Date		Title	Basic Objectives	Advanced Objectives				
	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
8/17/2020	CV 01	Cardiac Surgery General Management I	Cardiac Anatomy	Advanced Anatomy	Chon's: Chapters 2, 3	Cardiac Surgery General Management Benchmark quiz		Bobovnikov
Week 1			Cardiac Physiology	Advanced Physiology				
	CV 02		Cardiovascular pharmacology, Microbiology	Pathology				
8/24/2020 Week 2	CV 03	Cardiac Surgery General Management III	Diagnosis, evaluation and treatment Risk assessment Cardiopulmonary resuscitation	Risk assessment guidelines Cardiac Rehabilitation	Chon's: Chapters 9, 16			Eisenberg
	CV 04	Cardiac Surgery General Management IV	management of complications of cardiac surgery cardiac tamponade postoperative management	wound infection/sternal disruption				
8/31/2020 Week 3	CV 05	Cardiopulmonary bypass/myocardial protection/circulatory support I	Introduction to CPB	Pathopysiology of CPB	Chon's: Chapters 12, 15	Cardio Bypass/Myocardial Protection/Circulatory Support Benchmark quiz	Cardiac Surgery General Management Benchmark quiz	Jaime Vilela
	CV 06	protection/circulatory support II	Myocardial Protection	Management of Coagulapathy / HIT				
09/07/2020 Week 4				Labor Day				
09/14/2020 Week 5	TS01	Thoracic Surgery General Management I	Lung anatomy	Imaging of the Lungs	Pearson: Chapters 2, 35	Thoracic Surgery General Management Benchmark quiz	Cardio Bypass/Myocardial Protection/Circulator y Support Benchmark quiz	Rajaram
	TS02	Thoracic Surgery General Management II	Pulmonary Physiololgy Testing	Risk Assessment				
9/21/2020 Week 6			Coron	ary Bypass Simulation				
09/28/2020 Week 7	TS03	Thoracic Surgery General Management III	Anesthesia/Pain Management	Thoracic Incisions	Pearson: Chapters 13, 14			Mehran
-	TS04	Thoracic Surgery General Management IV	Post-operative Care of the Thoracic Surgery Patient	Early and Late Postop Complications				

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10/05/2020 Week 8	TS05	Neoplasm of the lung I	Benign and Malignant tumors	Lung Cancer Screening	Pearson: Chapter 57, Biology & Epidemiology Lung CA screening Version 1.2015 NCCN Guidelines	Neoplasm of the Lung Benchmark quiz	Thoracic Surgery General Management Benchmark quiz	Walsh
			Epidemiology and genetics signatures presentation					
	TS06	Neoplasm of the lung II	Stage I Staging including all staging tools	Stage I treatment and multimodality	Pearson: Ch 60 Pearson: Ch 61, pgs 765-772			
			Stage I survival and recurrence patterns	Non-resectional techniques				
10/12/2020 Week 9	TS 07	Neoplasm of the lung III	Stage II Staging including all staging tools	Stage II treatment and multimodality	Pearson: Chapter 61, pgs 772-778 European Jrnl of Cardiothoracic Surgery, Revised ESTS Guidelines fo Pre-op Mediastinal			Rice
			Stage II survival and recurrence patterns	Non-resectional techniques				
	TS 08	Neoplasm of the lung IV	Stage III Staging including all staging tools	Stage III treatment and multimodality				
			Stage III survival and recurrence patterns	Non-resectional techniques				
10/19/2020 Week 10	TS 09	Neoplasm of the lung V	Stage IV Staging including all staging tools	Stage IV treatment and multimodality	Pearson: Chapter 65 Pearson: Chapter 69			
			Stage IV survival and recurrence patterns	Non-resectional techniques surgical palliation				Sepesi
	TS 10	Neoplasm of the lung VI	Secondary and metastatic neoplasm of the lung	Secondary and metastatic neoplasms: outcomes, treatment				
10/26/2020 Week 11	CV 07	Ischemic Heart Disease I	Diagnosis, investigation of IHD Cardiac Imaging	Management guidelines	John Hopkins Manual of Cardiac Surgical Care: Chapter 3	lschemic Heart Disease Benchmark quiz	Neoplasm of the Lung Benchmark quiz	Konstantinos Charitakis
	CV 08	Ischemic Heart Disease II	Role of PCI, hybrid approaches and non- operative treatment	Combined coronary / carotid disease	2015 AHA/ACC Guidelines for the management of Patients with Non- ST			
11/02/2020 Week 12	CV 09	Ischemic Heart Disease III	Surgical revascularization On / off pump Approaches	Role of TMR, Repeat revascularization	Cohn's:			Bobovnikov
	CV 10	11	Complications of IHD / MI Presentation / Diagnosis / Treatment	Treatment options for complications of IHD / MI				

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11/09/2020 Week 13			Va	lve Simulation Lab				
11/16/2020 Week 14	TS 11	Benign Lung Conditions I	Bronchiectasis (knowledge)	Bronchiectasis (patient care)	Pearson: Chapter 41 Pearson: Chapter 43 Pearson: Chapter 44	Benign Lung Condition Benchmark quiz	Ischemic Heart Disease Benchmark quiz	Hofstetter
			Bacterial Infection (general overview)	Bacterial Infection (nosocomial infection, community acquired)				
	TS 12	Benign Lung Conditions II	Tuberculosis and atypical mycobacteria (knowledge)	Tuberculosis and atypical mycobacteria (patient care)				
			Mycotic infection (knowledge)	Mycotic infection (patient care)				
11/23/2020	TS 13	Benign Lung Conditions III	Parasitic Disease (knowledge) hemoptysis	Parasitic Disease (patient care)	Pearson: Chapter 45			Mehran
Week 15			Interstitial Lung Disease (Knowledge)	Interstitial Lung Disease (patient care)				
	TS 14	Benign Lung Conditions IV	Emphysema and Bullae (etiology and pathophysiology, indications for bullectomy)	Emphysema and Bullae (Nett trial part 1 and 2, pulmonary rehab)	Pearson: Chapter 46, The National Emphesema Treatment Trial (NETT) Part 2 - Lessons Learned			
1/30/2020 Week 16				ORAL BOARDS				
12/7/2020	CV 11	Heart Valve Disease I	Aortic valve anatomy and physiology	Results of Surgery (AS)		Heart Valve Disease Benchmark quiz	Benign Lung Condition Benchmark quiz	
Week 17			AS pathophysiology	Guidelines (AS)				Nguyen
			Diagnosis/assessment Indications for operative management	Guidelines (Al)				
	CV 12	Heart Valve Disease II	AI pathophysiology	Results of Surgery (AI)				
			Diagnosis/assessment	Guidelines (Al)				
			Indications for operative management (AI)					
12/14/2020	CV 13A	Heart Valve Disease III	Mitral valve anatomy physiology	Guidelines (MR)				

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	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
Week 18			MR pathophysiology/natural history	Treatment of Degenerative MR	Learn CT Surgery			Abreu
			Diagnosis and assessment	Results of Surgery (MR)				
			Indications for operative management (MR)	Percutaneous Treatment				
	CV 13B	Heart Valve Disease III	lschemic MR	Operative Treatment Ishcemic MR				
				Results of Surgery Ischemic MR				
	CV 14	Heart Valve Disease IV	MS pathophysiology/natural history	Results of Surgery (MS)				
			Diagnosis and assessment	Guidelines (MS)				
			Indications for operative management (MS)					
12/21/2020	CV 15	Heart Valve Disease V	Tricuspid valve anatomy and physiology		Learn CT Surgery			
Week 19			Pulmonary valve	Guidelines (TV)				Abreu
			Diagnosis and assessment					
			Indications for operative management (TV)					
	CV 16	Heart Valve Disease VI	Endocarditis general indications	Operative timing, Prosthetic Valve Endocarditis				
			Antibiotics/prophylaxis	Endocarditis Guidelines				
12/28/2020 Week 20	CV!17	Heart Valve Disease VII	TAVR	TAVR Guidelines	Learn CT Surgery			
								Prakash Balan

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	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
1/4/2021	TS 15	Disorders of the pleura I	anatomy and pathophysiology of the pleura	hyperhydrosis	Pearson's e-book ch 82 STS Consensus on Hyperhydrosis (AnnThoracSurg)	Disorders of the Pleura Benchmark quiz	Heart Valve Disease Benchmark quiz	Sepesi
Week 21	TS 16	Disorders of the pleura II	Mesothelioma and fibrous tumors	Mesothelioma and fibrous tumors	Pearson's e-book chapter 91			
1/11/2020	TS 17	Disorders of the pleura III	lung abscess and empyema (knowledge)	lung abscess and empyema (patient care)	Pearson's e-book chapter 86			
Week 22	TS 18	Disorders of the pleura IV	pleural effusions (general information and benign)	pleural effusions (malignant)	Pearson's chapter 85			Swisher
01/18/2021 Week 23			Μ	arthin Luther King	-	-		
1/25/2021	TS 17	Disorders of the pleura III	lung abscess and empyema (knowledge)	lung abscess and empyema (patient care)	Pearson's e-book chapter 86			Walsh
Week 24	TS 18	Disorders of the pleura IV	pleural effusions (general information and benign)	pleural effusions (malignant)	Pearson's chapter 85			
2/1/2020 Week 25			STS Annual Meet	ing - January 30-February	2, 2021			
					Learn CT Surgery	Great Vessel Disease Benchmark quiz	Disorders of the Pleura Benchmark quiz	
2/1/2021 Week 26	CV 18	Great Vessel Disease I	General overview	Imaging interpretation				Estrera
			Vascular pathology					
			Natural history					
	CV 19	Great Vessel Disease II	Management of Ascending Aneurysms Arch Aneurysms	Aortic Dissection Operative Technique				

Date		Title	Basic Objectives	Advanced Objectives				
	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
			Indications for surgery/risk assessment	Neurologic Injury				
02/08/2021 Week 27			Aorta,	Aortic Simulation Lab				
02/15/2021 Week 28				President's Day				
2/22/2021	CV 20	Great Vessel Disease III	Management of Descending and Thoracoabdominal Aneurysms	Endovascular Treatment	Learn CT Surgery			Estrera
Week 29	CV 21	Great Vessel Disease IV	Acute Thromboembolic disease	Chronic Thromboembolic Disease Imaging in Thromboembolic Disease				
3/1/2021	TS 19	Disorders of the chest wall I	anatomy (basic)	Anatomy (advanced)	>Anatomy of ribs/sternum (ThorSurgClin)	Disorders of the Chestwall Benchmark quiz	Great Vessle Disease Benchmark quiz	
Week 30			diagnosis and imaging of the chest wall (basic)	diagnosis and imaging of the chest wall: (advanced)	>Pearsons Chapter 99			Rice
	TS 20	Disorders of the chest wall II	Chest wall tumor (knowledge, patient care)	chest wall resection and reconstruction and outcomes	>Soft tissue (ThorSurgClin) >Osseous tumors (ThorSurgClin)			
				Inflammatory and infectious conditions	>Pearsons Chapter 102			
03/08/2021 Weelk 31	TS 21	8	Thoracic Outlet syndrome	Congenital and Pectus Deformity	>Pearsons chapter 111			Sepesi
	CV 22	Cardiac Conduction System Disorders I	Anatomy of conduction pathways	Surgical treatment of atrial fibrillation	Learn CT Surgery	Cardiac Conduction System Benchmark quiz	Disorders of the Chestwall Benchmark quiz	
3/15/2021			Atrial conduction disorders					Eisenberg
								2.001.0018
Week 32								
	CV 23	Cardiac Conduction System Disorders II	Pacemakers and AICD	Complications of pacemakers and AICD				

Date		Title	Basic Objectives	Advanced Objectives				
	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
03/22/2021 Week 32			AI	FIB Simulation Lab				
03/29/2021 Week	CV 24	Myocardium I	Pathophysiology (tamponade, constrictive, restrictive) Diagnosis and imaging	Pericardial disease patient management	Learn CT Surgery	Diseases of the Pericardium and Myocardium Benchmark quiz	Cardiac Conduction System Benchmark quiz	Eisenberg
33	CV 25	Diseases of the Pericardium and Myocardium II	cardiac tumor knowledge	cardiac tumor management/technical skills				Liselibelg
04/05/2021 Week 34	CV 26	Diseases of the Pericardium and Myocardium III	HOCM knowledge	HOCM management/technical skills	Learn CT Surgery			Manish Patel
04/12/2021 Week 35	TS 23	Disorders of the mediastinum I	mediastinal general knowledge	mediastinal infections	Acute Necrotizing Mediastinitis (Pearsons Ch 125) Chronic Mediastinitis (Pearsons Ch 126)	Disorders of the Medistinum Benchmark quiz	Diseases of the Pericardium and Myocardium Benchmark quiz	Mehran
	TS 24	Disorders of the mediastinum II	Diagnosis/assessment Lymphoma	Germ cell tumors	Germ Cell Tumors (Pearsons Ch 132) Lymphoma (Pearsons Ch 133) read the initial sections on "Biopsy Techniques and Specimen			
4/19/2021	TS 25	Disorders of the mediastinum III	mediastinal cysts	misc mediastinal tumor	mediastinal cysts and duplications			Rajaram

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	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
Week 36				neurogenic tumors	Neurogenic tumors (Pearsons Ch 134) Thymic Tumors (Pearsons Ch 131) Surgery for MG (Pearsons Ch 128)			
	TS 26	Disorders of the mediastinum IV	Thymic knowledge	Thymic tumors patient management/clinical skills				
4/26/2021 Week 37	TS 25	Disorders of the mediastinum III	mediastinal cysts	misc mediastinal tumor	mediastinal cysts and duplications (Pearsons Ch 130) Neurogenic tumors (Pearsons Ch 134) Thymic Tumors (Pearsons Ch 131) Surgery for MG (Pearsons Ch 128)			Rice
				neurogenic tumors				
	TS 26	Disorders of the mediastinum IV	Thymic knowledge	Thymic tumors patient management/clinical skills				
5/3/2021	CV 27	Heart Failure and Cardiac Transplant I	Diagnosis and management of heart failure Non transplant surgical options	Guidelines, Operative Techniques	Learn CT Surgery		Disorders of the Mediastinum Benchmark guiz	Keshava Rajagopal
Week 38	CV 28	Heart Failure and Cardiac Transplant II	General information (devices)	General Information (outcomes)		Deneminary duiz	Dentimiark utilz	
5/10/2021								Keshava Rajagopal
Week 39	CV 29	Heart Failure and Cardiac Transplant III	LVAD knowledge Adult ECMO	LVAD management/clinical skills	Learn CT Surgery			

Date		Title	Basic Objectives	Advanced Objectives				
	Topics	Core ABTS Curriculum Topic	Basic Level Content	Advanced Level Content	Suggested Readings	Pre Quiz	Post Quiz	Faculty
	CV 30	Heart Failure and Cardiac Transplant IV	Transplant knowledge	Transplant knolwdge				
5/17/2021	CV 31	Cardiothoracic trauma I	general management of Cardiothoracic Trauma	aortic injury patient management	Learn CT Surgery	Cardiothoracic Trauma Benchmark quiz	Heart Failure and Cardiac Transplant Benchmark quiz	
			aoritc and cardiac injury knowledge	cardiac injury patient management				
5/24/2021 Week 40	CV 32	Cardiothoracic trauma II	chest wall and pulmonary injury knowledge diaphragm injury knowledge	chest wall and pulmonary injury management diaphragm injury management	*Flail chest and Pul Contusion (Seminars) *Management of blunt chest and			Rascoe
	CV 33	Cardiothoracic trauma III	Esophageal injury knowledge Tracheobronchial injury knowledge	Esophageal injury management Tracheobronchial injury management	diaphragm inj (Pearsons 146) * Caustic inj to the esoph (pearsons 70) * Esoph perf (Pearsons 73) * Tracheobronchial trauma (Pearsons 145)			
5/31/2021 Week								
41				Memorial Day				
6/7/2021 week 42				ORAL BOARDS				
6/14/2021	TS 29	Disorders of the Airway I	anatomy of the larynx trachea and bronchus	Techniques for surgical resection	* Anatomy of trachea (Grillo ch 1) * Main and Lobar Bronchoplasty (Grillo ch 30) * Path of tracheal tumors (Grillo ch	Disorders of the Airway Benchmark quiz	Cardiothoracic Trauma Benchmark quiz	Mehran
Week 43			Signs/symptoms and presentation of airway disease	Bronchoplastic procedures	* Tracheal resection (Grillo ch 32)			

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	TS 30	Disorders of the Airway II	Pathology of tracheal tumors	Medical and oncologic airway disease treatments				
6/21/2021 Week 44	TS 31	Disorders of the Airway III	Sign and symptoms of anastomotic complications and tracheoesophageal fistula	Management of anastomotic complications and treatment of tracheoesophageal fistula	* Complications of tracheal reconstruction (Grillo ch 21) * Repair of aquired fistula (Grillo ch 26)			Rajaram
6/28/2021 Week 45	TS 32	Management of Benign Esophageal Disorders I	Esophageal anatomy	Anatomy of Small Bowel and Colon. Reconstruction with Stomach, Small Bowel, or Colon	* Clinically oriented anatomy (Pearsons 2) * Function tests (Pearsons 9) * High-resolution manometry (Thoracic Surgery Clinics) use this to supplement Chapter 9 in	Benign Esophageal Disorders Benchmark quiz	Disorders of the Airway Benchmark quiz	Banki
	TS 33	Management of Benign Esophageal Disorders II	Diagnostic tests and tools and their interpretations	Nonsurgical therapies for motility disorders, reflux and achalasia	Pearson's			
7/5/2021 Week 46	TS 34	Management of Benign Esophageal Disorders III	Pathophysiology of motility disorders, diverticula	Surgical options for motility disorders, diverticula	 * Esophageal motility disorders (Pearsons 66) *Esoph Diverticula (pearsons 65) * Eval and Surg Tx of hiatal hernias and GERD (pearsons 14) * Optimizing pt selection and outcomes (Current treatment options in gastroenterology) 			
	TS 35	Management of Benign Esophageal Disorders IV	Pathophysiology of reflux, infections strictures, trauma, and TE fistulas	Surgical options for reflux, infections, strictures, trauma and TEF				Banki
7/12/2021	TS 36	Management of Esophageal Neoplasia I	Anatomy of esophagus and stomach	Anatomy of colon	 * Benign esoph tumors (Pearsons 39) * Epidemiology of Esoph Ca (Surgical clinics of N America) * Barrettls Oesophagus: Freq and 	Benign Esophageal Disorders Benchmark quiz	Esophageal Neoplasia Benchmark quiz	

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Week 47			Epidemiology of Esophageal cancer	Screening and prevention	pred (Best Prac and research in clinical gastro) * Long-term efficacy and safety of (Gastroenterology) * Radiofrequency abaltion in Barrett's esoph (NEJM)			Swisher
	TS 37	Management of Esophageal Neoplasia II	Benign Esopphageal neoplasms Barrett's esophagus with dysplasia	Treatment of HGD and early adenocarcinoma Endoscopic resection of T1a/T1b tumors				
7/19/2021 Week 48	TS 38	Management of Esophageal Neoplasia III	Diagnosis and staging for esophageal cancer Esophagectomy	Complications of esophagectomy	* Diag and Staging of esoph Ca (pearsons 41) * STS guidelines on the diag and staging (Annals of Thoracic Surg) * Complications of esoph resections (Pearsons 50)			Vaporciyan
	TS 39	Management of Esophageal Neoplasia IV	Stage II and III: treatment, survival and recurrance patterns	Stage II and III: salvage esophagectomy, extension of lymphadenectomy	* Patterns of recurrance after surgery alone vs preop(JCO) * Esoph nightmare: Ca recurrance			
7/26/2021 Week 49	TS 40	Management of Esophageal Neoplasia V	Stage IV: Palliative treatment	Stage IV: chemotherapy and targeted therapy	* Palliation of esophageal ca (pearsons 48) * Palliative therapy for Pt's w unresectablle esoph Ca (Surgical clinic of N America)		Esophageal Neoplasia Benchmark quiz	Walsh