



## BC Pharmacy Residency Program

### Evidence Informed Decision Making (July 18<sup>th</sup> and 19<sup>th</sup>, 2019)

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#### Description

The principles of evidence based medicine are an important component of the pharmaceutical care process. Clinical pharmacists regularly incorporate these principles into their thought processes in order to make evidence-informed therapeutic decisions with their patients. Evidence Informed Decision Making is a core rotation in the BC Pharmacy Residency Program. During this two-day rotation, the resident will use a case-based approach to further develop their understanding of statistical concepts and further enhance their evidence evaluation and interpretation skills in the assessment clinical trials, systematic reviews and meta-analyses. Residents will also have an opportunity to further develop their literature search skills and will be exposed to current areas of controversy within evidence based medicine. This rotation will provide residents with a foundation of evidence evaluation and interpretation skills, which they can build on during their residency rotations and activities.

#### Goals

The resident will become more familiar with the processes and procedures for evaluating and interpreting clinical trials of a variety of methodologies and will gain an appreciation for how the knowledge gained through the evaluation and interpretation process can be used to make evidence-informed decisions about pharmacotherapeutics with patients. Over the course of the rotation, the resident will also enhance his or her literature search skills, critical thinking skills and problem solving skills.

#### Objectives

By the end of this one week rotation, the resident will be able to:

1. Explain common statistical concepts used in the evaluation and assessment of clinical trials, including p-value, confidence interval, NNT/NNH, ARI/ARI, relative risk, hazard ratio, odds ratio, effect size and power calculation [Comprehension]
2. Distinguish between the levels of evidence within the hierarchy of evidence [Comprehension]

3. When given a patient case
  - a. Formulate focused, answerable clinical questions [Synthesis]
  - b. Develop a comprehensive literature search strategy to answer a clinical question utilizing commonly used indexes and databases [Synthesis]
  - c. Formulate a thorough, accurate response to a drug information question using a variety of appropriate drug information resources [Synthesis]
  - d. Evaluate and interpret randomized controlled trials [Evaluation]
  - e. Evaluate and interpret non-inferiority studies [Evaluation]
  - f. Evaluate and interpret systematic reviews and meta-analyses [Evaluation]
  - g. Develop and justify a response to a clinical question based on an assessment of the primary, secondary and tertiary literature [Synthesis]
  - h. Explain the assessment of a literature review in patient-friendly terms [Application]

## **Rotation Format**

A variety of instructional methods will be used, depending on the nature of the topic discussed, including case-based, didactic and observational methods.

## **Rotation Schedule and Location**

Please refer to the attached schedule for the rotation schedule and location of the sessions.

## **Rotation Equipment**

Please bring a laptop computer with UBC wireless internet access