

RESIDENTS & FELLOWS RESEARCH COURSE

2025



LAND ACKNOWLEDGEMENT

The University of Calgary, located in the heart of Southern Alberta, both acknowledges and pays tribute to the traditional territories of the peoples of Treaty 7, which include the Blackfoot Confederacy (comprised of the Siksika, the Piikani, and the Kainai First Nations), the Tsuut'ina First Nation, and the Stoney Nakoda (including Chiniki, Bearspaw, and Goodstoney First Nations). The City of Calgary is also home to Métis Nation within Alberta (Nose Hill Métis District 5 and Elbow Métis District 6).

WHO ARE WE?

COURSE COMMITTEE



Dr. Jennifer Thull-Freedman

Clinical Professor
Pediatric Emergency Medicine



Dr. Serena Orr

Pediatric Neurologist
Associate Professor
Department of Pediatrics



Dr. Gerry Giesbrecht

Director
Child and Family
Health Research Unit

WHO ARE WE?

COURSE COORDINATORS



Jolene Haddad

Program Admin
Pediatric Nephrology & Developmental
Pediatrics Programs



Breanne Steele

Admin Support
General Pediatric Residency Program

All inquiries should be sent to: ACHResearchCourse@ahs.ca

WHY DO WE HAVE A RESEARCH COURSE?

- It's fun! Seriously. We will convince you if you don't already agree.
- We want to lower any stress you may have about starting your project.
- Our aim is to deepen your understanding of research and evaluation so that you can:
 - Understand evidence, so that you know when and when not to apply it to your patients, and be able to guide them in shared decision-making
 - Have a foundation for understanding how to design research and quality improvement projects
 - See options for integrating academic interests into your career

OUR COURSE FORMAT

- About half of the time will be spent in presentations and small group sessions. The rest is available for project work.
- The presentations will give you just enough of a foundation to understand basic content, to know what you don't know, and know when to seek additional expertise.
- Your help is essential in small groups. You and your peers will develop your projects together with a physician and a scientist supervisor. Even if you have no research experience, you can help your peers develop the “story” of their project into something that is interesting, worth doing and sharing, and feasible to execute.
- At the end of the course, you will present your work at the Resident Research Day.

HOW DO I PREPARE FOR THE COURSE?

- Identify an area of interest
- Identify and confirm a project supervisor and set up a meeting
- **With your supervisor, construct your research question or QI project aim**
 - **Research or QI?** Is the purpose of your project to answer a question or to achieve an aim?
- Discuss with your supervisor whether funding will be required and how it will be secured
- Schedule at least two meetings with your supervisor during the research course and at least one in the month following the research course

COURSE LECTURES

- Defining your research question or project aim
- Choosing the right study design
- Searching the medical literature
- Defining your aims, hypotheses, and outcome measures
- Analyzing your data: Intro to biostatistics
- Qualitative research; Health economics; Human simulation
- Quality improvement and QI workshop
- Research and QI Ethics: process for scientific and ethical review
- Systematic Review/Meta-Analysis

COURSE EXPECTATIONS

- Daily attendance & evaluations: Complete One45 forms
- Minimize your call and time away
- Submit assignments to Coordinators, small group leaders, and supervisor
- Meet with your supervisor regularly (at least twice during the course)
- Develop full research or QI proposal through a series of assignments
- Present poster on Research Day that includes background and project design
- Participate in Research Day (Thursday, Nov 13th)

FUNDING OPPORTUNITIES

- Your supervisor may have access to funding through an existing grant if your project aligns with their work
- Research course participants from the Department of Pediatrics with unfunded projects can apply for up to \$1000 of funding through the resident research course small grant program (applications must be included with final assignment submission at the end of the course)
- The University of Calgary Clinical Research Unit (CRU) will provide up to \$2000 value in project support (statistical analysis, REDCap support, etc.) for patient-oriented research. Further details will be available during the course.
- AbSPORU has funding for patient-oriented research
- The University of Calgary Resident Education Scholars Program (RESP) is accepting expressions of interest for a small award (\$2K) and mentorship to participate in a scholarly medical education project - due date is November 15

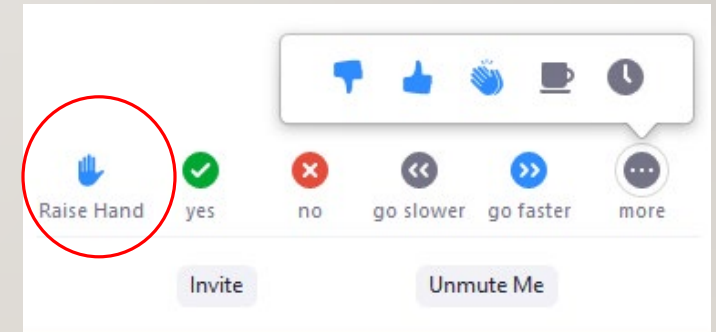
FORMAT

- Mix of in-person and Zoom days
- Final schedule will come out in October



Zoom etiquette:

- Mute your microphone when you're not talking
- If you have a question, please use the raise hand function or put your question in the chat box



ASSIGNMENT REVIEW

Due Date	Assignment	Details
✓ October 1, 2025	Intake Form <ul style="list-style-type: none">• Research Question/Project Aim• Name of Supervisor and email	Email to ACHResearchCourse@ahs.ca
October 27, 2025	Assignment 1	Research Question/Project Aim (revised from original if needed) Hypothesis Objectives
November 3, 2025	Assignment 2	Background Methods Outcome Measures
	TCPS2 Ethics certificate	Needed for Ethics lecture on November 4 ✓✓
November 5, 2025	Poster title	Required to prepare program for Research Day and distribute
November 10, 2025	Assignment 3	Sample size considerations Statistical analysis
November 12, 2025	Digital Poster	Required to preload and organize prior to Research Day
November 14, 2025	Final Research Proposal	Ready for submission to ethics board

RESEARCH DAY: NOVEMBER 13

Time	Event	Presenter
8:45 am	Clinician Investigator Program Intro	
	ACHRI Trainee Association Intro	
	ENRICH Program Intro	
9:30 am	Keynote Presentation	Dr. Serena Orr
10:40 am	Poster Presentations Session 1	Research Course Residents
11:45 am	Poster Presentations Session 2	Research Course Residents
1:45 pm	Poster Presentations Session 3	Senior Residents
3:00 pm	Oral Presentations	Senior Residents

TIMELINE FOR PEDIATRIC RESIDENTS

Aim: Complete a research project during your training

- **R1 year**
 - Submit a complete proposal & applications for scientific/ethics review
 - Initiate project remainder of this year
- **R2 year**
 - Conduct your research during this year
 - Present your progress (poster) at Research Day
- **R3/R4 year**
 - Complete your research project
 - Submit and present an abstract for the Oral Presentation Competition
 - **Required** to present your project (oral or poster) at Research Day
 - QI projects may also be presented at ACH Quality Forum

TIMELINE FOR SUBSPECIALTY RESIDENTS/FELLOWS

- Aim: Complete a research project during your training
 - Each resident has requirements specific to their individual training programs. Other academic project types such as Quality Improvement may also meet program requirements. These requirements should be discussed with your program director in advance of you formulating your research question/project as the specifications and timelines may vary with each program.
 - Sub-specialty residents who have completed the Research Course in their first year of training are welcome to present at the annual Research day (either a poster presentation or oral format), but are not required to.

ONE45

- Used to collect feedback on lectures and track attendance
- Will receive an evaluation to complete for:
 - Each lecture
 - Cumulative for Small Group Sessions for both residents and leaders
 - Overall Course evaluation

The screenshot displays the ONE45 web application interface. On the left is a dark blue sidebar with the user's name 'Joey Chestnut' and title 'Resident (PGY5)'. Below this are navigation links: 'To Dos 9', 'Personal Info', 'Contact List', 'Handouts & Links', 'Pt/Procedure Logs', 'Grades', 'Reports Center', and 'EVALUATIONS'. The main content area on the right is white and features the ONE45 logo at the top left. Below the logo, it says 'YOUR TO DOS: 5' with links for 'expand all' and 'collapse all'. A section titled 'Forms to distribute (2)' contains the instruction 'Please distribute the forms below' and a table with columns 'Activity', 'Program', and 'Dates'. The table lists two activities: 'Ambulatory Medicine' and 'Emergency Medicine', both for 'SOM: Internal Medicine' with their respective dates. Below this is a 'Results (3)' section with the instruction 'Please confirm your results by answering the question at the end' and a table with columns 'Evaluator', 'Activity', 'Program', and 'D'. The table lists three evaluators: 'Jones, Richard', 'anonymous', and 'anonymous', all for 'Ambulatory Medicine' in 'SOM: Internal Medicine'.

Activity	Program	Dates
Ambulatory Medicine (Chestnut, Joey)	SOM: Internal Medicine	Jul 2/18 - 29/18
Emergency Medicine (Chestnut, Joey)	SOM: Internal Medicine	Sep 26/16 - Oct

Evaluator	Activity	Program	D
Jones, Richard	Ambulatory Medicine	SOM: Internal Medicine	Ju
anonymous	Ambulatory Medicine	SOM: Internal Medicine	Ju
anonymous	Ambulatory Medicine	SOM: Internal Medicine	Ju

Research Course Lecture Evaluation

		1	2	3	4	5
	n/a	Very Poor	Poor	Okay	Good	Excellent
*Please rate the topic:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Please rate the speaker:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Strengths:

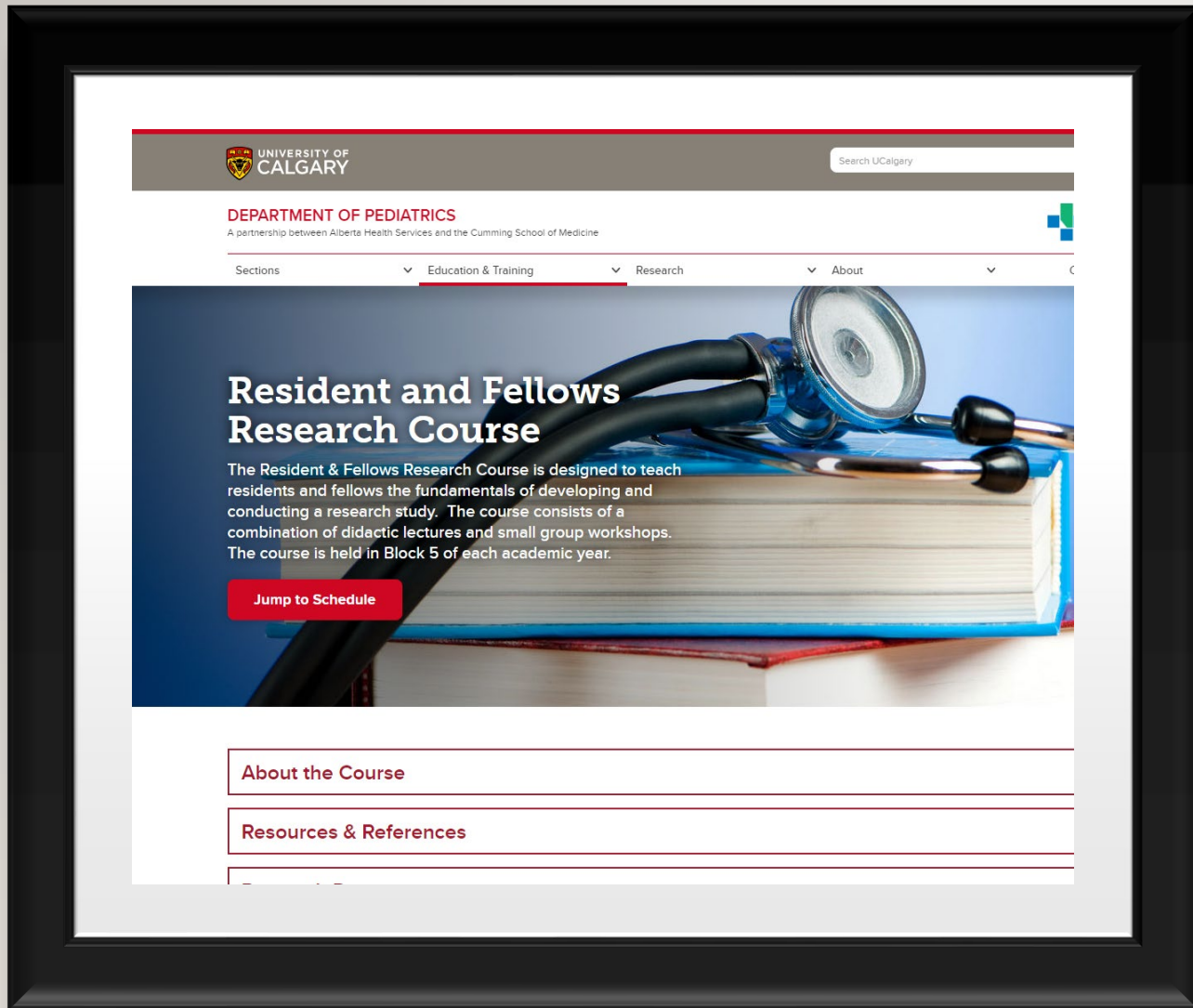
Weaknesses:

Recommendations:

ACCOUNTABILITY

All trainees will be required to:

- Submit research question and supervisor contact info before start of course
- Attend all lectures and small groups
- Complete all assignments
- Complete TCPS2 research ethics online course, submit certificate
- Attend and present on Research Day
- Submit Final Research proposal



WEBSITE

- cumming.ucalgary.ca > Paediatrics > Education & Training > Resident and Fellows Research Course
- Each lecture will be recorded, but not available on the website

<https://cumming.ucalgary.ca/departments/pediatrics/education-training/resident-and-fellows-research-course>

QUESTIONS?

