



McGill University  
Obstetrics and Gynecology Residency Program  
**Goals and Objectives**

## Research training

During their five years of training Obstetrics and Gynecology Residents are required to undertake at least one research project of scholarly value. Their project will provide experience with the process of: defining a scientific question; conducting a literature search; writing a research proposal; collecting, analyzing and interpreting data; presenting the findings at a major scientific meeting and preparing a manuscript for a peer-review journal.

The nature of their research project may span any type of research from basic science to population health, in any topic related to obstetrics and gynecology, even in conjunction with other fields (neonatology, endocrinology, nutrition, cardiology etc.). However, the project itself – from start to finish - must be feasible within their training period and primarily during their research rotations. For this reason retrospective database inquiries are often conducted for residents research projects, although some prospective studies or auxiliary projects of such may be done when well organized and supported. A case report will not qualify as a research project but such an endeavour would be encouraged and considered as additional work for the Medical Expert, Collaborator and Scholar competencies during the evaluation of the related rotation.

### Goal

On completion of their training program, the ObGyn resident will have acquired the CanMEDS competencies related to research that will assist in their future role as an Obstetrician-gynecologist.

**The objectives** of the research training for the Obstetrics and Gynecology (ObGyn) Resident may be achieved gradually over the five years of their training, depending on the project they undertake. They will be expected to achieve the following objectives:

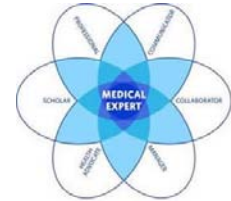
1. When reviewing the literature on a given subject, be able to critically appraise and summarize the evidence and judge whether a publication is sound, ethical, unbiased and clinically valuable; and
2. Be able to apply the basic principles of evidence-based medicine, especially epidemiology and biostatistics;
3. Gain experience in the development, execution, data analysis, interpretation, presentation and manuscript preparation of a research project.

**The Research rotation** of at least two blocks of 4 weeks at any of these teaching sites:

- **McGill University Health Centre's Royal Victoria Hospital (RVH)**
- **Jewish General Hospital (JGH)**
- eventually also at St Mary's Hospital Centre (SMHC)

All documents related to Residents rotations can be found on the departmental website at the following link: [www.mcgill.ca/obgyn/teaching/residents/](http://www.mcgill.ca/obgyn/teaching/residents/)

## Overview of research objectives and competencies during residency



The Residency Research Committee meets every 2 months to facilitate planning and evaluating of residents research projects. During the research rotations, Residents will be expected attend Journal club and Epidemiology or other related rounds on site. All Residents will attend the Annual Research Day.

During their broad exposure in various fields of ObGyn Residents may encounter topics/faculty that particularly pique their interest; these contacts may represent the beginnings of a future research project that they may further discuss and pursue. Ideas can also develop from reading journals, summaries of abstracts and becoming familiar with existing databases. Any planning at this stage may facilitate scheduling of future research rotations – speak to Director of Residency Research committee, [Dr Haim Abenhaim](#).

| Year          | Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CanMeds                                                                      |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| PGY1          | <b>Theory</b><br>In May of PGY1, complete 4 week <a href="#">Epidemiology Rotation</a> which involves the completion of a Reproductive Epidemiology course and a Biostatistics course at the McGill Dept of Epidemiology, Biostatistics and Occupational Health.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Scholar                                                                      |
| PGY2-<br>PGY4 | <b>With WHOM?</b><br>Identify research supervisor/collaborators prior to scheduled research rotations. Residents should refer to the departmental website (Supervisors and their research ideas, Directory> <a href="#">Faculty profiles</a> or <a href="#">Research</a> for projects or publications) to help identify an area of interest according to Faculty research pursuits.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Collaborator                                                                 |
|               | <b>Hands on</b><br>One to two 4 week research rotations will be scheduled during PGY2-3 depending on several factors (supervisor, project itself- availability of data, timing, etc.). Specific objectives are listed below: <ol style="list-style-type: none"> <li>1. Formulate a research question (basic science, clinical, population health or educational);</li> <li>2. Conduct a literature review;</li> <li>3. Design study and write research proposal in consultation/ collaboration with appropriate experts, such as epidemiologist or statistician;</li> <li>4. Submit for Research Ethics Board (REB) approval – may also involve science review and resources impact analysis depending on study;</li> <li>5. Collect/manage/ analyze data and interpret results;</li> <li>6. Prepare an abstract for presentation.</li> </ol> | Medical Expert<br><br>Scholar<br>Collaborator<br><br>Professional            |
|               | <b>Dissemination of findings</b><br>Although there is flexibility with the number and timing of research rotations throughout the obgyn residency, it is possible that dissemination of research findings may not have a specific rotation during which these objectives are accomplished: <ol style="list-style-type: none"> <li>7. Present research project (as oral or poster abstract) at a scientific meeting;</li> <li>8. Prepare and submit manuscript in journal-specific format in collaboration with co-investigators, if possible.</li> </ol>                                                                                                                                                                                                                                                                                      | Medical Expert<br>Scholar<br>Collaborator<br>Communicator<br>Health Advocate |

## Evaluation

MRESone45 forms will be completed by project supervisor at end of each research rotation and at end of residency program by appointed supervisor.

## References

### Websites

- **McGill Department of Obstetrics and Gynecology** – for rotation objectives documents, faculty profiles with research interests and publications, current research projects and publications by division. [www.mcgill.ca/obgyn](http://www.mcgill.ca/obgyn)
- **Canadian Foundation for Women's Health (CFWH)** - provides funding and awards annually to the best resident research projects in women's health. Deadline in Feb or March. [www.cfwh.org](http://www.cfwh.org)
- **MUHC's Academic Enrichment Fund (AEF)** - Can provide up to \$7,500 for study support for projects which involve a MUHC ObGyn faculty member [www.mcgill.ca/obgyn/funding](http://www.mcgill.ca/obgyn/funding)
- **MUHC's Research Institute (RI)** – provides guidelines research proposals, ethics submission and research axes/researchers at MUHC. [www.muhc.ca/ri](http://www.muhc.ca/ri)
- **JGH Research Ethics Committee (REC)** – provides guidelines for consent forms, downloadable application forms and other useful info. <http://jgh.ca/en/ResearchEthicsCommittee>
- **Association of Professors of Obstetrics and Gynaecology (APOG)** – see their residents research training objectives and other resources. <http://www.apog.ca/>
- **Society of obstetrics and Gynecology (SOGC)** - <http://www.sogc.org/>

### Suggested Reading *(McGill library)*

- **The Research Guide: A primer for residents, other health care trainees, and practitioners.** Eds. BJ Harvey, ES Lang, JR Frank. RCSPC, 2011.
- **Fertility and Pregnancy: An Epidemiologic Perspective.** By AJ Wilcox. Oxford University Press, 2010  
*Life Sciences*
- **Epidemiology: An Introduction.** By KJ Rothman. Oxford University Press; 1 edition, 2002  
*Life Sciences; Macdonald Campus; Schulich Science & Engineering*
- **Introduction to the Practice of Statistics** 5<sup>th</sup> ed. by D.S., and G.P. McCabe. New York: W.H. Freeman, 2005.  
*Life Sciences; Humanities and Social Sciences*
- **Statistical Methods in Medical Research** 4<sup>th</sup> ed. by P. Armitage and G. Berry. Malden: Blackwell Science Inc., 2002.  
*Life sciences; Montreal Children's – Library; Jewish General - Health Sciences Library*
- **Designing Clinical Research – An Epidemiologic Approach.** Ed. by SB Hulley, SR Cummings, Baltimore: Williams & Wilkins, 1988.  
*Life sciences; Montreal Children's – Library; e-book, through McGill*
- **Evidence-based practice manual : research and outcome measures in health and human services.** Edited by Albert R. Roberts, Kenneth R. Yeager. Oxford ; New York : Oxford University Press, 2004.  
*Humanities and Social Sciences - McLennan Bldg*