

Supplemental Guide: Sleep Medicine



December 2019

Milestones Supplemental Guide

This document provides additional guidance and examples for the Sleep Medicine 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.

The Milestones reference common, uncommon and complex sleep disorders. This list is not exhaustive but intended to provide additional insight as to the intent of the milestone.

Examples of Common, Uncommon, and Complex Sleep Disorders

Common	Uncommon	Complex
Obstructive sleep apnea	Narcolepsy	COPD/OSA overlap
Insomnia	PTSD related nightmare disorder	Hypoventilation
Inadequate sleep hygiene	REM sleep behavior disorder	Congenital central hypoventilation syndrome
Delayed sleep-wake syndrome	Central sleep apnea	Complex sleep apnea
Insufficient sleep syndrome	Shift work disorder	Fatal familial insomnia
Restless legs syndrome	NREM parasomnia	Hypersomnia (central disorders of hyper - somnolence)
	Rhythmic movement disorders	
	Periodic limb movement disorder	

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.

Patient Care 1: Gather and Synthesize Information from Sleep Medicine Patients Across the Lifespan Overall Intent: To obtain and integrate a patient history and perform a physical examination on sleep medicine patients of all ages and complexities	
Milestones	Examples
Level 1 Elicits and concisely reports a hypothesis-driven patient history for common patient presentations	Gathers patient symptoms of obstructive sleep apnea and presents concisely to the attending
Seeks and obtains data from collateral sources, with guidance	Obtains information from bed partner or caregiver on signs and symptoms of obstructive sleep apnea, with prompting
Performs a hypothesis-driven physical exam for a common patient presentation and attends to patient comfort and safety	Examines upper airway anatomy, measures collar size, and considers appropriate vital signs and measures in a respectful manner
Level 2 Elicits and concisely reports a hypothesis-driven patient history for uncommon patient presentations	Gathers patient symptoms of narcolepsy and presents concisely to the attending
Independently seeks and obtains data from collateral sources	Directly contacts bed partner or caregiver to gather signs and symptoms of narcolepsy; seeks and obtains outside records through proper channels
Performs a hypothesis driven physical exam for an uncommon patient presentation	Performs directed neurological exam in a respectful manner
Level 3 Efficiently elicits and concisely reports a hypothesis-driven patient history for complex patient presentations, incorporating pertinent psychosocial and other determinants of health	Gathers patient symptoms of nightmares in a military veteran with obstructive sleep apnea and dream enactment and concisely presents to the attending
Reconciles current data with collateral sources for common cases	Reviews pertinent medical records in the context of the current presenting symptoms
Performs a hypothesis-driven physical exam for a complex patient presentation	Performs directed neurological exam and examines upper airway anatomy, measures collar size, and considers appropriate vital signs and measures in a respectful manner
Level 4 Obtains relevant historical subtleties, including sensitive information that informs the differential diagnosis	Assesses whether behavior is stereotyped and gathers information for triggers/trauma history in the evaluation of parasomnia

Reconciles current data with collateral sources for uncommon and complex cases	Reviews multiple past sleep studies and multiple sleep latency test (MSLT) in the current evaluation of narcolepsy
Elicits subtle findings on physical exam	Performs deep tendon reflex exam during presumed cataplexy episode; assesses external nasal valve collapse on exam
Level 5 Role models integration of history and physical examination and collateral data	Is identified by the program director to teach data integration to other learners
Assessment Models or Tools	 Direct observation Medical record (chart) audit Mini-Clinical Evaluation Exercise (Mini-CEX) Multisource feedback Simulation
Curriculum Mapping	•
Notes or Resources	 Sateia MJ. International classification of sleep disorders - third edition. Chest. 2014;146(5):1387-1394. https://journal.chestnet.org/article/S0012-3692(15)52407-0/fulltext. Accessed 2019. American Academy of Sleep Medicine (AASM). Case Study of the Month. https://aasm.org/membership/case-study-of-the-month/. Accessed 2019. American Academy of Sleep Medicine. Screening Questions - Sleep History & Physical. https://aasm.org/resources/medsleep/(harding)questions.pdf. Accessed 2019. Wise MS, Glaze DG. Assessment of sleep disorders in children. https://www.uptodate.com/contents/assessment-of-sleep-disorders-in-children#H185950752. Accessed 2019.

Patient Care 2: Use of Diagnostic Tools in Sleep Medicine Across the Lifespan Overall Intent: To choose appropriate tools to diagnose sleep disorders across patients of all ages and complexities **Milestones Examples** Level 1 Identifies diagnostic tools used to • Identifies types of studies used to evaluate obstructive sleep apnea evaluate patients with sleep disorders Identifies available consumer sleep technologies • Lists names and types of consumer sleep technologies Level 2 Selects diagnostic tools for patients with • Chooses between home sleep apnea testing versus attended polysomnogram for the common sleep disorders diagnosis of obstructive sleep apnea Explains common uses of consumer sleep Identifies wearable activity monitor as a possible tool to measure sleep duration technologies Level 3 Selects diagnostic tools for patients with • Chooses attended polysomnography with full electroencephalogram (EEG) for the evaluation of parasomnia versus seizure disorder uncommon and complex sleep disorders Identifies limitations of consumer sleep Identifies lack of accurate sleep staging as a limitation of portable activity monitors technologies Level 4 Integrates clinical findings and test Orders a daytime diagnostic study to evaluate obstructive sleep apnea in a shift worker performance characteristics to obtain the diagnosis Incorporates consumer sleep technologies for • Uses patient's portable activity monitor to track changes in sleep duration with therapy for individual use insomnia Level 5 Integrates current and new diagnostic • Uses continuous positive airway pressure (CPAP) download data to help identify circadian tools in novel ways to further evaluate sleep rhythm disorder disorders Incorporates consumer sleep technologies in • Completes a quality improvement (QI) project using consumer worn devices to improve novel ways or for population use nightly sleep duration by setting nightly bedtime within a hospital ward Case studies Assessment Models or Tools Direct observation • Medical record (chart) audit Multisource feedback • Sleep in-service exam **Curriculum Mapping**

Notes or Resources	Sateia MJ. International classification of sleep disorders - third edition. Chest.
	2014;146(5):1387-1394. https://journal.chestnet.org/article/S0012-3692(15)52407-
	O/fulltext Accessed 2019.
	American Academy of Sleep Medicine. Practice Guidelines. https://aasm.org/clinical-
	resources/practice-standards/practice-guidelines/. Accessed 2019.

Patient Care 3: Interpretation of Physiologic Testing in Sleep Medicine Across the Lifespan Overall Intent: To identify findings and interpret sleep testing to diagnose and manage sleep disorders **Milestones Examples** Level 1 Describes the basic principles of signal • Describes the 10-20 system in EEG positioning for sleep studies acquisition and processing Identifies characteristics of normal sleep-wake • Identifies the normal percentages of N1/N2/N3/R sleep in different ages physiology Level 2 Identifies common abnormalities and Identifies 60 hertz artifact artifacts Identifies sweat artifact Interprets routine testing to identify common Recognition of Chevne-Stoke respiration • Identifies obstructive apneas and hypopneas on a home sleep apnea test sleep-wake disorders Level 3 Identifies uncommon abnormalities and • Identifies increased muscle tone during R sleep variants • Interprets pathological sleepiness and sleep onset REM periods on an MSLT Interprets routine testing to identify uncommon • Recognizes CPAP emergent central apnea and recommends a pressure that minimizes it sleep-wake disorders • Recognizes when an HST may underestimate sleep apnea severity • Identifies the deficiencies in data collection of in-lab sleep studies with lack of R sleep. **Level 4** Identifies the technical basis and limitations of the testing modalities: supine position, or insufficient sleep time troubleshoots signal processing Interprets advanced testing; interprets testing of Recognizes Biot's breathing complex sleep-wake disorders • Accurately interprets positive pressure titration polysomnography data to choose the optimal positive airway pressure (PAP) therapy for complex sleep apnea • Interprets a maintenance of wakefulness test (MWT) relative to patient symptoms Level 5 Demonstrates expertise in advanced • Serves as mentor to sleep technologists on signal acquisition and processing principles of signal acquisition and processing Applies current technologies for novel use; • Interprets sleep studies to diagnose obstructive sleep apnea in the newborn with incorporates emerging technologies to diagnose micrognathia to determine the urgency of mandibular surgery and treat sleep-wake disorders Assessment Models or Tools AASM inter-scorer reliability program Direct observation Review of scored sleep studies

	 Review of written reports' Simulation Sleep in-service exam
Curriculum Mapping	•
Notes or Resources	 American Academy of Sleep Medicine. The AASM Manual for the Scoring of Sleep and Associated Events. https://aasm.org/clinical-resources/scoring-manual/. Accessed 2019. American Academy of Sleep Medicine. Sleep ISR is Here. https://aasm.org/sleep-isr-is-here/. Accessed 2019. Sateia MJ. International classification of sleep disorders - third edition. <i>Chest</i>. 2014;146(5):1387-1394. https://journal.chestnet.org/article/S0012-3692(15)52407-0/fulltext Accessed 2019.

Patient Care 4: Management Plan for Sleep Medicine Patients Across the Lifespan Overall Intent: To implement management plans for sleep disorders in patients of all ages **Examples Milestones** Level 1 Implements management plans for • Recommend evaluation and supplementation of iron stores in a patient with restless leg common sleep disorders and recommends syndrome strategies to maintain and promote sleep health • Identifies excessive phone use at night as a cause for sleep disruption and recommends sleep hygiene measures for treatment of inadequate sleep hygiene • Recommends environmental safety and high-dose melatonin for REM sleep behavior Level 2 Implements management plans for uncommon sleep disorders and to maintain and disorder promote sleep health Level 3 Develops and implements management • Educates patient and caregiver about PAP therapy to treat OSA/hypoventilation and plan for complex sleep disorders and to maintain advises treatment for hypersomnia in a child with Prader-Willi Syndrome and promote sleep health Level 4 Adjusts comprehensive management • Discusses and recommends additional treatment options for a homeless patient without plans by incorporating psychosocial and other reliable resources determinants of health and response to therapy Level 5 Develops and implements a • Discusses personalized management plan in a newborn with congenital central personalized management plan for patients with hypoventilation syndrome including genetic counseling and referral to appropriate subtle presentations, rare or ambiguous sleep specialists disorders Advocates to maintain and promote sleep health Gives a workshop to students on the effects of sleep deprivation on cognition and learning and advocates for age-appropriate school start times for patients and populations Assessment Models or Tools Direct observation Medical record (chart) audit Multisource feedback Simulation Sleep in-service exam **Curriculum Mapping** Notes or Resources • Sateia MJ. International classification of sleep disorders - third edition. Chest. 2014;146(5):1387-1394. https://journal.chestnet.org/article/S0012-3692(15)52407-O/fulltext Accessed 2019. American Academy of Sleep Medicine. Advocacy. https://aasm.org/advocacy/. Accessed 2019.

• American Academy of Sleep Medicine. Practice Guidelines. https://aasm.org/clinical-resources/practice-standards/practice-guidelines/. Accessed 2019.

Medical Knowledge 1: Sleep Medicine Clinical Science Overall Intent: To apply knowledge of physiology and pathophysiology of sleep-wake disorders to clinical care for patients of all ages **Examples Milestones** Level 1 Demonstrates knowledge of physiology • Discusses the physiology and pathophysiology of obstructive sleep apnea, insomnia, and pathophysiology of common sleep disorders sleep deprivation Level 2 Demonstrates knowledge of physiology • Discusses the physiology and pathophysiology of narcolepsy, central sleep apnea, and pathophysiology of uncommon sleep advanced sleep-wake phase disorder disorders Level 3 Integrates scientific knowledge to • Differentiates Parkinson's disease-associated symptoms from peripheral neuropathy or address complex sleep disorders restless leas syndrome Level 4 Synthesizes scientific knowledge to • Applies knowledge of loop gain and congestive heart failure to the development of address complex or atypical sleep disorders in management plan for a patient with complex sleep apnea the context of a patient with comorbid conditions Applies knowledge of craniofacial anatomy and impaired neuromuscular tone to treatment of severe obstructive sleep apnea in a patient with Down syndrome who is unable to that impact management of the patient's sleep tolerate PAP therapy disorder Level 5 Demonstrates expertise • Gives a lecture on neurophysiology of sleep and its application to clinical practice in sleep science and its application to clinical medicine Assessment Models or Tools Direct observation Medical record (chart) audit Multiple choice questions • Sleep in-service exam Standardized patient Structured Case Discussion **Curriculum Mapping** Notes or Resources • American Academy of Sleep Medicine. Case Study of the Month. https://aasm.org/membership/case-study-of-the-month/. Accessed 2019.

Medical Knowledge 2: Therapeutic Knowledge for Sleep Disorders Overall Intent: To explain and apply knowledge of sleep therapeutics across all ages and complexities **Milestones Examples Level 1** Describes the indications and scientific Discusses the indications and mechanism of action for the use of mandibular. basis for common therapies for sleep disorders advancement device in the treatment of obstructive sleep apnea Level 2 Analyzes the indications, • Describes the indications, contraindications and potential side effects of use of a hypnotic contraindications, and complications of common agent in the treatment of insomnia therapies for sleep disorders Level 3 Demonstrates knowledge of multimodal • Details management strategies incorporating light therapy and pharmacotherapy in the therapeutic approaches to sleep disorders in the management of co-morbid narcolepsy and delayed sleep-wake phase disorder context of a patient's comorbid conditions to formulate treatment options Level 4 Synthesizes knowledge of therapeutic • Provides several treatment options for the management of obstructive sleep apnea in the options within the clinical context (patient, setting of Down syndrome and prioritizes in a patient centered manner to optimize system, society) to optimize treatment plan and adherence adherence Level 5 Demonstrates an understanding of • Displays understanding of indications and mechanisms of action of recently published emerging, atypical, or complex therapeutic pharmacotherapy for sleep disorders options Assessment Models or Tools Case studies Direct observation • Medical record (chart) audit Multisource feedback Simulation • Sleep in-service exam **Curriculum Mapping** Notes or Resources • AASM Treatment Guidelines (No. 16 insert) • American Academy of Sleep Medicine. Practice Guidelines. https://aasm.org/clinicalresources/practice-standards/practice-quidelines/. Accessed 2019.

Systems-Based Practice 1: Patient Safety and Quality Improvement		
Overall Intent: To engage in the analysis and management of patient safety events, including relevant communication with patients,		
families, and health care professionals; to cond Milestones	Examples	
Level 1 Demonstrates knowledge of common patient safety events	Lists patient misidentification or medication errors as common patient safety events	
Demonstrates knowledge of how to report patient safety events	Describes how to report errors in your environment	
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes fishbone tool	
Level 2 Identifies system factors that lead to patient safety events	Identifies situations that can disrupt sleep in hospitalized patients	
Reports patient safety events through institutional reporting systems	Reports lack of hand sanitizer dispenser at each clinical exam room to the appropriate personnel	
Describes local quality improvement initiatives	Summarizes protocol resulting in decreased falls in hospitalized patients requiring sleep aids in a single ward	
Level 3 Participates in analysis of patient safety events	Preparing for morbidity and mortality presentation	
Participates in disclosure of patient safety events to patients and families	Through simulation, communicates with patients/families about an incorrect PAP prescription	
Participates in local quality improvement initiatives	Participates in project to improve sleep quality and minimized disruptions to patients in the hospital setting	
Level 4 Conducts analysis of patient safety events and offers error prevention strategies		
Discloses patient safety events to patients and families	Collaborates with a team to conduct the analysis of incorrect PAP prescription and can effectively communicate with patients/families about those events	
Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Participates in the completion of a QI project to improve safe sleep practices in hospitalized infants, including assessing the problem, articulating a broad goal, developing a SMART objective plan, and monitoring progress and challenges	

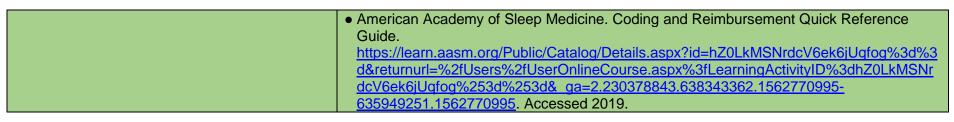
Level 5 Actively engages teams and processes to modify systems to prevent patient safety events	Assumes a leadership role at the departmental or institutional level for patient safety
Role models or mentors others in the disclosure of patient safety events	Conducts a simulation for disclosing patient safety events
Creates, implements, and assesses quality improvement initiatives at the institutional or community level	Initiates and completes a QI project to improve safe sleep practices for infants in collaboration with the county health department and shares results with stakeholders
Assessment Models or Tools	Direct observation
	E-module multiple choice tests Medical record (chart) audit
	Multisource feedback
	Portfolio
	Reflection
	Simulation
Curriculum Mapping	•
Notes or Resources	• Institute for Healthcare Improvement. http://www.ihi.org/Pages/default.aspx . Accessed 2019.
	American Academy of Sleep Medicine. Transportation Safety.
	https://aasm.org/advocacy/initiatives/transportation-safety/. Accessed 2019.
	 Watson NF, Morgenthaler T, Chervin R, et al. Confronting drowsy driving: the American Academy of Sleep Medicine perspective. <i>J Clin Sleep Med</i>. 2015;11(11)1335-1336. http://jcsm.aasm.org/ViewAbstract.aspx?pid=30315. Accessed 2019.
	Intp://jcsin.dasin.org/viewAbstract.aspx:piu=30313.
	• Gurubhagavatula I. Drowsy driving: risks, evaluation, and management. <i>UpToDate</i> . 2016.
	Gurubhagavatula I. Drowsy driving: risks, evaluation, and management. <i>UpToDate</i> . 2016. https://www.uptodate.com/contents/drowsy-driving-risks-evaluation-and-management . Accessed 2019.
	https://www.uptodate.com/contents/drowsy-driving-risks-evaluation-and-management
	 https://www.uptodate.com/contents/drowsy-driving-risks-evaluation-and-management. Accessed 2019. Sateia MJ, Buysse DJ, Krystal AD, Neubauer DN, Heald JL. Clinical practice guideline for the pharmacologic treatment of chronic insomnia in adults: an American Academy of
	 https://www.uptodate.com/contents/drowsy-driving-risks-evaluation-and-management. Accessed 2019. Sateia MJ, Buysse DJ, Krystal AD, Neubauer DN, Heald JL. Clinical practice guideline for the pharmacologic treatment of chronic insomnia in adults: an American Academy of Sleep Medicine clinical practice guidelines. <i>J Clin Sleep Med</i>. 2017;13(2):307-349.
	 https://www.uptodate.com/contents/drowsy-driving-risks-evaluation-and-management. Accessed 2019. Sateia MJ, Buysse DJ, Krystal AD, Neubauer DN, Heald JL. Clinical practice guideline for the pharmacologic treatment of chronic insomnia in adults: an American Academy of

Systems-Based Practice 2: System Navigation for Patient-Centered Care	
Overall Intent: To effectively navigate the health care system, including the interdisciplinary team and other care providers; to adapt care to	
a specific patient population to ensure high-qual	
Milestones	Examples
Level 1 Demonstrates knowledge of care coordination	For a patient with cerebral palsy and spastic quadriparesis identifies the medical providers, home health nurse, and social workers as members of the team
Demonstrates knowledge of population and community health needs and disparities	Identifies that patients in rural areas may have different needs than urban patients
Level 2 Coordinates care of patients in routine clinical situations, performs transitions of care, and effectively uses interprofessional teams	Coordinates care with the Down syndrome clinic, ears, nose, throat (ENT) clinic and sleep clinic at the time of work-up for obstructive sleep apnea
Identifies specific population and community health needs and inequities for their local population	Identifies that limited transportation options may be a factor in rural patients getting to multiple subspecialty clinic appointments
Level 3 Coordinates care of patients in complex clinical situations, performs transitions of care, and effectively uses interprofessional teams	Works with the social worker to coordinate care for an uninsured patient that will ensure follow-up to a sleep clinic after initiation of PAP therapy
Uses local resources effectively to meet the needs of a patient population and community	Refers patients to a PAP assistance program which provides a sliding fee scale option and provides discounted PAP units and supplies
Level 4 Role models effective coordination of patient-centered care among different disciplines and specialties	During multidisciplinary clinics, leads team members in approaching the medical needs of a complex medical patient
Participates in changing and adapting practice to provide for the needs of specific populations	Identifies online cognitive behavioral therapy for cognitive behavioral therapy insomnia programs for patients who are unable to schedule a visit with a behavioral sleep medicine specialist
Level 5 Analyses the process of care coordination and leads in the design and implementation of improvements	Leads a program to arrange for team home visits to newborns at high risk for infant mortality
Leads innovations and advocates for populations and communities with health care inequities	Leads development of telehealth diagnostic services for a rural site
Assessment Models or Tools	Direct observation

Comicologo Manning	Medical record (chart) audit Multisource feedback Quality metrics
Curriculum Mapping	•
Notes or Resources	 Centers for Disease Control and Prevention. Population Health Training in Place Program (PH-TIPP). https://www.cdc.gov/pophealthtraining/whatis.html. Accessed 2019. Skochelak SE, Hawkins RE, Lawson LE, Starr SR, Borkan JM, Gonzalo JD. https://commerce.ama-assn.org/store/ui/catalog/productDetail?product_id=prod2780003. Accessed 2019. Strollo PJ Jr, Badr MS, Coppola MP, Fleishman SA, Jacobowitz O, Kushida CA. The future of sleep medicine. https://academic.oup.com/sleep/article/34/12/1613/2454547. Accessed 2019. Vincent N, Lewycky S. Logging on for better sleep: RCT of the effectiveness of online treatment for insomnia. https://academic.oup.com/sleep/article/32/6/807/2454420. Accessed 2019.

Systems-Based Practice 3: Physician Role in Health Care Systems Overall Intent: To understand fellow's role in the health care system and how to optimize the system to improve patient care and the health	
system's performance Milestones	Examples Examples
Level 1 Identifies key components of the health care system	Articulates the complexity of Medicare guidelines for obtaining PAP therapy
Describes basic health payment systems and practice models	Has basic understanding on the impact of health plan coverage on sleep diagnostic testing
Identifies basic knowledge domains for effective transition to practice	Identifies that clinic notes must meet coding requirements
Level 2 Describes how components of a health care system are interrelated, and how this impacts patient care	Explains that improving patient satisfaction impacts patient adherence and payment to the health system
Delivers care with consideration of each patient's payment model	Takes into consideration patient's prescription drug coverage when choosing methylphenidate versus modafinil for treatment of narcolepsy in a pediatric patient
Demonstrates use of information technology required for medical practice	Recognizes that appropriate documentation can influence continued reimbursement for PAP therapy
Level 3 Discusses how individual practice affects the broader system	Identifies eligible patients for home sleep apnea testing to improve resource utilization
Engages with patients in shared decision making, informed by each patient's payment models	Discusses risks and benefits of pursuing in-lab polysomnography in the setting of excessive daytime sleepiness with a negative when a patient has a high out-of-pocket deductible
Describes core administrative knowledge needed for transition to practice	Understands the core elements of physician compensation and employment contract negotiation
Level 4 Manages various components of the health care system to provide efficient and effective patient care	Ensures proper documentation to obtain bi-level PAP for a patient with Duchenne muscular dystrophy
Advocates for patient care needs with consideration of the limitations of each patient's payment model	Works collaboratively to improve patient assistance resources for an uninsured patient with obstructive sleep apnea

Analyzes individual practice patterns and professional requirements in preparation for practice	Proactively compiles sleep study procedure logs in anticipation of applying for hospital privileges
Level 5 Advocates for or leads systems change that enhances high-value, efficient, and effective patient care	Works with community or professional organizations to advocate for back to sleep and safe sleep in a pediatric population
Participates in health policy advocacy activities	Advocates for changes in school start times to improve student health and performance
Educates others to prepare them for transition to practice	Mentors junior learners about opportunities in sleep medicine in relation to their career planning
Assessment Models or Tools	 Direct observation Medical record (chart) audit Multisource feedback Patient satisfaction data QI project
Curriculum Mapping	
Notes or Resources	 Agency for Healthcare Research and Quality. Major Physician Measurement Sets. https://www.ahrq.gov/talkingquality/measures/setting/physician/measurement-sets.html. Accessed 2019. The Kaiser Family Foundation. Health Reform. https://www.kff.org/topic/health-reform/. Accessed 2019. Dzau VJ, McClellan M, Burke S, et al. Vital directions for health and health care: priorities form a national academy of medicine initiative. https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-academy-of-medicine-initiative/. Accessed 2019. The Commonwealth Fund. Health System Data Center. http://datacenter.commonwealthfund.org/? ga=2.110888517.1505146611.1495417431-1811932185.1495417431#ind=1/sc=1. Accessed 2019. The Commonwealth Fund. Health Reform Resource Center: <a earning-points="" href="http://www.commonwealthfund.org/interactives-and-data/health-reform-resource-center#/f:@facasubcategoriesfacet63677=[Individual%20and%20Employer%20Responsibility. Accessed 2019. American Board of Internal Medicine. QI/PI activities. https://www.abim.org/maintenance-of-certification/earning-points/practice-assessment.aspx. Accessed 2019. American Academy of Sleep Medicine. Compensation Survey. https://aasm.org/professional-development/compensation-survey/. Accessed 2019.



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, and incorporate patient preferences and values in order to take care of a routine patient	Identifies evidence-based guidelines for pediatric narcolepsy
Level 2 Articulates clinical questions and elicits patient preferences and values in order to guide evidence-based care	 In a patient with obstructive sleep apnea, identifies and discusses potential evidence- based treatment options, and solicits patient perspective
Level 3 Locates and applies the best available evidence, integrated with patient preference, to the care of complex patients	 Obtains, discusses, and applies evidence for the treatment of a patient with obstructive sleep apnea and co-existing insomnia and post-traumatic stress disorder (PTSD) Understands and appropriately uses clinical practice guidelines in making patient care decisions while eliciting patient preferences
Level 4 Critically appraises and applies evidence even in the face of uncertainty and conflicting evidence to guide care, tailored to the individual patient	Accesses the primary literature to identify alternative treatments for non-REM parasomnias in a patient who does not want to use benzodiazepines
Level 5 Coaches others to critically appraise and apply evidence for complex patients; and/or participates in the development of guidelines	 Leads clinical teaching on application of best practices in critical appraisal of circadian rhythm sleep-wake disorders As part of a team, develops a peri-operative obstructive sleep apnea program
Assessment Models or Tools	 As part of a team, develops a pen-operative obstructive sleep apries program Direct observation Mini-CEX Presentation Research portfolio Sleep in-service exam
Curriculum Mapping	•
Notes or Resources	 National Institutes of Health. Write Your Application. https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/write-your-application.htm. Accessed 2019. U.S. National Library of Medicine. PubMed Tutorial. https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html. Accessed 2019. American Academy of Sleep Medicine. Practice Guidelines. https://aasm.org/clinical-resources/practice-standards/practice-guidelines/. Accessed 2019.

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Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth Overall Intent: To seek clinical performance information with the intent to improve care; reflect on all domains of practice, personal	
interactions, and behaviors, and their impact on colleagues and patients (reflective mindfulness); and develop clear objectives and goals for	
improvement in some form of a learning plan	
Milestones	Examples
Level 1 Accepts responsibility for personal and	Sets a personal practice goal of documenting use of the Epworth Sleepiness Scale in the
professional development by establishing goals	evaluation of possible narcolepsy
Identifies the factors which contribute to gaps	Identifies unfamiliarity with the EHR as a factor in not completing clinic notes on time
between expectations and actual performance	• identifies unfamiliantly with the EFIK as a factor in not completing clinic notes on time
Library Communication and the second second	Identifica non-in-non-college de a f DEM along habitation d'academ a thombusials and
Identifies gaps in knowledge	Identifies gaps in personal knowledge of REM sleep behavior disorder pathophysiology
Level 2 Demonstrates openness to performance feedback and other data in order to inform goals	Integrates feedback to adjust the documentation of the Epworth Sleepiness Scale in the evaluation of patients for possible narcolepsy
Analyzes and reflects on the factors which	Assesses time management skills and how it impacts timely completion of clinic notes and
contribute to gaps between expectations and	literature reviews
actual performance	
Designs and implements a learning plan, with	When prompted, develops individual education plan to improve their evaluation of
prompting	narcolepsy
Level 3 Solicits performance feedback and data episodically, with adaptability for personal growth	Does a chart audit to determine the percent of patients evaluated for possible narcolepsy which documents the Epworth Sleepiness Scale
9.0	
Institutes behavioral changes to narrow gaps between expectations and actual performance	Completes a comprehensive literature review prior to patient encounters
Independently creates and implements a	Using web-based resources, creates a personal curriculum to improve his/her evaluation
learning plan	of narcolepsy
Level 4 Intentionally seeks performance	Completes a quarterly chart audit to ensure documentation of discussion about
feedback data consistently, with adaptability for personal growth	medication side effects in patients with restless leg syndrome
Challenges assumptions and considers	After patient encounter, debriefs with the attending and other patient care team members
alternatives in narrowing gaps between	to optimize future collaboration in the care of the patient and family
expectations and actual performance	

Uses performance data to measure the effectiveness of the learning plan and when necessary, improves it	Performs a chart audit on documentation of their evaluation of REM behavior disorder
Level 5 Role models consistently seeking performance data, with adaptability for personal growth	Models practice improvement and adaptability
Coaches others on reflective practice	Develops educational module for collaboration with polysomnography technologists
Facilitates the design and implementation of learning plans for others	Assists rotating trainees in developing their individualized learning plans in sleep medicine
Assessment Models or Tools	 Direct observation Medical record (chart) audit Multisource feedback Review of learning plan
Curriculum Mapping	
Notes or Resources	 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. 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. 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.

Professionalism 1: Professional Behavior and Ethical Principles	
Overall Intent: To recognize and address lapses in ethical and professional behavior, demonstrates ethical and professional behaviors, and use appropriate resources for managing ethical and professional dilemmas	
Milestones	Examples
Level 1 Identifies and describes potential triggers for professionalism lapses	 Understands that being sleep deprived can cause a lapse in professionalism Understands sleep deprivation has adverse effects on patient care and on professional relationships
Demonstrates knowledge of the ethical principles commonly identified in sleep medicine	Articulates how the principle of autonomy applies to a patient with uncontrolled narcolepsy and driving
Level 2 Describes when and how to appropriately report professionalism lapses, including strategies for addressing common	 Respectfully approaches a learner who is late to clinic about the importance of being on time Notifies appropriate supervisor when a learner is routinely late to clinic
barriers	• Notines appropriate supervisor when a learner is routinely late to clinic
Recognizes and manages straightforward ethical situations	Recommends not to drive in a patient with excessive daytime sleepiness due to underlying sleep disorder and educates the patient about driving safety
Level 3 Takes responsibility for own professionalism lapses	Takes ownership and apologizes to patient after not prescribing durable medical equipment in a timely fashion after sleep study completion
Identifies need to seek help in managing complex ethical situations	Recognizes need to contact appropriate authorities regarding suspected child abuse in a child being evaluated for behavioral insomnia After paticing a colleggue's inappropriate assist media past, reviews policies related to
	After noticing a colleague's inappropriate social media post, reviews policies related to posting of content and seeks guidance
Level 4 Recognizes situations that may trigger professionalism lapses and intervenes to prevent lapses in self and others	Actively considers the perspectives of others and models respect for patients and promotes the same from colleagues
Uses appropriate resources for managing and resolving ethical dilemmas	Recognizes and uses ethics consults, literature, and/or risk-management/legal counsel in patients suspected of abusing controlled substances
Level 5 Coaches others when their behavior fails to meet professional expectations	Coaches a team member when their behavior fails to meet professional expectations, and guides the creation of a performance improvement plan to prevent recurrence
Identifies and seeks to address system-level factors that induce or exacerbate ethical problems or impede their resolution	Engages stakeholders to address quality improvement projects to track controlled substance usage per state guidelines
Assessment Models or Tools	Direct observation

Consideration Managina	 Multisource feedback Oral or written self-reflection QI project Simulation
Curriculum Mapping	
Notes or Resources	 American Medical Association. Ethics. https://www.ama-assn.org/delivering-care/ama-code-medical-ethics. Accessed 2019. ABIM Foundation. American Board of Internal Medicine. Medical professionalism in the new millennium: a physician charter. https://annals.org/aim/fullarticle/474090/medical-professionalism-new-millennium-physician-charter. Accessed 2019. Byyny RL, Papadakis MA, Paauw DS, Pfiel S, Alpha Omega Alpha. https://alpha.megaalpha.org/pdfs/2015MedicalProfessionalism.pdf. Accessed 2019. Levinson W, Ginsburg S, Hafferty FW, Lucey CR. https://alphaomegaalpha.org/pdfs/Mook.aspx?booklD=1058. Accessed 2019. Bynny RL, Paauw DS, Papadakis MA, Pfeil S, Alpha Omega Alpha. https://accessmedicine.mhmedical.com/book.aspx?booklD=1058. Accessed 2019. Bynny RL, Paauw DS, Papadakis MA, Pfeil S, Alpha Omega Alpha. https://accessmedicine.mhmedical.com/book.aspx?booklD=1058. Accessed 2019. Bynny RL, Paauw DS, Papadakis MA, Pfeil S, Alpha Omega Alpha. https://accessmedicine.mhmedical.com/book.aspx?booklD=1058. Accessed 2019. Patrick R. Spotting unethical practices. https://accessmedicine.mhmedical.com/book.aspx?booklD=1058. Accessed 2019. Patrick R. Spotting unethical practices. https://accessmedicine.mhmedical.com/book

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 **Examples Milestones** Level 1 Responds promptly to requests or • Responds promptly to reminders from program administrator to complete work-hour logs reminders to complete tasks and • Timely attendance at conferences responsibilities; takes responsibility for • Completes end-of-rotation evaluations incomplete tasks Level 2 Completes tasks and responsibilities in • Completes administrative tasks, documents safety modules, procedure review, and licensing requirements by specified due date a timely manner • Completes polysomnography reading and documentation in a timely manner Level 3 Recognizes barriers that may impact • Offers assistance to other fellows who have multiple competing demands at work and self or others' ability to complete tasks and home responsibilities in a timely manner • In preparation for being out of the office, arranges coverage for clinical care of sleep medicine patients **Level 4** Proactively implements strategies for • Sets up a to do list/reminders to actively monitor sleep study results and implement steps timely task completion to ensure that the needs for appropriate clinical management of patients, teams, and systems are met Level 5 Takes ownership of system outcomes • Sets up a meeting with the care team members to streamline durable medical equipment orders and leads team to find solutions to delays in care Compliance with deadlines and timelines Assessment Models or Tools Direct observation Multisource global feedback Self-assessment Simulation **Curriculum Mapping** Notes or Resources Code of conduct from trainee institutional manual • Marvin JS. Invited commentary: professionalism in 21st-centruy medicine. Proc (Bayl Univ Med Cent). 2007;20(1)16-17. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1769527/. Accessed 2019. • Expectations of fellow program regarding accountability and professionalism American Medical Association. Ethics. https://www.ama-assn.org/delivering-care/amacode-medical-ethics. Accessed 2019. • Patrick R. Spotting unethical practices. Sleep Review. 2008. http://www.sleepreviewmag.com/2008/06/spotting-unethical-practices-2/. Accessed 2019.

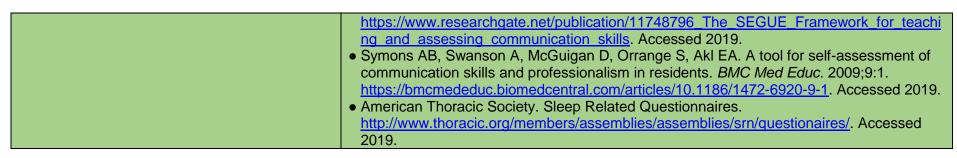
Professionalism 3: Self-Awareness and Help-Seeking Overall Intent: To identify, use, manage, improve, and seek help for personal and professional well-being for self and others	
Milestones	Examples
Level 1 Recognizes the status of personal and professional well-being	Acknowledging the role of sleep deprivation on one's emotional health and well-being
Level 2 Demonstrates appropriate help-seeking behaviors	 Independently identifies and communicates impact of a personal family tragedy Knows the institutions health and well-being resources and how to access them
Level 3 With assistance, proposes a plan to optimize personal and professional well-being	 With the multi-disciplinary team, develops a reflective response to deal with personal impact of difficult patient encounters With assistance, implements plan to allow for time off to be spent on personal well-being
Level 4 Independently develops, reassesses and modifies plans to optimize personal and professional well-being	Uses validated tools to assess personal and profession well-being, identifies ways to manage stress and reassess if the management was helpful by using scales/tools.
Level 5 Coaches others when emotional responses or limitations in knowledge/skills do not meet professional expectations	Assists in organizational efforts to address clinician well-being
Assessment Models or Tools	 Direct observation Group interview or discussions for team activities Individual interview Institutional online training modules Participation in institutional well-being programs Personal wellness plan Self-assessment
Curriculum Mapping	
Notes or Resources	 Local resources, including Employee Assistance Hicks PJ, Schumacher D, Guralnick S, Carraccio C, Burke AE. Domain of competence: personal and professional development. <i>Acad Pediatr</i>. 2014;14(2 Suppl):S80-97. https://www.academicpedsjnl.net/article/S1876-2859(13)00332-X/fulltext. Accessed 2019. Papanikitas A. Self-awareness and professionalism. <i>InnovAiT</i>. 2017;10(8):452-445. https://ora.ox.ac.uk/objects/uuid:16ee6cd3-fca4-4e6c-b2c4-3497c4842457/download_file?file_format=pdf&safe_filename=Papanikitas_2018_self_aw_arness_professionalism.pdf&type_of_work=Journal+article. Accessed 2019. Accreditation Council for Graduate Medical Education. ACGME Tools and Resources for Resident and Faculty Member Well-Being. https://www.acgme.org/What-We-

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- Mayo Clinic. Program on Physician Well-Being. <a href="https://www.mayo.edu/research/centers-programs/program-physician-well-being/mayos-approach-physician-well-
- American Medical Association. Professional Well-Being. https://edhub.ama-assn.org/steps-forward/pages/professional-well-being. Accessed 2019.

Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication	
	d behaviors to form constructive relationships with patients, and organize and lead
communication around shared decision making	
Milestones	Examples
Level 1 Uses language and nonverbal behavior to demonstrate respect and establish rapport	 Introduces self and faculty member, identifies patient and others in the room, and engages all parties in health care discussion
Identifies the need to individualize communication strategies based on patient/family expectations and understanding	Uses age-appropriate language when discussing sleep diagnostic testing with pediatric patients
Level 2 Establishes a therapeutic relationship in straightforward encounters using active listening and clear language	 Avoids medical jargon and restates patient perspective when discussing treatment options for obstructive sleep apnea
Communicates compassionately with patient/family to clarify expectations and verify understanding of the clinical situation	 Recognizes the need for handouts with diagrams and pictures to communicate information to a patient who is unable to read Prioritizes goals of the visit at the beginning of the appointment for a new patient with insomnia
Level 3 Establishes a therapeutic relationship in challenging patient encounters	 Acknowledges patient's request for use of a wake-promoting agent in the context of untreated obstructive sleep apnea and communicates the importance of fully treating the patient's obstructive sleep apnea
Communicates medical information in the context of patient/family values, uncertainty, and conflict	 In a discussion with the faculty member, acknowledges discomfort in prescribing opioids for treatment of restless legs syndrome for a patient receiving controlled substances from multiple clinicians Discusses with patient's caregiver the pros and cons of treatment discontinuation in a patient with dementia who is unable to tolerate PAP therapy for obstructive sleep apnea
Level 4 Easily establishes therapeutic relationships, with attention to patient/family concerns and context, regardless of complexity	Continues to engage patient and bed partner/caregiver who have disparate goals in the care of a patient with obstructive sleep apnea
Uses shared decision making to align patient/family values, goals, and preferences with treatment options	Uses patient and bed partner/caregiver preferences to guide treatment selection for obstructive sleep apnea
Level 5 Mentors others in situational awareness and critical self-reflection to consistently develop positive therapeutic relationships	Leads a discussion group on personal experience with difficult patient encounters

Role models shared decision making in the context of patient/family values, uncertainty, and conflict	Serves on a hospital bioethics committee
Assessment Models or Tools	 Direct observation Kalamazoo Essential Elements Communication Checklist (Adapted) Self-assessment including self-reflection exercises Skills needed to set the state, Elicit information, Give information, Understand the patient, and End the encounter (SEGUE) Standardized patients Structured case discussions
Curriculum Mapping	•
Notes or Resources	 Laidlaw A, Hart J. Communication skills: an essential component of medical curricula. Part I: Assessment of clinical communication: AMEE Guide No. 51. Med Teach. 2011;33(1):6-8. https://www.researchqate.net/publication/49706184 Communication skills An essential component of medical curricula Part I Assessment of clinical communication AMEE Guide No. 511. Accessed 2019. Makoul G. Essential elements of communication in medical encounters: The Kalamazoo consensus statement. Acad Med. 2001;76(4):390-393. https://www.researchqate.net/publication/264544600 Essential elements of communication in medical encounters The Kalamazoo Consensus Statement. Accessed 2019. Makoul G. The SEGUE Framework for teaching and assessing communication skills. Patient Educ Couns. 2001;45(1):23-34.

Interpersonal and Communication Skills 2: Barriers and Bias Mitigation	
Overall Intent: To deliberately use language and behaviors to identify communication barriers including self-reflection on personal biases,	
and minimize them in the doctor-patient relation	
Milestones	Examples
Level 1 Identifies common barriers to effective patient care	Identifies need for trained interpreter with non-English-speaking patients
Level 2 Identifies complex barriers to effective patient care	Recognizes the need for handouts with diagrams and pictures to communicate information to a patient who is unable to read
Level 3 Recognizes personal biases and mitigates barriers to optimize patient care, when prompted	With prompting from the attending, the sleep medicine fellow recognizes personal bias towards obese patients
Level 4 Recognizes personal biases and proactively mitigates barriers to optimize patient care	Reflects on personal bias against obese patients and solicits input from faculty about mitigation of communication barriers when counseling patients about weight loss
Level 5 Mentors others on recognition of bias and mitigation of barriers to optimize patient care	Develops a fellowship curriculum on mitigating barriers to care for marginalized patient populations
Assessment Models or Tools	 Direct observation Kalamazoo Essential Elements Communication Checklist (Adapted) Self-assessment including self-reflection exercises Skills needed to set the state, Elicit information, Give information, Understand the patient, and End the encounter (SEGUE) Standardized patients or structured case discussions
Curriculum Mapping	•
Notes or Resources	 Laidlaw A, Hart J. Communication skills: an essential component of medical curricula. Part I: Assessment of clinical communication: AMEE Guide No. 51. Med Teach. 2011;33(1):6-8. https://www.researchgate.net/publication/49706184 Communication skills An essential component of medical curricula Part I Assessment of clinical communication AMEE Guide No 511. Accessed 2019. Makoul G. Essential elements of communication in medical encounters: The Kalamazoo consensus statement. Acad Med. 2001;76(4):390-393. https://www.researchgate.net/publication/264544600 Essential elements of communicat ion in medical encounters The Kalamazoo Consensus Statement. Accessed 2019. Makoul G. The SEGUE Framework for teaching and assessing communication skills. Patient Educ Couns. 2001;45(1):23-34.



Interpersonal and Communication Skills 3: Interprofessional and Team Communication Overall Intent: To effectively communicate with the health care team, including consultants, in both straightforward and complex situations

, , , , , , , , , , , , , , , , , , , ,	the health care team, including consultants, in both straightforward and complex situations
Milestones	Examples
Level 1 Respectfully receives and requests consultations	When asking for an otolaryngology consultation for a patient with obstructive sleep apnea, respectfully relays the diagnosis and need to assess the patient's candidacy for hypoglossal nerve stimulation
Uses language that values all members of the health care team	Receives consult request for a patient with Down syndrome and suspected obstructive sleep apnea, asks clarifying questions politely, and expresses gratitude for the consult
Receptive to feedback on performance as a member of the health care team	Acknowledges the contribution of each member of the sleep medicine team (sleep technologist, respiratory therapist, clinic nurse) to the patient's care
Level 2 Clearly and concisely responds to and requests consultations	Communicates diagnostic evaluation recommendations clearly and concisely in an organized and timely manner
Communicates information effectively with all health care team members	Sends a message in EHR to the psychiatrist of a patient with insomnia that the patient's anxiety has worsened in recent weeks
Solicits feedback on performance as a member of the health care team	Sleep medicine fellow asks senior technologist for feedback regarding clarity of instructions given on a sleep study order
Level 3 Assesses understanding of recommendations when providing and receiving consultations	After a consultation has been completed, communicates with the primary care provider/team to verify they have received and understand the recommendations
Uses active listening to adapt communication style to fit health care team needs	When receiving treatment recommendations from an attending physician, repeats back the plan to ensure understanding
Communicates concerns and provides feedback to peers and learners	Respectfully critiques a learner's presentation in clinic and provides suggestions for improvement
Level 4 Coordinates recommendations from different members of the health care team and consultants to optimize patient care	Initiates a multidisciplinary meeting to develop a shared care plan for a patient with an inherited craniofacial syndrome and obstructive sleep apnea
Communicates feedback and constructive criticism to supervisors and faculty member	Notifies attending that his/her clinical documentation was placed in the wrong patient's chart
Level 5 Role models flexible communication strategies that value input from all health care	 Mediates a conflict resolution between different members of the health care team Facilitates regular healthcare team-based feedback in complex situations

team members and consultants, resolving	
conflict when needed	
Assessment Models or Tools	Direct observation
	Global assessment
	Multisource feedback
	Simulation
	Medical record (chart) review
Curriculum Mapping	
Notes or Resources	Roth CG, Eldin KW, Padmanabhan V, Freidman EM. Twelve tips for the introduction of
	emotional intelligence in medical education. <i>Med Teach</i> . 2018:1-4.
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	Henry SG, Holmboe ES, Frankel RM. Evidence-based competencies for improving
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	implementation. <i>Med Teach</i> . 2013;35(5):395-403.
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	Accessed 2019.
	• Lane JL, Gottlieb RP. Structured clinical observations: a method to teach clinical skills
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	https://jamanetwork.com/journals/jama/fullarticle/192233. Accessed 2019.

Interpersonal and Communication Skills 4: Communication within Health Care Systems Overall Intent: To effectively communicate using a variety of methods	
Milestones	Examples
Level 1 Accurately records information in the patient record in a timely manner	Documentation is timely and accurate but may include extraneous information
Safeguards patient personal health information and communicates through appropriate channels as required by institutional policy	 Shreds patient list after rounds; avoids talking about patients in the elevator Identifies institutional and departmental communication hierarchy for concerns and safety issues
Level 2 Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record	Organized and accurate documentation outlines clinical reasoning that supports the treatment plan
Documents required data in formats specified by institutional policy	Uses approved documentation templates for clinical care
Level 3 Concisely and clearly reports diagnostic and therapeutic reasoning in the patient record in a manner that reflects level of service	Complex clinical thinking is documented concisely and note contains all required elements for designated level of service
Appropriately selects direct and indirect forms of communication based on context	 Calls patient immediately about potentially life-threatening arrhythmia seen on polysomnogram Knows when to direct concerns locally, departmentally, or institutionally – appropriate escalation
Level 4 Communicates anticipatory guidance in the patient record	Documentation is consistently accurate, organized, and concise, and frequently incorporates anticipatory guidance
Is effective in direct and indirect forms of communication	 Fellow talks directly to the senior technologist about a study ordered with a modified protocol to be performed for a complex patient Fellow relays feedback to sleep technologists from patients and families
Level 5 Role models exemplary communication and facilitates secure information sharing within the broader health care system	Leads a task force established by the hospital QI committee to develop a plan to improve communication between clinics and durable medical equipment companies
Facilitates dialogue regarding systems communication issues among larger community stakeholders	Meaningfully participates in a committee to examine sleep deprivation in trainees and other hospital staff

Assessment Models or Tools	 Direct observation Multisource feedback Medical record (chart) review
Curriculum Mapping	•
Notes or Resources	 Bierman JA, Hufmeyer KK, Liss DT, Weaver AC, Heiman HL. Promoting responsible electronic documentation: validity evidence for a checklist to assess progress notes in the electronic health record. <i>Teach Learn Med.</i> 2017;29(4):420-432. https://www.tandfonline.com/doi/full/10.1080/10401334.2017.1303385. Accessed 2019. 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.ncbi.nlm.nih.gov/pubmed/16617948. Accessed 2019.