Clinical Fellowship in Pediatric Otolaryngology
The Stollery Children’s Hospital, University of Alberta, Edmonton

This clinical fellowship is a relatively new endeavor. The first fellow started in October 2004, and his successors have since followed his footsteps keeping the program uninterrupted. We aspire to enhance the educational role of the service locally, nationally and abroad, while achieving recognition among national and international peer centres.

The Stollery Children’s Hospital
The Stollery Children’s Hospital, located within the University of Alberta Hospital, is home to a mosaic of highly skilled child health professionals from many countries around the world. They have made this "hospital within a hospital" into a well-recognized centre for complex and specialized services.

We care for children from Northern Alberta including Edmonton and metropolitan area, as well as Saskatchewan, British Columbia, Manitoba, the Northwest Territories, Yukon and Nunavut — an area covering 7 square miles. For Pediatric Otolaryngology the population served is arguably in excess of 2 million.

Highlights of facilities

- Western Canada’s largest pediatric liver transplant program.
- The major pediatric cardiac programs in the province.
- One of only two Pediatric Intensive Care Units in Alberta. The 16-bed unit is the referral centre for 800 critically ill children each year; it supports the Stollery Transplant Program for pediatric organ transplants, trauma, general surgery and cardiac surgery.
- One of only four centres in Canada with a specialized Pediatric and Neonatal Extra Corporeal Membrane Oxygenation (heart-lung bypass) program.
• The only Specialized Pediatric Emergency in Central and Northern Alberta.
• A very active internationally recognised pediatric neurosurgical and neurological teams.

In 2001/02 there were:
• 5,033 inpatients;
• 17,472 Emergency Room visits;
• 3,744 day surgeries; and
• 58,500 outpatient clinic visits.

The Stollery has 133 beds:
• 77 inpatient (plus 2 flex beds);
• 8 observation;
• 4 day medicine;
• 14 neonatal intensive care;
• 16 pediatric intensive care; and
• 12 intermediate care

**Pediatric Otolaryngology**

**FACULTY:**
Dr. Hamdy El-Hakim, FRCS(ORL-HNS) - Fellowship Program Director and Research Director
Dr. Eduard Eksteen, MD, FRCSC
Dr. Trina Uwiera, MD, FRCSC

The service is a busy and evolving subspecialty in the Stollery. Under the jurisdiction of the Division of Pediatric Surgery and tied intimately to the Department of Pediatrics, it maintains an organizational, educational and academic bridge between the parent division of Otolaryngology and the pediatric colleagues. The services are based in the Stollery, but the team covers all city hospitals and visits will be made to the other NICUs.
Description of services

The *surgical case-load* had approximately 750 procedures that were performed in 2005-2006 (for each full time surgeon). A broad range of surgical repertoire is offered; ie: open and endoscopic airway procedures (LASER and microdebrider assisted), cochlear implantation, mastoidectomies and tympanoplasties, saliva control procedures, sleep nasopharyngoscopies, open approach septoplasty, microdebrider assisted lingual tonsillectomy, microdebrider assisted turbinoplasty and endoscopic sinus procedures, developmental and oncological neck dissections and excisions, branchial apparatus surgery.

Multi-disciplinary cases with Pediatric Neurosurgeons (e.g. complicated otogenic and sinugenic infections), Plastic surgeons (e.g. Robin complex/sequence, cleft palate), adult Skull-base surgeons and Head and Neck Surgeons, (e.g. complex neck swellings, anterior skull base lesions), are often undertaken. Navigation systems for guiding complex resections are utilized. Joint endoscopic assessments along with pediatric Pulmonologists and Gastroenterologists are common occurrence for swallowing and aspirating disorders and complex children with respiratory multi-factorial disease.

There are over 3000 *clinic* visits each year (for each full time surgeon). The in-house consults are 400 annually (half of which are converted into procedures under anesthetic). Three combined clinics exist: the Cleft clinic, the Tracheostomy clinic, and the Voice Clinic. The clinics are fully equipped with image capture systems and full range of rigid and flexible endoscopes. Close interaction with Pediatric Pulmonology and Gastroenterology offers a unique experience to learn the basics of sleep medicine and management of gastroesophageal reflux disease and eosinophilic esophagitis.

The Team

Physician staff consists of 3 full time, fellowship trained, Pediatric Otolaryngologists, 1 Clinical fellow, 1 Resident and a full time Clinical Nurse Specialist.
**Allied services**

- **Audiology service.** All modern investigative techniques are available and provides a wealth of experience to the fellows. Another rehabilitation centre (The Glenrose hospital) houses advanced Speech and Audiology services; their scope is mainly children with multiple disabilities.
- **Speech & Language Pathology.** The team covers out-patient and in-patient consults with bedside, functional endoscopic evaluation of swallowing and video-fluoroscopic assessments.

**Journal Clubs / Meetings**

- **Pediatric Otolaryngology Journal Club – monthly meetings.** A critical appraisal of selected articles and Dr. El-Hakim leads the meetings. This is a forum for structured teaching of research methodology and evidence based medicine, in addition to core subjects.
- **Radiology Teaching Round – meeting every six weeks.** Discussion of interesting cases presented by fellow.
- **Otolaryngology Journal Club - monthly meetings.** Discussion of 4-6 articles from otolaryngology literature. Led by the adult service Otolaryngology Program Director
- **Grand Rounds - weekly teaching meetings including M & M, Pathology, and Radiology Presentations are by trainees in otolaryngology**
- **Surgery Grand Rounds**
- **Pediatric Grand Round - weekly meetings.** General pediatrics topics.
Duties and Responsibilities of Fellows

The Fellowship Program in Pediatric Otolaryngology is a 1 year duration which is primarily clinical in nature.

Specific clinical responsibilities for the fellow are as follows:

- help maintain the consultative service for otolaryngology
- provide direct and daily input to the neonatal and pediatric intensive care units with respect to airway management
- attend to all surgical or endoscopic operative cases that evolve out of the above activities
- attend major surgical cases unique to the practice of pediatric otolaryngology
- attend daily ward rounds, weekly Pediatric grand rounds (relevant subjects), weekly Otolaryngology grand rounds (Friday a.m.), monthly Pediatric Surgery grand rounds and journal clubs
- maintain a collegial and collaborative working relationship with the resident(s) and other staff
- attend and participate in the 2 major pediatric otolaryngology meetings in North America (SENTAC & ASPO)
- Provide on call cover, under supervision of staff pediatric Otolaryngologists. The fellow observes a 1:3 on-call roster; this is complimented by the rotating otolaryngology resident and the pool of otolaryngology residents attached to the adult service.

Timetable

The fellow shares with the resident an alternating schedule between operating room and clinic attendance. In order to maintain adequate exposure to the staff surgeons’ practice, every week the trainees exchange placement to balance the clinic and operating experiences per week.
Research Scope and Activity

Despite the overwhelming clinical nature of the training program, clinical research is desirable and encouraged. Presentations in Surgical, Otolaryngology and Pediatrics Grand Rounds are strongly supported. Attendance and participation in Otolaryngology residents’ rounds and monthly journal clubs are mandatory. The Research Director, Dr. El-Hakim, guides and supervises the process; from the inception, planning and allocation stages to the execution and analysis. Monthly meetings for monitoring research progress are undertaken.

The current interests are
- sleep disordered breathing (endoscopic patterns),
- laryngeal paralysis management with botulinum toxin type A,
- management of deficient saliva control with clipping of major ducts,
- sensori-neural hearing loss,
- otolaryngologic manifestations of eosinophilic esophagitis.

The critical appraisal journal club serves as a hunt for ideas with structured literature searches and evaluations directed at clinical problems seen on a regular basis in the center.

Benefits
- Currently under review
Past Fellows
2. **2005-2006**: Dr. William Andrew Clement, Consultant Pediatric Otolaryngologist Head & Neck Surgeon, Yorkhill Hospital, Glasgow, Scotland, UK
4. **2007-2008**: Dr. George Kuruvilla, Consultant Pediatric Otolaryngologist Head & Neck Surgeon, Kerala, India
5. **2008-2009**: Dr. Marie Lyons, Consultant Pediatric Otolaryngologist Head & Neck Surgeon, St. Albans, Herts, UK

**Current Fellow:**

Dr. Hani Rifai

For application or unquiries
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Research & Publications since Inception


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33.


