



American Board of Thoracic Surgery

“The ABTS proposes that comprehensive, integrated cardiothoracic training beginning after medical school graduation becomes the sole pathway leading to ABTS certification beginning in 2020”

ADOPTED: SEPTEMBER, 2008

“Old-Time” General Surgical Training

- Exposure to cardiac and thoracic surgery throughout residency
- Heavy exposure to open vascular surgery
- Senior level exposure to general surgery
- General surgery chairs cardiothoracic surgeons
- Multi-level resident experience
- Laboratory experience operatively based
- Unlimited time for education

“Modern” General Surgery Training

- Decreasing exposure to open operative skills
- Little exposure to general thoracic surgery
- Less or no exposure to cardiac surgery
- Decreasing exposure to open vascular skills
- 80% of residents go on to “fellowships”
- Decreasing independent operative experience
- Inappropriate portrayal of cardiothoracic surgery
- Non-operative laboratory experience

New Skill Sets

- Off Pump CABG
- Mid CAB
- VAD's
- A Fib Ablation
- Robotic Valve Repair
- Thoracic Endovascular
- Percutaneous Valve
- VATS
- VATS Lobectomy
- Laser Bronchoscopy
- EBUS/EUS
- Navigational Bronchoscopy
- Lap Nissen/Myotomy
- RFA/Stereotactic Rad
- Esophageal Endoscopic Resection

**CT SURGERY SIX-YEAR INTEGRATED PROGRAM
MEDICAL UNIVERSITY OF SOUTH CAROLINA**

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PG 6	VA CT	VA CT	VA CT	MUSC CT	MUSC CT	MUSC CT	VA CT	VA CT	VA CT	MUSC CT	MUSC CT	MUSC CT
PG 6	MUSC CT	MUSC CT	MUSC CT	VA CT	VA CT	VA CT	MUSC CT	MUSC CT	MUSC CT	VA CT	VA CT	VA CT
PG 5	MUSC CONG	MUSC CONG	MUSC CONG	MUSC ADULT CARDIAC	MUSC ADULT CARDIAC	MUSC ADULT CARDIAC	MUSC THOR	MUSC THOR	MUSC THOR	AWAY ELEC	AWAY ELEC	AWAY ELEC
PG 4	MUSC ADULT CARDIAC	MUSC ADULT CARDIAC	MUSC ADULT CARDIAC	VASC/ IR	VASC/ IR	VASC/ IR	HEART TX TX CARD ADULT CT	HEART TX TX CARD ADULT CT	HEART TX TX CARD ADULT CT	MUSC THOR	MUSC THOR	MUSC THOR
PG 3	TX	TX	PED SURG	PED SURG	GI SURG	GI SURG	MUSC THOR	MUSC THOR	MUSC ADULT CARDIAC	MUSC ADULT CARDIAC	MUSC CTICU	MUSC CTICU
PG 2	MUSC CT VEIN HARVEST PERFUSION	MUSC CT VEIN HARVEST PERFUSION	VASC	VA CT	CTICU	CTICU	PED SURG	PED CT	IMAGING	MUSC THOR	ENDO	ECHO
PG 1	SURG ONC	CT ANESTH	MUSC CT	MUSC THOR	CARDIOL IN PT	TX	HT TX CHF	GI SURG	VASC	PED CT	VA GEN SURG	VA CT

University of Texas-San Antonio

Please fill out the block diagrams applicable to your current and/or proposed program format(s).

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INTEGRATED Program Format YEAR 1

Period	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
Site	1	1	2	1	1/2	1	2	2	3	1	2	1
Service	CT UH	Gen Surg A UH	Gen Surg VA/sim skills	Radiol/ Chest UH	Pulm	Transpl Surg UH	GSVA/ sim skills	Vasc. UH	Cardio/ Ht Fail./ EP	GS B UH	Vasc. VA	Trauma UH
Inpatient / Outpatient	I/O	I/O	I/O	I/O	I/O	I/O	I/O	I/O	I/O	I/O	I/O	I/O
Exposure	Perfusion	Gen surg	Sim skills	Imaging	PFT/bronch	Organ procurement/ transplant	Anastomotic & tech. skills	Vascular/ endo	Heart failure/ transplant	General Surg	vascular	trauma

INTEGRATED Program Format YEAR 2

Period	July	August	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
Site	2		1	1	2	1	2	1	1	1	1	1
Service	VA GS	Research elective	VAS UH	Tx UHS	Anesth/ SICU VA	Surg Crit Care	CT VA	Thoracic UH	Cards/Echo&CT UH	Cath Lab	Emerg Med	GenSurg B UH
Inpatient / Outpatient	I/O		I/O	I/O	I	I	I/O	I/O	I/O	I/O	I	I/O
Exposure	Gen surg	Scientific Methods	Endo Vasc	Tx/ Organ harvest	Intubation Critical Care	Trauma/ CT ICU	Basic CT	VATS	Echo CT Imaging	Basic cath skills	Basic EM skills	Gen Surg

INTEGRATED Program Format YEAR 3

Period	July-Sept	Oct	Nov-Dec	Jan-March	May-June
Site	2	1	3	1	1
Service	CT VA	Radiology/ cath skills	Peds Surg	Cardiac UH	Gen Thor
Inpatient / Outpatient	I/O	I/O	I/O	I/O	I/O

INTEGRATED Program Format YEAR 4

Period	July-Sept	Oct-Dec	Jan-March	April-June
Site	2	3	1	1
Service	CT VA	CSR	Cardiac UH	Gen Thor
Inpatient / Outpatient	I/O	I/O	I/O	I/O
Exposure				

INTEGRATED Program Format YEAR 5

Period	July-Sept	Oct-Dec	Jan-March	April-June
Site	2	3	1	1
Service	CT VA	CSR	Cardiac UH	Gen Thor
Inpatient / Outpatient	I/O	I/O	I/O	I/O
Exposure	Senior level CT	Senior level CT	Senior level CT	Senior level CT

INTEGRATED Program Format YEAR 6

Period	July-Sept	Oct-Dec	Jan-March	April-June
Site	2	3	1	1
Service	CT VA	CSR	Cardiac UH	Gen Thor
Inpatient / Outpatient	I/O	I/O	I/O	I/O
Exposure	Advanced CT Skills	Advanced CT Skills	Advanced CT Skills	Advanced CT Skills

I-6 Vascular Exposure

(Months)

	R-1	R-2	R-3	R-4	R-5	R-6
Stanford	1	4	2	3		
MUSC	1	2		3		
UT San Antonio	2	3	1			
UNC	1		3	3		

I-6 General Surgery Exposure (Months)

	R-1	R-2	R-3	R-4	R-5	R-6
Stanford	3	4				
MUSC	4	1	6			
UT San Antonio	4	1	3			
UNC	5	5.5	4.5	3		

I-6 Update May 2009

- 4 programs presently approved
 - Stanford, Penn, MUSC, UTSA
- Handbook from Ed Verrier on “How to do it”
- Discussed at RRC-TS and GTSC
- Presented at TSDA
- Several programs in process

I-6 Update May 2009

Issues

- Essentially no guidance as to what should be in the curriculum
- No decision as to transferring into the I-6
- RRC guidelines still require single institution training

