

Rotation Specific Objectives for Neurosurgery Research Elective: CanMEDS

Neurosurgery residents are expected to engage in scholarly activity and research every year during their residency. This is overseen by the resident's supervisor, the Director of Research for Neurosurgery (Dr. Adam Wu) and the program director.

General Guidelines for Research During Residency are:

- A) One original research project during residency with a goal to publish the research in a peer reviewed journal
- B) Presentation at a national/international meeting at least twice during the residency
- C) Quarterly presentations at the resident research meeting regarding the status of their research projects
- D) Successful completion of a three month research rotation

1. Medical Expert/Clinical Decision-Maker

Demonstrate diagnostic and therapeutic skills for ethical and effective patient care; Access and apply relevant information to clinical practice; recognize personal limits of expertise.

Knowledge Requirements:

- A) Precise knowledge requirements will also depend on the resident's chosen field of study
- B) Describe the basic procedures of clinical epidemiology for neurosurgical diseases
- C) Evidence-based practice: aware of the role of evidence in clinical decision-making. Able to access, retrieve and apply relevant information

2. Communicator

Requirements:

- A) Listen effectively
- B) Understand and demonstrate the importance of cooperation and communication among health professionals involved in the care of individual
- C) Maintain clear, accurate and appropriate written records

3. Collaborator

Requirements:

- A) Consult effectively with other physicians and health care professionals
- B) Contribute effectively to other interdisciplinary team activities

4. Manager

Requirements:

- A) Utilize resources effectively to balance learning needs, research work and outside activities
- B) Allocate finite research resources wisely
- C) Work effectively and efficiently
- D) Utilize information technology to optimize patient care, life-long learning and other activities

5. Health Advocate

Requirements:

A) Contribute effectively to improved health of patients and communities through the development of new knowledge

6. Scholar

Requirements:

A) Develop, implement and monitor a personal continuing education strategy

B) Acquire a sufficient awareness of the scientific method, including the principles of epidemiology, in order to critically analyze the literature for continuing medical education and investigation

C) Facilitate learning of others (teaching medical colleagues / presenting results of research at local, national or international meetings)

D) Contribute to development of new knowledge

7. Professional

Requirements:

A) Perform highest quality research with integrity, honesty and compassion

B) Exhibit appropriate personal and interpersonal professional behaviors

C) Use appropriate strategies to maintain and advance professional competence

D) Continually evaluate his/her abilities, knowledge and skills and know his/her limitations of professional competence