



# University of Toronto

## THORACIC

### GENERAL INFORMATION

<b>Location</b>	University of Toronto Hospitals Toronto, Ontario, Canada
<b>Duration</b>	12 months
<b>Deadline for Applications</b>	Early PGY4
<b>Number of Fellowship Positions</b>	<p>There are currently three funded clinical fellowship positions available with the possibility of a self-funded position if there is an appropriate candidate. There is no distinction among applicants based on nationality.</p> <p>Eligibility criteria are:</p> <ul style="list-style-type: none"><li>• Certification by the Royal College of Physicians and Surgeons of Canada in Diagnostic Imaging, or</li><li>• American Board of Radiology certified/eligible, or</li><li>• Certified with equivalent qualifications and</li><li>• Proficient in both written and spoken English.</li></ul>
<b>Fellowship Website</b>	<a href="http://medical-imaging.utoronto.ca/cardiothoracic-fellowship-msh-uhn-wch">http://medical-imaging.utoronto.ca/cardiothoracic-fellowship-msh-uhn-wch</a>
<b>Contact Information</b>	<p><b>Fellowship Director:</b> Dr. TaeBong Chung <a href="mailto:taebong.chung@uhn.ca">taebong.chung@uhn.ca</a></p> <p><b>Fellowship Coordinator/Administrator:</b> Amy Shea Fellowship Program Assistant Tel: 416-978-0514 <a href="mailto:a.shea@utoronto.ca">a.shea@utoronto.ca</a></p>

## WORKFLOW

<p><b>General structure</b></p>	<p>The Thoracic Imaging division is one of the largest in North America with 14 staff radiologists working with state-of-the-art equipment. The hospitals are fully affiliated with the University of Toronto. The University of Toronto Centre of Excellence in Thoracic Surgery is located at Toronto General Hospital.</p> <p>The Thoracic Imaging fellowship offers a comprehensive multi-modality clinical experience in diagnostic and interventional techniques with over 500 MR, 40,000 CT, 118,000 CR/DR chest examinations and over 550 CT-guided lung biopsies each year. The fellowship lasts 12 months. 80% of the fellowship is clinical and 20% is dedicated to research</p> <p><b>Thoracic CT:</b> The current clinical caseload, ~40,000 cases per annum provides a wide spectrum of advanced thoracic imaging from one of the largest lung transplant centers (Toronto General Hospital) and one of the largest oncology centers (Princess Margaret Cancer Center) in North America. Research and clinical translation of low dose and ultralow dose thoracic CT has been a key feature of the thoracic program since 2004.</p> <p><b>Lung Biopsies:</b> There is a steady volume of CT guided percutaneous lung biopsies -550 per annum performed using CT fluoroscopy and fine needle aspiration ± core biopsies. On-site cytopathology is present for every case.</p> <p><b>Thoracic MR:</b> There is a large clinical caseload, ~500 per annum reflecting the full clinical spectrum of oncologic and non-oncological disease.</p> <p>After the initial 6 months of the thoracic fellowship, candidates have an option to be integrated into a busy cardiac radiology service (1800 Cardiac CT, 2500 Cardiac MR per year) for one week every month, for the remaining 6 months of the fellowship to allow concurrent training in cardiac imaging (CT and MR). Thoracic fellows are also eligible to complementary participation in the Level 2 Cardiac CT course run from the University of Toronto Advanced Imaging and Education Center (AIEC) located within the Medical Imaging Department at Toronto General Hospital. The cardiac schedule provides Level II training in cardiac CT and a foundation in cardiac MR.</p>
<p><b>Are there times when fellows overlap and share work?</b></p>	<p>As there are 6 fellows total between cardiac, cardiothoracic and thoracic streams and one day a week is given as academic time for each fellow, there is more than enough volume between the thoracic CT, cardiac CT and cardiac MR workflows.</p>
<p><b>How many rounds are you expected to attend? Contribute to?</b></p>	<p>Fellows attend the weekly Thoracic Oncology Tumour Conference and present at the weekly multidisciplinary Radiology-Respirology-Pathology rounds.</p>
<p><b>Other than rounds, are there teaching responsibilities?</b></p>	<p>Other teaching is ad-hoc for radiology/respirology/cardiology residents, observers and medical students who may be present on service as well.</p>
<p><b>How procedure focused is the fellowship?</b></p>	<p>Minor to minimal focus of the fellowship (see below)</p>

<b>Which procedures are you responsible for?</b>	CT-guided lung biopsies if on thoracics service. There are about 15 CT-guided lung biopsies per week (~3 per day). In addition the fellow monitors the gated cardiac CT and MR stress tests and administers appropriate medications for each while on the cardiac service.
<b>Additional Comments about Workflow:</b>	Days generally begin at 8AM and finish by 6 PM. Fellows are responsible for monitoring, protocolling and reporting cases during the day.
<b>RESEARCH</b>	
<b>What are the Research Expectations?</b>	Using the 20% dedicated research time, fellows are expected to produce a minimum of one manuscript during the fellowship for a hypothesis-driven research project. Fellows can select from a list given to the program director at the beginning of their fellowship.  Presentation of research work at international scientific conferences is financially supported and encouraged. There is a dedicated research MR (1.5T, General Electric) adjacent to the reporting area and a dedicated research 320MDCT (Vision, Toshiba) is being installed in June 2013. A research integrated MRI-PET system (Siemens) and Cyclotron will be installed in Fall 2013.  Fellows may receive \$2,000 a maximum of 2 times (must be different papers) to present at an academic conference.
<b>How much protected time is given for research (per week)?</b>	One day per week
<b>CALL</b>	
<b>General</b>	The cardiac/cardiothoracic/thoracics imaging fellows are part of a collective call pool and do a week of home call once every 6 weeks. Weeknights the fellow takes home call and the staff report until 11 PM; on weekend days the fellow reports with staff in-house from 8 AM to 5 PM all XR and CT studies, after which he/she is on home call.
<b>Responsibilities on Call:</b>	Modalities covered: CT & XR Average number of studies completed per call shift: weeknight/home call volumes are low, although weekends are relatively busier.
<b>Is there a call stipend?</b>	No
<b>Additional comments about call</b>	
<b>HOLIDAYS AND PAY</b>	
<b>Number of paid holiday's (in weeks):</b>	2 weeks per 6 month block of fellowship
<b>Sick and Caregiver time (in days):</b>	As per university policy
<b>Extra time off (in days):</b>	Conferences: Up to 5 days per academic year CME: as per university policy

	Teaching: as per university policy
<b>Income before tax (CAD):</b>	As per university policy, PARO PGY6 level salary (\$76,210)
<b>Opportunities for additional income (directly related to the fellowship):</b>	No
<b>Additional Comments about Holidays and Pay:</b>	In general fellowships follow University of Toronto policies.