

Research Course 2025 Schedule																Week 1																																																																																																																																																																																																																																																																																																																																																																																																																																										
MONDAY: 20-Oct-25 - In Person					TUESDAY: 21-Oct-25					WEDNESDAY: 22-Oct-25					THURSDAY: 23-Oct-25			FRIDAY: 24-Oct-25																																																																																																																																																																																																																																																																																																																																																																																																																																								
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09:30	09:30-10:00	Course Committee	Welcome/ Define Expectations/ Objectives	1) Overview of Process 2) Course Expectations *only mandatory for residents who haven't attended before	09:30-11:00	Dr. Grace Kwong	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	09:30-11:00	Dr. Gerry Giesbrecht	Study Design and Analysis: Statistics Lecture	1) The logic and use of statistics 2) Sampling Distributions - The normal distribution - Confidence intervals 3) Estimation and Hypothesis testing - Difference of Means 4) Power and Sample Size	10:00-10:30	Researcher Panel	Why you might want to consider a career in Academic Medicine	Ask your questions! Drs. Serena Orr, Adam Kirton, Jennifer Thull-Freedman					09:30-11:00	Zoom ID: 921 5138 8684 Passcode: 501950	09:30-11:00	Zoom ID: 967 2025 1652 Passcode: 727690	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?	Resident Academic Half Day																																																																																																																																																																																																																																																																																																																																																																																																																																
09:45	Conf Rm 12		Searching the Medical Literature for Evidence Based Practice	Need Unicard Objectives: 1) Awareness of available library services and tools through Libraries & Cultural Resources; 2) Discover more about predatory publishers; 3) Identify different literature review types; 4) Formulate a research question; 5) Uncover distinct elements of their research topic using question frameworks; 6) Engage with OVID Medline																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Research Course 2025 Schedule														Week 2																					
MONDAY: 27-Oct-25 - In Person					TUESDAY: 28-Oct-25 - Morning Virtual - Afternoon In Person					WEDNESDAY: 29-Oct-25					THURSDAY: 30-Oct-25			FRIDAY: 31-Oct-25																	
Time	Time/Location	Speaker	Topic	Objectives	Time/Location	Speaker	Topic	Objectives	Time/Location	Speaker	Topic	Objectives	Time	Speaker	Topic	Time/Location	Speaker	Topic	Objectives																
08:00	09:00-12:00 Conference Room 3	Jennifer Thull-Freedman	QI Workshop	Agenda to come	08:30-09:30	Dr. Mary Dunbar	Study Design and Analysis: Diagnostic Studies	1) Understand the issues in the evaluation of a diagnostic test; 2) Appreciate components of evaluating test performance; 3) Precision and accuracy 4) Sensitivity and specificity - likelihood ratio/ positive and negative predictive values/ receiver operating characteristic (ROC) curves/ additional factors: cost, availability, acceptability, utility	08:30-09:30	Grand Rounds Zoom/Auditorium - Need to Register to attend Zoom Dr. Joe Farmer: Civility Saves Lives			Work on Project Meet with Supervisor (Book 1 hour meeting in advance)		Small Group 3 only	Session 4 Small Group 3: Zoom - only	1) Discussion of each member's project focusing on analysis and sample size calculation 2) Assistance with sample size calculations and analysis 3) Select a resident to present their research idea for discussion of ethical implication for Ethical Issues lecture																		
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10:30					10:00-11:30	Dr. Jennifer Thull-Freedman	Manuscript Writing Without Tears: A Step-by-Step Guide to Publishing Your Work	To develop a practical and efficient approach to planning, writing, and submitting a manuscript that will: - Appeal to reviewers, editors, and readers - Increase your chances of publishing your work - Not be as overwhelming as you might fear	09:30-11:00	Dr. Mohamed Eltorki	Systematic Review/Meta Analysis	1) Understand different types of reviews 2) Develop a framework on how to conduct a systematic review 3) Brief overview of a meta-analysis and its interpretation																							
10:45																																			
11:00					Zoom ID: 999 6922 1072 Passcode: 986987																														
11:15																																			
11:30					11:30-11:45	Ashton Chugh	DoP Research Resources	Resources and Funding Opportunities - PEDS residents only																											
11:45					Zoom same as previous session																														
12:00					Lunch				Work on Project/Lunch								Resident Academic Half Day																		
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13:45	13:30-15:00 Conference Room 3	Dr. Jessalyn Holodinsky & Dr. Khara Sauro	Study Design and Analysis: Observational Studies	1) Principles of observational studies 2) Overview of case control studies 3) Overview of cohort studies 4) Reporting guidelines for observational and case control studies	13:00-15:30 FMC Women's Health Centre - Room 259	Dr. Katie Chaput	Qualitative Research Methods Workshop	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 method studies																											
14:00																																			
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14:45																																			
15:00	Break								14:30-16:00	Small Group	Session 3 Group 1: ZOOM Group 2: ZOOM Group 3: ZOOM Group 4: ZOOM Group 5: ZOOM Group 6: ZOOM	1) Review progress to date 2) Discuss specific issues related to each research project																							
15:15	15:15-16:45 Conference Room 3	Dr. Stephen Freedman	Study Design and Analysis: Randomized Controlled Trials	Randomized controlled trials 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																															
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17:00	ASSIGNMENT 1 DUE																																		

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 coordinators (ACHresearchcourse@ahs.ca)

Research Course 2025 Schedule															Week 3				
	MONDAY: 3-Nov-25 - In Person				TUESDAY: 4-Nov-25				WEDNESDAY: 5-Nov-25				THURSDAY: 6-Nov-25			FRIDAY: 7-Nov-25			
Time	Time/Location	Speaker	Topic	Objectives	Time/Location	Speaker	Topic	Objectives	Time/Location	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives			
08:00				Work on Project/Meet with Supervisor				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	08:30-09:30	Poster Title Due			Work on Project Meet with Supervisor (Book 1 hour meeting in advance)						
08:15										Grand Rounds Zoom/Auditorium - Need to Register to attend Zoom Dr. Gurpreet Singh: Blood Transfusion in Children with Sickle Cell Disease: When and How?									
08:30										Break									
08:45										10:00-11:00 Zoom ID: 948 9964 5027 Passcode: 424375	Dr. Mohamed Eltoki	Essentials of Grant Writing/Pitfalls					Developing a Research Proposal.		
09:00										Lunch and Work on Project									
09:15																			
09:30																			
09:45																			
10:00										Lunch and Work on Project									
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10:30																			
10:45																			
11:00	11:00-12:00 Conference Room 4	Dr. Adam Kirton	Give a Great Talk: Tips for Knowledge Translation	1) Identify key elements of a great presentation 2) Develop strategies for effectively communicating research ideas and results 3) Apply these principles to your research project	Break			Lunch and Work on Project											
11:15																			
11:30																			
11:45																			
12:00	Lunch				12:00-14:00 Zoom ID: 926 0413 4843 Passcode: 009268	Dr. Julie Lauzon & Dr. Stacey Page	Ethical Issues: 1) Health Information Act 2) Ethics and Research	Required Reading: TCPS – statement and tutorial - https://tcps2core.ca/welcome For the required reading portion, Dr. Lauzon requires that each participant MUST submit the certificate once the tutorial is completed. Each small group must select one resident to present their research idea for discussion of ethical implications.	Lunch and Work on Project										
12:15																			
12:30																			
12:45																			
13:00	13:00-14:30	Small Group	Session 4 Small Group 1: CR4 Small Group 2: CR7 Small Group 3: CR6 Small Group 4: CR8 Small Group 5: CR9 Small Group 6: CR10	1) Discussion of each member's project focusing on analysis and sample size calculation 2) Assistance with sample size calculations and analysis 3) Select a resident to present their research idea for discussion of ethical implication for Ethical Issues lecture	Work on Project			13:30-14:30 Zoom ID: 948 9964 5027 Passcode: 424375	Dr. Marinka Twilt	Survey Design/Analysis	Discuss and learn about: 1) Purpose of surveys 2) Survey Design Process 3) Distribution of surveys	Resident Academic Half Day							
13:15																			
13:30																			
13:45																			
14:00	14:30-15:30 Conference Room 4	Dr. Gerry Giesbrecht	Creating Posters: The good, the bad and the ugly	Basics of what to include on a research poster and tips on presenting	Work on Project			15:00- ~16:30 Zoom ID: 923 7874 6563 Passcode: 365448	Dr. Katie Chaput	Qualitative Research Project Q&A/Small Group	*For residents doing qualitative studies or those interested	Resident Academic Half Day							
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17:00	ASSIGNMENT 2 DUE											Resident Academic Half Day							

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 coordinators (ACHresearchcourse@ahs.ca)

Research Course 2025 Schedule																	Week 4						
	MONDAY: 10-Nov-25 - In-Person				TUESDAY: 11-Nov-25 STAT				WEDNESDAY: 12-Nov-25			THURSDAY: 13-Nov-25 - In-Person - Please see detailed schedule once avail.				FRIDAY: 14-Nov-25							
Time	Time	Speaker	Topic	Objectives	Time/Location	Speaker	Topic	Objectives	Time/Location	Speaker	Topic	Time/Location	Speaker	Topic	Details	Time	Speaker	Topic					
08:00	Work on Project/Poster				Remembrance Day STAT				FINAL POSTER DUE							Finish up Project: Final Assignment Due Small Research Grant Applications Due							
08:15																							
08:30																							
08:45									08:30-09:30			<u>Grand Rounds</u> Zoom/Auditorium - Need to Register to attend Zoom Dr. Sarah MacEachern & Dr. Ishnoor Nahal			8:45-10:30 CR3								
09:00																							
09:15																							
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09:45									Keynote Speaker:			Dr. Serena Orr											
10:00																							
10:15																							
10:30	10:30-12:00 Conference Room 4								Linda Longpre				Conducting Research - Requirements for CHREB and AHS Approvals						1) Practical session on how to submit an ethics application online using the IRISS platform 2) Overview of the process/requirements for obtaining approval to conduct research using AHS resources				
10:45																							
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12:00	Work on Project/Poster																						
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13:00	13:00-14:00 Conference Room 4								Jenna Millar				Research Grant Development & Budgeting: Where to start						1) Introduction to Research Grant Development at the University of Calgary 2) Project Planning and Timelines 3) Budgeting & Budget Justifications				
13:15																							
13:30																							
13:45																							
14:00	14:00-15:30								Small Group				Session 5 Small Group 1: CR5 Small Group 2: CR13 Small Group 3: CR14 Small Group 4: CR8 Small Group 5: CR9 Small Group 6: CR10						Practice Poster presentations, provide feedback Have draft of poster ready to present				
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17:00	Assignment 3 Due																		PROJECT DUE				
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 coordinators (ACHresearchcourse@ahs.ca)					Poster must be emailed by 0830 to Course Coordinator (ACHresearchcourse@ahs.ca)										Project: Research Proposal ready for submission to ethics board/scientific review Must be handed in via email by 1700 to: 1) Your project supervisor 2) Course coordinators (ACHresearchcourse@ahs.ca)								