RESIDENT RESEARCH
GOALS AND OBJECTIVES
PGY2-PGY4

PRINCIPLES

Research is an integral and mandatory component of the AP residency training. Scope of research includes, but not limited to, case series studies, clinical research projects and even basic science projects. Some trainees have considerable pre-residency research experience. Research projects may span a wide range of intensity. Early consideration of a Research Ethics Board application may be advantageous. Supervising faculty will be available to discuss concepts and research approach. Faculty will examine results of project and discuss significance of findings. The resident is expected prepare a poster or platform presentation of project and possibly submission of a manuscript in a peer reviewed journal.

The Program Director is the Research Coordinator and ensures that all residents are involved in research/scholarly activities.

ROTATION BLOCKS ASSIGNMENTS

For AP residents
PGY2 - 1 block
PGY3 - 1 block
PGY4 - 1 block

Additional blocks with approval of the Program Director

PGY1: No specific requirements

PGY2:

1. Faculty will provide a brief sketch of a research area which may be suitable for a resident research project.
2. The resident will select a suitable supervisor and discuss projects with them.
3. Project outline will be refined after staff/resident discussions.
4. Most projects will be undertaken during regular service rotations.
5. If required, the resident will take Research block as indicated above and may choose to take additional blocks as electives in consultation with and approval of the Program Director.
6. Projects should be completed within one or two academic years; a project may be extended or may carry through to subsequent years.
7. Financial support for small projects may be solicited from the Department and through the other appropriate sources.
8. The PD will meet annually with the resident to monitor progress.
9. The resident should present at Annual Research Day.
10. Ethics Training Module by OHRI should be completed.
11. Residents should attend all courses on critical appraisals and bistat/epedemiology as needed by the supervisor/PD.

PGY3:

1. Continuation of initial project.
2. Residents who have completed a project or who are in the final stages of completion may embark on another project.
3. Resident must present at Research Day.
4. Presentation at a national meeting is expected.
5. Preparation for publication is encouraged.

PGY4:

1. Presentation of results at a national meeting required if not accomplished in PGY3.
2. Submission of project for publication is expected.
CANMEDS ROLES:

**MEDICAL EXPERT**

- The resident is expected to develop a background knowledge about the research project.
- The resident is expected to display adequate knowledge of the research, particularly unanswered questions in the particular area of interest.
- The resident is able to explain the clinical relevance of the research approach employed.
- The resident is expected to know how to obtaining resources for research project.
- The resident is expected to participate in application for internal or external funding support.
- The resident is expected to demonstrate appropriate research skills (both laboratory and information-based).
- The resident is expected to demonstrate appropriate and adequate use of statistical techniques and is able to select and appropriately apply statistical procedures.
- The resident is expected to demonstrate a clear understanding of the scientific and technical principles of the research techniques/platforms.

**COMMUNICATOR**

- The resident is expected to communicate effectively with supervisor(s), technical staff and collaborators.
- The resident is able to demonstrate oral presentation skills.
- The resident is expected to provide a concise overview of research project in an intradepartmental setting.
- The resident is expected to produce timely, accurate and well written research projects.
- The resident is expected to generate research communication appropriate to the project (poster, presentation, and/or publication).

**COLLABORATOR**

- The resident is expected to maintain Team Relationships.
- The resident is expected to recognize the importance of a collaborative approach to translational research.
• The resident is expected to seek consults with clinical/scientists collaborators in an effective and timely manner

**MANAGER**

• The resident is able to demonstrate effective use of the LIS in handling clinical cases
• The resident is able to demonstrate appropriate use of information technology for pertinent literature searches
• The resident is expected to have clear understanding of the principles of laboratory safety and to abide by those standards
• The resident is expected to discloses all pertinent data to supervisor(s)
• The resident is expected to demonstrate knowledge of regulations pertaining to handling and storage of research data pertaining to individual patients.

**HEALTH CARE ADVOCATE**

• The resident is expected to understands the importance of incorporating research ethics, with particular attention to patient confidentiality, in project design
• The resident is expected to obtain Tri-Council Research training certificates as needed for Research Ethic Board approval for research projects

**SCHOLAR**

• The resident is able to demonstrate continuous learning commitment to life long learning and self-directed study
• The resident is expected to critically appraise the scientific literature, incorporating findings into the design and presentation of the research project.
• The resident is expected to transmit research findings to fellow trainees and the academic community when needed in different settings

**PROFESSIONAL**

• The resident is expected to demonstrates concern and respect for others and sensitivity to gender/ethnic and other social issues, with members of the research team
RESOURCES:

The Program Director is the Research Coordinator and ensures that all residents are involved in research/scholarly activities.

Residents are provided with protected time for research activities as outlined above. Residents are provided with an Educational/Research Fund of up to $2500 with the approval of the Program Director to present research work at provincial, national and international conferences per academic year.

Residents are encouraged to apply to intramural departmental/extramural research grants under the supervision of attending staff provided the resident is making expected progression.

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