrates general knowledge of diagnostic tests in headache medicine.	 Discusses diagnostic approach appropriate to headache presentation. Lists risks and benefits of tests to patient. 	 Individualizes diagnostic approach to the specific patient. Accurately interprets results of common diagnostic tests. 	 Explains diagnostic yield and cost effectiveness of testing. Accurately interprets results of less common diagnostic testing. Recognizes indications and implications of genetic testing. Recognizes indications of advanced imaging and other diagnostic studies. 	Demonstrates sophisticated knowledge of diagnostic testing and controversies.
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Comments:			Not A	Applicable			
13. Management/Treatment – Patient Care							
Level 1	Level 2	Level 3	Level 4	Level 5			
Demonstrates basic knowledge of management of patients with common headache disorders.	 Discusses approach to initial treatment of common headache disorders, including risks and benefits of treatment. Identifies neurologic and other emergencies in headache medicine. 	 Discusses approach to all primary headache types as well as common secondary headache disorders. Appropriately requests consultations from non- neurologic care providers for additional evaluation and management. 	 Adapts treatment based on patient response. Identifies and manages complications of therapy. Independently directs management of patients with neurologic emergencies. 	 Demonstrates sophisticated knowledge of treatment subtleties and controversies. Explains to patients and teaches learners about new and experimental treatments for headache disorders. 			
Comments:			Not A	Applicable			
14. Management/Treatment Advanced Procedures – Patient Care							
Level 1	Level 2	Level 3	Level 4	Level 5			
Demonstrates basic knowledge of blood patches, nerve blocks, trigger point injections, and botulinum toxin use for headache disorders.	Demonstrates advanced knowledge of, and indications for, blood patches, nerve blocks, trigger point injections, and botulinum toxin for headache disorders.	Demonstrates advanced knowledge and skills in performing occipital nerve blocks, trigger point injections, and botulinum toxin treatment for headache	Demonstrates superior knowledge and skills in performing all commonly employed nerve blocks, trigger point injections, and botulinum toxin use	Teaches skills in nerve blocks, trigger point injections, and botulinum toxin use for headache disorders.			

		orders under direct ervision.	dache disord ndently.	lers	
Comments:				Not Applicab	ole

TEMPLATE:

For development of subspecialty-specific milestones in Patient Care and Medical Knowledge

Develop not less than two (one for Patient Care and one for Medical Knowledge) and not more than twelve milestones (total for both milestones) using the template below. The milestones should be neither comprehensive nor prescriptive.

TEMPLATE - Competency						
Level 1	Level 2	Level 3	Level 4	Level 5		
•	•	•	•	•		
Comments:			Not A	pplicable		