**Queen’s University General Surgery Residency Program Research Expectations**

**Background**

1) Royal College Standards
   a) Specialty Training Requirements in General Surgery state: “Royal College certification in General Surgery requires successful completion of a research investigation including the dissemination of results related to General Surgery, as attested by the Program Director.”
   b) Objectives of Training in the Specialty of General Surgery includes:
      (a) Contribute to the development, dissemination, and translation of new knowledge and practices
          4.1. Describe the principles of research and scholarly inquiry
          4.2. Describe the principles of research ethics
          4.3. Investigate a scholarly question through the application of research methods
              4.3.1. Develop a proposal to solve a research question
              4.3.2. Select and apply appropriate methods to address the question
              4.3.3. Carry out the research outlined in the proposal
              4.3.4. Disseminate the findings of a research investigation
              4.3.5. Identify areas for further research that flow from the results
          4.4. Collaborate appropriately and effectively in scholarly research
              4.4.1. Help team members to recommend, plan, conduct, present and publish research and scholarly enquiry
   c) Specific Standards of Accreditation for Residency Programs in General Surgery state there must be sufficient human and other resources to support the requirements for scholarly projects. A systematic approach to the review and interpretation of the specialty literature in General Surgery must be provided.

2) Current research expectations for Queen’s General Surgery is that a general surgery resident would be actively engaged in research projects during four of their five years of residency training, which would include:
   a) literature review, the design, methodology, data gathering, data analysis, and interpretation of results
   b) presentations at the William Ersil Research Day as well as submission to a national or international meetings
   c) preparation of at least one manuscript for publication

**Principles to Enhance the General Surgery Residency Research Program**

1) Resident Expectations
   a) Residents will be actively involved in a research project during the 1st, 2nd, 3rd and 4th year of their Residency. It is not expected that final year Residents be actively involved in a research project during their final year of training. However, if specific research requirements have not been met during the preceding 4 years, the Resident will be expected to complete the required elements during their final year of residency.
   b) Residents will submit at least 1 abstract to the William Ersil Research Day in 3 of their 5 years of Residency.
   c) Residents will be expected to prepare at least 1 manuscript to be submitted for publication prior to the completion of the Residency Program.

2) Support for Resident Research
   a) Residents will receive protected time to work on research

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i) The equivalent of one half day a week (once a research project has been selected)
ii) Residents may apply to do research electives (to be approved by the Program Director) in addition to the half day a week

b) Research in Progress sessions will be scheduled quarterly
   i) Residents will present an update on their research to staff and fellow residents for feedback
   ii) Specific milestones/expectations will be outlined at each meeting for residents to complete for the subsequent research in progress session.

c) The Division will explore opportunities within the subspecialty Division as well as within other clinical units within the hospital to enhance the research opportunities for our Residents.

3) Evaluation of Resident Research
   a) All rotation specific evaluation forms will evaluate ongoing activity and progress in research. Failure to meet the listed expectations would result in non-signing of the final in-training evaluation report.
   b) The prepared manuscript will be formally reviewed and evaluated

4) Establishment of Milestones
   a) Will vary with year of training and nature of the project.