

Research Course 2021 Schedule																	Week 1			
MONDAY: 25-Oct-21					TUESDAY: 26-Oct-21				WEDNESDAY: 27-Oct-21				THURSDAY: 28-Oct-21			FRIDAY: 29-Oct-21				
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives				
08:00													Work on Project <b>Meet with Supervisor</b> (book 1 hour meeting in advance)							
08:15																				
08:30																				
08:45																				
09:00	09:00-09:45	Course Committee	Welcome/ Define Expectations/ Objectives	1) Overview of Process 2) Course Expectations <b>**only mandatory for residents who have not attended the Welcome Session previously</b>	09:00-11:00	Dr. Anna Funk	Study Design and Analysis: Types of Data	1) Types of data a) Categorical (nominal, ordinal) b) Numerical (discrete, interval) 2) Measures of central tendency 3) Data Presentation and Graphical Analysis	08:30-09:30	Grand Rounds Need to Register to attend Zoom										
09:15	Zoom ID:								09:30-11:30	Dr. Gerry Giesbrecht	Study Design and Analysis: Statistics Lecture	Statistics lecture 1) Hypothesis testing and estimation (emphasis on estimation and CI's) 2) Proportions (1 and 2 sample) 3) Means (1 and 2 sample)	Resident Academic Half Day			09:30-12:00 Zoom ID: Dr. Katie Chaput Qualitative Research Methods  1) To understand common qualitative methods and their application in health research 2) To develop sensitivity to the ethical issues in analyses and reporting of qualitative data 3) To understand the utility and methods for incorporating qualitative inquiry into mixed methods studies				
09:30	Break								Lunch											
09:45																				
10:00	10:00-12:00	Nicole Dunnewold	Searching the Medical Literature for Evidence Based Practice	Need Unicard	Lunch and work on project															
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12:00	Lunch												Resident Academic Half Day			Lunch				
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13:00	13:00-14:00	Dr. Adam Kirton	How to Define a Research Question	1) How to write a clear research question 2) Give a checklist to help define research focus 3) Give child health examples of research questions	12:30-15:00	Dr. Brent Hagel	Study Design and Analysis: Overview of Design	Overview of study designs 1) Descriptive studies 2) Analytic Studies 3) Break (15 minutes) 4) Classifying study designs exercise 5) Report back to group	12:00-14:00	Dr. Susa Benseler	A Housewife's Guide to Paper Writing	1) To review the specific prep-work required to get started on scientific manuscript writing 2) To conceptualize and structure the core components of scientific manuscripts including text and tables/figures 3) To build a transferable, fool-proof recipe for manuscript writing for people with multiple responsibilities (i.e. working parents) and little time								13:30-15:30 Small Group Session 2  1) Refine research question 2) Outline/discuss hypothesis, objectives 3) Clarify options for research design
13:15	Zoom ID:																			
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14:15	14:00-16:00	Small Group	Session 1	Focus on getting acquainted and critiquing each other's research question/project aim	Break															
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16:15	Work on Project																			
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17:00																				

Research Course 2021 Schedule													Week 2							
MONDAY: 1-Nov-21					TUESDAY: 2-Nov-21				WEDNESDAY: 3-Nov-21				THURSDAY: 4-Nov-21			FRIDAY: 5-Nov-21				
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Time	Speaker	Topic	Objectives	
08:00	Work on Project																			
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14:00	14:00-14:45	Dr. David Johnson	Working with Administrative Data	1) Avoid health administrative/EMR studies 2) Consider health record audits but ensure they are reasonable in scope	13:00-14:30	Nicole Romanow	Getting the Green Light: Requirements for REB and AHS approval processes	1) Practical session on how to submit an ethics application through the UofC IRISS Program 2) Overview of process/requirements for obtaining research approval from AHS	14:30-16:30	Small Group	Session 3	1) Review progress to date 2) Discuss specific issues related to each research project	Resident Academic Half Day							
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17:00	<b>ASSIGNMENT 1 DUE</b>																			

Assignment 1: Research Question/Project Aim, Hypothesis and Objectives

Must be handed in via email by 1700 to:

- 1) Your Small Group Preceptors
- 2) Your project supervisor
- 3) Course coordinator (jolene.haddad@ahs.ca)

Research Course 2021 Schedule																	THURSDAY: 11-Nov-21	FRIDAY: 12-Nov-21										
MONDAY: 8-Nov-21					TUESDAY: 9-Nov-21					WEDNESDAY: 10-Nov-21				THURSDAY: 11-Nov-21	FRIDAY: 12-Nov-21													
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives												
08:00																	Remembrance Day Stat	Work on Project/Poster										
08:15																												
08:30	08:30-10:00 Zoom ID:	Dr. Jennifer Thull-Freedman	Quality Improvement Methodology	1 This session will provide learners with a basic understanding of how to plan a quality improvement project including: 1) What it is quality improvement science and how is it different from research? 2) How QI projects are organized? 3) How are ethical considerations addressed? 4) How is data analyzed and presented? 5) What factors should be considered in planning a publication in QI?	Work on Project <b>Meet with Supervisor</b> (Please book 1 hour meeting in advance)					Poster Title Due				Work on Project/Poster														
08:45				Grand Rounds Need to Register to attend Zoom																								
09:00				Work on Project																								
09:15				10:00-11:30 Zoom ID:						Dr. Karen Kam	Introduction to Health Economics	1) Why is health economics alongside clinical research useful? 2) Introduction to costing studies 3) Introduction to measuring benefits for economic studies 4) Combining costs and outcomes to aid in decision making	10:30-12:30 Zoom ID:					Dr. Brent Hagel	Study Design and Analysis: Case Control studies	Case-control studies 1) Principles of design and threats to validity 2) Exercise on study design – single topic 3) Break (15 minutes) 4) Report back to group 5) Principles of analysis with review of results section from article	09:30-11:30 Small Group Session 5 Critical Appraisal							
09:30												Lunch and Work on Project																
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16:00	ASSIGNMENT 2 DUE																											
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																	12:00- ~13:30 Zoom ID: Dr. Katie Chaput Extra Qualitative Session *Only residents doing qualitative studies											
																	Work on Project/Poster											
																	14:00-15:30 Zoom ID: Dr. Jeffrey Lin Applications of Simulation-based Research in Pediatrics 1) Describe the benefits of simulation-based research 2) List the 2 different categories of simulation-base research and											

**Assignment 2: Background, Methods, and Outcome Measures**

Must be handed in via email by 1700 to:

- 1) Your Small Group Preceptors
- 2) Your project supervisor
- 3) Course coordinator (jolene.haddad@ahs.ca)

Research Course 2021 Schedule														Week 4					
MONDAY: 15-Nov-21				TUESDAY: 16-Nov-21				WEDNESDAY: 17-Nov-21			THURSDAY: 18-Nov-21 - Please see detailed schedule once avail.				FRIDAY: 19-Nov-21				
Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Time	Speaker	Topic	Objectives	Time	Speaker	Topic		
08:00	Work on Project/Poster			Work on Project				<b>POSTER DUE</b>											
08:15																			
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09:00								8:45-10:30	Dr. Carol Huang	CIP Intro									
09:15									Dr. Marinka Twilt	CCHCSP Intro									
09:30								Keynote Speaker: TBA	TBA										
09:45																			
10:00								<i>Break</i>											
10:15								10:45-11:45	Poster Presentations Session 1										Presentation format: 8 min summary presentation, 2 minutes for questions (10 min per poster)
10:30																			
10:45								11:45-12:45	Poster Presentations Session 2										
11:00																			
11:15								<i>Lunch</i>											
11:30								13:15-14:15	Poster Presentations Session 3 - Senior Peds Residents										
11:45																			
12:00								<i>Coffee Break</i>											
12:15	14:00-16:00	Small Group	Session 6	Brainstorm around budget issues, ethical issues, and remaining methodological and analysis challenges															
12:30																			
12:45	Senior Resident/Fellows Oral Presentations			Senior Resident Presentation format: 10 min summary presentation, 5 minutes for questions (15 min per presentation)															
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**Assignment 3: Sample size considerations and statistical analysis**  
 Must be handed in via email by 1700 to:  
 1) Your Small Group Preceptors  
 2) Your project supervisor  
 3) Course coordinator (jolene.haddad@ahs.ca)

Poster must be emailed by 0830 to Course Coordinator (jolene.haddad@ahs.ca)

**Project: Research Proposal ready for submission to ethics board/scientific review**  
 Must be handed in via email by 1700 to:  
 1) Your Small Group Preceptors  
 2) Your project supervisor  
 3) Course coordinator (jolene.haddad@ahs.ca)