Clinical Research Methods for Surgical Procedures  
SPPH 517 - Syllabus

Course Chairs: Dr. Kishore Mulpuri; e-mail: kmulpuri@cw.bc.ca  
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Course Coordinator: Eva Habib; e-mail: eva.habib@cw.bc.ca  
Lectures: Fridays 1-4 pm  
Location: BC Children’s Hospital, CSB V2-220

Course Description
This course is intended to provide students with an introduction to surgical research. The course will teach different approaches for surgical research compared to medical research. Students will learn many aspects of the research process from grant writing and proposal development, to applying for ethics, data analysis and statistical methods used in surgical research. This course will also provide an opportunity for students to learn about systematic reviews, quality improvement and assurance, as well as technology evaluation in surgical research.

Course Objectives
The overall goals of this course are to:
1. Understand the challenges in doing surgical research
2. Learn differences in the approaches for surgical research compared to medical research.

Lecture Topics:
September 8, 2017  
Course Introduction & Methodological Research in Surgery (Kishore Mulpuri/Kourosh Afshar)

September 15, 2017  
Different Surgical Research Designs, Project Proposal Development and Research Ethics (Kourosh Afshar)

September 22, 2017  
Multi-Centre Research Studies/Prospective Databases in Surgery (Erik Skarsgard)

September 29, 2017  
1:00 - Healthcare Value, Economics and Outcomes (Jugpal Arneja)  
2:30 - Educational Research in Surgery (Andrew MacNeily)

October 6, 2017  
Health-Related Quality of Life Measures (Harpreet Chhina)

October 13, 2017  
The Use of Photovoice in Public Health: A Journal Club and Hands-On Workshop (Damian Duffy)

October 20, 2017  
Research Ethics (Patrick McDonald)

October 27, 2017  
Multi-Centre Research Studies & Databases (Emily Schaeffer)

November 3, 2017  
Grant Writing (Dawn McArthur)
November 10, 2017 Technology Evaluation in Research (Mark Ansermino)

November 17, 2017 Surgical Systematic Reviews/Meta-Analysis (Neil Chadha)

November 24, 2017 Health Economics Research (Ravi Ghag)

December 1, 2017 No class

December 8, 2017 Project Proposal Presentations

**Evaluation:**

A. Research Proposal for prospective review
   - Clinical trial
   - Case control
   - Qualitative research
   - Systematic review

B. Methodological Research Paper