



Curriculum Outline for Surgical Oncology

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SURGICAL COUNCIL ON RESIDENT EDUCATION

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INTRODUCTION

EXPLANATION OF THE CURRICULUM OUTLINE

The **SCORE Curriculum Outline for Complex General Surgical Oncology** is a list of surgical oncology patient care topics to be covered over the course of a 24-month Surgical Oncology training program and represents core education in Complex General Surgical Oncology (CGSO). This list will be updated periodically to ensure that it remains contemporary.

The outline has been created with input from the Surgical Oncology Board of the ABS and the Society for Surgical Oncology to define the knowledge and skills to be acquired by a CGSO fellow by completion of training.

With help from these groups, modules have been developed to address each of the patient care topics, consisting of learning objectives with bullet points outlining what trainees should know, questions to assess their understanding of each topic, and links to other text resources for further study. Additional modules will be developed until all of the topics on the curriculum outline are covered. For more information, see www.surgicalcore.org.

CLASSIFICATION SYSTEM

The patient care curriculum topics are organized into 15 disease-site and discipline-based categories. Within each category, the topics are further separated into Diseases/Conditions and Operations/Procedures. The topics are then stratified into two levels using the same classifications:

CORE – Diseases and procedures encountered in Complex General Surgical Oncology for which a graduate of training will possess significant knowledge and be able to provide comprehensive care, including procedural competency.

ADVANCED – Diseases and procedures that are not consistently part of Complex General Surgical Oncology practice for which a graduate of training should have sufficient knowledge to make a diagnosis and provide initial management. In some instances, graduates will have sufficient knowledge and experience to provide comprehensive care.

This curriculum is designed to be completed over the course of a 24-month Surgical Oncology Training Program and represents core education in Complex General Surgical Oncology.

Category 1: Upper Gastrointestinal

Diseases/Conditions

CORE

- Esophageal Cancer
- Small Bowel Cancer
- Stomach Cancer

ADVANCED

- Upper GI Tract Polyps

Operations/Procedures

CORE

- Esophageal Resection (Open and MIS)
- Gastric Resections (Open and MIS)
- Small Bowel Resections (Open and MIS)
- Splenectomy for Hematologic Malignancy and Metastatic Disease (Open and MIS)

ADVANCED

- Diagnosis and Management of Barrett's Esophagus and Superficial (T1) Esophageal Cancers
- Palliative Management of Locally-Advanced, Unresectable Esophageal Cancer

Category 2: Hepato-Pancreato-Biliary

Hepatic

Diseases/Conditions

CORE

- Liver Mass
- Liver Tumor: Benign
- Liver Tumors: Primary Malignant

Operations/Procedures

CORE

- Ablation of Liver Lesions
- Hepatic Biopsy and Intraoperative Ultrasound
- Major Hepatectomy
- Non-anatomic Hepatic Resection

ADVANCED

- Ex-vivo Resection/Transplantation for Hepatic Neoplasms
- Liver-directed Therapy
- Placement of a Hepatic Artery Infusion Pump

Pancreas

Diseases/Conditions

CORE

- Pancreas: Benign Disease
- Pancreas: Cystic Neoplasms
- Pancreatic Adenocarcinoma
- Pancreatic Neuroendocrine Tumors

ADVANCED

- Unusual Pancreatic Tumors

Operations/Procedures

CORE

- Diagnostic Procedures for Pancreatic Disease
- Limited Resection for Pancreatic Disease
- Major Pancreatic Resections

Biliary

Disease/Conditions

CORE

- Cholangiocarcinoma
- Choledochal Cyst
- Gallbladder
- Gallbladder Cancer
- Pseudotumors of the Biliary Tree

Operations/Procedures

CORE

- Extrahepatic Biliary Ductal Resection
- Radical Cholecystectomy

Category 3: Colorectal

Diseases/Conditions

CORE

- Anal Cancer
- Appendiceal Tumors
- Colon Cancer
- Rectal Cancer

ADVANCED

- Colorectal Cancer Syndrome

Operations/Procedures

CORE

- Anal Resections
- Colon Resections, Open and MIS
- Colorectal \rightarrow Cytoreduction/Cytoreduction Plus Hyperthermic Intraperitoneal Chemoperfusion
- Pelvic Exenteration
- Rectal Resections, Open and MIS

Category 4: Cutaneous Oncology

Diseases/Conditions

CORE

- Dermatofibrosarcoma Protuberans (DFSP)
- Management of In-transit Disease
- Management of Regional Nodal Disease from Melanoma
- Merkel Cell Carcinoma
- Non-Melanoma Skin Cancer
- Primary Melanoma

ADVANCED

- Non-Melanoma Pigmented Lesions and Atypical Spitzoid Lesions

Operations/Procedures

CORE

- Axillary Dissection
- Complex Skin Closures
- Inguinal-Inguinopelvic Lymphadenectomy
- Isolated Regional Therapy
- Modified Radical Neck Dissection (including Parotidectomy)
- Popliteal and Epitrochlear Dissections
- Sentinel Lymph Node Biopsy
- Wide Local Excision/Closure

Category 5: Breast

Diseases/Conditions

CORE

- Benign Breast Disease
- High Risk for Breast Cancer
- In Situ Breast Cancer
- Invasive Breast Cancer (Early Stage)
- Locally Advanced Breast Cancer (Stage IIB/III)
- Special Populations/Extremes of Breast Cancer
- Uncommon Breast Tumors

ADVANCED

- Breast Metastatic Disease
- Reconstruction Options

Operations/Procedures

CORE

- Hormonal Therapy
- Lymph Node Staging
- Partial Mastectomy
- Role of Breast Radiation Therapy
- Systemic Therapy
- Total Mastectomy

Category 6: Soft Tissue and Bone Sarcoma

Diseases/Conditions

CORE

- Extremity and Trunk Sarcoma
- Gastrointestinal Stromal Tumor
- Retroperitoneal, Pelvic, and Abdominal Visceral Sarcomas
- Unusual and Rare Histologies

ADVANCED

- Sarcomas of the Breast and Gynecologic Tract
- Soft Tissue and Bone Sarcoma – Advanced Disease

Operations/Procedures

CORE

- Extremity and Trunk Sarcomas - Procedures

Category 7: Peritoneal Surface Malignancies

Diseases/Conditions

CORE

- Peritoneal Surface Malignancy

Operations/Procedures

CORE

- Peritoneal Surface Malignancy Procedures

Category 8: Endocrine

Diseases/Conditions

CORE

- Adrenal Mass
- Diagnosis and Evaluation of Thyroid Nodules
- Primary Hyperparathyroidism

Operations/Procedures

CORE

- Adrenalectomy
- Parathyroidectomy
- Thyroidectomy and Lymphadenectomy

Category 9: Head and Neck

Diseases/Conditions

CORE

- Head and Neck Malignancies and Concerns for the Surgical Oncologist

Category 10: Thoracic Malignancies

Diseases/Conditions

CORE

- Thoracic Malignancies

Category 11: Genitourinary

Diseases/Conditions

ADVANCED

- Genitourinary Malignancies and Concerns for the Surgical Oncologist

Category 12: Medical Oncology

Diseases/Conditions

CORE

- Cytotoxic Chemotherapy
- Immunotherapeutic Agents
- Targeted Therapeutic Agents

ADVANCED

- Surgical Considerations in the Medical Oncology Patient

Operations/Procedures

CORE

- Insertion of Indwelling Chemotherapy Deliverance Devices
- Lymph Node Biopsy for Hematologic Malignancies
- Splenectomy for Hematologic Malignancies and ITP/TTP
- Surgical Considerations in the Neutropenic Patient

ADVANCED

- Bone Marrow Biopsy

Category 13: Radiation Oncology

Diseases/Conditions

ADVANCED

- Radiation Oncology

Category 14: Genetics

Diseases/Conditions

CORE

- Surgical Management/Counseling for Genetic Syndromes

Category 15: Pathology

Diseases/Conditions

CORE

- Pathology