

Supplemental Guide: Otolaryngology -Head and Neck Surgery ACGME

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Milestones Supplemental Guide

This document provides additional guidance and examples for the Otolaryngology – Head and Neck Surgery 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.

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.

Additional tools and references, including the Milestones Guidebook, Clinical Competency Committee Guidebook, and Milestones Guidebook for Residents and Fellows, are available on the <u>Resources</u> page of the Milestones section of the ACGME website.

 Patient Care 1: Airway Emergency and Management

 Overall Intent: To efficiently and safely obtain and synthesis history, patient presentation

Milestones	Examples
Level 1 Identifies potential airway emergencies as part of an evaluation team	 Recognizes the initial presentation of acute airway compromise from infectious or neoplastic etiology
Escalates care of emergency airway (e.g., alerts airway team)	Appropriately calls for additional supervisory and patient care support
Level 2 Performs airway assessment and focused history and physical	 Differentiates between upper airway and lower airway sounds on presentation and auscultation
	 Performs airway assessment to include identification of potential airway compromise
Describes the airway management algorithm from least to most invasive	• Describes nasal cannula and mask ventilation as least invasive for airway management
Level 3 Assists in straightforward airway emergency procedures	Assists in straightforward airway emergency procedures including awake fiberoptic intubation or events trachagetemy in a stable patient with permutanteeut
	intubation or awake tracheostomy in a stable patient with normal anatomy
Initiates the airway management algorithm from least to most invasive	
Level 4 Performs straightforward airway	Performs straightforward airway emergency procedures including awake fiberoptic
emergency procedures	intubation or an awake tracheostomy in a stable patient with normal anatomy
Implements airway management plan	
Level 5 Performs complex airway emergency procedures	 Performs complex airway emergency procedures including any procedure performed in an acutely decompensating patient or a patient with complex comorbidities to include significantly altered anatomy, obesity, or bleeding comorbidities
Develops anticipatory airway management plan	
Assessment Models or Tools	Direct observation
	 Ears, Nose, and Throat (ENT) Boot Camps Simulation
Curriculum Mapping	
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. Mitchell RB, Hussey HM, Setzen G, et al. Clinical consensus statement: tracheostomy care. <i>Otolaryngol Head Neck Surg</i>. 2013;148(1):6-20. <u>https://journals.sagepub.com/doi/10.1177/0194599812460376?url_ver=Z39.88-</u>2003𝔯_id=ori:rid:crossref.org𝔯_dat=cr_pub%20%200pubmed. 2021.

Nguyen LHP, Bank I, Fisher R, Mascarella M, Young M. Managing the airway
catastrophe: longitudinal simulation-based curriculum to teach airway management. J
Otolaryngol Head Neck Surg. 2019;48(1):10.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6381681/pdf/40463_2019_Article_332.pdf.
2021.

Patient Care 2: Facial Trauma

Overall Intent: To accurately assess patient with facial trauma, determine surgical plan, and execute surgical operation

Milestones	Examples
Level 1 <i>Performs a history and physical examination in patients with a facial trauma</i>	Assesses facial numbness
Assists with routine peri-operative care for facial trauma patients	 Knows to order facial computerized tomography (CT) as that gives the best assessment of bony trauma
Recognizes common complications	 Recognizes complications such as numbness of the cheek/palate, double vision, numbness of the lower lip
Level 2 Formulates a diagnostic and treatment plan for a patient with facial trauma	 Describes LeFort fracture patterns, knows that fractures must be treated with two points of fixation
Provides routine peri-operative care for facial trauma patients	 Plans timing of surgery to await some resolution of facial swelling
Initiates work-up of common complications	To address complication of double vision, knows to do forced duction testing
Level 3 Explains the risks and benefits of treatment plans for facial trauma	Obtains informed consent
Assists with routine surgical management for facial trauma	• Knows surgical approaches for open reduction and internal fixation of facial fractures
	 Prescribes appropriate antibiotics for post-operative infections
Manages common complications and recognizes uncommon/infrequent complications	
Level 4 Describes typical treatment plan	Describes appropriate hardware and surgical approaches for surgery
Performs routine surgical management for facial trauma, assists with complex facial trauma	• Performs open reduction and internal fixation of malar complex fracture
Manages uncommon/infrequent complications	Performs assessment of infected hardware
Level 5 Adapts standard treatment plans and techniques to special circumstances	Describes special considerations for edentulous patients
Performs operative management of complex facial trauma	 Performs open reduction and internal fixation if edentulous mandible

Serves as a peer resource for managing uncommon/infrequent complications	 Teaches more junior residents about how to manage complications
Assessment Models or Tools	 Checklist evaluation of live or recorded performance Direct observation Objective structured clinical examination (OSCE) Record review Reflection Simulations and models Standardized oral examination Standardized patient examination
Curriculum Mapping	•
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. AO CMF Foundation options (some free access, some members only) AO CMF. Clinical Library & Tools. <u>https://aocmf.aofoundation.org/clinical-library-and-tools</u>. 2021. AO CMF. AO CMF Classification System. <u>https://aocmf.aofoundation.org/clinical-library-library-and-tools/classification</u>. 2021.

Patient Care 3: Head and Neck Neoplasm Overall Intent: To accurately assess patient with head and neck cancer, determine treatment plan, and execute surgical operation

Milestones	Examples
Level 1 Performs a history and physical	 Elicits pertinent information depending on the type of cancer being assessed
examination in patients with head and neck	
neoplasm	
Assists with routine peri-operative care for	 Executes nothing by mouth (NPO) orders prior to surgery
patients with head and neck neoplasm	
Recognizes common complications	Identifies neck hematoma
Level 2 Formulates a diagnostic plan for a	 Explains which imaging modality to use
patient with head and neck neoplasm	
Provides routine peri-operative care for patients	 Describes appropriate anti-coagulation bridging in the peri-operative phase
with head and neck neoplasm	
Initiates work-up of common complications	 Obtains correct labs to differentiate salivary fistula versus chyle leak
Level 3 Explains the risks and benefits of	 Describes common side effects of radiation therapy
treatment plans for head and neck neoplasm	
Assists with routine surgical management for	 Assists with laryngectomy and neck dissection
head and neck neoplasm	
Manages common complications and	 Assists with managing salivary fistula appropriately
recognizes uncommon/infrequent complications	Recognizes uncommon complication of Horner's syndrome
Level 4 Describes typical treatment plan	Correctly outlines surgical versus non-surgical plan for treatment of laryngeal cancer
Performs routine surgical management for head	Performs routine neck dissection
and neck disease, assists with complex head	
and neck neoplasm	
Managaa unaamman/infraguant aamaliaatiana	Manages chyle leak
Manages uncommon/infrequent complications	
Level 5 Adapts standard treatment plans and	 Describes treatment for recurrent disease; surgical salvage
techniques to special circumstances	

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Performs operative management of complex	Performs maxillectomy
head and neck neoplasm	
Serves as a peer resource for managing uncommon/infrequent complications	Teaches more junior residents about head and neck cancer management
Assessment Models or Tools	Checklist evaluation of live or recorded performance
	Direct observation
	• OSCE
	Record review
	Reflection
	Simulations and models
	Standardized oral examination
	Standardized patient examination
Curriculum Mapping	•
Notes or Resources	American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u> . 2021.
	University of Iowa Hospitals & Clinics. Iowa Head and Neck Protocols.
	https://uihc.org/iowa-head-and-neck-protocols. 2021.

 Patient Care 4: Otologic Disease

 Overall Intent: To diagnose and treat otologic disease safely and effectively, using both medical and surgical management

Milestones	Examples
Level 1 Performs a history and physical examination in patients with ear disease and/or hearing loss	 Elicits a focused and systematic history of an otologic problem, within the framework of a differential diagnosis Performs a thorough ear-focused physical exam such as eye movements, cranial nerve exam, basic vestibular testing (Romberg, Fukuda, Dix-Hallpike)
Assists with set-up, performs placement of ventilation tubes, and opens and closes postauricular incisions	 Properly uses an otoscope and tuning fork as well as beginning to use an otologic microscope In the operating room, is actively involved in patient positioning, communication with the anesthesia and nursing teams, surgical prep and drape, and local injections; makes a postauricular incision and closes and dresses the incision at the conclusion of the case
Interprets routine audiograms	 Interprets patient audiograms either in the office setting or for a surgical case, and distinguishes pure tone audiometry, speech discrimination scores, and tympanometry; distinguishes between air and bone lines, left and right ear, and masked and unmasked conditions
Level 2 Formulates a diagnostic and treatment plan for a patient with ear disease and/or hearing loss	 For a patient with presbycusis, discusses contributing factors (family history, noise exposure, ototoxicity/trauma, chronic illness) and discusses the role of hearing aids, further testing (if borderline aidable hearing or if asymmetric, for example), and appropriate follow-up For an adult patient with chronic otitis media, discusses the role of allergies, eustachian tube dysfunction, and smoking, as well as the effects of treating these factors such as allergy medications/referrals, placement of ventilation tubes, cessation of smoking, and use of hearing aids and hearing devices (bone-anchored devices for conductive losses/draining ears)
Elevates tympanomeatal flap, performs cortical mastoidectomy Identifies surgical and disease-relevant anatomy on a computerized tomography (CT) scan	 For an acutely presenting patient with a draining ear, distinguishes between extratemporal and intratemporal complications, and discusses the role of prophylactic antibiotics, cultures, imaging, consults Makes incisions and elevates a tympanomeatal or a vascular strip flap; gets through the Koerner's septum and exposes the antrum safely in an ear with relatively normal anatomy (such as for most cochlear implants); may not be able to perform the same in a poorly developed mastoid for this level of dissection ability

	 Identifies structures in a normal temporal bone (such as when performing a cochlear implant) on a CT scan and some disease processes such as pericochlear lucency in otosclerosis, enlarged vestibular aqueduct, dehiscent semicircular canal, or atretic ear canal
Level 3 Orders routine diagnostic studies for ear disease and/or hearing loss Begins to perform middle ear dissection	 For a patient with a draining ear, performs a culture before administering antibiotics For a patient with otosclerosis, orders stapedial reflex testing before getting a CT scan and explains why a CT scan may not be necessary (if reflexes absent and patient has no symptoms of semicircular canal dehiscence syndrome and no other otologic history/ear trauma)
Begins to perform middle ear dissection	 For a patient with an asymmetric sensorineural hearing loss, orders magnetic resonance imaging (MRI) or an auditory brainstem response and distinguishes the limitations of each (poor sensitivity of auditory brainstem response in small tumors and the relevance of such findings in an older patient) In the operating room, elevates the annulus out of the tympanic sulcus, dissects the
Identifies normal and disease-relevant anatomy on a magnetic resonance imaging (MRI)	 Identifies presence of fluid in the cochlea, vestibular schwannomas and meningiomas in the internal auditory canal/cerebellopontine angle (CPA), and a cochlear nerve/nerves of the internal auditory canal on a sagittal section of an MRI (as performed prior to some cochlear implants)
Level 4 Explains the risks, benefits, and alternatives of medical and surgical interventions for ear disease and/or hearing loss	• Discusses the risks and benefits of wearing versus not wearing a hearing aid in presbycusis; discusses ways to manage chronic ear disease including cholesteatoma with respect to controlling draining, preventing complications, surgical reconstruction of the ossicular chain for auditory rehabilitation, implantable bone anchored devices, and various hearing aids
Dissects middle ear structures, performs a facial recess approach, and performs an ossicular reconstruction and cholesteatoma dissection	• Curettes the scutum without injuring the chorda tympani nerve, separates the incudostapedial joint, lasers/breaks off the stapedial suprastructure, removes an incus remnant in chronic ear disease, identifies and avoids the facial nerve before entering the middle ear for a facial recess approach, and performs a cochleostomy and/or drill the round window overhang/remove the round window membrane
Interprets specialized audiometric and vestibular testing	 Interprets a videonystagmography, vestibular evoked myogenic potential, auditory brainstem response, and otoacoustic emission testing
Level 5 Adapts standard treatment plans and interventions to special circumstances	Uses an obliteration of the ear canal as an option in a child with a significant developmental delay and chronically draining ear

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	• Suggests a cochlear implant may be indicated urgently for a six-month-old patient who is recovering from meningitis
Skeletonizes facial nerve, sigmoid sinus, and	
dura, and begins to perform lateral temporal bone resection	• Fully skeletonizes the facial nerve, such as in temporal bone resections or facial nerve decompression from trauma or tumor; skeletonizes dura such as for a translabyrinthine approach or in a contracted mastoid; performs a labyrinthectomy and begin skeletonizing the internal auditory canal
Leads an otology patient care conference	
	 Leads a multidisciplinary and interdisciplinary conference for patients with internal auditory canal/CPA tumors, temporal bone and ear tumors, vestibular disorders, or cochlear implant conference
Assessment Models or Tools	Checklist evaluation of live or recorded performance
	Direct observation
	• OSCE
	Record review
	Reflection
	Simulations and models
	Standardized oral examination
	Standardized patient examination
Curriculum Mapping	•
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. Mowry SE, Woodson E, Gubbels S, Carfrae M, Hansen MR. A simple assessment tool for evaluation of cadaveric temporal bone dissection. <i>Laryngoscope</i>. 2018;128(2):451-455. <u>https://onlinelibrary.wiley.com/doi/abs/10.1002/lary.26578</u>. 2021.

Patient Care 5: Rhinologic Disease Overall Intent: To safely and effectively diagnose and treat rhinologic disease, using both medical and surgical management

Milestones	Examples
Level 1 Performs a history and physical	Performs routine peri-operative care including nasal endoscopy, topical decongestant
examination in a patient with rhinologic disease	Performs routine sinus care (maxillary, ethmoid, sphenoid)
	Performs routine epistaxis management
Assists with routine perioperative care for patients with rhinologic disease	• Understands the importance of identifying high-risk patients (neoplasm, skull base defect, cerebrospinal fluid rhinorrhea, impending suppurative complications) and differentiates from routine low-risk disease (chronic rhinosinusitis with polyps, recurrent acute rhinosinusitis)
Recognizes common complications associated with rhinologic disease	Recognizes periorbital cellulitis, orbital cellulitis, and epistaxis
Level 2 Formulates a diagnostic and treatment plan for a patient with rhinologic disease	 Creates a diagnostic and treatment plan including history, physical examination, and judicious use of imaging and endoscopy; treatment plan includes both medical and surgical management
	 Knows diagnostic definitions of sinusitis subtypes (chronic rhinosinusitis with polyps, chronic rhinosinusitis without polyps, recurrent acute rhinosinusitis, acute bacterial rhinosinusitis)
Provides routine perioperative care for patients with rhinologic disease	• Identifies high-risk patients (neoplasm, skull base defect, cerebrospinal fluid rhinorrhea, impending suppurative complications, etc.) and differentiates from low-risk patients
Initiates work-up of common complications associated with rhinologic disease	Identifies indications for CT
Level 3 Explains the risks and benefits of	Knows a unilateral nasal mass is cause for concern
treatment plans for rhinologic disease	 Identifies risks including surgical risks and those of commonly used medications (e.g., steroids)
	 Identifies that benefits of surgery include limitations (e.g., surgery does not cure sinusitis)
	Discusses risks relating to surgical complications and risks of continuing to observe
	 Identifies high-risk conditions: neoplasm, skull base defect, cerebrospinal fluid rhinorrhea, impending suppurative complications
	Identifies low-risk conditions: chronic rhinosinusitis with polyps, chronic rhinosinusitis
Assists with routing surgical management for	without polyps, recurrent acute rhinosinusitis, acute sinusitis
Assists with routine surgical management for patients with rhinologic disease	
	Assists with maxillary, ethmoid, and sphenoid surgery

Manages common complications and recognizes uncommon/infrequent complications associated with rhinologic disease Level 4 Identifies when typical treatment plans	 Manages periorbital cellulitis, orbital cellulitis, and epistaxis Recognizes meningitis, cavernous sinus thrombosis, and cerebrospinal fluid rhinorrhea Identifies modifications to medical therapy when first-line treatments are not successful
should be modified	• Identifies modifications to medical therapy when first-line treatments are not successful
Performs routine surgical management and	 Assists with frontal and revision sinus surgery
assists with complex surgical management for patients with rhinologic disease	 Performs maxillary, ethmoid, and sphenoid surgery
Manages uncommon/infrequent complications associated with rhinologic disease	Manages meningitis, cavernous sinus thrombosis, and cerebrospinal fluid rhinorrhea
Level 5 Adapts standard treatment plans and	Performs surgery in the setting of orbital exposure or skull base erosion
techniques to special circumstances	 Manages a patient with aspirin exacerbated respiratory disease (AERD)
Performs complex surgical management for patients with rhinologic disease	Performs frontal and revision sinus surgery
Serves as a peer resource for managing uncommon/infrequent complications associated with rhinologic disease	• Teaches more junior residents to manage meningitis, cavernous sinus thrombosis, and cerebrospinal fluid rhinorrhea
Assessment Models or Tools	Checklist evaluation of performance
	Direct observation
Curriculum Mapping	•
Notes or Resources	American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u> . 2021.

conditions or disease, using both medical and surgical management	
Milestones	Examples
Level 1 Performs a history and physical examination in patients with laryngologic disease	 Obtains a history and physical exam for a patient with hoarseness; identifies risk factors and determines what additional work-up is needed
Assists with routine perioperative care for patients with laryngologic disease	• Evaluates for post-operative airway concerns
Recognizes common complications associated with laryngologic disease	 Identifies neck hematoma
Level 2 Formulates a diagnostic and treatment plan for a patient with laryngologic disease	Creates initial working diagnosis and treatment plan for voice complaint including incorporation of speech therapy in plan
Provides routine perioperative care for patients with laryngologic disease, including both direct and indirect laryngoscopy	 Describes appropriate anti-coagulation bridging in the peri-operative phase
Initiates work-up of common complications associated with laryngologic disease	Initiates evaluation of airway edema
Level 3 Explains the risks and benefits of treatment plans for laryngologic disease	 Performs pre-operative counseling for operative management of benign vocal cord lesion such as vocal fold cyst including a discussion of possible perioperative and post-operative complications
Assists with routine surgical management for patients with laryngologic disease, including direct laryngoscopy, microlaryngeal techniques, and vocal fold injections	 Assists with set-up for and approach to removal of benign vocal cord lesion
Manages common complications and recognizes uncommon/infrequent complications associated with laryngologic disease	 Recognizes uncommon complication of pneumothorax
Level 4 Identifies when typical treatment plans should be modified	 Identifies special patient populations including professional voice patients, high-risk surgical patients, or other specific patient populations as appropriate to the institution

Patient Care 6: Laryngologic Disease Overall Intent: To safely and effectively diagnose and treat the range of laryngologic conditions including voice, neoplastic, and pediatric

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Performs routine surgical management and assists with complex surgical management for patients with laryngologic disease	 Performs elevation of laryngeal microflap 	
Manages uncommon/infrequent complications associated with laryngologic disease	 Manages pneumothorax in conjunction with consulting services 	
Level 5 Adapts standard treatment plans and techniques to special circumstances	 Describes changes to proposed management plans in the setting of professional voice, high surgical risk, or other patient populations as appropriate to the institution 	
Performs complex surgical management for patients with laryngologic disease, including laryngotracheal reconstruction and arytenoid procedures	• Performs cricotracheal resection	
Serves as a peer resource for managing uncommon/infrequent complications associated with laryngologic disease	 Teaches more junior residents about management of pneumothorax 	
Assessment Models or Tools	Direct observationOSCE	
	Simulation	
Curriculum Mapping	•	
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. Rosen CA, Simpson CB. <i>Operative Techniques in Laryngology</i>. Springer, 2008. ISBN:978-3540258063. 	

Overall Intent: To evaluate and manage otolaryngologic disorders safely and effectively in children, taking into account the effect of	
developmental stage, congenital and genetic disorders, and family/caregiver concerns and values in their care	
Milestones	Examples
Level 1 Performs an age-appropriate history and physical examination with developmental assessment	 Gathers age-appropriate history including gestational age at birth, assessment of developmental milestones (gross motor, speech-language), history of hearing screening tests (newborn, preschool, primary care physician- or school-based), or educational achievement or special education
Assists with pediatric otolaryngology procedures	 Assists with open pediatrics procedures: neck cysts, thyroid disease, tracheotomy, but does not include endoscopic airway or tonsillectomy
Provides routine peri-operative care for pediatric otolaryngology procedures	 Performs pre-operative history and physical and post-operatively checks for bleeding, pain, airway distress, and drainage
Level 2 Formulates a diagnostic and treatment plan for a pediatric patient	 Uses Clinical Practice Guidelines from the American Society of Pediatric Otolaryngology to recommend common pediatric procedures like tympanostomy tubes and tonsillectomy
Performs routine pediatric procedures on typical patients (e.g., ear tube placement, tonsillectomy, adenoidectomy)	 Identifies situations where sedation may improve the quality of care of the patient, such as CT/MRI, repair of lacerations, or auditory brainstem response testing
Recognizes and initiates work-up of routine complications of treatment	 Recognizes routine complications such as post-tonsillectomy bleeding, post-operative wound infection
Level 3 Explains the risks and benefits of pediatric procedures; adapts diagnoses to age- related variations	• Explains risks and benefits of common pediatric procedures: congenital cyst excisions, direct laryngoscopy with rigid bronchoscopy, removal of foreign bodies, repair of lacerations and facial bony trauma, tonsillectomy and adenoidectomy, tympanostomy tubes, tympanoplasty or tympanomastoidectomy
Performs routine pediatric procedures on atypical patients (e.g., syndromic), and airway and soft tissue pediatric otolaryngology procedures (e.g., bronchoscopy, branchial cleft excision)	 Performs routine pediatric procedures on atypical patients including children with Down syndrome, craniofacial syndromes, morbid obesity, and/or skeletal dysplasia
Manages routine complications and recognizes	 Manages post-tonsillectomy bleeding and post-operative wound infection
complex complications of treatment	Recognizes recurrences after thyroglossal duct excision

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Level 4 Adapts standard treatment plans to special circumstances (e.g., syndromic children and infants)	Adapts standard treatment plans to special circumstances including children with syndromes, genetic disorders, prematurity, or neurodevelopmental delay
Performs airway and soft tissue pediatric procedures; assists with complex pediatric procedures	 Performs airway and soft tissue procedures that include tracheotomy, direct laryngoscopy with rigid bronchoscopy with other endoscopic procedures (e.g., balloon dilation, removal of airway foreign bodies), excision of congenital cysts, and repair of lacerations Assists with complex pediatric procedures including ex-utero intrapartum treatment procedures, laryngotracheal reconstructions, revision tympanomastoidectomy, and repair of facial trauma
Manages uncommon complications of treatment	Manages recurrences after thyroglossal duct excision
Level 5 Actively participates in discussion at an interdisciplinary pediatric case conference or specialty clinic	 Actively participates in interdisciplinary pediatric care conferences that may include: cleft/craniofacial, aerodigestive, cochlear implant, fetal care, long-term home ventilation, palliative care, sleep, vascular anomalies, care of children with specific genetic syndromes (e.g., Down syndrome, chromosome 22q11 deletion)
Performs complex pediatric otolaryngology procedures	 Performs Complex pediatric procedures include ex-utero intrapartum treatment procedures, laryngotracheal reconstructions, revision tympanomastoidectomy for cholesteatoma, repair of facial trauma
Serves as a peer resource for managing uncommon/infrequent complications associated with pediatric procedures	 Teaches more junior residents how to manage recurrences after thyroglossal duct excision
Assessment Models or Tools	 Direct observation ENT Boot Camps Record review Simulation
Curriculum Mapping	•
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. American Society of Pediatric Otolaryngology (ASPO). Clinical Practice Guidelines. <u>https://aspo.us/page/readinglist</u>. 2021.

 Patient Care 8: Facial Plastic and Reconstructive Surgery

 Overall Intent: To accurately assess patient with an aesthetic or functional defect, determine treatment plan, and execute surgical operation

Milestones	Examples
Level 1 Performs a history and physical examination in patients with aesthetic/functional concerns	Obtains pertinent history regarding symptoms or concerns
Assists with routine peri-operative care for patients receiving head and neck aesthetic/functional surgery	• Executes plan developed by attending or more senior resident
Recognizes common complications	 Explains saddle nose deformity and why it occurs
Level 2 Formulates a diagnostic and treatment plan for a patient with aesthetic/functional concerns	Describes correct anti-coagulation bridging in the peri-operative phase
Provides routine peri-operative care for patients receiving head and neck aesthetic/functional surgery	• Explains different uses for cosmetic fillers
Initiates work-up of common complications	Assesses for a septal hematoma
Level 3 Explains the risks and benefits of treatment plans for aesthetic/functional surgery	Obtains informed consent
Assists with routine surgical management for head and neck aesthetic/functional surgery	 Assists with the steps of the operation/treatment
Manages common complications and recognizes uncommon/infrequent complications	Manages a septal hematoma
Level 4 Identifies best treatment plan to address patient concerns	 Recommends appropriate surgery or non-surgical aesthetic treatment
Performs routine surgical management for patients requiring head and neck aesthetic/functional surgery	• Performs functional rhinoplasty
Manages uncommon/infrequent complications	Manages tip ptosis

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Level 5 Adapts standard treatment plans and	
	 Knows how to approach revision surgery
techniques to special circumstances	
Performs operative management of complex	Performs pectoralis myocutaneous flap
head and neck aesthetic/functional surgery	
5,	
Serves as a peer resource for managing	- Topohoo more junior regidente hew to reconstruct a phorungeal defect
uncommon/infrequent complications	 Teaches more junior residents how to reconstruct a pharyngeal defect
Assessment Models or Tools	Checklist evaluation of live or recorded performance
	Direct observation
	• OSCE
	Record review
	Reflection
	 Simulations and models
	Standardized oral examination
	Standardized Patient Examination
Curriculum Mapping	•
Notes or Resources	• American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u> . 2021.

 Patience Care 9: Sleep

 Overall Intent: To accurately identify, evaluate and manage patients with sleep disorders

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Milestones	Examples
Level 1 Performs a history and physical	 Performs a history and physical and identifies sleep related signs and symptoms
examination in a patient with sleep concerns	Identifies "at-risk" patient in need of more immediate attention (e.g., tracheostomy)
Assists with routine peri-operative care for sleep	Orders a sleep study
surgery patients	
Recognizes common complications of sleep	Recognizes neck hematoma and intolerance of continuous positive airway pressure
surgery and sleep disorders	(CPAP)
Level 2 Formulates a diagnostic and treatment	 Understands that there are different levels of sleep studies
plan for a patient with sleep concerns	Interprets a sleep study report
Provides routine peri-operative care for sleep	a Identifies a notiont that would benefit from clean surgery versus CDAD titration
surgery patients	 Identifies a patient that would benefit from sleep surgery versus CPAP titration
Initiates work-up of common complications	
associated with sleep surgery and sleep	
disorders	
Level 3 Explains the risks and benefits of	Performs routine surgical management of sleep disorders e.g., tonsillectomy
treatment plans for sleep disorders	
Assists with routine surgical management of	 Recognizes morbid obesity as contraindication to multiple sleep surgeries
sleep disorders	· · · · · · · · · · · · · · · · · · ·
Manages common complications and	Understands bleeding risk of various surgeries
recognizes uncommon/infrequent complications associated with sleep surgery and sleep	
disorders	
Level 4 Identifies when standard sleep	Appropriately refers patient for bariatric surgery
interventions should be modified	
Performs common surgical management of	Performs lingual tonsillectomy, midline posterior glossectomy, palate suspension,
sleep disorders	pharyngoplasty

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Manages uncommon/infrequent complications associated with sleep surgery and sleep	Manages velopharyngeal insufficiency
disorders	
Level 5 Adapts standard treatment plans for	Considers comorbidities of neurologic disorders
sleep disorders to individual circumstances	 Identifies criteria for hypoglossal nerve stimulator placement
Performs complex surgical management of sleep disorders	Performs hypoglossal nerve stimulator or hyoid sling
Serves as a peer resource for managing uncommon/infrequent complications	• Teaches more junior residents how to manage velopharyngeal insufficiency
Assessment Models or Tools	Direct observation
	• OSCE
	Simulation
Curriculum Mapping	•
Notes or Resources	• American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u> . 2021.

Medica	Knowledge 1: An	atomy
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Overall Intent: To develop knowledge of surgically and pathophysiologic relevant anatomy to safely and effectively diagnose and treat	t
otolaryngology — head and neck surgery patients	

Milestones	Examples
Level 1 Identifies normal anatomy during common operations	 Recognizes common operations including tonsillectomy, adenoidectomy, myringoplasty, and direct laryngoscopy
Articulates the steps of common operations	
Level 2 Identifies variations in anatomy during common operations	 Recognizes submucosal clefting or bifid uvula while performing tonsillectomy and adenoidectomy
Articulates the implications of varying anatomy on the steps of common operations	 Describes the implications of non-recurrent laryngeal nerve on performance of thyroidectomy
Level 3 Identifies normal anatomy during complex operations	• Recognizes complex operations such as tympanomastoidectomy, flap harvest and reconstruction, endoscopic sinus procedures, neck dissections, facial trauma repair, and thyroidectomy
Articulates the steps of complex operations	
Level 4 Identifies variations in anatomy during complex operations	 Describes anatomic variation in temporal bone anatomy and the impact on the surgical approach and view
Articulates the implications of varying anatomy on the steps of complex operations	• Describes oncologic resection based on tumor size/location and the options available for repair of the defect based on the anatomy impacted
Level 5 Leads anatomy instruction for students and co-residents	 Teaches surgical approaches in anatomy lab for specific procedures
Teaches complex variations of anatomy and implications for surgical approaches	Leads case-based teaching sessions with surgical anatomy topics
Assessment Models or Tools	Cadaver or similar labs
	Direct observation
Curriculum Mapping	•
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. Netter FH. <i>Atlas of Human Anatomy</i>. 7th Edition. Philadelphia, PA: Elsevier; 2018. ISBN:978-0323393225

Medical Knowledge 2: Allergy Overall Intent: To develop knowledge of the evaluation and management of patients with allergic disease

Milastanas		
Milestones	Examples	
Level 1 Demonstrates knowledge of allergic hypersensitivity and resulting clinical manifestations	 Understands common clinical manifestations of atopic disease including rhinorrhea, ocular symptoms, and dermatologic sensitivity 	
Explains common clinical manifestations of hypersensitivity and allergic disease	Understands the immunologic principles underlying allergic sensitization and reaction	
Describes the potential severity of severe allergic responses	Knows that potential severity includes anaphylaxis	
Level 2 Discusses pathophysiology of immunoglobulin E (IgE) –mediated	 Understands immunology underlying allergic sensitization, antigen recognition, and degranulation 	
hypersensitivity and roles of exposure and sensitization	 Understands early-phase and late-phase response 	
Explains common complications and comorbid conditions associated with allergic disease	• Describes comorbid conditions including asthma, airway remodeling, and implication of the allergic march	
Demonstrates knowledge of risk factors associated with systemic reaction to allergen exposure	• Lists risk factors for systemic reaction such as beta-blocker, uncontrolled asthma, and active upper airway infection	
Level 3 Demonstrates knowledge of interventions, including avoidance, pharmacotherapy, and antigen-specific immunotherapy	 Understands interventions including avoidance, topical nasal steroids, oral antihistamines, topical antihistamines, and leukotriene inhibitors 	
Articulates a treatment plan for clinical manifestations of allergic rhinitis	 Initiates treatment with antigen-specific immunotherapy such as antigen selection, initiating dose, escalation, or maintenance dosing 	
Describes the early signs of anaphylaxis and/or systemic reaction	• Lists early signs of anaphylaxis such as pruritis, urticaria, flushing, tachycardia, wheezing, shortness of breath, hypotension, and/or sense of doom	
Level 4 Interprets data from allergy in-vitro or skin testing	• Recognizes basic interventions and treatment of anaphylaxis including epinephrine, IV access, and/or airway management (Note: the only intervention with direct correlation to survival is early use of epinephrine; this is a critical threshold)	

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Determines appropriateness of antigen-specific	• Determines if and when to use antigen-specific immunotherapy noting indications for
immunotherapy	testing, methods of testing, and interpretation of results
	 Understands the contraindications to immunotherapy such as known anaphylaxis and beta-blockers
Describes the basic intervention and treatment	 Initiates use of antigen-specific immunotherapy (antigen selection, initiating dose,
of anaphylaxis	escalation, maintenance, duration of therapy)
Level 5 Reliably resolves discrepancies	• Understands advanced treatment of anaphylaxis including glucagon for patients on beta-
between testing results and clinical findings	blockers, antihistamines (H1, H2), bronchodilators, glucocorticoids, treatment of late phase response, vasopressin, etc.
	• Troubleshoots inadequate response to immunotherapy and determines need for retesting
Synthesizes data to modify testing strategies	 Implements changes in immunotherapy based upon interval testing
and treatment for difficult/high-risk patients	
Describes advanced treatment of anaphylaxis	- Evaluates legal respiring to immunotherapy
	Evaluates local reactions to immunotherapy
Assessment Models or Tools	Direct observation
	Otolaryngology training exam (i.e., in-service scores)
Curriculum Mapping	•
Notes or Resources	American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u> . 2021.

 Medical Knowledge 3: Pathophysiology

 Overall Intent: To understand normal physiology and pathophysiology to provide effective patient care

Milestones	Examples
Level 1 Demonstrates knowledge of normal physiology, pathophysiology, and clinical findings for otolaryngologic conditions routinely managed by non-otolaryngologists	 Relates basics of Eustachian tube function and sequelae of dysfunction (e.g., otitis media) Recalls mucociliary clearance mechanism in paranasal sinuses and sequelae of dysfunction (e.g., sinusitis)
Level 2 Demonstrates basic knowledge of pathophysiology and clinical findings for common otolaryngologic conditions	 Describes the pathophysiology and typical clinical findings for conditions routinely encountered (e.g., sensorineural hearing loss, chronic sinusitis)
Level 3 Demonstrates advanced knowledge of pathophysiology and clinical findings for commonly encountered otolaryngologic conditions	 Describes in detail the pathophysiology and clinical findings for conditions routinely encountered (e.g., sensorineural hearing loss, chronic sinusitis) Labels subtypes of disease and associated findings (e.g., delineates chronic rhinosinusitis with or without polyps and allergic fungal sinusitis)
Level 4 Demonstrates knowledge of pathophysiology and clinical findings for uncommon otolaryngologic conditions	• Describes the pathophysiology and clinical findings for conditions infrequently encountered (e.g., auditory neuropathy spectrum disorder, immotile cilia syndrome)
Level 5 Contributes new knowledge for pathophysiology and clinical findings for otolaryngologic conditions (e.g., publication, curriculum development)	 Publishes original research related to pathophysiology in otolaryngology Develops curricula to teach primary care physicians about otolaryngologic conditions
Assessment Models or Tools	 Direct observation Otolaryngology training exam (i.e., in-service scores)
Curriculum Mapping	•
Notes or Resources	 American Academy of Otolaryngology. OTOSource. <u>https://www.otosource.org/</u>. 2021. American Board of Otolaryngology. Head and Neck Surgery Exam Blueprints and Guidelines. <u>https://www.aboto.org/pdf/Exam%20blueprints.pdf</u>. 2021.

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Overall Intent: To engage in the analysis and management of patient safety events, including relevant communication with patients, families, and health care professionals; to conduct a QI project

amilies, and realth care professionals, to condu	
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 lack of hand sanitizer dispenser at each clinical exam room may lead to increased infection rates
Reports patient safety events through institutional reporting systems (simulated or actual)	 Reports lack of hand sanitizer dispenser at each clinical exam room to the medical director
Describes local quality improvement initiatives	• Summarizes protocols resulting in decreased spread of hospital acquired <i>C. diff</i>
Level 3 Participates in analysis of patient safety events (simulated or actual)	Participates in morbidity and mortality conference
Participates in disclosure of patient safety events to patients and families (simulated or actual)	 Participates in a family discussion regarding a patient safety events
Participates in local quality improvement initiatives	Participates in project identifying root cause of patient flow delays
Level 4 Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	• Collaborates with a team to conduct the analysis of medication administration errors and can effectively communicate with patients/families about those events
Discloses patient safety events to patients and families (simulated or actual)	• Participates in the completion of a QI project to improve human papillomavirus (HPV) vaccination rates within the practice, including assessing the problem, articulating a broad goal, developing a SMART (Specific, Measurable, Attainable, Realistic, Time-bound) objective plan, and monitoring progress and challenges

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Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	
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 county HPV vaccination rates 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 of Healthcare Improvement. <u>http://www.ihi.org/Pages/default.aspx</u> . 2021.

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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-quality patient outcomes

Milestones	Examples
Level 1 Demonstrates knowledge of care coordination	• For a patient with oropharyngeal cancer, identifies medical and radiation oncologist, speech therapist, home health nurse, and social workers as members of the team
Identifies key elements for safe and effective transitions of care and hand-offs	• Lists the essential components of a standardized sign-out tool for care transition and hand-offs
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 effectively using the roles of the interprofessional teams	• Coordinates care with radiation oncology at the time of discharge from the hospital
Performs safe and effective transitions of care/hand-offs in routine clinical situations	• Routinely uses a standardized sign-out tool for a stable patient during night float sign-out
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 chemotherapy or radiation therapy appointments
Level 3 Coordinates care of patients in complex clinical situations effectively using the roles of their interprofessional teams	 Works with the social worker to coordinate care for a homeless patient that will ensure follow-up to a radiation oncology after discharge from the hospital
Performs safe and effective transitions of care/hand-offs in complex clinical situations	• Routinely uses a standardized sign-out tool when transferring a patient to the intensive care unit (ICU)
Uses local resources effectively to meet the needs of a patient population and community	 Refers patients to a local pharmacy which provides a sliding fee scale option and prints pharmacy coupons for patients in need
Level 4 Role models effective coordination of patient-centered care among different disciplines and specialties	 During inpatient rotations, leads team members in approaching consultants to review cases/recommendations and arranges radiology rounds for the team
Role models and advocates for safe and effective transitions of care/hand-offs within and	• Prior to going on vacation, proactively informs the covering resident about a plan of care for a post-operative thyroidectomy patient with transient hypocalcemia being treated as an outpatient for interval parathyroid hormone or calcium level checks

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across health care delivery systems including outpatient settings	
Participates in changing and adapting practice to provide for the needs of specific populations	 Assists to design post-operative pain management protocols for prescribing standard regimens to patients to reduce variations in opioid prescribing habits
Level 5 Analyzes the process of care coordination and leads in the design and implementation of improvements	 Leads a program to create standardized tracheostomy teaching for family members of pediatric airway patients.
Improves quality of transitions of care within and across health care delivery systems to optimize patient outcomes	 Develops a protocol to improve transitions to long term care facilities
Leads innovations and advocates for populations and communities with health care inequities	Leads development of telehealth diagnostic services for a rural ENT clinic
Assessment Models or Tools	Direct observation
	Medical record (chart) audit
	Multisource feedback
	 OSCE Quality metrics and goals mined from electronic health records (EHR)
	 Review of sign-out tools, use and review of checklists
Curriculum Mapping	•
Notes or Resources	• CDC. Population Health Training. <u>https://www.cdc.gov/pophealthtraining/whatis.html</u> .
	2021.
	 Skochelak SE, Hawkins RE, Lawson LE, Starr SR, Borkan J, Gonzalo JD. <i>Health</i> Systems Science. 1st ed. Philadelphia, PA: Elsevier; 2016. ISBN:9780702070372.

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Overall Intent: To understand the physician's role in the complex health care system and how to optimize the system to improve patient care and the health system's performance	
Milestones	Examples
Level 1 Identifies key components of the complex health care system (e.g., hospital, skilled nursing facility, finance, personnel, technology)	 Articulates differences between skilled nursing and long-term care facilities
Describes basic health payment systems, including government, private, public, uninsured care, and practice models	 Understands the impact of health plan coverage on prescription drugs for individual patients
Identifies basic knowledge domains for effective transition to practice (e.g., information technology, legal, billing and coding, financial, personnel)	 Identifies that notes must meet coding requirements
Level 2 Describes how components of a complex health care system are interrelated, and how this impacts patient care	 Explains improving patient satisfaction impacts patient adherence and payment to the health system
Delivers care with consideration of each patient's payment model (e.g., insurance type)	• Takes into consideration patient's prescription drug coverage when choosing an allergy regimen for chronic rhinitis
Describes core administrative knowledge needed for transition to practice (e.g., contract negotiations, malpractice insurance, government regulation, compliance)	 Recognizes that appropriate documentation can influence the severity of illness determination upon discharge
Level 3 Discusses how individual practice affects the broader system (e.g., length of stay, readmission rates, clinical efficiency)	 Ensures that patient comorbidities are addressed at time of discharge to reduce readmission rate
Engages with patients in shared decision making, informed by each patient's payment models	 Discusses risks and benefit of repeat surveillance thyroid ultrasound in the setting of multinodular goiter or previous benign fine needle aspiration findings
Demonstrates use of information technology required for medical practice (e.g., electronic	Understands the core elements of insurance deductibles

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 Ensures proper documentation of three-day qualifying hospital stay prior to discharging a patient to a skilled nursing facility for physical therapy
 Works collaboratively to improve patient assistance resources for a patient with tracheostomy and limited resources
Proactively compiles procedure log in anticipation of applying for hospital privileges
 Works with community or professional organizations to advocate for no smoking ordinances
 Improves informed consent process for non-English-speaking patients requiring interpreter services
Direct observation Medical record (abort) cudit
Medical record (chart) audit
Patient satisfaction data
Portfolio
•
Agency for Healthcare Research and Quality (AHRQ). Measuring the Quality of Physician Care. https://www.ahrq.gov/professionals/quality-patient-
safety/talkingquality/create/physician/challenges.html. 2021.
 AHRQ. Major Physician Measurement Sets: <u>https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/measurementsets.html</u>. 2021.
The Commonwealth Fund. Health System Data Center.
https://datacenter.commonwealthfund.org/#ind=1/sc=1. 2021.
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https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-academy- of-medicine-initiative/. 2021.

The Kaiser Family Foundation. <u>www.kff.org</u> . 2021.
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<u>reform/</u> . 2021.

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 available	 Identifies evidence-based guidelines for acute sinusitis from American Academy of
evidence, and incorporate patient preferences	Otolaryngology – Head and Neck Surgery (AAO-HNSF)
and values to take care of a routine patient	
Level 2 Articulates clinical questions and elicits	 In a patient with subacute sinusitis, appropriately selects antibiotic regimen
patient preferences and values to guide	
evidence-based care	
Level 3 Locates and applies the best available	Obtains, discusses, and applies evidence for the treatment of a patient with chronic
evidence, integrated with patient preference, to	sinusitis and multiple medication allergies
the care of complex patients	Understands and appropriately uses clinical practice guidelines in guiding decisions for
	surgical intervention while eliciting patient preferences
Level 4 Critically appraises and applies	• Evaluates the primary literature to identify biologic and topical treatments for refractory
evidence even in the face of uncertainty and	sinus disease
conflicting evidence to guide care to the	
individual patient	
Level 5 Coaches others to critically appraise and apply evidence for complex patients; and/or	Leads clinical teaching on application of best practices in critical appraisal of balloon
participates in the development of guidelines	sinuplasty criteria
Assessment Models or Tools	Direct observation
	Oral or written examinations
	Presentation evaluation
	Research portfolio
Curriculum Mapping	
Notes or Resources	•
	Institutional IRB guidelines National Institutes of Health, Write Your Application, https://grants.nih.gov/grants/how.to
	 National Institutes of Health. Write Your Application. <u>https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/write-your-application.htm</u>. 2021.
	• U.S. National Library of Medicine. PubMed Tutorial.
	 b.s. National Library of Medicine. Publied Tutonal. https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html. 2021.
	 Various journal submission guidelines

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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; reflects on all domains of practice, personal interactions, and behaviors, and their impact on colleagues and patients (reflective mindfulness); develop clear objectives and goals for improvement in some form of a learning plan	
Milestones	Examples
Level 1 Accepts responsibility for personal and professional development by establishing goals	Sets a personal practice goal of documenting appropriate American Joint Committee on Cancer (AJCC) oropharyngeal cancer staging
Identifies the factors which contribute to gap(s) between expectations and actual performance	 Identifies gaps in knowledge of AJCC oropharyngeal cancer staging
Actively seeks opportunities to improve	 Asks for feedback from patients, families, and patient care team members
Level 2 Demonstrates openness to performance data (feedback and other input) to inform goals	 Integrates feedback to adjust the documentation of AJCC oropharyngeal cancer staging
Analyzes and reflects on the factors which contribute to gap(s) between expectations and actual performance	 Assesses time management skills and how they impact timely completion of clinic notes and literature reviews
Designs and implements a learning plan, with prompting	 When prompted, develops individual education plan to improve their evaluation of oropharyngeal cancer
Level 3 Seeks performance data episodically, with adaptability	 Conducts a chart audit to determine the percent of patients with accurate oropharyngeal cancer staging
Analyzes, reflects on, and institutes behavioral change(s) to narrow the gap(s) between expectations and actual performance	 Completes a comprehensive literature review to address gaps in knowledge in pharmacology
Independently creates and implements a learning plan	 Using web-based resources, creates a personal curriculum to improve personal evaluation of oropharyngeal cancer
Level 4 Intentionally seeks performance data consistently with adaptability	 Completes a quarterly chart audit to ensure documentation of the appropriate AJCC staging for oropharyngeal cancer
Challenges assumptions and considers alternatives in narrowing the gap(s) between expectations and actual performance	• After patient encounter, debriefs with the attending and other patient care team members to optimize future collaboration in the care of the patient and family

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 Performs a chart audit on personal documentation of their evaluation of oropharyngeal cancer 	
 Models practice improvement and adaptability 	
• Develops educational module for collaboration with other patient care team members	
Assists first-year residents in developing individualized learning plans	
Direct observation	
Review of learning plan	
•	
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Practice-based learning and improvement. <i>Acad Pediatr.</i> 2014;14:S38-S54.	
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residents' written learning goals and goal writing skill: validity evidence for the learning	
goal scoring rubric. Academic Medicine. 2013;88(10):1558-1563.	
https://journals.lww.com/academicmedicine/fulltext/2013/10000/Assessing Residents W	
ritten Learning Goals and 39.aspx. 2021.	

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	 Identifies fatigue as a potential cause for a lapse in professionalism
Demonstrates knowledge of the ethical principles underlying patient care, including	 Understands being late to sign-out has adverse effect on patient care and on professional relationships
informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship of limited resources, and related topics	 Articulates how the principle of "do no harm" applies to a patient who may not need a central line even though the training opportunity exists
Level 2 Demonstrates insight into professional behavior in routine situations and	 Respectfully approaches a resident who is late to sign-out about the importance of being on time
how to appropriately report professionalism lapses	 Notifies appropriate supervisor when a resident is routinely late to sign-out
Analyzes straightforward situations using ethical principles	 Identifies and applies ethical principles involved in informed consent when the resident is unclear of all the risks
Level 3 Demonstrates professional behavior in complex or stressful situations	 Appropriately responds to a distraught family member following an unsuccessful resuscitation attempt of a relative
Analyzes complex situations using ethical principles and recognizes need to seek help in managing and recoluting complex othical	After noticing a colleague's inappropriate social media post, reviews policies related to posting of content and seeks guidance
managing and resolving complex ethical situations	 Offers treatment options for a terminally ill patient, while recognizing own limitations, and consistently honoring the patient's choice
Level 4 Recognizes situations that may trigger	Actively considers the perspectives of others
professionalism lapses and intervenes to prevent lapses in self and others	 Models respect for patients and promotes the same from colleagues, when a patient has been waiting an excessively long time to be seen
Recognizes and uses appropriate resources for managing and resolving ethical dilemmas as needed	 Recognizes and uses ethics consults, literature, risk-management/legal counsel in order to resolve ethical dilemmas
Level 5 Coaches others when their behavior fails to meet professional expectations	Coaches others when their behavior fails to meet professional expectations and creates a performance improvement plan to prevent recurrence

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Identifies and seeks to address system-level factors that induce or exacerbate ethical problems or impede their resolution Assessment Models or Tools	 Engages stakeholders to address excessive wait times in the clinic to decrease patient and provider frustrations that lead to unprofessional behavior Direct observation
	 Global evaluation Multisource feedback Oral or written self-reflection Simulation
Curriculum Mapping	•
Notes or Resources	 American Medical Association. Ethics. <u>https://www.ama-assn.org/delivering-care/ama-code-medical-ethics. 2021</u>. ABIM Foundation. American Board of Internal Medicine. Medical professionalism in the new millennium: a physician charter. <i>Annals of Internal Medicine</i>. 2002;136(3):243-246. <u>https://annals.org/aim/fullarticle/474090/medical-professionalism-new-millennium-physician-charter</u>. 2021. Bynny RL, Paauw DS, Papadakis MA, Pfeil S, Alpha Omega Alpha. <i>Medical Professionalism Best Practices: Professionalism in the Modern Era</i>. Menlo Park, CA: Alpha Omega Alpha Honor Society; 2017. <u>https://alphaomegaalpha.org/pdfs/Monograph2018.pdf</u>. 2021. Levinson W, Ginsburg S, Hafferty FW, Lucey CR. <i>Understanding Medical Professionalism</i>. 1st ed. New York, NY: McGraw-Hill Education; 2014. <u>https://accessmedicine.mhmedical.com/book.aspx?bookID=1058</u>. 2021.

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

Milestanas Examples		
Milestones	Examples	
Level 1 Takes responsibility for failure to complete tasks and responsibilities, identifies potential contributing factors, and describes	 Responds to pages and emails in a timely fashion 	
strategies for ensuring timely task completion in the future		
Responds promptly to requests or reminders to complete tasks and responsibilities	 Responds promptly to reminders from program administrator to complete work hour logs Has timely attendance at conferences Completes pre-rounding lists 	
Level 2 Performs tasks and responsibilities in a		
timely manner with appropriate attention to detail in routine situations	 Completes administrative tasks, documents safety modules, procedure review, and licensing requirements by specified due date 	
Recognizes situations that may impact own ability to complete tasks and responsibilities in a timely manner	Before going out of town, completes tasks in anticipation of lack of computer access while traveling	
Level 3 Performs tasks and responsibilities in a timely manner with appropriate attention to detail in complex or stressful situations	 Notifies attending of multiple competing demands on call, appropriately triages tasks, and asks for assistance from other residents or faculty members as needed 	
Proactively implements strategies to ensure that the needs of patients, teams, and systems are met	• In preparation for being out of town, forwards patient care notifications to another resident	
Level 4 Recognizes situations that may impact others' ability to complete tasks and responsibilities in a timely manner	Takes responsibility for inadvertently omitting key patient information during sign-out	
Level 5 Leads system outcomes	 Sets up a meeting with the nurse manager to streamline patient discharges and leads team to find solutions to the problem 	
Assessment Models or Tools	Compliance with deadlines and timelines	
	Direct observation	
	Global evaluations	
	Multisource feedback	
	Self-evaluations and reflective tools	

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	Simulation
Curriculum Mapping	•
Notes or Resources	Code of conduct from fellow/resident institutional manual
	Expectations of residency program regarding accountability and professionalism

Professionalism 3: Knowledge of Systemic and Individual Factors of Well-Being

Overall Intent: To identify, use, manage, improve, or seek help for personal and professional growth within self and others

Milestones	Examples
Level 1 Recognizes the importance of getting help when needed to address personal and professional well-being	 After concerns are expressed by a program leader regarding well-being or burnout, is receptive to considering options for assistance When a concerned chief resident or supervising physician reaches out about possible burnout due to changes in their mood or professional function, acknowledges the expression of concern as a form of professional support
Level 2 Lists resources to support personal and professional well-being	 In annual advisor meeting, discusses institutional resources that support personal and professional well-being In setting goals for the next year, identifies and lists resources to help improve intraining exam scores and incorporates those resources into the learning plan
Recognizes that institutional factors affect well- being	 After completion of learning modules, can clearly articulate how institutional factors may impact resident well-being Identifies aspects of the clinical learning environment seem to impact personal well-being, including when having to work more than four nights in a row on night float Identifies "microaggressions" or bias as factors affecting learner well-being when the resident sees a medical student become disengaged after an encounter with the attending
Level 3 With prompting, reflects on how personal and professional well-being may impact one's clinical practice	 After hearing a speaker discuss physician well-being at a retreat, writes a brief reflection on the impact of well-being on own current and future practice of medicine After several months of a challenging schedule, responds to feedback from a nurse by recognizing that a recent patient interaction lacked necessary empathy, and seeks support and advice from the attending physician
Describes institutional factors that affect well- being	 At semiannual review, identifies specific institutional factors that positively or negatively affect personal well-being including lack of access to healthy food in the cafeteria and insufficient social work support for complex discharges Describes mistreatment and microaggressions committed by the interprofessional team and patients as negatively impacting well-being Identifies the need for additional mentorship to enhance personal and professional development after discussion with the associate program director reveals that initial career plans do not align with personal goals

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Develops action plans for job search prioritizing lifestyle and family goals
Prepares a robust board study schedule to minimize undue stress and anxiety
Recognizing increased anxiety when performing certain procedures, arranges practice sessions with the simulation lab
Proactively reaches out to program leadership for support when the resident grieves a personal loss of a family member, including requesting resources for psychological support
Identifies fear of leading codes as a "stress point" in education and seeks advice from an experienced physician
After snapping at a nurse after a stressful interaction with a patient, approaches nurse and apologizes; takes a few minutes to process the interaction with the patient with the care team
Participates in graduate medical education (GME) round table discussion on the experience of imposter syndrome particularly felt by women and black, indigenous, and people of color (BIPOC) learners in medicine and its association with burnout in residency and offers constructive feedback on mitigating burnout Gives feedback to program leadership on issues with identifying appropriate case managers to assist with patient discharge
Recommends schedule adjustments while on the medical intensive care unit rotation to improve compliance with clinical and educational work hours
Develops a plan that incorporates personal wellness goals for the next few months
Recognizes that an upcoming rotation in critical care may be emotionally draining, so schedules restorative activities on off days
When pandemic conditions limit options for communication and socialization with peers, actively explores new approaches such as telecommunication and distanced socializing to build and maintain relationships that offer peer emotional support When important future personal or religious events are anticipated, works with program leadership to develop a plan that balances personal and professional responsibilities
Leads a resident committee to address inefficiencies in the EHR
Advocates with hospital leadership as a Well-Being Committee leader to provide
educational interventions and mental health services to address experiences of shame during residency education
Direct observation
Group interview or discussions for team activities
Individual interview

 Institutional orbitics writing includes Self-assessment and personal learning plan Self-assessment and personal learning plan Semi-annual evaluation This subcompetency is not intended to evaluate a resident's well-being. Rather, the intent is to ensure each resident has the fundamental knowledge of factors that affect well-being, the mechanism by which those factors affect well-being, and available resources and tools to improve well-being. ACGME: Tools and Resources. https://www.acgme.org/What4Wes_Do/Initiatives/Physician-Well-Being/Resources_2021. American College of Physicians (ACP). Imposter Syndrome: Break on Through to the Other Side, https://www.acgme.org/What4Wes_Do/Initiatives/Physician-Well-Being/Resources_2021. American College of Physicians (ACP). Imposter Syndrome: break-on-through to the Other Side, https://www.acgnoilie.org/about-aci/about-internal-medicine/career-paths/residency-career-counseling/impower/imposter-syndrome-break-on-through: to the-other-side_2021. (Need Login) ACP. Know Your Colleagues, Know Yourself: Checking in on Mental Health. https://www.acgnoiline.org/about-aci/about-sitemain-medicine/career-paths/residency-career-counseling/impower/innows-cours-colleagues-know-yourself-checking-in-on-mental-health; 2021. ACP. Physician Well-Being for Residents and Fellows. https://www.acgoniline.org/meetings-courses/acp-courses-recordings/acp-leadership-cacademy.org/physician-well-being-dor-residents-and-fellows; 2021. ACP. Physician Well-Being and Professional Fulfillment. https://www.acgoniline.org/practice-resources/physician-well-being-and-professional-fulfillment. https://www.acgoniline.org/practice-resources/physician-well-being-and-professional-fulfillment. Pyrum WE tth, Artino AR Jr, Uijtdehaage S, Webb AMB, Varpio L. Sentinel emotional events: The nature, triggers, and effects of shame experiences in medical residents. Acad Med	Institutional online training modules
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	 Journal of Graduate Medical Education. Hot Topics: Resident Well-Being.
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Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication

Overall Intent: To use language and behaviors deliberately to form constructive relationships with patients, to identify communication barriers including self-reflection on personal biases, and minimize them in the doctor-patient relationships; organize and lead communication around shared decision making

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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 common barriers to effective communication (e.g., language, disability) while accurately communicating own role within the health care system	 Identifies need for trained interpreter with non-English-speaking patients
Identifies the need to adjust communication strategies based on assessment of patient/family expectations and understanding of their health status and treatment options	 Uses age-appropriate language when discussing procedures/surgery 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 tobacco cessation
<i>Identifies complex barriers to effective communication (e.g., health literacy, cultural)</i>	 Recognizes the need for handouts with diagrams and pictures to communicate information to a patient who is unable to read
Organizes and initiates communication with patient/family by introducing stakeholders, setting the agenda, clarifying expectations, and verifying understanding of the clinical situation	 Assesses patient's understanding of their diagnosis and treatment plan
Level 3 Establishes a therapeutic relationship in challenging patient encounters	 Acknowledges patient's request for an MRI for new dizziness or hearing loss without red flags and arranges timely follow-up visit to align diagnostic plan with goals of care
When prompted, reflects on personal biases while attempting to minimize communication barriers	 In a discussion with the faculty member, acknowledges discomfort in caring for a patient with head and neck cancer who continues to smoke

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With guidance, sensitively and compassionately delivers medical information, elicits patient/family values, goals, and preferences, and acknowledges uncertainty and conflict	 Organizes a family meeting to determine a plan for withdrawal of treatment in a terminally ill patient
Level 4 Easily establishes therapeutic relationships, with attention to patient/family concerns and context, regardless of complexity	 Continues to engage representative family members with disparate goals in the care of a patient with recurrent head and neck cancer
Independently recognizes personal biases while attempting to proactively minimize communication barriers	 Reflects on personal bias related to cancer treatment of resident's family member
Independently, uses shared decision making to align patient/family values, goals, and preferences with treatment options to make a personalized care plan	 Uses patient and family input to engage pastoral care and develop a plan for home hospice in the terminally ill patient, aligned with the patient's values
Level 5 <i>Mentors others in situational awareness</i> <i>and critical self-reflection to consistently develop</i> <i>positive therapeutic relationships</i>	 Leads a discussion group on personal experience of moral distress
Role models self-awareness while identifying a contextual approach to minimize communication barriers	 Develops a residency curriculum on social justice which addresses unconscious bias
Role models shared decision making in patient/family communication including those with a high degree of uncertainty/conflict	Serves on a hospital bioethics committee
Assessment Models or Tools	 Direct observation Kalamazoo Essential Elements Communication Checklist (Adapted) OSCE 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
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. <i>Med Teach</i> . 2011;33(1):6-8.

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https://bmcmededuc.biomedcentral.com/articles/10.1186/1472-6920-9-1. 2021.

Interpersonal and Communication Skills 2: Interprofessional and Team Communication

Overall Intent: To communicate effectively with the health care team, including consultants, in both straightforward and complex situations

Milestones	Examples
Level 1 Respectfully requests/receives a consultation	When asking for a cardiology consultation for a patient with elevated tropinin post- operation, respectfully relays the diagnosis and need for assistance in management
Uses language that values all members of the health care team	 Receives consult request for a patient with Down syndrome and snoring, asks clarifying questions politely, and expresses gratitude for the consult Acknowledges the contribution of each member of the ICU team to the patient
Level 2 Clearly and concisely requests/responds to a consultation	Communicates diagnostic evaluation recommendations clearly and concisely in an organized and timely manner
Communicates information effectively with all health care team members	 Performs debrief in the post-anesthesia care unit Sends a message in EHR to the dietician of a patient on tube feeds in the ICU
Respectfully receives feedback on performance as a member of the health care team	 Makes correction in surgical technique based on feedback from the attending
Level 3 Receives follow-up and feedback on the outcome of the consultation	 Asks if the consult addressed the needs of the primary team
Uses active listening to adapt communication style to fit team needs	• When receiving treatment recommendations from an attending physician, repeats back the plan to ensure understanding
Solicits feedback on performance as a member of the health care team	 Asks for feedback from operating room nurses or anesthesiologists on communication in the operating room
Level 4 Coordinates recommendations from different members of the health care team to optimize patient care	 Initiates a multidisciplinary meeting to developed shared care plan for a patient with new head and neck cancer
Communicates feedback and constructive criticism to superiors	• States that family members were hoping to meet with attending surgeon after the surgery ended
Communicates concerns and provides feedback to peers and learners	 Asks other members of the health care team to repeat back recommendations to ensure understanding
Level 5 Role models flexible communication strategies that value input from all health care team members, resolving conflict when needed	Mediates a conflict resolution between different members of the health care team

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Facilitates health care team-based feedback in complex situations	 Runs debrief after performance of emergency tracheotomy in a code
	• Runs deblier alter performance of emergency tradicetority in a code
Facilitates teaching of team-based	
communication and feedback	
Assessment Models or Tools	Direct observation
	Global assessment
	Medical record (chart) audit
	Multisource feedback
	Simulation
Curriculum Mapping	•
Notes or Resources	 Braddock CH, Edwards KA, Hasenberg NM, Laidley TL, Levinson W. Informed decision making in outpatient practice: time to get back to basics. <i>JAMA</i> 1999;282(24):2313-2320. <u>https://jamanetwork.com/journals/jama/fullarticle/192233. 2021</u>.
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Interpersonal and Communication Skills 3: Communication within Health Care Systems Overall Intent: To communicate effectively using a variety of methods

Idea Examples Level 1 Accurately records information in the patient record Documentation is accurate but may include extraneous information Safeguards patient personal health information Shreds patient record Ocumentation is accurate but may include extraneous information Level 2 Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record Streds patient list after rounds; avoids talking about patients in the elevator Documents required data in formats specified by institutional policy Uses approved institutional templates to capture all required data elements institutional policy Level 3 Concisely reports diagnostic and therapeutic reasoning in the patient record Concisely documents complex clinical thinking but may not contain anticipatory guidance at discharge Appropriately selects direct (e.g., telephone, in- person) and indirect (e.g., rogress notes, text messages) forms of communication based on context Communicates with patient's care team immediately about potentially critical test result Level 4 Communicates clearly, concisely, timely, and in an organized written form, including anticipatory guidance Creates consistently accurate, organized, and concise documentation and frequently incorporates anticipatory guidance Achieves written or verbal communication (e.g., patient notes, email) that serves as an example for others to follow Creates exemplary notes that are used by the chief resident to teach others >Speaks directly to referring physicians and ensures recommendations are clear and understoo		
patient record Shreds patient personal health information Shreds patient rounds; avoids talking about patients in the elevator Level 2 Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record Creates organized and accurate documentation outlining clinical reasoning supporting the treatment plan Documents required data in formats specified by institutional policy Uses approved institutional templates to capture all required data elements Level 3 Concisely reports diagnostic and therapeutic reasoning in the patient record Concisely documents complex clinical thinking but may not contain anticipatory guidance at discharge Appropriately selects direct (e.g., trelephone, in-person) and indirect (e.g., trelephone, in-context Communicates with patient's care team immediately about potentially critical test result Level 4 Communicates clearly, concisely, timely, and in an organized written form, including anticipatory guidance Creates exemplary notes that are used by the chief resident to teach others Achieves written or verbal communication (e.g., patient notes, email) that serves as an example for others to follow Creates exemplary notes that are used by the chief resident to teach others Speaks directly to referring physicians and ensures recommendations are clear and understood Coaches other residents on written communication Level 4 Models departmental or institutional communication Ceaches other residents on written communication Level 5 Models feedback to improve others' Ceaches ot	Milestones	Examples
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therapeutic reasoning in the patient record at discharge Appropriately selects direct (e.g., telephone, in- person) and indirect (e.g., progress notes, text messages) forms of communication based on context • Communicates with patient's care team immediately about potentially critical test result Level 4 Communicates clearly, concisely, timely, and in an organized written form, including anticipatory guidance • Creates consistently accurate, organized, and concise documentation and frequently incorporates anticipatory guidance at discharge Achieves written or verbal communication (e.g., patient notes, email) that serves as an example for others to follow • Creates exemplary notes that are used by the chief resident to teach others • Speaks directly to referring physicians and ensures recommendations are clear and understood Level 5 Models feedback to improve others' written communication • Cacches other residents on written communication Guides departmental or institutional communication around policies and procedures • Leads a task force established by the hospital QI committee to develop a plan to improve house staff hand-offs Assessment Models or Tools • Direct observation • Medical record (chart) audit		Uses approved institutional templates to capture all required data elements
person) and indirect (e.g., progress notes, text messages) forms of communication based on contextCreates consistently accurate, organized, and concise documentation and frequently incorporates anticipatory guidanceLevel 4 Communicates clearly, concisely, timely, and in an organized written form, including anticipatory guidance• Creates consistently accurate, organized, and concise documentation and frequently incorporates anticipatory guidance at dischargeAchieves written or verbal communication (e.g., patient notes, email) that serves as an example for others to follow• Creates exemplary notes that are used by the chief resident to teach others • Speaks directly to referring physicians and ensures recommendations are clear and understoodLevel 5 Models feedback to improve others' written communication• Ceaches other residents on written communication • Coaches other residents on written communicationGuides departmental or institutional communication around policies and procedures• Leads a task force established by the hospital QI committee to develop a plan to improve house staff hand-offsAssessment Models or Tools• Direct observation • Medical record (chart) audit		
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written communicationLeads a task force established by the hospital QI committee to develop a plan to improve house staff hand-offsAssessment Models or Tools• Direct observation • Medical record (chart) audit	patient notes, email) that serves as an example	Speaks directly to referring physicians and ensures recommendations are clear and
communication around policies and procedures house staff hand-offs Assessment Models or Tools • Direct observation • Medical record (chart) audit	•	 Coaches other residents on written communication
Medical record (chart) audit	communication around policies and procedures	
	Assessment Models or Tools	

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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. Teach Learn Med. 2017;29(4):420-432.
	https://www.tandfonline.com/doi/full/10.1080/10401334.2017.1303385. 2021.
	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. 2021.
	• Starmer AJ, Spector ND, Srivastava R, et al. I-PASS, a mnemonic to standardize verbal
	handoffs. Pediatrics. 2012;129(2):201-204. https://ipassinstitute.com/wp-
	content/uploads/2016/06/I-PASS-mnemonic.pdf. 2021.

To help programs transition to the new version of the Milestones, the ACGME has mapped the original Milestones 1.0 to the new Milestones 2.0. Indicated below are where the subcompetencies are similar between versions. These are not exact matches, but are areas that include similar elements. Not all subcompetencies map between versions. Inclusion or exclusion of any subcompetency does not change the educational value or impact on curriculum or assessment.

Milestones 1.0	Milestones 2.0
PC1: Salivary Disease	PC3: Head and Neck Neoplasm
PC2: Aerodigestive Tract Lesions	PC6: Laryngologic Disease
PC3: Sleep Disordered Breathing	PC9: Sleep
PC4: Facial Trauma	PC2: Facial Trauma
PC5: Rhinosinusitis	PC5: Rhinologic Disease
PC6: Nasal Deformity	PC8: Facial Plastics and Reconstructive Surgery
PC7: Chronic Ear	PC4: Otologic Disease
PC8: Pediatric Otitis Media	PC7: Pediatric Otolaryngology
	PC1: Airway Emergency and Management
MK1: Upper Aerodigestive Tract Malignancy	PC3: Head and Neck Neoplasm
MK2: Hearing Loss	PC4: Otologic Disease
MK3: Dysphagia-Dysphonia	PC6: Laryngologic Disease
MK4: Inhalant Allergy	MK2: Allergy
	MK1: Anatomy
	MK3: Pathophysiology
SBP1: Patient Safety	SBP1: Patient Safety and Quality Improvement
SBP2: Resource Utilization	SBP3: Physician Role in Health Care Systems
	SBP2: System Navigation for Patient-Centered Care
PBLI: The ability to investigate and evaluate the care of	PBLI1: Evidence-Based and Informed Practice
patients, to appraise and assimilate scientific evidence,	PBLI2: Reflective Practice and Commitment to Personal Growth
and to continuously improve patient care based on	
constant self-evaluation and life-long learning	
PROF: Professionalism	PROF1: Professional Behavior and Ethical Principles
	PROF2: Accountability/Conscientiousness
	PROF3: Knowledge of Systemic and Individual Factors of Well-
	Being
ICS: Interpersonal Communication Skills	ICS1: Patient- and Family-Centered Communication
	ICS2: Interprofessional and Team Communication
	ICS3: Communication within Health Care Systems

Available Milestones Resources

Milestones 2.0: Assessment, Implementation, and Clinical Competency Committees Supplement, new 2021 - <u>https://meridian.allenpress.com/jgme/issue/13/2s</u>

Clinical Competency Committee Guidebook, updated 2020 - <u>https://www.acgme.org/Portals/0/ACGMEClinicalCompetencyCommitteeGuidebook.pdf?ver=2020-04-16-121941-380</u>

Clinical Competency Committee Guidebook Executive Summaries, new 2020 - <u>https://www.acgme.org/What-We-</u> <u>Do/Accreditation/Milestones/Resources</u> - Guidebooks - Clinical Competency Committee Guidebook Executive Summaries

Milestones Guidebook, updated 2020 - https://www.acgme.org/Portals/0/MilestonesGuidebook.pdf?ver=2020-06-11-100958-330

Milestones Guidebook for Residents and Fellows, updated 2020 - <u>https://www.acgme.org/Portals/0/PDFs/Milestones/MilestonesGuidebookforResidentsFellows.pdf?ver=2020-05-08-150234-750</u>

Milestones for Residents and Fellows PowerPoint, new 2020 -<u>https://www.acgme.org/Residents-and-Fellows/The-ACGME-for-Residents-and-Fellows</u>

Milestones for Residents and Fellows Flyer, new 2020 https://www.acgme.org/Portals/0/PDFs/Milestones/ResidentFlyer.pdf

Implementation Guidebook, new 2020 - <u>https://www.acgme.org/Portals/0/Milestones%20Implementation%202020.pdf?ver=2020-05-20-152402-013</u>

Assessment Guidebook, new 2020 -

https://www.acgme.org/Portals/0/PDFs/Milestones/Guidebooks/AssessmentGuidebook.pdf?ver=2020-11-18-155141-527

Milestones National Report, updated each Fall -

https://www.acgme.org/Portals/0/PDFs/Milestones/2019MilestonesNationalReportFinal.pdf?ver=2019-09-30-110837-587 (2019)

Milestones Bibliography, updated twice each year -

https://www.acgme.org/Portals/0/PDFs/Milestones/MilestonesBibliography.pdf?ver=2020-08-19-153536-447

Developing Faculty Competencies in Assessment courses - <u>https://www.acgme.org/Meetings-and-Educational-Activities/Other-Educational-Activities/Courses-and-Workshops/Developing-Faculty-Competencies-in-Assessment</u>

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Assessment Tool: Direct Observation of Clinical Care (DOCC) - https://dl.acgme.org/pages/assessment

Assessment Tool: Teamwork Effectiveness Assessment Module (TEAM) - https://dl.acgme.org/pages/assessment

Learn at ACGME has several courses on Assessment and Milestones - https://dl.acgme.org/