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Milestones Supplemental Guide

This document provides additional guidance and examples for the Complex General Surgical Oncology 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 Resources page of the Milestones section of the ACGME website.

Patient Care 1: Patient Evaluation and Clinical Decision Making Overall Intent: To progressively demonstrate skill acquisition in clinical assessment and develop multidisciplinary treatment plan for patients with cancer	
Milestones	Examples
Level 1 Identifies relevant oncologic information (e.g., clinical assessment, imaging, pathology) to develop a differential diagnosis	 When a patient presents with a liver lesion, elicits a focused history, performs a physical exam, and reviews diagnostic reports; differential diagnosis includes both benign and malignant lesions
Discusses surgical options for treatment	Knows that surgical options include wedge resection or formal hepatectomy
Level 2 Discriminates the quality of the relevant information to determine if additional information (i.e., diagnostics) is needed	Determines need for advanced liver imaging, possible biopsy and other diagnostic procedures and testing
Discusses multidisciplinary options for treatment	 Knows that multidisciplinary options could include ablative techniques, embolization, neoadjuvant chemotherapy, and surgical resection
Level 3 With assistance, integrates oncologic information with patient specific factors to design a diagnostic and work-up plan	With guidance from the attending, based on patient history of alcohol use, magnetic resonance imaging (MRI) findings of early enhancement and elevation of alphafetoprotein, determines no biopsy is necessary as it is consistent with hepatocellular carcinoma
With assistance, creates a multidisciplinary treatment plan	 With the attending, refers to tumor board for discussion of ablation, resection, or transplantation
Level 4 Independently integrates oncologic information with patient specific factors to design a succinct diagnostic and work-up plan	Based on patient history of alcohol use, MRI findings of early enhancement and elevation of alpha fetoprotein, independently determines that no biopsy is necessary as it is consistent with hepatocellular carcinoma
Independently creates a multidisciplinary treatment plan	 Independently presents to tumor board for discussion of ablation, resection, or transplantation
Level 5 Appraises gaps in literature and research related to diagnostic work-up and multidisciplinary treatment plans to propose future investigations	Identifies potential for expanded role of transplantation in the management of hepatic malignancy
Assessment Models or Tools	 Assessment of case based discussion Direct observation Medical record (chart) audit Multisource feedback

Curriculum Mapping	
Notes or Resources	Complex General Surgical Oncology (CGSO) SCORE Curriculum
	• Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-
	education/. 2019.
	Literature reviews

Patient Care 2: Management of Intra-Operative Complications Overall Intent: To progressively recognize, manage, and anticipate common and rare intra-operative complications	
Milestones	Examples
Level 1 Identifies types of intra-operative complications and management strategies	When performing a thyroidectomy, appreciates the possible complications including: recurrent laryngeal nerve injury, hypoparathyroidism, bleeding, and/or injury to adjacent structures
Level 2 With assistance, recognizes and manages intra-operative complications	With attending assistance, recognizes parathyroid devascularization that could lead to hypoparathyroidism
Level 3 Independently recognizes and manages intra-operative complications	Independently recognizes parathyroid devascularization that could lead to hypoparathyroidism
Level 4 Anticipates and prevents common intra- operative complications	Determines extent of surgery balancing oncologic needs versus risk of parathyroid devascularization, and autografts devascularized parathyroid into sternocleidomastoid muscle
Level 5 Anticipates and prevents rare intra- operative complications	Recognizes the potential of hereditary hyperparathyroidism and autografting into a more surgically accessible site (forearm)
Assessment Models or Tools	 Assessment of case based discussion Direct observation Mock oral exam Multisource feedback
Curriculum Mapping	
Notes or Resources	 CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/. 2019. Literature reviews Review of operative videos

Patient Care 3: Intra-Operative Oncologic Decision Making	
Overall Intent: To progressively demonstrate competence in recognition and utilization of intra-operative findings and their impact on oncologic decision making during operative resections for patients with cancer	
Milestones	Examples
Level 1 Lists potential intra-operative findings that would require refinement of pre-operative surgical plan Level 2 Identifies intra-operative findings that	 In a patient with pancreatic adenocarcinoma who is scheduled for a Whipple, lists intra- operative findings of carcinomatosis, vascular involvement, and metastatic nodal disease outside of the surgical resection site that would require changes in surgical plan Intra-operatively, identifies tumor involvement of the portal vein
require refinement of pre-operative surgical plan Level 3 With assistance, refines pre-operative surgical plan based on intra-operative findings	Discusses with the attending the surgical options for en bloc resection and portal vein reconstruction
Level 4 Independently refines pre-operative surgical plan based on common intra-operative findings	Communicates surgical options for en bloc resection and portal vein reconstruction including portal vein patching, in situ bypass, etc.
Level 5 Independently refines pre-operative surgical plan based on complex intra-operative findings	 Identifies potential for extended pancreatic resection due to tumor extension beyond pancreatic neck and limited pancreatic remnant and can articulate the risks and benefits of a completion pancreatectomy
Assessment Models or Tools	 Case-based discussion assessment Direct observation Mock oral examination Multisource feedback
Curriculum Mapping	
Notes or Resources	 CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/. 2019. Literature reviews Review of operative videos

Patient Care 4: Intra-Operative Patient Care – Procedural Skills Overall Intent: To demonstrate progressive technical skill in tissue handling and dissection	
Milestones	Examples
Level 1 Demonstrates limited tissue-handling skills	Cannot dissect the porta without causing bleeding
Requires prompting to identify appropriate tissue planes	In performing a hepatectomy, cannot recognize avascular attachments that require dissection for mobilization of the liver
Level 2 Inconsistently demonstrates careful tissue handling	Dissects the biliary system but struggles with hepatic arterial and portal venous structures
Identifies appropriate plane but requires redirection to maintain dissection in the optimal tissue plane	Initiates mobilization, but hesitates more posteriorly in navigating the hepatic venous anatomy, requiring guidance
Level 3 Consistently demonstrates careful tissue handling	Consistently dissects all structures of the extra-hepatic porta
Visualizes tissue plane, identifies and dissects relevant normal anatomy	Fully mobilizes the liver in preparation for resection
Level 4 Adapts tissue handling based on tissue quality	Adapts tissue handling of the porta in a patient with portal hypertension
Visualizes tissue plane, identifies and dissects relevant abnormal anatomy	Recognizes aberrant hepatic arterial anatomy and modifies operative approach
Level 5 Identifies innovative operative techniques, instrumentation, operative approaches, or significant improvement in established techniques	Investigates innovative strategies for assessment of liver remnant function prior to hepatectomy
Assessment Models or Tools	 Case-based assessment Direct observation Multisource feedback Mock oral examination
Curriculum Mapping	
Notes or Resources	CGSO SCORE Curriculum

• Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-
education/. 2019.
Literature reviews
Review of operative videos

Patient Care 5: Intra-Operative Patient Care – Operative Autonomy Overall Intent: To progressively demonstrate increasing levels of operative autonomy	
Milestones	Examples
Level 1 Moves forward in the operation only with active direction	 Participates in a low anterior resection with the attending actively guiding the operation Performs lumpectomy but requires the attending prompting to achieve the margins and specimen orientation
Level 2 Moves fluidly through the course of the operation with minimal prompting	 Completes the abdominal portion of the operation but requires redirection for maintaining the total mesorectal excision dissection plane in the pelvis Completes the mastectomy portion of a modified radical mastectomy but requires assistance with the axillary node dissection
Level 3 Independently moves fluidly through the course of common operations and anticipates next steps	 Independently completes a low anterior resection including abdominal lymphadenectomy, and total mesorectal excision dissection with appropriate margins Independently completes a partial mastectomy with sentinel node biopsy
Level 4 Independently moves fluidly through the course of complex operations and anticipates next steps	 Independently completes at low anterior resection with hand-sewn coloanal anastomosis with diversion Independently completes a modified radical mastectomy
Level 5 Independently moves fluidly through the course of rare and complex operation and anticipates next steps	 Independently completes a total pelvic exenteration for a T4 rectal cancer Independently completes a nipple-sparing mastectomy
Assessment Models or Tools	 Case-based discussion assessment Direct observation Mock oral examination Multisource feedback
Curriculum Mapping	•
Notes or Resources	CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/ . 2019. Literature reviews Review of operative videos

Patient Care 6: Immediate Post-Operative Care Overall Intent: To progressively recognize and manage an uneventful and a complicated post-operative course	
Milestones	Examples
Level 1 Manages routine post-operative course	After low anterior resection, provides routine supportive post-operative care
Level 2 Manages common post-operative complications	After low anterior resection, effectively manages a superficial wound infection
Level 3 Independently manages complicated post-operative course and complications	After low anterior resection, effectively manages an anastomotic leak in a patient with sepsis
Level 4 Anticipates and provides early, effective intervention for post-operative complications	After low anterior resection, recognizes early signs of an anastomotic leak and initiates early work-up and effective treatment prior to overt sepsis
Level 5 Identifies gaps in post-operative management and complications to be addressed in quality improvement/research initiatives	Based on outcomes research, identification of who would benefit from routine anastomotic diversion
Assessment Models or Tools	 Case-based discussion assessment Direct observation Medical record (chart) review Mock orals Multisource feedback
Curriculum Mapping	
Notes or Resources	 CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/. 2019. Literature reviews

Patient Care 7: Post-Operative Oncologic Management Overall Intent: To integrate patient factors and tumor characteristics into multidisciplinary adjuvant treatment decisions as well as surveillance and survivorship schema	
Milestones	Examples
Level 1 Recognizes that pathologic staging impacts oncologic therapeutic decisions Identifies the rationale for a surveillance plan	 After operating on a 40-year-old patient with a right-sided colon cancer, understands that the pathologic evaluation of T and N stage will help determine the role for further treatment, such as chemotherapy Verbalizes that surveillance computerized tomography (CT) scans can be used to monitor
,	for liver or lung recurrence
Level 2 Applies details of pathologic staging to oncologic therapeutic decisions	In the pathology report which reveals at T3N1a ascending colon cancer, recognizes the role for adjuvant chemotherapy
Describes a general oncologic surveillance plan	 Given the diagnosis of Stage IIIa colon cancer, plans for a surveillance program with a CT scan in six and 12 months with physical exam and a colonoscopy and carcino-embryonic antigen
Level 3 Identifies patient and tumor-specific factors relevant to oncologic therapy	 Identifies the need for additional tumor testing to include microsatellite instability (MSI) testing and potential need for BRAF or methylation of MLH1 testing which may impact both oncologic therapies and surveillance strategies
Follows an evidence-based surveillance plan, when available, and recognizes need for a survivorship care plan	 Sees the opportunity for referrals to cancer support groups, patient wellness programs, and genetic counselors
Level 4 Integrates patient factors, pathologic staging and tumor specific factors to select treatment options	 In a patient with a T3N0 tumor that was poorly differentiated with signet ring cell features, identifies that the tumor is also MSI-high by immunohistochemistry without a BRAF mutation; uses the lack of benefit and potential harm for 5FU-based adjuvant therapy Appropriately refers the patient to genetic counseling for mutational testing and
Integrates patient and tumor-specific factors in the construction of an evidence-based surveillance and survivorship care plan	understanding implications for family members; additionally refers the patient to a high- risk clinic for intensive surveillance
Level 5 Appraises gaps in literature and research related to oncologic therapies or surveillance plans to propose future investigations	Recognizes that there is limited data on the potential benefit of adjuvant immunotherapy in patients with MSI-high colorectal cancer and proposes further study
Assessment Models or Tools	 Case-based discussion assessment Direct observation Medical record (chart) audit
	Mock oral examinations

	Multisource feedback
Curriculum Mapping	
Notes or Resources	CGSO SCORE Curriculum
	• Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-
	education/. 2019.
	Literature reviews
	National Guidelines (e.g., NCCN, ASCO)

Medical Knowledge 1: Anatomy Overall Intent: To acquire knowledge in applied surgical anatomy	
Milestones	Examples
Level 1 Demonstrates knowledge of surgically relevant normal anatomy	Describes relevant anatomy associated with a pancreaticoduodenectomy
Level 2 Demonstrates knowledge of surgically relevant anatomic variations	Describes potential aberrant anatomy encountered during pancreaticoduodenectomy
Level 3 With assistance, identifies surgically relevant anatomic variations and alters patient management accordingly	With attending guidance, recognizes aberrant right hepatic artery based on pre-operative imaging and alters procedure accordingly
Level 4 Independently identifies surgically relevant anatomic variations and alters patient management accordingly	Independently recognizes aberrant right hepatic artery based on pre-operative imaging and alters procedure accordingly
Level 5 Leads advanced anatomy discussion at a multidisciplinary conference and/or in operating room	Leads a multidisciplinary tumor board discussion about the relevant anatomy associated with a pancreaticoduodenectomy
Assessment Models or Tools	 Case-based discussion assessment Direct observation Mock oral examination
Curriculum Mapping	•
Notes or Resources	CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/ . 2019. Literature reviews

Overall Intent: To incorporate cancer biology in	Medical Knowledge 2: Cancer Biology nto multidisciplinary management
Milestones	Examples
Level 1 Demonstrates basic knowledge of cancer biology	Takes family history that includes malignancies related to hereditary breast cancer
Level 2 Demonstrates comprehensive knowledge of cancer biology and clinical implications	Based on family history and patient factors, recommends genetic testing for hereditary breast cancer
Level 3 With assistance, applies knowledge of cancer biology into medical decision making	With attending guidance, uses the results of genetic testing to guide further diagnostic assessment and management
Level 4 Independently incorporates knowledge of cancer biology into medical decision making	Independently uses the results of genetic testing to guide further diagnostic assessment and management
Level 5 Recommends novel investigations based on knowledge of cancer biology and clinical trial data	Studies aberrant mutations of unknown significance in breast cancer panels
Assessment Models or Tools	 Case-based discussion assessment Direct observation Mock oral examinations
Curriculum Mapping	•
Notes or Resources	CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/ . 2019. Literature reviews

Medical Knowledge 3: Therapeutics Overall Intent: To demonstrate knowledge of the different multidisciplinary therapies used in the treatment of cancer patients, including	
chemotherapy, radiation, immunotherapy, and targeted therapies	
Milestones	Examples
Level 1 Lists broad categories of multimodal oncologic therapies	 Recognizes that in a patient with breast cancer, there is a potential role for endocrine therapies, monoclonal antibody therapies, chemotherapies, radiation, and surgery
Level 2 Demonstrates knowledge of standard multimodal oncologic therapeutic options, including indications and contraindications	• Recognizes that patients with ER+PR+Her2Neu+ breast cancer require hormonal therapy and herceptin therapy as part of their treatment plan and can discuss potential side effects
Level 3 Demonstrates knowledge of data to support the use of multimodal oncologic therapies and impacts on surgical treatment	Recognizes that a patient with triple negative breast cancer benefits from chemotherapy as a component of their treatment based on data in the literature
Level 4 Incorporates data, patient factors, and tumor factors in the selection of multimodal oncologic therapies	Recognizes that an 88-year-old patient with poor performance status and a 15-mm estrogen receptor cancer is optimally treated by hormonal therapy alone
Level 5 Appraises gaps in literature and research related to therapies to propose future investigations	Designs a study to assess the value of prophylactic mastectomy for patients with a strong family history of breast cancer and no known mutation
Assessment Models or Tools	Case-based discussion assessment
	Direct observation
	Medical record (chart) audit
	Mock oral exams
Curriculum Mapping	•
Notes or Resources	 CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/. 2019. Literature reviews National Guidelines (e.g., NCCN, ASCO)

Medical Knowledge 4: Clinical Trials Overall Intent: To demonstrate knowledge about clinical trials	
Milestones	Examples
Level 1 Describes the basics of clinical study design and levels of evidence	Describes the differences in design and level of data between studies performing database analysis, chart reviews, retrospective clinical trials, and prospective randomized clinical trial
Level 2 Understands the different phases of oncologic clinical trials	 Articulates the steps of getting experimental therapeutic agents approved through the clinical trial process with Phase I assessing toxicities, Phase II assessing efficacy, and Phase III assessing efficacy versus current standard of care
Level 3 Demonstrates general knowledge of clinical trial design and clinical trial infrastructure	Understands and critiques the processes for patient enrollment, database management, clinical trials reporting, and analyses of clinical results
Level 4 Demonstrates advanced knowledge of clinical trial design and clinical trial infrastructure	 Describes appropriate inclusion/exclusion criteria, treatment controls, and number of patients needed for statistical significance in the clinical trial design Articulates the importance of Disease Site Specific Committees, Institutional Review Board, and Clinical Trials Office
Level 5 Designs and proposes clinical trials	Drafts a proposal for a prospective phase II neoadjuvant immunotherapy clinical trial in patients with stage II melanoma evaluating T cell receptor expression
Assessment Models or Tools	 Case-based discussion assessment Journal clubs Published research
Curriculum Mapping	•
Notes or Resources	 CGSO SCORE Curriculum Society for Surgical Oncology. Education. https://www.surgonc.org/surgical-oncology-education/. 2019. Literature reviews

Systems-Based Practice 1: Patient Safety and Quality Improvement (QI) 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	
Milestones	Examples
Level 1 Demonstrates knowledge of how to report patient safety events	 Lists patient misidentification, wrong-site surgery, or medication errors as common patient safety events Describes how to report errors in your environment
Demonstrates knowledge of and describes institutional quality improvement initiatives	Describes fishbone tool
Level 2 Reports patient safety events through institutional reporting systems (simulated or actual)	 Identifies lack of appropriate use of venous thromboembolism prophylaxis Reports lack of hand sanitizer dispenser at each clinical exam room to the medical director
Participates in institutional quality improvement initiatives	Summarizes protocols resulting in decreased spread of hospital acquired C. diff
Level 3 Participates in disclosure of patient safety events to patients and families (simulated or actual)	 Preparing for morbidity and mortality presentations Participation in communication with patients/families about a medical error
Demonstrates the skills required to identify, develop, implement, and analyze an institutional quality improvement project	Participation in project identifying root cause of surgical site infection
Level 4 Independently discloses patient safety events to patients and families (simulated or actual)	Collaborates with a team to conduct the analysis of transfusion reactions and can effectively communicate with patients/families about those events
Creates, implements, and assesses quality improvement initiatives at the institutional level	Participates in the completion of a QI project to improve surgical site infection rates within the practice, including assessing the problem, articulating a broad goal, developing a SMART (Specific, Measurable, Achievable, Realistic, Time-Based) objective plan, and monitoring progress and challenges
Level 5 Role models or mentors others in the disclosure of patient safety events	 Assumes a leadership role at the departmental or institutional level for patient safety Conducts a simulation for disclosing patient safety events
Creates, implements, and assesses national quality improvement initiatives	Initiates and completes a QI project to improve surgical site infection rates in the immunocompromised population and shares results with stakeholders

Assessment Models or Tools	Direct observation
	E-module multiple choice tests
	Medical record (chart) audit
	Multisource feedback
	Simulation
Curriculum Mapping	
Notes or Resources	• Institute of Healthcare Improvement. http://www.ihi.org/Pages/default.aspx . 2019.

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, including transitions of care	 Identifies all involved health care providers throughout the spectrum of the patient's care as members of the team Lists the essential components of a sign-out and transitions of care
Demonstrates knowledge of the oncologic population health needs and disparities	Identifies that a cancer patient has surveillance and survivorship needs
Level 2 Coordinates care of patients in routine clinical situations effectively using the roles of	Coordinates care with the medical oncologist for consideration of adjuvant therapy after colon surgery
the interprofessional teams, including transitions of care	 Routinely uses formal transition-of-care process for a stable patient during night float sign- out
Identifies specific population health needs and inequities for their local oncologic population	Identifies that geographic remoteness may be a factor in where patients receive their adjuvant care
Level 3 Coordinates care of patients in complex clinical situations effectively using the roles of their interprofessional teams, including transitions of care	 Coordinates care with medical oncology, radiation oncology, nutritionist, social work and wound care nurse after low anterior resectioning with ileostomy Routinely utilizes formal transition of care process when transferring a patient to the surgical intensive care unit (SICU)
Coordinates with local resources to effectively meet the needs of an oncologic patient population	Develops a diagnostic and management plan in anticipation of dehydration from high ostomy output in a geographically remote patient
Level 4 Role models effective coordination of patient-centered care among different disciplines including transitions of care	Leads team members in working with consultants to review cases/recommendations
Participates in changing and adapting individual	Assists in designing an app to remotely monitor ostomy output
practice to provide for the needs of specific oncologic populations	Assists in designing outreach program for post-discharge recovery
Level 5 Analyzes the process of care coordination and leads in the design and implementation of improvements including transitions of care	Develops a protocol for an enhanced recovery plan after low anterior resectioning

Leads innovations and advocates for oncologic populations with health care inequities Assessment Models or Tools	 Leads development of telehealth services for geographically remote surgical oncology patients Direct observation Medical record (chart) audit Multisource feedback Outcomes of QI projects 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 in Place Program (PH-TIPP). https://www.cdc.gov/pophealthtraining/whatis.html. 2019. Kaplan KJ. In pursuit of patient-centered care. http://tissuepathology.com/2016/03/29/in-pursuit-of-patient-centered-care/#axzz5e7nSsAns. 2019. Skochelak SE, Hawkins RE, Lawson LE, Starr SR, Borkan JM, Gonzalo JD. AMA

Systems-Based Practice 3: Physician Role in Health Care Systems Overall Intent: To understand the fellow'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, payment systems) Level 2 Describes how components of a complex health care system are interrelated, and how this impacts patient care	 Understands the impact of health plan coverage on prescription drugs for individual patients Understands the cost of different energy devices in surgery Identifies that notes must meet coding requirements Explains that improving patient satisfaction impacts patient adherence and payment to the health system Takes into consideration patient's prescription drug coverage when choosing an anticoagulant Understands that the cost of energy devices should be balanced against clinical benefit
Level 3 Discusses how individual practice affects the broader system (e.g., length of stay, readmission rates, clinical efficiency)	 Recognizes that appropriate documentation can influence the severity of illness determination upon discharge Ensures that a patient, after distal pancreatectomy, has an early scheduled follow-up appointment at discharge to evaluate for duct leak Discusses risks and benefits of pursuing MRI imaging in the setting of breast cancer screening when a patient has a high out of pocket deductible
Level 4 Manages various components of the complex health care system to provide efficient and effective patient care and transition of care	 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 a recent amputation and limited resources
Level 5 Advocates for or leads systems change that enhances high-value, efficient, and effective patient care and transition of care	 Works with community or professional organizations to advocate against known causes of cancer Improves informed consent process for non-English-speaking patients requiring interpreter services Completes a Master's of Health Care Administration degree program or equivalent
Assessment Models or Tools	 Direct observation Implemented programs Medical record (chart) audit
Curriculum Mapping Notes or Resources	 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. 2019.

- AHRQ. Major physician performance sets. https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/measurementsets.html. 2019.
- The Kaiser Family Foundation. www.kff.org. 2019.
- The Kaiser Family Foundation: Topic: health reform. https://www.kff.org/topic/health-reform/. 2019.
- Dzau VJ, McClellan M, Burke S, et al. Vital directions for health and health care: priorities from a National Academy of Medicine Initiative. *NAM Perspectives*. Discussion Paper, National Academy of Medicine, Washington, DC. doi:10.31478/201703e.
- The Commonwealth Fund. Health System Data Center.

 http://datacenter.commonwealthfund.org/?ga=2.110888517.1505146611.1495417431-1811932185.1495417431#ind=1/sc=1. 2019.
- The Commonwealth Fund. Health Reform Resource Center. http://www.commonwealthfund.org/interactives-and-data/health-reform-resource-center#/f:@facasubcategoriesfacet63677=[Individual%20and%20Employer%20Responsibility. 2019.

Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice Overall Intent: To incorporate evidence and patient values into clinical practice	
Milestones	Examples
Level 1 Demonstrates how to access and use the available evidence and how to incorporate patient preferences and values into the care of patients	Identifies evidence-based guidelines
Level 2 Articulates clinical questions and elicits patient preferences and values in order to guide evidence-based care	 In a patient with low-risk differentiated thyroid cancer in which different extents of surgery offer the same oncologic outcomes, identifies and discusses potential evidence-based treatment options, and solicits patient perspective
Level 3 Locates and applies the best available evidence, integrated with patient preference, to the care of patients	 In a patient with low-risk differentiated thyroid cancer in which different extents of surgery offer the same oncologic outcomes, uses best available evidence, patient factors, and patient preferences to determine optimal treatment plan
Level 4 Critically appraises and applies evidence, even in the face of uncertain and/or conflicting evidence, to guide care, tailored to the individual patient	 Accesses the primary literature to identify alternative treatments to surgery for metastatic pancreatic neuroendocrine tumor Working with a patient with preconceived treatment notion to identify and accept an alternative approach that is evidence based
Level 5 Coaches others to critically appraise and apply evidence for patients; and/or participates in the development of guidelines	 Leads clinical teaching on application of best practices in critical appraisal of cancer care As part of a team, develops a prehabilitation program in anticipation of esophagectomy
Assessment Models or Tools	 Direct observation Outcomes research Presentation evaluation Program creation
Curriculum Mapping	•
Notes or Resources	 National Institutes of Health. U.S. National Library of Medicine. Write Your Application. https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/write-your-application.htm. National Institutes of Health. U.S. National Library of Medicine. PubMed Tutorial. https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html Institutional IRB guidelines National Guidelines (e.g., NCCN, ASCO)

Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth Overall Intent: To seek clinical performance information with the intent to improve care; reflect on all domains of practice, personal	
interactions, and behaviors, and their impact on colleagues and patients (reflective mindfulness)	
Milestones	Examples
Level 1 Accepts responsibility for personal and professional development by establishing goals	Sets goals for fellowship training
Identifies the factors that contribute to gap(s) between expectations and actual performance	Understands that personal study program is necessary to avoid gaps in knowledge
Level 2 Demonstrates openness to performance data (feedback and other input) in order to inform goals	Respectfully receives and integrates feedback and adjusts clinical practice and technique
Analyzes and reflects on the factors that contribute to gap(s) between expectations and actual performance	When prompted, develops individual education plan to address their gaps in knowledge
Level 3 Seeks performance data episodically with adaptability and humility	Occasionally asks for feedback from patients, families, faculty members, and patient care team members
Analyzes, reflects on, and institutes behavioral change(s) to narrow the gap(s) between expectations and actual performance	Using educational resources, creates a personal curriculum to reduce gaps in knowledge
Level 4 Consistently seeks performance data with adaptability and humility	Consistently asks for feedback patients, families, faculty members, and team members and continuously adjusts clinical practice and technique to improve
Challenges assumptions and considers alternatives in narrowing the gap(s) between expectations and actual performance	 Using educational resources that include self-assessment to identify and minimize his/her gaps in knowledge
Level 5 Role models consistently seeking performance data with adaptability and humility	Models practice improvement and adaptability
Coaches others on reflective practice	Mentors junior learners in developing their individualized learning plans
Assessment Models or Tools	Direct observation
	Multisource feedback
Curriculum Mapping	

Notes or Resources	Hojat M, Veloski JJ, Gonnella JS. Measurement and correlates of physicians' lifelong
	learning. Acad Med. 2009;84(8):1066-74. doi:10.1097/ACM.0b013e3181acf25f.
	• Lockspeiser TM, Schmitter PA, Lane JL, et al. Assessing residents' written learning goals
	and goal writing skill: validity evidence for the learning goal scoring rubric. Acad Med.
	2013;88(10):1558-63. doi: 10.1097/ACM.0b013e3182a352e6.

Practice-Based Learning and Improvement 3: Scholarly Activity Overall Intent: To demonstrate progressive meaningful participation in scholarly activity to enhance the environment of inquiry	
Milestones	Examples
Level 1 Identifies areas worthy of scholarly investigation	Identifies and formulates a research question
Level 2 Formulates a scholarly plan under supervision of a mentor	Creates an original research plan with a mentor
Level 3 Presents products of scholarly activity at local meetings	Presents original research at the institutional level or local chapter of the American Cancer Society
Level 4 Disseminates products of scholarly activity at regional or national meetings, and/or submits an abstract to regional, state, or national meetings	Podium presentation of original research at a national meeting
Level 5 Publication of independent research that has generated new medical knowledge, educational programs, or process improvement	First or senior author a peer-reviewed publication on original research
Assessment Models or Tools	 Assessment of quality of presentations and/or research Assessment of quality of publications, protocols, and/or grants
Curriculum Mapping	•
Notes or Resources	ACGME requirement:

Professionalism 1: Professional Behavior and Ethical Principles		
Overall Intent: To model ethical and professional behavior, identify lapses, and use appropriate resources for managing ethical and professional dilemmas		
Milestones	Examples	
Level 1 Identifies and describes potential triggers for professionalism lapses and how to report	Understands that being fatigued may cause a lapse in professionalism	
Demonstrates knowledge of the ethical principles underlying the care of cancer patients	Articulates how the principle of "do no harm" applies to a patient who may not benefit from a laparotomy in the setting of widely metastatic pancreatic cancer with carcinomatosis	
Level 2 Demonstrates professional behavior in routine situations and takes responsibility for own professionalism lapses	 Respectfully approaches a nurse who did not see an order written on morning rounds about the importance of the nasogastric tube for decompression and risk for aspiration Recognizes the impact of being late to the operating room secondary to rounding inefficiencies 	
Analyzes straightforward situations using ethical principles	• Identifies and applies ethical principles involved in informed consent when the resident is unclear of all of 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	After noticing a colleague's inappropriate social media post, reviews policies related to posting of content and seeks guidance for resolution	
managing and resolving complex ethical situations	Offers treatment options for a terminally ill patient while recognizing own limitations and biases, and consistently honoring the patient's choice	
Level 4 Recognizes situations that may trigger 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 for 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	

Identifies and seeks to address system-level factors that induce or exacerbate ethical problems or impede their resolution	Engages stakeholders to address excessive wait times in the surgical oncology clinic to decrease patient and provider frustrations that lead to unprofessional behavior
Assessment Models or Tools	 Direct observation Global evaluation Multisource feedback Oral or written self-reflection Simulation
Curriculum Mapping	•
Notes or Resources	 American Medical Association. Ethics. https://www.ama-assn.org/delivering-care/ama-code-medical-ethics. 2019. Ferreres AR, Angelos P, Singer EA, Gabler Blair P. Ethical Issues-in Surgical Care. Chicago, IL: American College of Surgeons; 2017. Byyny RL, Papadakis MA, Paauw DS. Menlo Park, CA: Alpha Omega Alpha Medical Society; 2015. https://example.com/https://exampl

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	
Milestones	Examples
Level 1 Takes responsibility for failure to complete tasks and responsibilities, identifies potential contributing factors, and describes strategies for ensuring timely task completion in the future	Timely attendance at conferences
Responds promptly to requests or reminders to complete tasks and responsibilities	 Completes end-of-rotation evaluations Responds promptly to reminders from program administrator to complete work-hour logs
Level 2 Performs tasks and responsibilities in a timely manner with appropriate attention to detail in routine situations	Completes administrative tasks, documents completion of 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 fellows 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 the office, arranges coverage for assigned clinical tasks on patients and ensures appropriate continuity of care
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 and professionally discusses with the patient, family, and interprofessional team
Level 5 Takes ownership of 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

Curriculum Mapping	
Notes or Resources	American Medical Association Code of Ethics. https://www.ama-assn.org/delivering-
	care/ama-code-medical-ethics. Accessed 2019
	Code of conduct from fellow/resident institutional manual
	Expectations of fellowship program regarding accountability and professionalism

Professionalism 3: Well-Being Overall Intent: To identify, manage, and seek help for personal and professional well-being for self and others	
Milestones	Examples
Level 1 Recognizes status of personal and	After discussion with the attending, acknowledges own emotional response to patient's
professional well-being, with assistance	terminal cancer diagnosis
Recognizes limits of the team, with assistance	Receives feedback on missed emotional cues after a family meeting
Level 2 Independently recognizes status of personal and professional well-being	Independently identifies and communicates impact of a personal family tragedy
Independently recognizes status of personal and professional well-being of the team	 Recognizes a pattern of missing emotional cues during family meetings and asks for feedback
Level 3 With assistance, proposes a plan to optimize personal and professional well-being	With the multidisciplinary team, develops a reflective response to deal with personal impact of difficult patient encounters and disclosures
With assistance, proposes a plan to optimize personal and professional well-being of the team	 Integrates feedback from the multi-disciplinary team to develop a plan for identifying and responding to emotional cues during the next family meeting
Level 4 Independently develops a plan to optimize personal and professional well-being	Independently identifies ways to manage personal stress (physical activity)
Independently develops a plan to optimize personal and professional well-being of the team	 Recognizes that team member needs time away to deal with a personal tragedy and proactively coordinates coverage
Level 5 Coaches others when emotional responses or limitations in knowledge/ skills do	 Assists in organizational efforts to address clinician well-being after patient diagnosis/prognosis/death
not meet professional expectations	 Works with multi-disciplinary team to develop a feedback framework for learners around difficult conversations with patients regarding a terminal cancer diagnosis
Assessment Models or Tools	Direct observation
	Group interview or discussions for team activities
	Institutional online training modulesSelf-assessment and personal learning plan
Curriculum Mapping	
Notes or Resources	Local resources, including Employee Assistance
	• ACGME. Tools and Resources. https://www.acgme.org/What-We-Do/Initiatives/Physician-Well-Being/Resources . 2019.

General Surgery SCORE Curriculum Professionalism Delivering Bad News https://www.surgicalcore.org/index 2019.
• General Surgery SCORE Curriculum on Wellness https://www.surgicalcore.org/resources 2019.

Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication Overall Intent: To develop language and behaviors to form constructive relationships with patients, identify and minimize communication barriers; organize and lead communication around shared decision making	
Milestones	Examples
Level 1 Establishes a professional rapport with patients and communicates in a clear and understandable manner	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)	Identifies need for trained interpreter with non-English-speaking patients
Level 2 Establishes a therapeutic relationship in straightforward patient encounters and compassionately delivers medical information	 Avoids medical jargon and restates patient perspective when discussing surgical procedures and cancer diagnosis
Identifies complex barriers to effective communication (e.g., health literacy, cultural)	Recognizes the need for handouts with diagrams and pictures to communicate information to a patient who is unable to read
Level 3 Establishes a therapeutic relationship in challenging patient encounters and acknowledges uncertainty in alignment of goals	Continues to engage patient and representative family members with disparate goals in the care of a patient with cancer
When prompted, reflects on personal biases while attempting to minimize communication barriers	After discussion with attending, realizes that she/he has been avoiding family discussion of withdrawal of care given the fellow's grandfather's recent death from pancreatic cancer
Level 4 Uses shared decision making to align patient/family values, goals, and preferences with treatment options to make a personalized care plan	 Conducts a family meeting regarding withdrawal of care for a terminally ill cancer patient Uses patient and family input to engage palliative care and develop a plan for home hospice in the terminally ill cancer patient, aligned with the patient's values
Independently recognizes personal biases while attempting to proactively minimize communication barriers	Admits to an aversion to caring for a patient with cancer who continues to smoke
Level 5 Mentors others in situational awareness and critical self-reflection to consistently develop positive therapeutic relationships	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 curriculum on social justice which addresses unconscious bias Serves on a hospital bioethics committee
Assessment Models or Tools	Direct observation Mock oral examination Multisource feedback
	Self-assessment including self-reflection exercises
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. doi:10.3109/0142159X.2011.531170. Makoul G. Essential elements of communication in medical encounters: the Kalamazoo consensus statement. <i>Acad Med</i>. 2001;76(4):390-393. https://journals.lww.com/academicmedicine/Fulltext/2001/04000/Essential Elements of Communication in Medical.21.aspx#pdf-link. 2019. Makoul G. The SEGUE Framework for teaching and assessing communication skills. <i>Patient Educ Couns</i>. 2001;45(1):23-34. Symons AB, Swanson A, McGuigan D, Orrange S, Akl EA. A tool for self-assessment of communication skills and professionalism in residents. <i>BMC Med Educ</i>. 2009;9:1. doi:10.1186/1472-6920-9-1.

Assessment Models or Tools

Interpersonal and Communication Skills 2: Interprofessional and Team Communication Overall Intent: To effectively communicate with the health care team, including consultants, in both straightforward and complex situations **Milestones Examples** Level 1 Uses language that values all members • When asking for a cardiology consultation for a patient with acute postoperative electrocardiogram changes and elevated cardiac enzymes, respectfully relays the of the health care team diagnosis and need for assessment • Receives consult request for a patient with painless jaundice and pancreatic head mass, asks clarifying questions politely Respectfully receives feedback on performance • Respectfully listens to the advanced practice provider who states their concern that the as a member of the health care team fellow is being too short with patients during morning rounds **Level 2** Communicates information effectively • As a consultant, communicates diagnostic evaluation recommendations clearly and concisely in an organized and timely manner with the primary medical team with all health care team members Asks the advanced practice provider and the morning rounding team if the fellow's Solicits feedback on performance as a member interactions with patients have improved of the health care team Level 3 Uses active listening to adapt • When receiving treatment recommendations from a consulting physician, repeats back communication style to fit team needs the plan to ensure understanding Communicates concerns and provides feedback After a consultation has been completed, communicates patient care concerns to the to peers and learners primary care and verifies they have received and understand the recommendations **Level 4** Coordinates recommendations from Seeks and receives consultation from gastroenterology and interventional radiology regarding a hemodynamically unstable patient with a gastrointestinal bleed and different members of the health care team to optimize patient care and maintains effective determines best method of addressing bleeding and communicates plan to consultants communication in crisis situations • Meets with attending and discusses the attending's teaching style and clarifies the need Communicates feedback and constructive for more feedback on their performance criticism to superiors Level 5 Role models flexible communication Mediates a conflict resolution between different members of the health care team strategies that value input from all health care team members, resolving conflict when needed Facilitates regular health care team-based feedback in complex situations

Direct observation

	Global assessment Multisource feedback
Curriculum Mapping	•
Notes or Resources	 Roth CG, Eldin KW, Padmanabhan V, Freidman EM. Twelve tips for the introduction of emotional intelligence in medical education. <i>Med Teach</i>. 2019;41(7):1-4. doi:10.1080/0142159X.2018.1481499. Green M, Parrott T, Cook G., Improving your communication skills. <i>BMJ</i>. 2012;344:e357. doi:10.1136/bmj.e357. Henry SG, Holmboe ES, Frankel RM. Evidence-based competencies for improving communication skills in graduate medical education: a review with suggestions for implementation. <i>Med Teach</i>. 2013;35(5):395-403. doi:10.3109/0142159X.2013.769677. Dehon E, Simpson K, Fowler D, Jones A. Development of the faculty 360. <i>MedEdPORTAL</i>. 2015;11:10174. doi:10.15766/mep_2374-8265.10174. Lane JL, Gottlieb RP. Structured clinical observations: a method to teach clinical skills with limited time and financial resources. <i>Pediatrics</i>. 2000;105(4):973-7. https://pdfs.semanticscholar.org/8a78/600986dc5cffcab89146df67fe81aebeaecc.pdf. 2019. 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. doi:10.1001/jama.282.24.2313.

Interpersonal and Communication Skills 3: Communication within Health Care Systems Overall Intent: To demonstrate effective communication skills within the context of the health care system	
Milestones	Examples
Level 1 Accurately records information in the patient record	Documentation is timely and accurate, without unedited copy/paste, but may include extraneous information
Communicates through appropriate channels as required by institutional policy (e.g., patient safety reports, cell phone/pager usage)	Identifies institutional and departmental communication hierarchy for concerns and safety issues
Level 2 Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record	Organized and accurate documentation outlines clinical reasoning that supports the treatment plan
Demonstrates efficient use of electronic health record to communicate with the health care team	Develops documentation templates for the hepatobiliary rotation and allows for appropriate sign-out
Level 3 Concisely integrates all relevant data from outside systems and prior encounters and reports diagnostic and therapeutic reasoning in the patient record	In clinic, sees and evaluates a patient referred with a liver mass from a primary care physician, reviews all records from outside hospital, and succinctly documents all relevant information in the medical record
Appropriately selects direct (e.g., telephone, in- person) and indirect (e.g., progress notes, secure text messages) forms of communication based on context and urgency	Effectively uses the system to appropriately notify a patient immediately about potentially critical test result
Level 4 Communicates clearly, concisely, timely, and in an organized written form, including anticipatory guidance	Documents goals of care for a patient with end-stage cancer and anticipates catastrophic events based on poor prognosis
Achieves written or verbal communication (e.g., patient notes, email) that serves as an example for others to follow	Consultation notes are exemplary and used by the service to teach others
Level 5 Models feedback to improve others' written communication	Leads a task force established by the hospital QI committee to develop a plan to improve hand-offs

Guides departmental or institutional communication around policies and procedures	Meaningfully participates in a committee to examine communication between the surgical teams and intensive care unit (ICU) to minimize ICU readmissions
Assessment Models or Tools	Direct observation Medical record (chart) audit
	Multisource feedback
Curriculum Mapping	
Notes or Resources	Bierman JA, Hufmeyer KK, Liss DT, Weaver AC, Heiman HL. Promoting responsible electronic documentation: validity evidence for a checklist to assess progress notes in the electronic health record. <i>Teach Learn Med.</i> 2017;29(4):420-432. doi:10.1080/10401334.2017.1303385.
	• Starmer AJ, et al. I-pass, a mnemonic to standardize verbal handoffs. <i>Pediatrics</i> . 2012;129(2):201-204. doi:10.1542/peds.2011-2966.
	Haig KM, Sutton S, Whittington J. SBAR: a shares mental model for improving
	communications between clinicians. <i>Jt Comm J Qual Patient Saf.</i> 2006;32(3):167-75. https://www.jointcommissionjournal.com/article/S1553-7250(06)32022-3/fulltext. 2019.

In an effort to aid programs in the transition to using the new version of the Milestones, we have mapped the original Milestones 1.0 to the new Milestones 2.0. Below we have indicated where the subcompetencies are similar between versions. These are not necessarily exact matches, but are areas that include some of the same elements. Note that 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: Hepatobiliary/Pancreas: Evaluation and Multimodality Care	PC1: Patient Evaluation and Clinical Decision Making
PC2: Hepatobiliary/Pancreas: Technical Aspects of	PC2: Management of Intra-Operative Complications
Surgical Interventions	PC3: Intra-Operative Oncologic Decision Making
	PC4: Intra-Operative Patient Care – Procedural Skills
	PC5: Intra-Operative Patient Care – Operative Autonomy
PC3: Endocrine/Head and Neck: Evaluation and Multimodality Care	PC1: Patient Evaluation and Clinical Decision Making
PC4: Endocrine/Head and Neck: Technical Aspects of	PC2: Management of Intra-Operative Complications
Surgical Interventions	PC3: Intra-Operative Oncologic Decision Making
	PC4: Intra-Operative Patient Care – Procedural Skills
	PC5: Intra-Operative Patient Care – Operative Autonomy
PC5: Gastrointestinal/Gynecology/Thoracic: Evaluation and Multimodality Care	PC1: Patient Evaluation and Clinical Decision Making
PC6: Gastrointestinal/Gynecology/Thoracic: Technical	PC2: Management of Intra-Operative Complications
Aspects of Surgical Interventions	PC3: Intra-Operative Oncologic Decision Making
	PC4: Intra-Operative Patient Care – Procedural Skills
	PC5: Intra-Operative Patient Care – Operative Autonomy
PC7: Breast: Evaluation and Multimodality Care	PC1: Patient Evaluation and Clinical Decision Making
PC8: Breast: Technical Aspects of Surgical Interventions	PC2: Management of Intra-Operative Complications
	PC3: Intra-Operative Oncologic Decision Making
	PC4: Intra-Operative Patient Care – Procedural Skills
	PC5: Intra-Operative Patient Care – Operative Autonomy
PC9: Melanoma, Sarcoma, Common and Rare Cutaneous	PC1: Patient Evaluation and Clinical Decision Making
and Soft Tissue Malignancies: Evaluation and	
Multimodality Care	
PC10: Melanoma, Sarcoma, Common and Rare	PC2: Management of Intra-Operative Complications
Cutaneous and Soft Tissue Malignancies: Technical	PC3: Intra-Operative Oncologic Decision Making
Aspects of Surgical Interventions	PC4: Intra-Operative Patient Care – Procedural Skills
	PC5: Intra-Operative Patient Care – Operative Autonomy

No match	PC6: Immediate Post-Operative Care
No match	PC7: Post-Operative Oncologic Management
MK1: General Knowledge Assessment	MK1: Anatomy
	MK2: Cancer Biology
	MK3: Therapeutics
No match	MK4: Clinical Trials
SBP1: Administrative Responsibility	SBP1: Patient Safety and Quality Improvement
	PROF2: Accountability/ Conscientiousness
SBP2: Coordination and Transitions of Care	SBP2: System Navigation for Patient-Centered Care
	ICS2: Interprofessional and Team Communication
PBLI1: Improvement of Care	SBP1: Patient Safety and Quality Improvement
PBLI2: Scholarly Activity	PBLI1: Evidence-Based and Informed Practice
	PBLI3: Scholarly Activity
PBLI3: Teaching	No match
PBLI4: Self-Directed Learning	PBLI2: Reflective Practice and Commitment to Personal Growth
PROF1: Professionalism and Personal Behavior	PROF1: Professional Behavior and Ethical Principles
PROF2: Ethical Issues in Cancer Patients	PROF1: Professional Behavior and Ethical Principles
PROF3: Personal Responsibility	PROF2: Accountability/ Conscientiousness
PROF4: Healthy Work Environment	PROF3: Wellness
ICS1: Effective Communication with Patients and Families	ICS1: Patient and Family-Centered Communication
ICS2: Effective Communication with the Multidisciplinary	ICS2: Interprofessional and Team Communication
Cancer Team	
No match	SBP3: Physician Role in Health Care Systems
No match	ICS3: Communication within Health Care Systems