Pediatric General Surgery Fellowship

Fellowship Objectives:

This fellowship has been developed to produce an individual who is:

- Clinically proficient in the assessment and management of surgical problems encountered in the pediatric population including neonates, infants and children.
- Experienced in the resuscitation and stabilization of an acutely ill pediatric patient.
- Competent in the preoperative, intraoperative and postoperative evaluation and management of pediatric surgical patients.
- Competent in teaching Pediatric General Surgery and Pediatric Trauma principles and skills.
- Familiar with administrative issues, quality assurance/patient audit, education and research.

The program goals and objectives are appended, including the aspects of the program designed to meet each objective. In addition, Fellows entering this program must have clearly defined objectives designed to meet their individual training needs. These will be determined together with the Attending Staff, Pediatric General Surgery (see below). Each Fellow entering the program will begin with a Probationary period of 3 months. Upon successful completion of the period of Probation, the Fellow will continue with the remainder of the Fellowship program. The Pediatric General Surgery Fellowship program will follow the CanMEDS 2005 Physician Competency Framework of the Royal College of Physicians and Surgeons of Canada (http://rcpsc.medical.org) although it is not a program accredited through this body. The Pediatric General Surgery Fellowship is approved by the University of Manitoba Postgraduate Medical Education Committee.

Fellows must maintain membership with the College of Physicians and Surgeons of Manitoba and Canadian Medical Protective Association (CMPA). They must complete the PHIA (Personal Health Information Act) training before starting their program.

Administrative structure:

The Pediatric General Surgery Fellowship will be administered by Attending Staff, Section of Pediatric General Surgery (see below). The Section members will meet at least quarterly. The
Pediatric General Surgery Fellowship program will be governed by the policies and terms of reference (attached).

Dr. B.J. Hancock, Associate Professor (Section Head, Pediatric General Surgery)
Dr. Nathan Wiseman, Associate Professor, Section of Pediatric General Surgery
Dr. Suyin Lum Min, Assistant Professor, Section of Pediatric General Surgery
Fourth Section Member to be recruited, Section of Pediatric General Surgery
Resident Representative (Pediatric General Surgery Fellow)

Duration and Funding of Fellowship:

The duration of the fellowship is 18 months with the option to add an additional 6 months to a maximum of 24 months including a total of one month vacation time per year.

A maximum of one fellow will be accepted at any one time.

At this time, only externally funded candidates will be considered. Candidates with combined clinical/research fellowship awards will be considered, however funding must be secured and documented by the candidate prior to commencing training, including the ability to complete all required clinical components consistent within the policies of the Postgraduate Medical Education Third Party Funding Agreement.

Experience and Training Requirements:

Residents or Fellows who have completed training in General Surgery and/or Pediatric General Surgery at an accredited Canadian program, or acceptable equivalent, are eligible to apply to this fellowship. Candidates with equivalent US training will also be considered.

The Pediatric General Surgery Fellow will be selected by a Committee consisting of at least 2 Pediatric Surgeons, one nursing representative and a senior surgical resident.

Applications consist of documentation of prerequisite training, successful completion of the Medical Council of Canada Equivalency Exam (MCCEE), curriculum vitae, a letter of support from the candidate’s General Surgery/Pediatric General Surgery Program Director, two additional letters of reference, and a letter from the candidate. Applications must be complete upon submission to be considered for eligibility; incomplete applications will not be reviewed. Eligible applicants will then be interviewed by the Selection Committee either in person (preferably) or by Telehealth (in extenuating circumstances).
Structure of the Fellowship:

The Pediatric General Surgery Fellowship is a continuation of training following completion of a General Surgery Residency program or Pediatric General Surgery Fellowship Program; the fellow will concentrate on building knowledge and skills in managing pediatric general surgery patients with an evidence-based approach. The Fellowship will provide a unique experience to each individual Fellow in terms of the specific path taken to achieve their clinical, teaching, administrative, and research objectives. Individual program designs will be determined in conjunction with the Pediatric General Surgery Section Members.

The Pediatric General Surgery fellowship rotations will be at Children’s Hospital of Winnipeg. External rotations on adult services within the Department of Surgery will be considered and must be approved by the Section of Pediatric General Surgery and the receiving service Section Head. In addition, approval will be required by the Director of Postgraduate Surgical Education to ensure that Postgraduate Residency Program Training is not compromised and potential rotations are coordinated with other trainees. Rotations on Pediatric Medical Services (for example, PICU, NICU or Pediatric Emergency) must be approved by the corresponding Section Head and the Director of Pediatric Postgraduate Medical Education.

Rotations are scheduled in 4 week blocks (periods). There are 12 periods plus one period of vacation per year. The rotations are divided in two categories:

1) Mandatory rotations include Pediatric General Surgery, PICU, NICU, research and administration. PALS and NRP must be completed prior to commencing the PICU and NICU rotations, respectively.

2) Elective rotations will be selected by each fellow to address learning needs and special interests. The electives listed below are those that are highly recommended. Candidates may discuss alternatives with the Section.

**Mandatory Content of Training**

<table>
<thead>
<tr>
<th>Description</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>Pediatric General Surgery</td>
<td>12 periods</td>
</tr>
<tr>
<td>Pediatric Intensive Care (PICU)</td>
<td>1 period</td>
</tr>
<tr>
<td>Neonatal Intensive Care (NICU)</td>
<td>1 period</td>
</tr>
<tr>
<td>Administration</td>
<td>Horizontal²</td>
</tr>
<tr>
<td>Education/ATLS®/PALS/NRP</td>
<td>Horizontal²</td>
</tr>
<tr>
<td>APO¹/Patient Audit</td>
<td>Horizontal²</td>
</tr>
<tr>
<td>Research</td>
<td>Horizontal²</td>
</tr>
</tbody>
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¹ APO: Accreditation Project Orientation
² Horizontal training is cumulative over the 12 periods.
1 APO= Adverse Patient Occurence
2 Horizontal = continuous involvement throughout the year.

**Elective Content of Training**

<table>
<thead>
<tr>
<th>Description</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Pediatric Emergency</td>
<td>Will be determined based on learning needs; typically one period (4 week block).</td>
</tr>
<tr>
<td>Pediatric Orthopedic Surgery</td>
<td></td>
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<tr>
<td>Pediatric Urology</td>
<td></td>
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<tr>
<td>Adult Trauma/Acute Care Surgery</td>
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<tr>
<td>Pediatric Neurosurgery</td>
<td></td>
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<tr>
<td>Plastic Surgery</td>
<td></td>
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<tr>
<td>Pediatric Radiology</td>
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<tr>
<td>Pediatric Anesthesia</td>
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<tr>
<td>Additional rotations of pediatric or adult surgery may be selected.</td>
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**Sample Program Design**

<table>
<thead>
<tr>
<th>Program Year 1</th>
<th>Content and Sequence of Rotations</th>
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<tbody>
<tr>
<td></td>
<td>Number of Periods (or 4-week blocks)</td>
</tr>
<tr>
<td>1</td>
<td>2 3 4 5 6 7 8 9 10 11 12 13</td>
</tr>
<tr>
<td>PED SURG</td>
<td>PED SURG  PED SURG  PED SURG  PED SURG  PED SURG  PICU  NICU  PED EMER  PED SURG  PED SURG  PED SURG  PED UROL</td>
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<table>
<thead>
<tr>
<th>Program Year 2</th>
<th>Content and Sequence of Rotations</th>
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<tr>
<td></td>
<td>Number of Periods (or 4-week blocks)</td>
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<tr>
<td>1</td>
<td>2 3 4 5 6 7 8 9 10 11 12 13</td>
</tr>
<tr>
<td>PLASTICS</td>
<td>PED ORTH  PED SURG  PED SURG  PED SURG  PED SURG  *  *  *  *  VAC</td>
</tr>
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* Optional addition of 6 months

**Evaluation:**

Fellows will receive an In-Training Evaluation (ITER) at 4 week intervals during the Probation period. They will receive an ITER at the completion of each specialty rotation. For example, 4 week rotations such as PICU and NICU will have an ITER at the end of the 4 week
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Effective January 1, 2008

block. For rotations on Pediatric General Surgery which are longer than 4 weeks, an ITER will be completed no less than every 3 blocks of 4 weeks each. A Final In-Training Evaluation (FITER) will be completed at the end of each Program Year.

Pediatric General Surgery:

Fellows in this rotation will have the chance to refine skills related to managing acute and elective surgical conditions and trauma under the supervision of qualified pediatric surgeons.

The Section of Pediatric General Surgery is composed of 4 faculty members who deal with a large number of surgical cases. Children’s Hospital of Winnipeg, Health Sciences Centre is the only tertiary care medical centre in Manitoba managing children’s surgical conditions and accepts referral cases from the entire province, Nunavut, Northwestern Ontario and occasionally from Saskatchewan. Fellows will have the opportunity to participate in patient assessments in the ambulatory care setting, urgent and non-urgent consultations, acute emergency surgical procedures as well as semi-urgent and elective surgery. The Pediatric General Surgery Fellowship program will be conducted in a manner of graded responsibility.

Fellows will do routine on-call requirements during this Fellowship commensurate with the PARIM (Professional Association of Residents and Interns of Manitoba) agreement.

Research:

The Pediatric General Surgery Fellow is expected to conduct research in a related area of Pediatric General Surgery or Trauma. The Fellow must have a research supervisor who oversees the project and acts as a resource. At least two projects submitted for presentation to a recognized organization annual meeting (such as the Canadian Association of Pediatric Surgeons (CAPS), International Pediatric Endosurgery Group (IPEG), American Academy of Pediatrics (AAP) Surgical Section, American Pediatric Surgical Association (APSA)) or for publication in a peer-reviewed journal must be completed during the fellowship. Up to 2 rotations dedicated to research may be selected only if the Fellow elects to complete 24 full months (that is, the option of an additional 6 months is chosen).

The Fellow is expected to present at local meetings including the Manitoba Chapter of the American College of Surgeons and General Surgery Annual Resident Research Day as well as Surgical and Pediatric Grand Rounds upon request.

Administration:

Administration experiences and mentoring will occur in a horizontal fashion throughout the Fellowship, under the direction of the Pediatric General Surgery Attending Staff. Fellows will
be expected to participate in assigned committees and the Pediatric Committee for Major Trauma. Others are Surgical Standards and Pediatric Surgical Council. Areas of discussion and directed reading will include: manpower/recruiting, quality assurance, patient complaints, staff management (scheduling, conflict resolution, professional development), and university and hospital roles and responsibilities.

Education and Teaching:

Fellows will be required to attend:

i. Pediatric Surgery Rounds: every Wednesday 11:00 am -12:00 pm including a rotating schedule of:
   a. Radiology rounds (with Pediatric Radiologists)
   b. Pathology rounds, when available
   c. Adverse Patient Occurrence (APO) Patient Audit; Morbidity and Mortality (M&M)
   d. Journal Club
   e. Case presentations/Topic for Discussion

ii. Interdisciplinary Trauma Rounds (Adult services): Wednesday 7:45-9:00 (monthly, last Wednesday of the month)

iii. Pediatric Trauma Rounds: every other month on Wednesday morning from 8:00-9:00 am

iv. Pediatric Grand Rounds: every Thursday morning 8:00-9:00 am

v. General Surgery Grand Rounds: every Wednesday from 7:45 to 9:00 am

vi. Pediatric Tumour Board Rounds: every Friday morning 8:00-9:00 am

Other recommended activities are:

i. Postgraduate Surgery Academic Teaching, Clinical Problems in Surgery (Wednesday)

Courses and Conferences:

Mandatory:

• Fellows must obtain and maintain their Provider verification for ATLS® and, if deemed Instructor Potential, become an Instructor during the fellowship.
• PALS and NRP must be completed prior to PICU and NICU rotations, respectively
• Health Sciences Centre Conscious Sedation Course
• Biostatistics 1 and 2, University of Manitoba 093.747 and 093.748 (Department of Community Health Sciences) (http://webapps.cc.umanitoba.ca/calendar06/)

Optional:

• Membership: International Pediatric Endosurgery Group (IPEG), American College of Surgeons Resident and Associate Society (RAS-ACS)
• Conferences: IPEG, CAPS, AAP Surgical Section, APSA, Trauma Association of Canada (TAC), American College of Surgeons Clinical Congress
• Other available courses: IMAS (International Institute for Minimal Access Surgery, Winnipeg), Epidemiology 093.752 and 093.753 (Department of Community Health Sciences, University of Manitoba), Ethics (Health Sciences Centre)
• Seminars: TIPS (Teaching Improvement Project Systems, University of Manitoba)

Other duties of the Fellow will include:

• Responsibility for presentations at Pediatric General Surgery Service Rounds, Grand Rounds and other teaching venues. A minimum of 10 rounds will be presented within the 18 month Fellowship.
• Participation in Regional Outreach Education, including ATLS® and PALS courses.
• Involvement in administrative and quality assurance activities (under the mentorship of the Attending Pediatric General Surgery Staff).
• Involvement in Injury Prevention activities coordinated through IMPACT, the Injury Prevention Centre of Children’s Hospital (optional).

Qualifications and Certificates:

Upon satisfactory completion of the program the fellow will receive a certificate from the University of Manitoba attesting to the completion of an 18 month (or twenty-four month) Fellowship in Pediatric General Surgery.

Contact Information for Submissions:

Dr. B.J. Hancock, FRCSC, FACS  
Section Head, Pediatric General Surgery  
Director of Surgical Postgraduate Medical Education  
AE201- 840 Sherbrook Street  
Winnipeg, Manitoba  R3A 1S1  
Telephone: 204-787-1246  
Fax: 204-787-4618  
Email: bjhancock@hsc.mb.ca