Pediatric Neuroradiology Fellowship - Goals and Objectives

DEFINITION OF PEDIATRIC NEURORADIOLOGY

Pediatric neuroradiology is the organ/system-based subspecialty of Diagnostic Radiology dedicated to diagnosis of disorders and diseases of the central nervous system in children utilizing different imaging techniques.

TRAINING YEAR SPECIFIC OBJECTIVES

1) Medical Expert:
   1.1) Obtain training in pediatric neuroradiology, especially in MR and CT.
   1.2) Gain the knowledge to carry out investigations into pediatric neurological disorders and specifically advise on the appropriate test.
   1.3) Build on clinical proficiency, with the supervision of staff pediatric neuroradiologists.
   1.4) Receive teaching through formal didactic lectures as well as through clinical case discussions consistently and constantly provided throughout the fellowship.

2) Communicator:
   2.1) Learn how to explain, and be responsible for explaining the imaging techniques to the patient/family, including the risks of possible complications, and for answering questions that arise.
   2.2) Learn how to write effective and high quality reports on clinical cases and discuss inpatient reports with clinicians including showing appropriate images.
   2.3) Learn department procedures for notification of critical results and how to document these.

3) Collaborator:
   3.1) Gain experience in reviewing and discussing pediatric neuroradiology cases brought to attention by clinicians on a daily basis.
   3.2) Obtain and understand the appropriate history to guide decisions regarding the best imaging strategy to pursue imaging investigation.
   3.3) Be responsible for forwarding requests for further imaging to imaging technologists.
   3.4) Attend and present at interdisciplinary clinical rounds on a regular basis.
4) **Manager/leader:**
   4.1) Gain experience in prioritizing, screening and protocoling neuroradiologic examinations.
   4.2) Develop skills to become increasingly responsible for neuroradiology cases, including proper delegation of authority to residents and technologists.
   4.3) Supervise residents on call under the supervision of the Staff.

5) **Health Advocate:**
   5.1) Gain expertise in the selection of appropriate tests or follow-up studies from discussion with referring doctors and consultants.
   5.2) Take into consideration the benefits/risks of procedures, in consultation with referring practitioners.
   5.3) Gain expertise in guiding referring clinicians to the imaging study or studies most appropriate for their patients.
   5.4) Have knowledge of basic radiation doses in CT and when a low dose protocol is indicated.

6) **Scholar:**
   6.1) Learn how to critically review the literature.
   6.2) Be able to teach residents during clinical work on an everyday basis.
   6.3) Prepare a manuscript based on original research, including reviewing the literature, developing methods, analyzing material, understanding the basics of statistics, and discussing the results.
   6.4) Learn how to prepare a scientific oral presentation, poster or abstract.
   6.5) Be able to prepare and deliver didactic or scientific talks.

7) **Professional:**
   7.1) Incorporate ethical practice, respect of differences, professional regulation and high personal standards of behaviour.