

Faculty in Charge Of Course:	Richard Tapnio, MD
Participating Faculty:	Drs. Ahmed Kamel, Alan Cohen, Daniel Fung, Rodrick Zvavanjanja, Alexa Levey, Richard Tapnio, Mihir Patel, Mohamed Shahin
Location:	Memorial Hermann Hospital and LBJ Hospital
Offered:	All year round
Max. # Students/Period:	2

Course Objective

Material Covered:

The student's primary learning objective is to learn how Vascular and Interventional Radiology can play an integrative role in diagnostic and therapeutic patient care. This will be accomplished through:

- Participating in didactic discussions about procedure indications, risks and benefits.
- Participating in pre-procedure evaluations, including film review, focused H&P, and informed consent.
- Participating in procedures as an assistant.
- Participating in post-procedure care and follow-up.

Areas of Knowledge to be Covered and Skills Acquired:

Skills Acquired:

The student will learn new skills in both film review and percutaneous image guided procedures, and reinforce skills in performing H&Ps, procedure informed consent, and hospital rounds.

Activities of Elective

Number Of New Patients/Student/Week: Minimum of 2

Responsibilities Of Student For Assigned Patients:

Does history/physical:	Yes
Who critiques:	Attending Physician, Fellow, and Resident Physicians
Follows patients, with appropriate notes as needed:	Yes
Who supervises:	Attending Physician, Fellow, and Resident Physicians
Does student see ambulatory patients:	Yes

Procedures	Observe	Perform
Variety of image guided procedures:		
CT or Ultrasound-guided biopsies	X	X
Paracentesis, Thoracentesis, Aspiration	X	X
Diagnostic and Therapeutic Angiograms		
IVC filter placement and removal	X	Assist
Arteriograms	X	Assist
Angioplasty, stents, atherectomy	X	Assist
Thrombectomy/thrombolysis	X	Assist
Post traumatic bleed embolization	X	Assist
Dialysis graft examination and repair	X	Assist
Pulmonary angiography with catheter-directed thrombolysis	X	Assist
Other vascular procedures including venograms with recanalization, uterine and prostate embolizations	X	Assist
Placement of tunneled central venous catheters:		
With and without implanted ports	X	X
For dialysis, chemotherapy, or antibiotics	X	X
Variety of image guided drainages:		
Nephrostomy catheters	X	X
Biliary drainage	X	X
Abscess drainage	X	X
Review CT angiograms	X	Assist
Other procedures:		
Percutaneous ablation	X	Assist
Transarterial chemoembolization/radioembolization	X	Assist
TIPS	X	Assist
Lymphangiography with lymphatic duct embolization	X	Assist

Scheduled Duties of Student:

Frequency of rounds on patients	Daily
Presents patients to preceptor or attending physician	Yes
Weekly schedule of required teaching sessions	7 a.m. didactic session on M and Th and F; 7:30 am daily rounds

Describe Optional Rounds And Activities, If Any:

May observe and/or assist with on-call cases if desired, but not required. Elective call is from home.

Other Required Activities:

Reading/review of current literature	Yes
Writing or presenting a paper	No
Other	May present an Interesting Case during conference

How Is Student Evaluated:

End-of-rotation evaluations. Completed checklist of rotation objectives must be signed off by Dr. Fung.

Who Evaluates Students:

Richard Tapnio, MD