

## Pulmonary Fellows

### Research Objectives

#### **General Objective:**

- **The overall research goal for the 2-year Pulmonary Fellow's resident training is for the trainee to experience and understand a successful scientific research process**
- It is anticipated that the *minimum requirements* to fulfill this general objective will include the following 4 **Specific Objectives:**
  1. To identify a research area of interest
  2. To identify a potential research mentor in that field
  3. To identify, with your research mentor, a clinically important research question worth asking. This question should be sufficiently well formulated as to be feasible as a 2 year study proposal
  4. Undertake a critical appraisal of the topic under consideration by performing a comprehensive literature review to ensure that your question hasn't already been addressed, and that there is sufficient equipoise as to make the question worthwhile
- While the above objectives represent the minimum training requirements in clinical research for pulmonary specialist training, residents may wish to expand their research training by fulfilling some, or all, of the following additional **Specific Objectives:**
  5. Develop a research protocol, which should encompass the following:
    - Study rationale, leading to the clear development of a the study hypothesis
    - Clearly stated research question(s)
    - Proposed study design
    - Primary and secondary outcomes
    - Description of study participants
    - Details of research methodologies

- Justification of the proposed sample size (power calculation) and statistical analyses required (when appropriate to study)
- Expected results and potential pitfalls
- Proposed timelines
- Ethical and feasibility considerations
- Prepare and submit CHREB application; deal with revisions and resubmission to CHREB (if applicable)

6. Data management, analysis and presentation

7. Presentation of results at meeting and preparation of abstracts and draft of manuscript