



University of Toronto

VASCULAR AND INTERVENTIONAL RADIOLOGY

GENERAL INFORMATION

Location	Sunnybrook Health Sciences Centre Toronto, Ontario, Canada
Duration	1 year
Deadline for Applications	Early PGY4 (End of July)
Number of Fellowship Positions	1 total per year There is no distinction among applicants based on nationality. Eligibility criteria are: <ul style="list-style-type: none">• Certification by the Royal College of Physicians and Surgeons of Canada in Diagnostic Imaging or• American Board of Radiology certified/eligible or• Certified with equivalent qualifications and• Proficient in both written and spoken English.
Fellowship Website	http://medical-imaging.utoronto.ca/vascular-interventional-radiology-fellowship-shsc
Contact Information	Fellowship Director: Dr. Elizabeth David elizabeth.david@sunnybrook.ca Fellowship Coordinator/Administrator: Amy Shea Fellowship Program Assistant Tel: 416-978-0514 a.shea@utoronto.ca

WORKFLOW

General structure

This fellowship is procedurally-focused.

Vascular work includes:

- Interventional Oncology: trans arterial chemoembolization (TACE), trans arterial embolization (TAE), portal vein embolization, RFA assisted vertebroplasty and osteoplasty.
- Angioplasty and stenting (iliofemoral, SVC and central veins, visceral, hemodialysis grafts and fistulae)
- Embolotherapy: trauma, uterine fibroids, pre-operative (renal cell carcinoma, bone metastases, etc.), AV fistula side-branches, gonadal veins (varicoceles, pelvic congestion)
- AV fistula/graft surveillance and intervention: thrombolysis, angioplasty, side-branch embolization
- Uterine artery embolization
- Pharmacologic and mechanical thrombolysis, including lungs (PE), lower extremity veins (DVT), hemodialysis grafts and fistulae
- Caval filters
- Trans jugular liver biopsy
- TIPS
- Venous access: subcutaneous ports, dialysis lines, PIC lines, Hickman lines
- Endocrine stimulation studies and venous sampling (adrenal vein sampling, pancreatic stimulation, etc.)

Non-vascular work includes:

- Interventional Oncology: percutaneous tumor ablation (radiofrequency, microwave, ethanol)
- Vertebroplasty and osteoplasty
- Nephrostomies, antegrade stents
- Feeding tubes (gastrostomies, gastrojejunostomies, primary jejunostomies)
- Biliary drains and stents
- GI stents: esophageal, duodenal, colorectal
- Celiac and splanchnic plexus neurolysis
- Fallopian tube recanalization
- Cholecystostomies
- Intraperitoneal port insertions (for IP chemotherapy)
- Peritoneal dialysis catheter insertions
- Pleural intervention

All non-neuro non-invasive cardiac and vascular imaging (CT and MR) is handled by the division. While the focus of this fellowship is invasive work, VIR fellows are also actively involved in reporting CTA and MRA.

Equipment:

- Angiography: Three suites (Three Philips Allura units, one of which is biplane).
- CT: four multi-detector GE scanners (three 64 slice machines, one 4 slice machine).
- MR: three clinical MR scanners, (two GE 1.5 Tesla, one 3 Tesla). There are also two research GE MR units.

	Fellows are responsible for all aspects of patient care in the VIR department including preparing patients for procedures, seeing patients in follow-up in hospital as appropriate and coordinating care with other clinical services.
Are there times when fellows overlap and share work?	Work may overlap but case volume is high.
How many rounds are you expected to attend? Contribute to?	This is flexible and varies as dictated by the fellow and his/her interests.
Other than rounds, are there teaching responsibilities?	Fellows are expected to give teaching rounds once per month.
How procedure focused is the fellowship?	Heavily focused
Which procedures are you responsible for?	There are many vascular and non-vascular procedures with a focus on trauma-related and interventional oncology procedures.
Additional Comments about Workflow:	N/A
RESEARCH	
What are the Research Expectations?	<ul style="list-style-type: none"> • Number of projects: at least 1 • Number of conference presentations: 1 per year • Number of manuscript submissions: at least 1
How much protected time is given for research (per week)?	One day per week
CALL	
General	Frequency: Friday to Thursday one in four weeks
Responsibilities on Call:	Procedural coverage and CTA back up for residents.
Is there a call stipend?	No

Additional comments about call	N/A
HOLIDAYS AND PAY	
Number of paid holiday's (in weeks):	4 weeks with extra time during Christmas holidays.
Sick and Caregiver time (in days):	2 days
Extra time off (in days):	Conferences: If presenting, presentation day and travel day
Income before tax (CAD):	As per post grad office - PGY6 level salary
Opportunities for additional income (directly related to the fellowship):	No
Additional Comments about Holidays and Pay:	N/A