						Research C	Course 2023 Scheo	dule									Week 1
				AY: 23-Oct-23 - In Person			TUESDAY: 24-0					ESDAY: 25-Oct-23	THURSDAY: 26-Oct-23				: 27-Oct-23
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time Speaker Topi	Time	Speake	r Topic	Objectives
08:00																	
08:30 08:45 09:00									08:30-09:30		<u>Grand Rounds</u> Need to Register to attend Zoom						
09:15												veed to Register to attend 20011					
09:30 09:45	09:30-10:00 CR4			1) Overview of Process 2) Course Expectations **only mandatory for residents who have not attended the Welcome Session previously	09:30-11:00		Study Design and	1) Types of data a) Categorical (nominal, ordinal)	09:30-11:00		Study Design and	Statistics lecture	Work on Project Meet with Supervisor		1) To understand or	1) To understand common qualitative	
10:00 10:15	10:00-10:30 CR4	Researcher Panel         Why you might want to consider a career in Academic Medicine         Ask your questions!           Dr. Adam         How to Define a Research 0 (bits a chear research question 0 (bits a chear research forus a)         1) How to write a clear research question 0 (bits a chear research forus a)	Zoom ID: 944 7016 1515	Dr. Grace Kwong	Analysis: Types of Data	a) Categorical (nominal, ordinal) b) Numerical (discrete, interval) 2) Measures of central tendency	Zoom ID: 980 9502 9191	Dr. Gerry Giesbrecht	Analysis: Statistics	<ol> <li>Hypothesis testing and estimation (emphasis on estimation and Cl's)</li> <li>Proportions (1 and 2 sample)</li> </ol>	(book 1 hour meeting in advance)	09:30-12:0	0		methods and their application in health research		
10:30 10:45	10:30-11:30			1) How to write a clear research question 2) Give a checklist to help define research focus			bala	3) Data Presentation and Graphical Analysis	3302 3131		Lootaro	3) Means (1 and 2 sample)		Zoom ID: 939 6478	39 6478 Chaput Method		issues in analyses and reporting of qualitative data
11:00 11:15	CR4	Kirton	Question	3) Give child health examples of research questions	Break				11:00-12:00 Zoom ID: 980		Quality Improvement	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		8939			<ol> <li>To understand the utility and methods for incorporating qualitative inquiry into mixed methods studies</li> </ol>
11:30 11:45				Lunch	11:30-12:30 Zoom ID: 944	Jenna Slobozian &	Research Grant Development &	1.Introduction to institutional resources and units that support research grant development 2.Basic components of a research grant	9502 9191	Dr. Jennifer Thull-Freedman	Methodology	considerations addressed?; 4) How is data analyzed and presented?; 5) What factors should be considered in planning a publication in QI?				metrious studies	
12:00 12:15					7016 1515	Brandi Povitz	Budgeting: Where to start	3.Project planning and budgeting from scratch: Tools and strategies to develop your research project	12:00-12:30		EPIQ Planning Session	Pre-workshop material overview and Group Project selection					
12:30 12:45				Need Unicard Objectives: a walable library services and tools through Libraries & Cultural Resources 2) Discover more about predatory publishers 3) dischrift different Interair verwind pose 4) Formutate a reasearch question 5) Unicover district elements of their research topic using question frameworks 6) Engage with CVID Medine	Break											L	unch
13:00 13:15 13:30 13:45	12:30-14:00 CR4		Searching the Medical Literature for Evidence Based Practice		13:00-14:30 Zoom ID: 944 7016 1515	944 Janet Aucoin	Study Design and Analysis: Overview of Design	3) Break				Lunch				4 0491	
14:00 14:15			Session 1 Small Group 1: CR8 Small Group 2: CR9				Bough	<ol> <li>Classifying study designs exercise</li> <li>Report back to group</li> </ol>					Resident Academic Half	13:30-15:00	) Small Gro	Group 2: 998 238 Group 3: 995 218	6 2994 2)Outline/discuss hypothesis, objectives
14:30 14:45 15:00 15:15	14.00-15.50 Small Grou		Small Group 2: CR5 Small Group 4: CR10 Small Group 5: CR13 Small Group 6: CR14	Focus on getting acquainted and critiquing each other's research question/project aim	t				14:30-16:30 Zoom ID: 980	De Deent Honel	, Study Design and	Cohort studies 1) Principles of design and threats to validity 2) Exercise on study design – single topic	Day	Group 4: 292 3287 5267 (3) Clarity options for research design Group 5: 654 6407 320 Group 6: 980 1843 5463			
15:30 15:45 16:00 16:15 16:30 16:45	5:30 5:45 5:00					Wark on project			Zoom ID: 980 9502 9191 Dr. Brent Hagel Study Design and Analysis: Cohort Studi			<ol> <li>Break</li> <li>Report back to group</li> <li>Principles of analysis with review of results section from article</li> </ol>		Work on Project			
16:15 16:30 16:45 17:00	16:15 16:30 16:45 17:00																

							Research	Course 2023 Schedule									Week 2	
		M	ONDAY: 30-Oct-23	- In Person				TUESDAY: 31-Oct-23			WEDNESDAY:	1-Nov-23	THURSDAY: 2-Nov-23				RIDAY: 3-Nov-23	
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Торіс	Objectives	Time	Spe	eaker Topic	Objectives	Time Speaker Topic	Time	Speaker	Topic	Objectives	
08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30				The EPIQ Workshop aims to train physicians and other healthcare providers in quality improvement methods using hands-on approach that enables teams to implement quality	08:30-09:30 Zoom ID: 977	Study Design ar Dr. Mary Analysis: Dunbar Diagnostic		Understand the issues in the evaluation of a diagnostic test; 2) Appreciate components of evaluating test     performance; 3) Precision and accuracy     d Sensitivity an accuracity - inkelinood ratio (positive and negative predictive values/ receiver operating characteristic	08:30-09:30	09:30 Grand Rounds Need to Register to attend Zoom								
09:15 09:30 09:45				improvement together. In this workshop you will learn: 1) Why improvement science is	5128 9327		Studies	(ROC) curves/ additional factors: cost, availability, acceptability, utility Break			)r. Systematic		Work on Project Meet with Supervisor	Work on Project/Meet with Supervisor				
10:00 10:15 10:30 10:45	08:00-14:30 (Includes preak and 30			valuable in health care and everyday life. 2) Gain expertise on the QI process and understand how to implement it in	10:00-11:30 Zoom ID: 977 5128 9327	Dr. Khorshid Mohammad	A Guide to Paper Writing	<ol> <li>To review the specific prep-work required to get started on scientific manuscript writing</li> <li>To conceptualize and structure the core components of scientific manuscripts including text and tables/figures</li> <li>To build a transferable, fool-proof recipe for manuscript writing for people with multiple</li> </ol>		Mohamed Eltorki Analysis	amed Review/Meta	Objectives to come	(Book 1 hour meeting in advance)	10:30-12:00		Applications of	Describe the benefits of simulation-based research     2) List the 2 different categories of simulation-based research,     and provide specific examples from the pediatric literature.	
11:15 11:30	ninute lunch) Auditorium/ Felus Theatre	EPIQ Group Dr. Ayman Abou Mehram		your context. 3) Establish a stronger understanding of your opportunities for change. 4) Break down implementation into	5126 9327			<ul> <li>responsibilities (i.e. working parents) and little time</li> </ul>	_					Zoom ID: 999 0241 1921	Dr. Jeffrey Lir	Simulation- based Research in Pediatrics	3) Describe the various threats to internal validity of simulation- based research studies, and outline ways to mitigate these threats 4) Identify a way simulation-based research could be used to address a research question in your field/specialty	
12:00 12:15 12:30 12:45				achievable steps. 5) Get a handle on the logistics: plans, team creation, measurement, and more.	Lunch						Work on Projec	t/Lunch		Lunch				
12:00 12:15 12:30 12:45 13:00 13:15 13:30 13:45 14:00 14:15				Registration information to come	13:00-14:00 Zoom ID: 977 5128 9327		Essentials of Grant Writing/Pitfalls	Developing a Research Proposal.	13:00-13:45 Zoom ID: 943 9252 3649	Dr. D	David Working with nson Administrative Data	1) Avoid health administrative/EMR studies 2) Consider health record audits but ensure they are reasonable in scope		13:00-14:30 Zoom ID: 999 0241	Dr. Stephen Wilton	Study Design and Analysis: Randomized Controlled	Randomized controlled trials 1) Principles of design and threats to validity 2) Exercise on study design – single topic 3) Break (15 minutes)	
									Break				1921		Trials	<ol> <li>Report back to group</li> <li>Principles of analysis with review of results section from article</li> </ol>		
14:45           15:00           15:15           15:30           15:45           16:00           16:15           16:30           16:45	15:15           15:30           Work on Project           16:01           16:30							Work on Project	14:30-16:00	Sm Gro	Group 3: 921 4248 281	9 1 1) Review progress to date 5 2) Discuss specific issues related to 6 each research project	Resident Academic Half Day		Work on Project			

Assignment 1: Research Question/Project Aim, Hypothesis and Objectives Mustbe handed in via email by 1700 to: 1) Your Small Group Preceptors 2) Your project supervisor

3) Course coordinator (jolene.haddad@ahs.ca)

						Re	esearch Course 2	023 Schedule					]		Week 3
			MONDAY:	6-Nov-23 - In Person			٦	TUESDAY: 7-Nov-23			WEDNESDAY: 8-Nov-23		THURSDAY: 9-Nov-23	FRIDAY: 10-Nov-2	23
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time Speaker Topic	Time Speaker Topic	Objectives
08:00 08:15 08:30											Poster Title Due				
08:45 09:00 09:15	09:30 09:45 10:00 10 10:00 10 10 10:00 10 10 10 10 10 10 10 10 10 10 10					Dr. Karen	Introduction to	1) Why is health economics alongside clinical research useful?	08:30-09:30		Grand Rounds		Work on Project		
10:00						Kam Zoom ID:		<ol> <li>Introduction to costing studies</li> <li>Introduction to measuring benefits for economic studies</li> <li>Combining costs and outcomes to aid in decision making</li> </ol>			Work on Project		Work on Project Meet with Supervisor (Book 1 hour meeting in advance)		
10:30 10:45	CR4	Giesbrecht	good, the bad and tr ugly	he Basics of what to include on a research poster and tips on presenting	_				10:30-12:30			Case-control studies 1) Principles of design and threats to validity			
11:00         11:15         11:30         11:45         12:00         12:15         12:30         12:45         13:00         13:15	115 130 145 Lunch and Work on Project							Break		Dr. Brent Hagel	Study Design and Analysis: Case Control Studies	2) Exercise on study design – single topic 3) Break (15 minutes) 4) Report back to group			
12:00 12:15 12:30		, , , , , , , , , , , , , , , , , , ,			12:00-14:00	Dr. Julie Lauzon &	Ethical Issues: 1) Health Information	Required Reading: TCPS – statement and tutorial - https://tcps2core.ca/welcome				5) Principles of analysis with review of results section from article	-	Work on Project	
12:45 13:00 13:15			Session 4 Small Group 1: CR4	<ol> <li>Discussion and assistance of each member's project focusing on analysis and sample size considerations</li> </ol>	Zoom ID: 931 3268 7296	Dr. Stacey Page	Act 2) Ethics and Research	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 ide	Lunch and Work on Project						
13:30 13:45 14:00 14:15	13:00-14:30	Small Group	Small Group 2: CR9 Small Group 3: CR5 Small Group 4: CR10 Small Group 5: CR13	<ol> <li>Budget issues, ethical issues and remaining methodological and analysis challenges</li> <li>Select a resident to present their research idea for discussion of</li> </ol>		Tage	Presenting your	for discussion of ethical implications.	13:30-15:00			Discuss and learn about: 1) Purpose of surveys			
14:15 14:30 14:45 15:00			Small Group 6: CR14	ethical implication for Ethical Issues Lecture Break	14:00-15:30 Zoom ID: 931 3268	) Dr. Adam Kirton	results: 1) Writing an abstract 2) Putting together a	<ol> <li>Identify key elements of a great presentation</li> <li>Develop strategies for effectively communicating research ideas and results</li> <li>Apply these principles to your research project</li> </ol>	Zoom ID: 935 7935 4984	Dr. Marinka i Wilt	Survey Design/Analysis	<ol> <li>2) Survey Design Process</li> <li>3) Distribution of surveys</li> </ol>	Resident Academic Half Day		
15:00 15:15 15:30	:15				7296		10 minute platform presentation		15:00- ~16:30			*Only residents doing qualitative			
15:45 16:00 16:15	15:30-17:00 CR4	Dr. Adam Kirton	Practical Tips for Recruitment 1) Selecting your participants 2) Recruitment	<ol> <li>Develop the ability to select a sample population.</li> <li>Optimize recruitment plan for your study.</li> <li>Demonstrate the feasibility of your recruitment plan.</li> </ol>	Optimize recruitment plan for your study.				Zoom ID: 935 7935 4984	Dr. Katie Chaput	Extra Qualitative Session	"Only residents doing qualitative studies			
16:30 16:45 17:00	10 Declare		procedures ASSIC	SNMENT 2 DUE										Assignment 3 Due	
Must be ha	it 2: Background nded in via email I all Group Precept		tcome Measures											Assignment 3: Sample size considerations ar Must be handed in via email by 1700 to: 1) Your Small Group Preceptors	ia statistical analysis

1) Your Small Group Preceptors

2) Your project supervisor 3) Course coordinator (jolene.haddad@ahs.ca)

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Research Course 2023 Schedule													
MONDAY: 13-Nov-23 - STAT		TUE	ESDAY: 14-Nov-23 li	n-Person		WEDNESDAY: 15-Nov-23		THURSI	DAY: 16-Nov-23 - In-Pers	on - Please see detailed se	chedule once avail.	FRIDAY: 17-Nov-23	
Time Time Speaker Topic Objective	s Time	Speaker	Торіс	Objectives	Time	Speaker	opic	Time	Speaker	Торіс	Details	Time Speaker Topic	
08:00 08:15 08:30 08:45 09:00						FINAL POSTER DUE Grand Round Need to Register to at			Dr. Maitreyi Raman Meghan Maiani				
09:15			Work on Project/Poster				<b>,</b>		Carly McMorris	ENRICH	l Intro		
09:30 09:45 10:00 10:15									Keynote Speaker: Dr. Susa Benseler	TB.	Ą		
10:30				1) Practical session on how to						Break			
10:45 11:00 11:15	10:30-12:00 CR4	Linda Longpre	Getting the Green Light: Requirements for REB and AHS	submit an ethics application online using the IRISS platform 2) Overview of the process/requirements for				10:40-11:30 Auditorium/ CR13/ CR14	Sea	esentations sion 1		Finish up Project: Final Assignment Due	
11:30			approval processes	obtaining approval to conduct					Break				
11:45 12:00 12:15				research using AHS resources	-		11:40-12:30 Auditorium/ CR13/ CR14		resentations ssion 2	Presentation format: 7 min summary presentation, 3 minutes for			
12:30 Remembrance Day STAT in Lieu 12:45 13:00	Work on Project/Poster							Lunch			questions (10 min per poster)	Small Research Grant Applications Due	
13:15           13:30           13:45           14:00			Session 5		-	Work on Project		13:15-14:05 Auditorium/ CR13/ CR14	Itiorium/         Poster Presentations           CR13/         Session 3 - Senior Peds Residents				
14:15			Small Group 1: CR8	Practice Poster presentations,						Coffee Break			
14:30 14:45 15:00 15:15	14:00-15:30	Small Group	Small Group 2: CR9 Small Group 3: CR5 Small Group 4: CR10 Small Group 5: CR13 Small Group 6: CR14	provide feedback Have draft of poster ready to present				14:15-16:00 Auditorium	Soniar Pasidant/Follows Oral Procontations		Senior Resident Presentation format: 10 min summary presentation, 5 minutes for		
15:30 15:45 16:00											questions (15 min per presentation)		
16:15 16:30 16:45 17:00												PROJECT DUE	
17.00					Poster must be	mailed by 0830 to Course Coordir	ator					PROJECT DUE Project: Research Proposal	
					(jolene.haddad@		αισι					ready for submission to ethics	