

Description of the Activity	Surgical oncologists are expected to evaluate and manage patients who present with signs and symptoms of gastric and esophageal cancers. Surgical oncologists must be able to accurately and cost-effectively diagnose, treat, and provide guideline-adherent surveillance for adult patients with gastric and esophageal cancers and recognize complex disease requiring multidisciplinary treatment.
Functions	 Nonoperative/Preoperative Synthesize essential information from a patient's records, history, physical examination, and initial diagnostic evaluations to develop a differential diagnosti. Recognize familial genetic syndromes, and refer patients for genetic screening. Discuss the role of risk-reduction gastrectomy versus high-risk surveillance. Consider previous gastric procedures and altered anatomy (eg. gastric bypass/sleeve). Complete a cost-effective, evidence-based diagnostic or staging evaluation, including potential molecular biomarkers, endoscopic evaluation, and imaging studies as indicated. Recognize the role of endoscopic ultrasound staging in selecting and determining the sequence of therapeutic options. Determine the role and timing of molecular biomarker testing (eg, mismatch repair status, HER2 amplification, programmed death-ligand 1 expression). Propose the role and use of guideline-concordant endoscopic resections. Communicate a diagnosis and potential treatment options to the patient/caregiver(s) and consultants. Use shared decision-making to develop a treatment plan consistent with a patient's goals and beliefs. Describe the role and timing of referals to multidisciplinary specialities (medical oncology, radiation oncology, thoracic surgery) for planning and treating gastric and esophageal cancers. Succinctly identify treatment goals (curative intent, life prolongation without curative option, palliation, end-of-life care). Communicate in a sympathetically and culturally sensitive manner when de-escalation of care is indicated due to poor prognosis or based on the patient/caregiver's goals of care. Use current evidence-based literature to develop the correct sequence of oncologic treatment by stage, including surgery, neoadjuvant therapy (chemotherapy, targeted therapy), radiation, and other treatments as necessary. Select a t



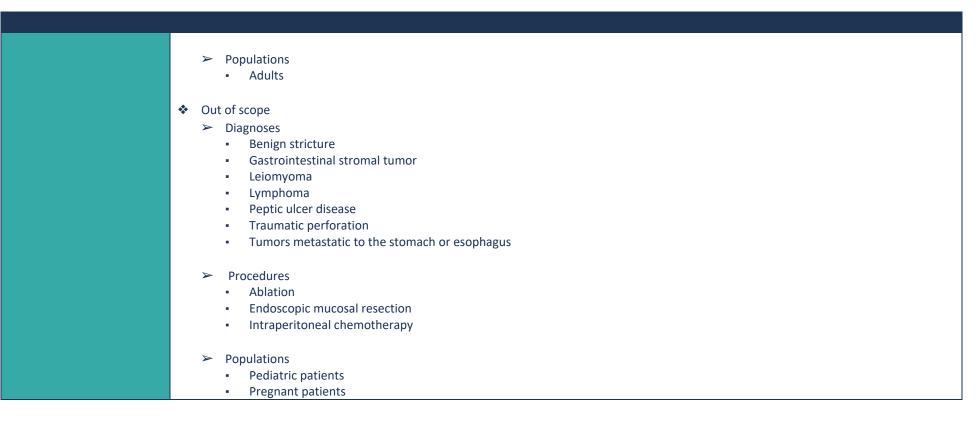
	 Describe the indications, risks, benefits, alternative therapies, and potential complications of the planned procedure, and incorporate a discussion of the goals of care. Ensure patient/caregiver comprehension using applicable language services and audio/visual aids as necessary. Ensure that the patient/caregiver(s) can ask questions and address any expressed concerns, taking patient/caregiver preferences into account. Discuss potential limitations in the desire for resuscitation (eg, do-not-resuscitate order) and how this will be addressed in the perioperative period. Document the consent discussion. Screen patients for and propose clinical trials when appropriate.
*	 Intraoperative Manage the perioperative environment, including room setup, equipment check, preprocedural time-out, specimen processing, counts, wound classification, and debriefing functions. Communicate bidirectionally with anesthesia.
	 Discuss and coordinate single-lung ventilation when thoracic access is planned.
I	Discuss volume resuscitation and avoidance of vasopressors for the critical portion of anastomosis and reconstruction.
	Create and maintain an intraoperative environment that promotes safety and patient-centered care.
	Position the patient to expose the operative field, taking precautionary measures to prevent iatrogenic injury.
	> Coordinate with operating room team members to use specialized equipment or procedures, including esophagogastroduodenoscopy.
	Perform the procedures required to manage gastric and esophageal cancers:
	Assess intraoperative margins.
	Perform lymphadenectomy based on evidence-based guidelines.
	 Discuss the role of an open versus minimally invasive approach. Discuss the entimal approach to fooding access.
	 Discuss the optimal approach to feeding access. Adapt operative steps and the operative plan to information discovered intraoperatively, calling consulting services as necessary.
	 Adapt operative steps and the operative plan to information discovered intraoperatively, calling consulting services as necessary. Prepare for an inadequate conduit or other anastomotic challenges.
	 Discuss the approach to positive resection margins.
	 Prepare for an unanticipated en bloc resection (pancreas, spleen, lung, diaphragm, liver, colon).
	 Change to open during an originally planned minimally invasive procedure.
	 Recognize metastatic disease, and consider palliative options if indicated.
*	Postoperative
	 Direct postoperative care.
	 Manage common early and late complications related to gastroesophageal procedures, including:
I	Anastomotic leak
	- Apostomotic stricture

Anastomotic stricture



 Bile reflux Bile reflux Chylothorax/chyle leak Dundens stump leak Dundens stump leak Empyema/abscess Pneumothorax and persistent air leak Recurrent laryngeal nerve injury Communicate a postencounter plan with a patient/caregiver(s) and other health care team members that considers intraoperative and pathologic findings, future treatment needs, postencounter needs, outcome expectations, and follow-up. Recognize and mitigate patient-specific barriers to care. Coordinate care with other specialities and ancillary care as needed (physical therapy, rehabilitation, nutrition services). Review intraoperative and pathologic findings in a multidisciplinary tumor board, and modify the treatment plan if indicated. Discuss the role and indications of genomic sequencing/genetic testing of the surgical specimen. Develop a plan for surveillance based on current cancer care guidelines after the initial treatment of gastric and esophageal cancers. Stapanous cell carcinoma of the esophagus Gastric Esophageal High-risk and genetic predisposition scenarios Gastric Esophageal Procedures Total asophagectomy Obstal asophagectomy Total asophagectomy Total asserted predisprite with the above procedures Staging laparoscopy Enterted Heeding access Staging laparoscopy		
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Staging laparoscopy		 Partial/subtotal gastrectomy
Enteral feeding access		
		Enteral feeding access







Level	Nonoperative/Preoperative	Intraoperative	Postoperative
1			
Limited Participation	 Synthesizes essential information from a patient's records, H&P, family history, and initial diagnostic evaluations to develop a 	 Lists potential intraop findings (unidentified metastatic disease, invasion into adjacent structures) but does not 	 Demonstrates knowledge of and manages routine postop care following esophagectomy and gastrectomy
Demonstrates understanding of	differential	articulate how this would change the surgical plan	Identifies evidence-based guidelines for
information and has very basic skills.	 Discusses surgical options, including types of esophagectomy and gastrectomy 	 Needs prompting to assess resection margins and the extent of 	surveillance of esophageal and gastric cancers but needs assistance to develop a detailed surveillance plan tailored to a
Framework:	 Considers the role of a multidisciplinary tumor board and participates in but cannot lead the case discussion; needs guidance to 	 Iymphadenectomy Needs guidance to plan reconstruction 	patient's preferencesAccesses evidence-based guidelines for
Performs at the general surgery resident level, lower than expected for	develop a multidisciplinary treatment plan	 Describes laparoscopy for evaluation of 	postop care and surveillance but needs assistance to formulate a plan based on
a typical residency graduate. Has some	 Interprets biopsy results to guide operation extent and additional genetic workup 	 Describes laparoscopy for evaluation of metastatic disease but does not articulate the potential change in the 	tumor factors and patient preferencesReviews pathology results but may
experience with simple cases but has been an observer of complex	 Needs prompting to identify and discuss the role of molecular biomarkers 	surgical plan based on diagnostic laparoscopy findings	need prompting to communicate the results to a patient/caregiver(s)
cases.	 When prompted, accesses available evidence to develop the correct sequence of treatment (eg, surgery, chemotherapy, radiation therapy) 	 Demonstrates basic knowledge of cancer biology and clinical implications, including the extent of resection 	 Needs prompting to discuss patient prognosis, role of palliative care or hospice, and goals of care
	 Establishes a professional rapport with a patient/caregiver(s) and respectfully and 	 Demonstrates basic knowledge of cancer biology as it relates to the operative plan 	 Documents postop care but may omit nuances of progress or minor complications; may choose an
	clearly communicates basic facts about the condition but may need assistance when discussing nuances of treatment decisions and potential outcomes	 Actively participates in the discussion with the anesthesia team regarding intraoperative airway management 	inappropriate means of communication (paging for minor details or email for urgent issues)
	 Accurately records information in the patient's record but may omit some important information or include some 	 Creates a basic operative note but omits some important information; may need prompting for timeliness 	



Level	Nonoperative/Preoperative	Intraoperative	Postoperative
	extraneous information; requires correction or augmentation of documentation of services; may need prompting for timeliness		
2 Direct Supervision Manages cases at the level of a newly graduated general surgery resident. Manages less complicated cases independently but needs active guidance for complex cases.	 Obtains a focused patient H&P and uses relevant oncologic information to determine the need for additional endoscopic procedures, possible biopsy, or other additional diagnostic procedures and testing Participates in a multidisciplinary tumor board discussion to develop a treatment plan but needs assistance to guide the discussion; demonstrates awareness of multidisciplinary treatment options, including endoscopic resections and definitive chemoradiation, but needs guidance to formulate multimodality treatment 	 Identifies intraop findings such as unidentified metastatic disease or invasion into adjacent structures but requires redirection when encountering unanticipated intraoperative findings Independently identifies the need to assess resection margins but may need assistance to interpret the results and determine next steps Identifies operative reconstruction options but needs prompting or assistance with critical steps of anastomosis 	 Demonstrates management of routine postop care, including common postop complications, but needs assistance to recognize and manage complex postoperative complications, including those related to neoadjuvant therapy Identifies evidence-based guidelines for surveillance of straightforward esophageal and gastric cancers, tailored to the patient's preferences Requires prompting to elicit patient preferences and values to guide evidence-based adjuvant care and surveillance
The learner can manage simple or straightforward cases. The learner may require guidance in managing multidisciplinary care (eg, planning neoadjuvant treatment or postoperative chemotherapy). During surgery, the attending gives active	 Using evidence-based guidelines identifies and discusses treatment approaches for a straightforward case and solicits patient preferences Identifies molecular biomarkers but needs assistance with determining the timing of testing and their role in treatment Accesses available evidence to develop the correct sequence of treatment (eg, surgery, chemotherapy, radiation therapy) but needs assistance to elicit patient preferences when guiding care 	 Demonstrates understanding of the need to perform laparoscopy to evaluate for metastatic disease but may need prompting to articulate a potential change in the surgical plan based on laparoscopy findings Demonstrates comprehensive knowledge of cancer biology and clinical implications, including the extent of resection Leads a discussion with the anesthesia team regarding intraop airway management 	 Reviews and communicates pathology results to a patient/caregiver(s) but may need assistance to discuss a postop treatment plan and tailor it to a patient's preferences Recognizes the roles of palliative care and hospice and the importance of discussing goals of care with patients/caregivers in a compassionate manner but may require assistance to conduct a family discussion



Level	Nonoperative/Preoperative	Intraoperative	Postoperative
help throughout the case to maintain forward progression.	• Establishes a professional rapport with a patient/caregiver(s) and respectfully communicates the diagnosis, treatment options, and potential outcomes for a straightforward patient but may need assistance with a complex patient	 Creates an operative note with a complete description of the procedure 	 Thoroughly documents postop progression and the presence of any complications within the plan of management
	 Considers the potential for hereditary cancer syndrome but needs assistance to incorporate this information into a preop plan 		
	 Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record; demonstrates timely and efficient use of the EHR to communicate with the health care team 		
3	Needs prompting to integrate oncologic	• With assistance, refines the preop	Independently manages complicated
Indirect Supervision	information (patient history, imaging,	surgical plan based on information	postop care, including complications
Can do a basic operation	endoscopic findings, pathology) to design a succinct diagnostic and workup plan	discovered intraoperatively, such as unidentified metastatic disease, invasion	related to neoadjuvant therapy (eg, anastomotic leak with sepsis)
but will not recognize		into adjacent structures, suspicious	
abnormalities and does	• Leads a discussion of routine cases at an	lymphadenopathy not seen on imaging,	Recognizes the role of molecular tumor
not understand the	interdisciplinary cancer care conference, incorporating multimodality treatment	or a poorly perfused conduit	analysis but requires assistance to recognize its implications and impact on
nuances of an advanced case.	options into a treatment plan; requires	 Independently identifies the need to 	adjuvant treatment
	assistance to develop a plan for a complex	assess resection margins and interprets	
Manages	case or when conflicting opinions exist	the results to determine next steps	 Uses evidence-based guidelines for ocenhageal and gastric cancers to
multidisciplinary care of	• With assistance, creates a diagnostic and	 Identifies alternate reconstruction 	esophageal and gastric cancers to develop a surveillance plan for
straightforward cases.	therapeutic plan for a patient with gastric	options and performs an anastomosis	straightforward and complex patients
Seeks assistance in	or esophageal cancer based on patient-	with limited assistance but needs	but may need assistance tailoring
managing complex cases.	specific comorbidities and medical history	guidance on which reconstruction is optimal for the level of disease	



Level	Nonoperative/Preoperative	Intraoperative	Postoperative
Framework: The learner can perform the operation in straightforward circumstances. The attending gives passive help. This help may be given while scrubbed for more complex cases or during check-in for more routine cases.	 With assistance, interprets biopsy results and diagnostic imaging to determine the need for neoadjuvant therapy With assistance, interprets results of genetic testing to guide further diagnostic workup as well as subsequent treatment decisions Independently integrates oncologic information with patient-specific factors to design a succinct diagnostic and workup plan for a straightforward case and adjusts the plan based on the available evidence Conducts an informed consent discussion with a patient/caregiver(s) regarding operative risks and morbidities but omits discussion of lifestyle changes associated with gastrectomy and esophagectomy; engages ancillary services as needed (nutrition, prehabilitation) Discusses palliative options with a patient/caregiver(s) but does not approach the discussion in a shared decision-making manner and does not consider cultural differences Concisely integrates all relevant data from outside systems and prior encounters and reports diagnostic and therapeutic reasoning in the patient record 	 Independently evaluates for metastatic disease and refines the surgical plan based on findings of laparoscopy in a straightforward case Demonstrates comprehensive knowledge of cancer biology and patient-specific tumor factors and their impact on the extent of resection in a common scenario but may need guidance with intraop decision-making in a more complex case (eg, persistent positive margin) Needs guidance on the extent of resection based on the significance of patient-specific tumor biology and intraop decision-making in the setting of persistent positive margin Leads a discussion with the anesthesia team regarding intraop airway management but needs assistance to optimize intraop lung desufflation Creates an operative note with a complete description of the procedure, including key intraop findings; documents anatomic or disease variants in a thorough and understandable way 	 Locates and applies the best available evidence for adjuvant therapies and surveillance, integrated with patient preference Reviews pathology results and synthesizes a postop treatment plan for a straightforward case; communicates the plan clearly and respectfully to the patient/caregiver(s) Actively engages with a patient/caregiver(s) but requires assistance when discussing the prognosis, role of palliative care and hospice, and goals of care Selects direct (telephone, in-person) and indirect (progress notes, secure text messages) forms of communication based on context and urgency



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4			
<u>Practice Ready</u> Manages complex disease presentations	 Independently integrates oncologic information (patient history, imaging, endoscopic findings, pathology) to design a succinct diagnostic and workup plan 	 Independently refines the preop surgical plan based on information discovered intraoperatively, such as unidentified metastatic disease, invasion into adjacent structures, suspicious 	 Anticipates and provides early intervention for postop complications, including engaging consultative services when needed
and performs complex	• Leads a multidisciplinary cancer care	lymphadenopathy not seen on imaging,	• Reviews and synthesizes pathology to
operations	conference to synthesize patient care plans	or a poorly perfused conduit	independently create an evidence-
independently. Guides a	for routine and complex cases, resolving	a to device device ideviction the second to	based postop treatment plan and tailor
multidisciplinary	conflict when needed; independently coordinates multidisciplinary care	 Independently identifies the need to assess resection margins and interprets 	it to a patient/caregiver(s) in a comprehensive and compassionate
approach to complex	coordinates mutuascipiniary care	results to determine next steps in	manner
cases. Performs as an	Independently formulates a	straightforward and complex cases	
expert consultant in	comprehensive, evidence-based diagnostic		Reviews and understands the
surgical oncology. <u>Framework</u> : The learner can treat all common variations of	and therapeutic plan for a patient with gastric or esophageal cancer based on patient-specific comorbidities and medical history	 Independently modifies the reconstruction plan based on intraop findings and performs an anastomosis in straightforward and complex cases 	implications of molecular tumor analysis on adjuvant treatment, directing interdisciplinary discussion to synthesize a patient care plan and ensure referrals are placed
the disease and has a	 Independently interprets biopsy results and diagnostic imaging to determine the need 	 Independently performs laparoscopy to assess metastatic disease in 	 Independently uses evidence-based
strong understanding of surgical and medical	for neoadjuvant therapy	straightforward and complex cases and	guidelines for surveillance of
options for different		refines the surgical plan based on	esophageal and gastric cancers to
presentations.	 Independently interprets results of genetic testing to guide further diagramstic supplier. 	findings	develop a detailed surveillance plan
The attending is	testing to guide further diagnostic workup and subsequent treatment decisions	• Demonstrates comprehensive knowledge of tumor biology in the context of intraop	tailored to a patient's preferencesCritically appraises evidence-based
available at the request	Independently integrates oncologic	findings and how this impacts the preop	rationale for adjuvant therapies, even in
of the learner but is not	information with patient-specific factors to	surgical plan, including the extent of	the face of uncertain or conflicting
routinely needed for	design a succinct diagnostic and workup plan and adjusts the plan based on	resection or need for further pathological workup; describes the details of this	evidence
common presentations, though input may be	available evidence in a complex or unusual	updated surgical plan with limited	 Independently conducts a discussion
needed for more	presentation	assistance	with a patient/caregiver(s) to review
complex or unusual			pathology results, discuss prognosis and
presentations.	 Independently conducts an informed consent discussion with a 	 Independently determines the extent of resection based on the significance of 	goals of care, and engage in palliative care, hospice, or both



Level	Nonoperative/Preoperative	Intraoperative	Postoperative
	patient/caregiver(s) regarding operative risks and morbidities, detailing the lifestyle changes associated with gastrectomy and esophagectomy, and engages in ancillary	patient-specific tumor biology and in the intraop setting of a persistent positive margin	 Communicates clearly, concisely, promptly, and in an organized written form, including anticipatory guidance so
	services as needed (nutrition, prehabilitation)	 Leads a discussion with the anesthesia team regarding intraop airway management and independently makes 	the postop plan of care is clear to other members of the health care team
	 Discusses palliative options in shared decision-making to align patient/caregiver values, including supportive care without 	adjustments to optimize intraop lung desufflation	
	cancer-directed therapy, in a culturally sensitive and compassionate manner	 Creates an operative note with a complete description of the procedure, a rationale for modifications of the 	
	 Communicates diagnostic and therapeutic reasoning clearly, concisely, promptly, and in an organized written form, including 	operative plan, and documentation of anatomic or disease variants	
	anticipatory guidance; written or verbal communication (patient notes, email) serves as an example for others to follow		