

McMaster Pediatric Residency Research and QI/Patient Safety Curriculum



McMaster Pediatric Resident Research Committee

Lucia Giglia – Chair, Curriculum Development,
Electives, SMaRT Tool

Jeffery Pernica - Journal Club, Research Roundtable

Sandeep Raha – Resident Research Grants

Michelle Bhatish – QI/Patient Safety

Samara Chitayat – QI/Patient Safety

Nik Pai – Pediatric Resident Research

Kristen Salena - Pediatric Resident Research
Representative/CIP

MacPeds Resident Research Curriculum

1. Critical Appraisal Academic Half Day

(4-5 per year) all pediatric residents with 2- year rotating curriculum

2. Journal Clubs

follow Critical Appraisal Half-Days on Tuesday a.m.
(presented by 2nd year pediatric residents)

3. Patient Safety/Quality Improvement Academic Half Day

(4-5) per year all pediatric residents

4. Resident Research Bootcamp

PGY 1 Residents

(6 AHD sessions over 6 months) principles of research design/scholarly project development

5. Research Roundtable

PGY 2 residents present their research project/questions

PGY 1 Resident Research Boot Camp Objectives

- Establish a framework for developing a research/scholarly question
- Meet Research Faculty during Research “Meet and Greet”
- Become familiar with methods for reviewing the literature
- Understand the REB application process
- Develop understanding of various types of study designs
- Develop familiarity with basic statistics
- Develop a research proposal

Scholarly Requirements

1. Attend PGY1 Resident Research Bootcamp
2. Attend Resident Critical Appraisal and QI/Patient Academic Half Days
3. Attend Pediatric Journal Club sessions
4. Attend Monthly Research Roundtable sessions
5. Presentation at Research Roundtable
6. Presentation of work at McMaster Child Health Trainee Research Day
7. Submit one abstract of original work to local, provincial, national or international competition
8. If applicable, submission of original work to peer reviewed journal
9. Complete the Scholarly Management and Research Tracking (SMaRT) tool
10. Completion of a Scholarly Project by 3rd or 4th Year of Residency Programme

Scholarly Research/ Projects

What is considered a Scholarly Project

- Quality Improvement Projects*
- Medical Education Evaluation/Project*
- Knowledge translation activities*
- Advocacy projects*
- Surveillance studies
- Prospective Qualitative Study
- Retrospective, hypothesis-driven clinical or epidemiological research using an existing database
- Systematic or scoping review
- ADVANCED: Prospective, hypothesis-driven clinical or epidemiological research

* must include an evaluation component

Scholarly Requirements

Scholarly Project Requirement:

- Develop or help develop a Research Question/Aim
- Develop or help develop a protocol to answer research question
- Complete the Interagency Advisory Panel (Tri-Council Policy Statement, TCPS) and/or Research Ethics Tutorial
- Prepare an Ethics Submission ensure it passes the local ethics review panel
- Complete the project (collect the data and analyze)

Scholarly Research/ Project Requirements

- Communicate promptly with the Resident Research Committee if major problems arise with Scholarly Project
- Provide an evaluation of the Research Supervisor to the Resident Research Committee
- Residents who receive a McMaster Pediatric Residency Research Award should acknowledge this on their respective presentations/publications

Scholarly Resources

1. Electives*

- Longitudinal. (1/2 day per week during non CTU rotations)
- Block/ Research IP

**must be approved 2 months in advance by Program Director and Resident Research Chair*

2. Resident Research Grants

- McMaster Resident Research Grant – 2 competitions/year

Scholarly Resources

- Resident Research Committee Members
- Research Drop In
 - Monday afternoons between 1300-1500hrs
- MacPeds Website – Resident Research
- MacPeds Scholarly Management and Research Tracking Tool (MacPeds *SMaRT* tool)

MacPeds *SMaRT* tool

The MacPeds SMaRT Tool is a scholarly project **roadmap** for residents and mentors. The tool provides links for:

- Initiation, development, implementation, & dissemination of a scholarly research project
- Design-specific curated electronic resource links
- Team role and responsibility definition
- Project timeline tracking
- Useful links:
 - Grant applications
 - Conferences
 - HiREB
- Mandatory program requirement dates (research roundtable, MCHRD)

MacPeds *SMaRT* tool

Administrative



Tracking resident scholarly progress for program requirements



Collecting metrics related to: grants awarded, presentations, abstracts, publications



Faculty mentorship support



CQI of Resident Research and QI/PS program