VGH Uroradiology

Rotation Goals & Objectives

General Objectives

Vancouver General Hospital is the major referral centre for Urology in the province of BC; therefore, the Uroradiology service at VGH provides excellent exposure to all aspects of urologic imaging and interventional procedures. As well, VGH is the main teaching site for the five years of Urology residency so the Uroradiology rotation is central to working and learning at VGH.

The Uroradiology rotation is designed for the PGY1 resident, although PGY5 residents may choose to do an elective to help prepare for the Royal College exams. The primary objective of this rotation is to acquire the ability to independently interpret common imaging studies of the GU system. Residents will also learn the limits of the common imaging studies and the potential side effects or consequences of the studies – including exposure to radiation and toxicities associated with intravenous contrast agents.

Secondary objectives include developing an understanding of VGH-radiology physical space, learning processes for arranging and prioritizing GU interventional procedures, and meeting and developing personal knowledge of VGH-radiology staff to allow for easy communication and optimal patient-centered care in the future.

The resident will have time for independent study and will need to identify different staff radiologists (with different areas of expertise) to ensure adequate exposure to all areas of GU radiology during the four week block.
Urology Competencies

Medical Expert:

The resident will acquire knowledge of the indications, contra-indications, limitations and possible toxicities of ultrasound, CT scan, MRI, angiography and nuclear medicine as they pertain to common urologic conditions.

The resident will know the toxicities (and how to manage the toxicities) associated with IV contrast agents.

The resident will be competent to interpret and give a verbal or written report on ultrasound, CT scan and MRI images of the following urologic conditions:

- All forms of urolithiasis
- Renal cell carcinoma – with TNM staging
- Angiomyolipoma
- Renal cysts (including Bozniak’s classification)
- Transitional cell carcinoma of the bladder, urethra, ureters and renal pelvis – with TNM staging
- Adrenal masses – benign and malignant
- Assessment of renal allograft dysfunction
- Acute renal failure
- Retroperitoneal fibrosis

The resident will acquire knowledge of the indications and contraindications for the following procedures:

- Percutaneous nephrostomy
- Embolization of renal AV fistulas or post traumatic bleeding
- Renal or other intra-abdominal biopsy

The resident will acquire experience with the radiology of emergency conditions and post-operative complications in Urology patients including:

- Small and large bowel obstruction
- Post-operative pneumonia and atelectasis
- Intra-abdominal abscess

These competencies will be taught and assessed in the following ways:

1. Attending radiologists will be knowledgeable of the rotation goals and objectives and will be motivated to ensure each resident has sufficient exposure to clinical material.
2. High volume of consultations in a very busy radiology department.
3. Written ITER at the end of each block.
4. Face-to-face feedback throughout the rotation and at the end of the block.
Communicator:

At the completion of the Uroradiology rotation, the resident will be capable of producing verbal and dictated consultations to other clinicians that are thorough but succinct.

These competencies will be taught and evaluated in the following ways:

1. During daily review of radiologic studies, the residents will have multiple opportunities to give verbal reports to radiology attendings. Issues related to communication will be explicitly discussed and developed with the attending at an appropriate time.
2. Any written reports will be reviewed by the attendings and feedback given.
**Collaborator:**

At the completion of the Uroradiology rotation, the resident will be capable of describing the roles and responsibilities of other health care professionals that interact with patients and families in the radiology department. These other health care providers include radiologists, radiology technicians, clerical staff and nursing staff.

At the completion of the radiology rotation, the resident will understand inter-professional team function and demonstrate that they can work with others to minimize team conflict and optimize patient-centered care.

At the completion of the radiology rotation, the resident will be able to consult effectively with other physicians and health care providers. In particular, the resident will be able to discuss a patient with another physician, on the phone or in person, in a succinct, professional and respectful manner.

These competencies will be taught and evaluated in the following ways:

1. Residents will be required to work closely within a multidisciplinary team. The radiology attending physician will evaluate their interaction with the various healthcare providers.
Manager:

At the completion of the Uroradiology rotation, the resident will understand the role physicians play in health care expenditures and have a practical knowledge of cost-effective use of common radiologic studies.

These competencies will be taught and evaluated in the following ways:

1. Using case-based teaching, the resident will receive explicit instruction on the cost effective use of diagnostic tests.
2. Using case-based teaching, the resident will receive explicit instruction on prioritizing patients waiting for assessment and treatment.
**Professional:**

During the Uroradiology rotation, all residents will demonstrate gracious acceptance of advice and feedback.

During the Uroradiology rotation, all residents will demonstrate punctuality and commitment to any reasonable deadlines required by the service.

During the Uroradiology rotation, the resident will demonstrate a commitment to appropriate personal behaviors, personal health and sustainable practice.

These competencies will be taught and evaluated in the following ways:

1. The attending urologists and the residents will discuss matters of personal health, workload, strategies for studying, career goals and personal achievement as required.