



Advanced (Year 2) Pharmacy Residency Virtual Open House

Presented by:

The Canadian Society of Hospital Pharmacists &
The Canadian Pharmacy Residency Board





Agenda



Introduction

What is an Advanced (Year 2)
Residency?



CPRB

Published 1st edition
standards for advanced (Y2)
residency programs

Accreditation of programs
as of 2019

Currently 8 accredited
advanced (Y2) residency
programs

Other programs in
development

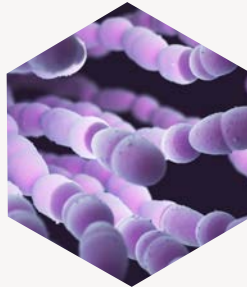


Critical Care

LMPS, Vancouver (and
surrounding areas)

Pediatric

LMPS, Vancouver
(BC Children's and
Women's Health Centre)

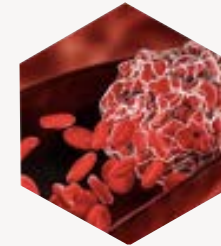


Infectious Diseases / Antimicrobial Stewardship

Alberta Health Services,
Edmonton, Calgary

Antimicrobial Stewardship

Sunnybrook Health
Sciences Centre, Toronto



Internal Medicine

LMPS, Vancouver (and
surrounding areas)

Cardiology

Alberta Health Services,
Edmonton, Calgary

Pharmacy Leaders in Thrombosis

Sunnybrook Health
Sciences Centre, Toronto



HIV

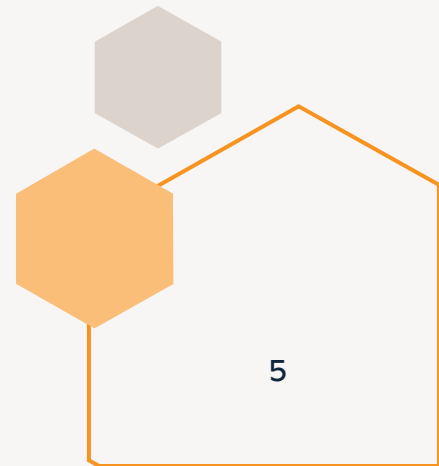
University Health
Network (Toronto),
McGill University Health
Centre (Montréal)

Educational outcomes

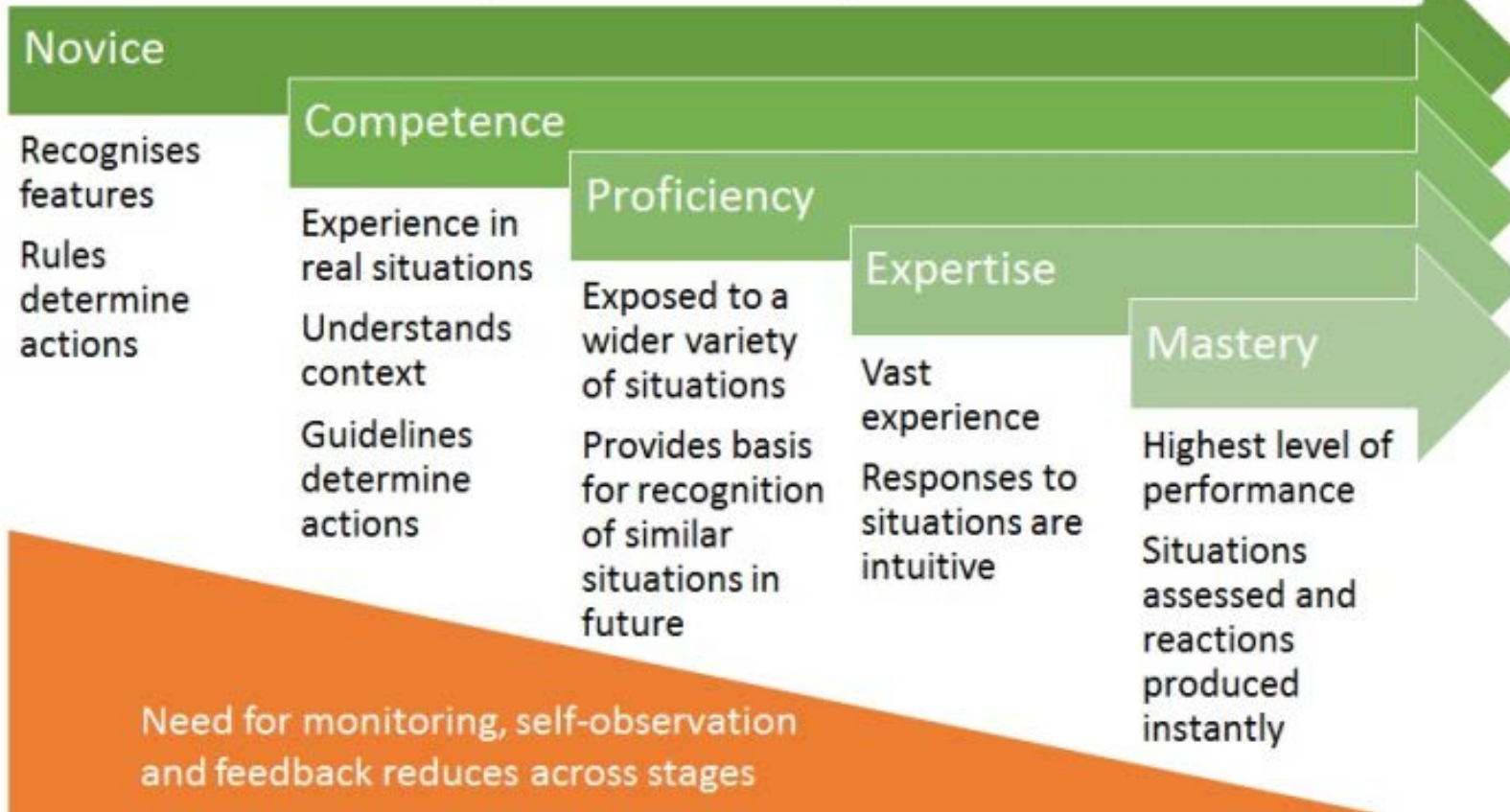
1. Providing evidence-based direct patient care as a member of interprofessional teams → **Expert**
2. Managing and improving medication-use systems
3. Exercising leadership
4. Providing medication- and practice-related education
5. Demonstrating research skills



In a
defined
area of
practice



A visual summary of 'The Dreyfus Model'



PharmD
Student

PharmD
Graduate

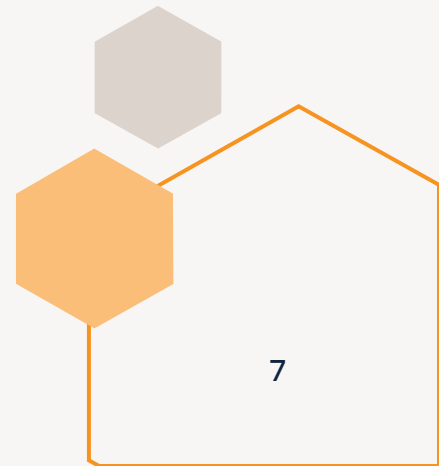
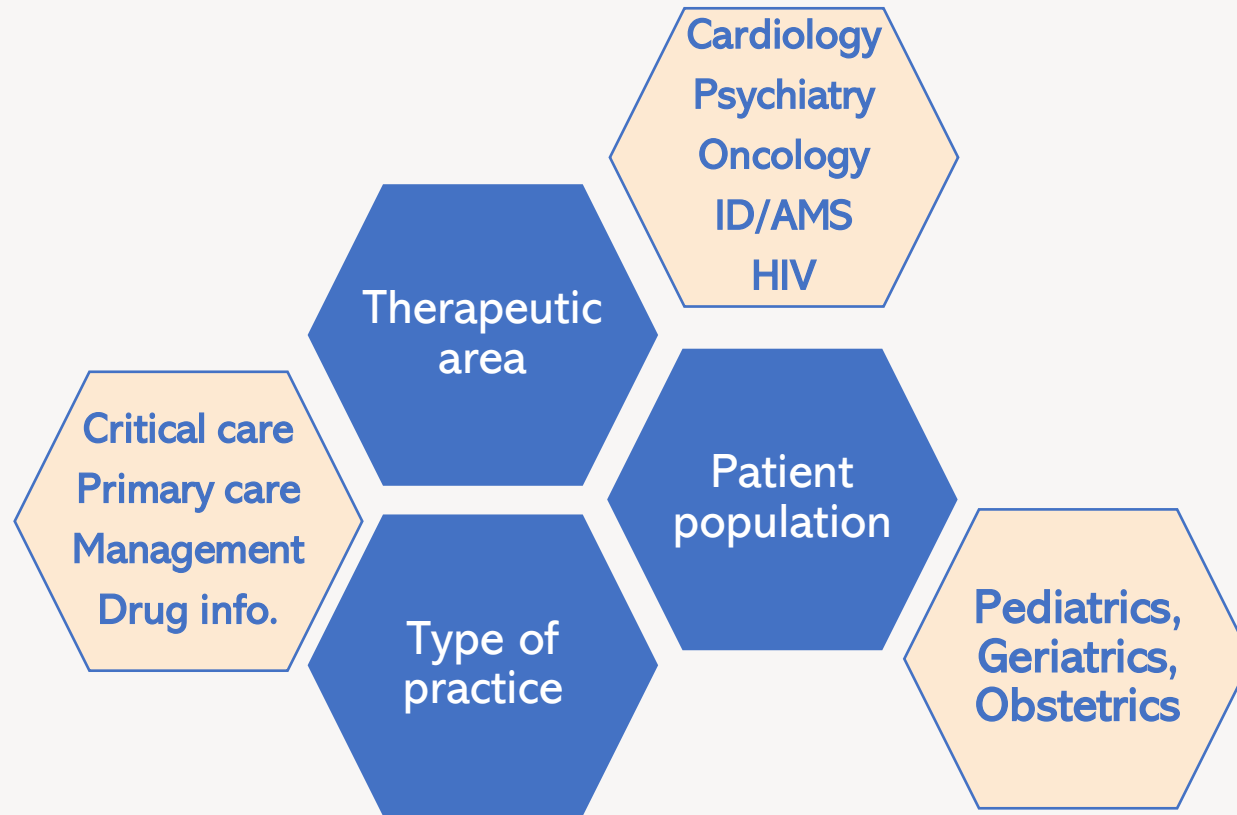
ACPR (Y1)
Graduate

ACPR2 (Y2)
Graduate

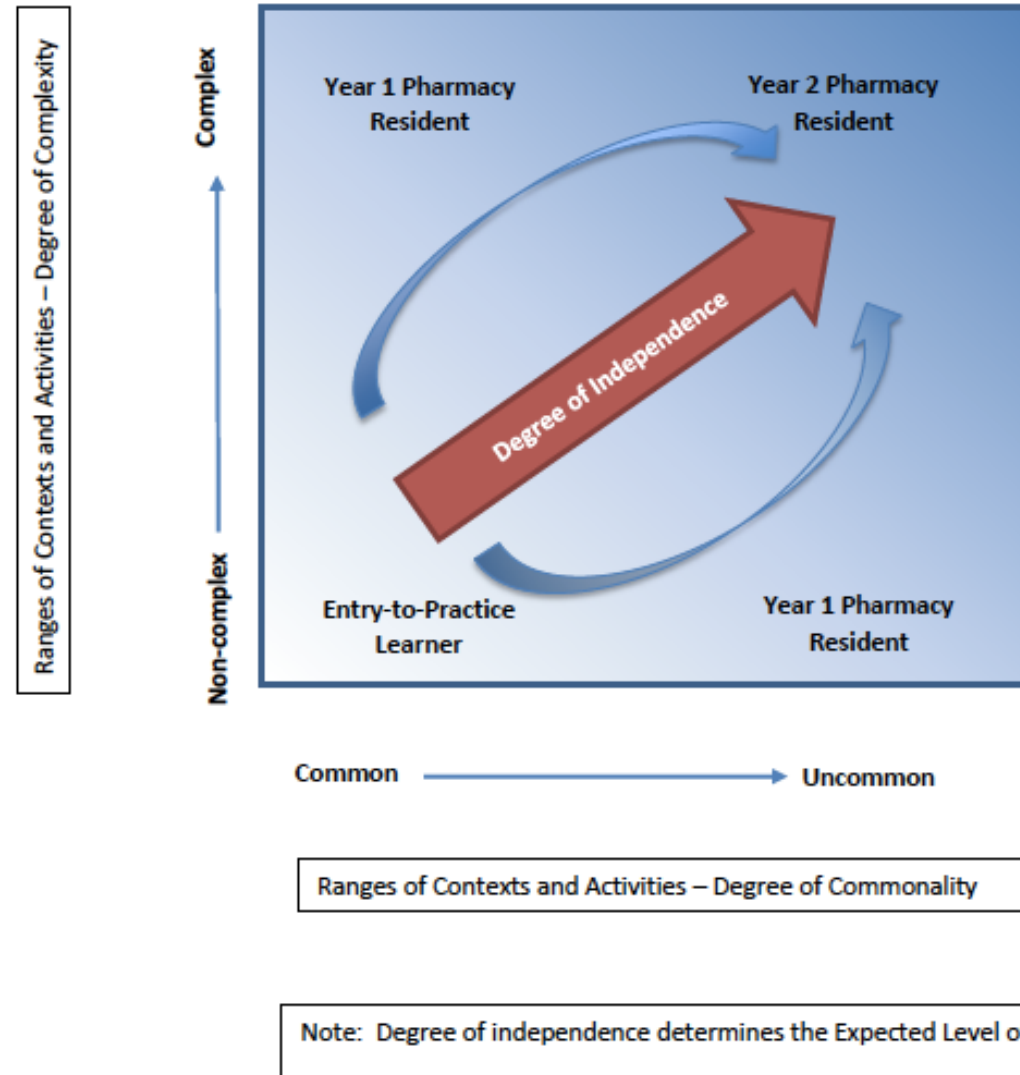
ACPR2 (Y2) +
5 years experience

≥

Defined area of practice



Pharmacy Learner Model of Ranges of Contexts and Activities and Expected Levels of Performance



Canadian Pharmacy
Residency Board; Ranges of
Contexts and Activities and
Expected Levels of
Performance for Residents
in Accredited Canadian
Pharmacy Residency
Programs, 2020



A Resident's Perspective

Presenter: Emily Cowley



DECEMBER 6TH, 2022 | **EMILY COWLEY**

CSHP Y2 OPEN HOUSE

WHY / CHOSE A Y2 RESIDENCY

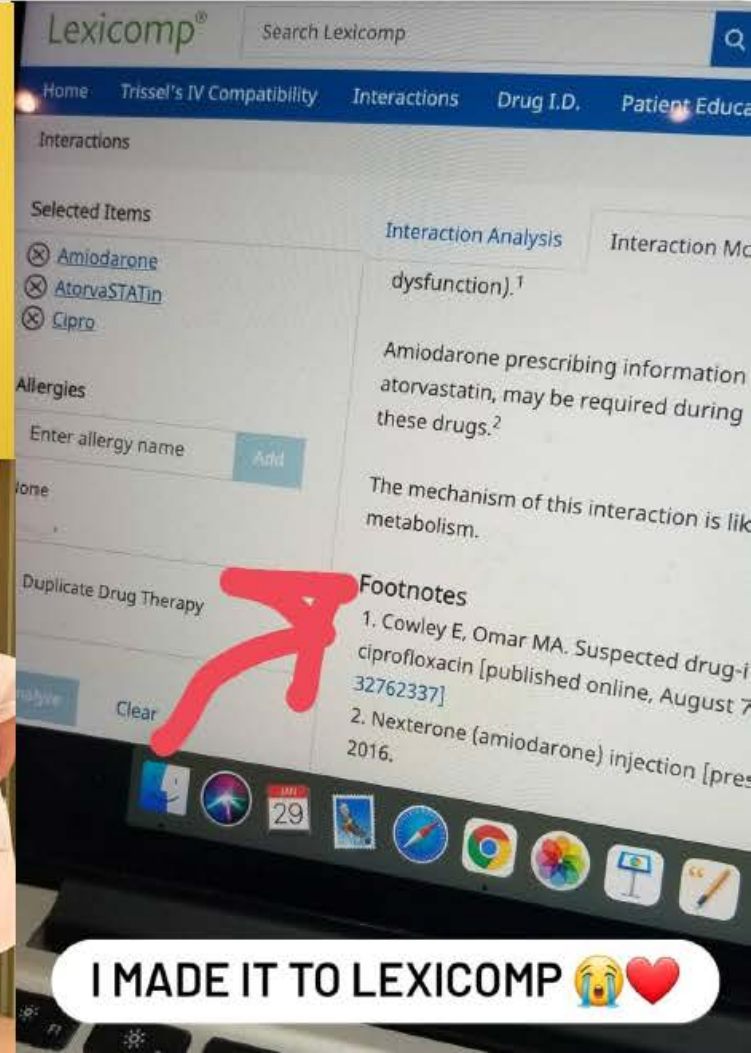
- Unique opportunity to pursue specialty training
- Timing!
- Practice in a different province with an expanded scope



MY EXPERIENCE

> Heart Lung Circ. 2021 Apr 28;S1443-9506(21)00410-8. doi: 10.1016/j.hlc.2021.04.004.
Online ahead of print.

Antiplatelet and Anticoagulant Strategies Following Left Ventricular Assist Device (LVAD) Explantation or Decommissioning: A Scoping Review of the Literature



IMPACT ON MY CAREER

- Pharmacist in CVICU
- Numerous opportunities + pharmacy connections
- Support for the Y2 program
- Lifelong learning





CONSIDER A Y2 TODAY!

Questions?

emily.cowley@ahs.ca





Lower Mainland Pharmacy Services Advanced (Year 2) Pharmacy Residency Adult Programs (Critical Care & Internal Medicine)

Presenter: Michael Legal

Lower Mainland Pharmacy Services

- Lower Mainland Pharmacy Services is a progressive care delivery organization providing services to over 38 sites.



Better health.
Best in health care.



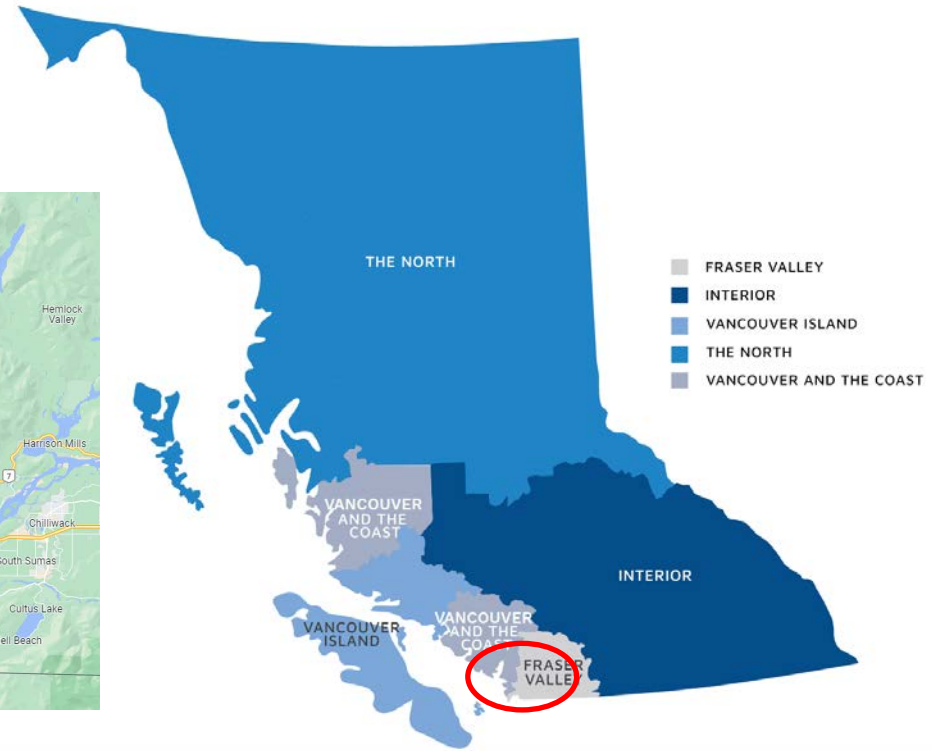
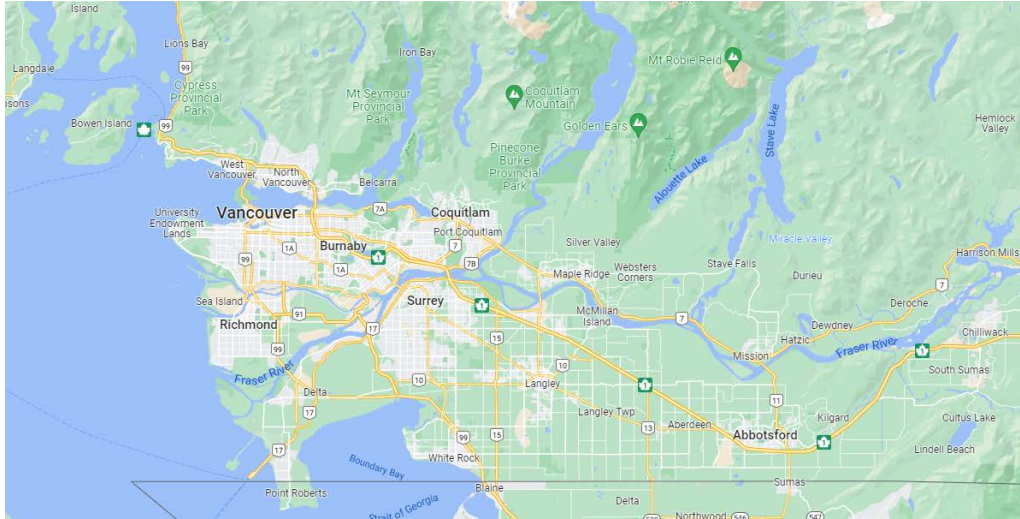
How you want to be treated.



Provincial Health
Services Authority
Province-wide solutions.
Better health.



Promoting wellness. Ensuring care.



Residency Training in BC

- Hospital Pharmacy Residency programs in BC:
 - Year 1 program has been in place for over 50 years (1970)
 - 650 successful year 1 graduates
 - First Year 2 program in BC started in 2018 (Critical Care)
- UBC post-graduate PharmD program 1992-2018
- Our secret weapon – **our preceptors**
 - High level practice
 - Experience in helping advanced learners excel
 - Award winning
 - Skilled researchers
- Fertile environment for learning
 - Multiple programs, multiple disciplines



LMPS Adult Y2 Programs

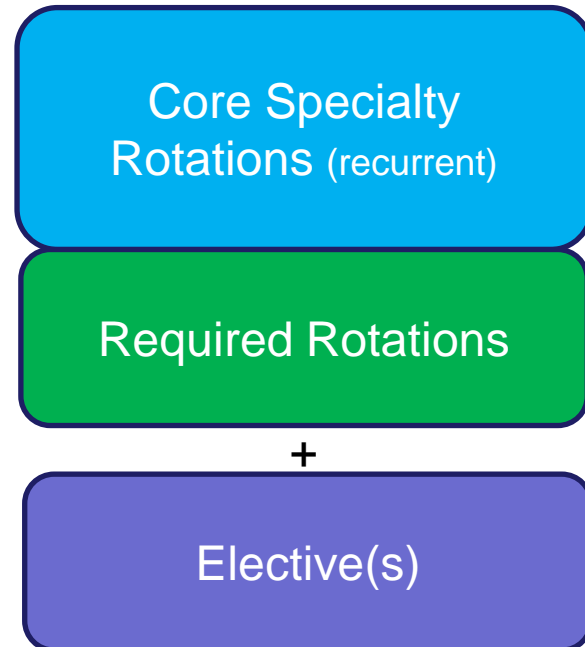
- 52-week CBPRB accredited programs
 - September-start
- **Internal Medicine**
 - First graduate 2020
 - 2 residents per year
- **Critical Care**
 - First graduate 2019
 - 2 residents per year

Expertise in Specialty
AND
*Developing advanced
pharmacy practitioners*

Roxane will tell you about the LMPS Pediatrics Program!

Curriculum Overview

Direct Patient Care Rotations (9 x 4 weeks = 36 weeks)



+ 2 weeks vacation, conference attendance

Longitudinal



12+ weeks - research project and longitudinal activities

Internal Medicine Program

Required Direct Patient Care Experiences	Elective Direct Patient Care Experiences	Longitudinal Rotations
<p><u>4 Week Learning Experiences</u></p> <ul style="list-style-type: none"> Advanced Internal Medicine I Advanced Internal Medicine II Advanced Internal Medicine III Advanced Internal Medicine IV (capstone) Precepting (on AIM rotation) Infectious Diseases Cardiology Medical Intensive Care 	<p><u>4 Week Learning Experiences (Choose Two)</u></p> <ul style="list-style-type: none"> Opioid Stewardship/Addiction Medicine Hemodialysis Ambulatory Nephrology Ambulatory Cardiology Emergency Medicine Renal transplant Liver Transplant Lung Transplant HIV (Ambulatory/Inpatient) Mental Health and Addiction Heart Function & Academic Research <p>The resident may also do a 2nd required rotation as an elective (at another site within LMPS). Other LMPS elective rotations may be considered upon request.</p>	<p><u>Longitudinal Experiences</u></p> <ul style="list-style-type: none"> Research Project Critical Appraisal & Research Skills Quality Improvement & Medication Safety Leadership in Professional Practice Teaching Activities

Critical Care Program

Required Direct Patient Care Experiences	Elective Direct Patient Care Experiences	Longitudinal Rotations
<p><u>4 Week Learning Experiences</u></p> <ul style="list-style-type: none"> • Critical Care (ICU) I • Critical Care (ICU) II • Critical Care (ICU) III • Critical Care (ICU) IV (capstone) • Precepting (on ICU rotation) • Infectious Diseases • Cardiac ICU • Emergency Medicine • Additional Critical Care rotation (Lung Transplant, PICU, Trauma) <p><u>2 Week Learning Experiences</u></p> <ul style="list-style-type: none"> • Toxicology 	<p><u>4 Week Learning Experiences</u></p> <ul style="list-style-type: none"> • Rotations identified based on resident preference 	<p><u>Longitudinal Experiences</u></p> <ul style="list-style-type: none"> • Research Project • Critical Appraisal & Research Skills • Quality Improvement & Medication Safety • Leadership in Professional Practice • Teaching Activities

Highlights

- Diverse experiences (electives and other exposures)
- Research Skills
 - Critical Appraisal
 - Stanford statistics module
 - Diverse research opportunities
- Teaching opportunities
 - Academic sessions focusing on teaching skills
 - Precepting rotation
 - Teaching at UBC Pharmaceutical Sciences
 - Medical student, resident and fellow teaching
 - Allied Health/Nursing teaching

Host Sites

- Leveraging our size, but keeping it local
 - Host site-pair model
 - Aim to schedule resident's core rotations & bulk of required rotations at a pair of host sites
 - Elective rotations may be selected from across the region
 - Host sites this past year were:
 - St. Paul's Hospital
 - Vancouver General Hospital
 - Royal Columbian Hospital
 - Surrey Memorial Hospital



Program Administration

- Director – Dr. Rumi McGloin
- Y2 Adult Programs Coordinator – Dr. Mike Legal
- Administrative support – Ms. Cheri Paddington
- Internal Medicine
 - Lead preceptors – Dr. Mike Legal; Dr. Karen Dahri
 - Clinical Coordinators – Dr. Nilu Partovi (VGH), Dr. Steve Shalansky (SPH)
- Critical Care
 - Lead preceptors – Dr. Jen Haymond (RCH); Dr. Sarah Stabler (SMH); Dr. Glen Brown; VGH CPS
 - Clinical Coordinators – Dr. Rochelle Gellatly (SMH); Dr. Tim Leung (RCH), Dr. Nilu Partovi (VGH), Dr. Steve Shalansky (SPH)
- Y2 Adult Residency Advisory Committee

Stay Tuned!

- In-development
 - Mental Health & Substance Use Y2 program
 - Aiming for launch - Fall 2023
- Check our website for updates

Application Deadline and Contact

Application Deadline: January 30th, 2023

- Contact:
mlegal@providencehealth.bc.ca
- Website: <http://www.lmpsresidency.com/year2program/admissionscriteria>
- LMPS Y2 Programs Information Session
 - January 12th, 2023



Lower Mainland Pharmacy Services – Pediatrics

Presenter: Roxane Carr

Program Goals

- To support the resident to develop and refine their skills as an advanced practitioner, educator and leader in pediatric pharmacy practice
- Additional emphasis on building critical appraisal and research skills





Program Details

- 2 positions
 - Application deadline: January 30th
 - Start date: September

- For more information:

<http://www.Impsresidency.com/year2program>





Alberta Health Services – Infectious Diseases / Antimicrobial Stewardship

Presenter: Irina Rajakumar

AHS INFECTIOUS DISEASES/ANTIMICROBIAL STEWARDSHIP Y2 RESIDENCY

Calgary +/- Edmonton

Alberta



**Alberta Health
Services**

- ▶ Adult inpatient infectious diseases (2 x 4 weeks)
- ▶ Prospective audit and feedback antimicrobial stewardship service (2 x 4 weeks)
- ▶ Medical Microbiology (2 weeks)

- ▶ Pediatric antimicrobial stewardship with ID fellows
- ▶ Solid organ transplant infectious diseases
- ▶ Hematologic malignancy and hematopoietic stem cell transplant
- ▶ Ambulatory HIV therapy
- ▶ ICU
- ▶ Regional/rural infectious disease
- ▶ Cystic fibrosis
- ▶ Tuberculosis

**PROVIDE EVIDENCE-BASED DIRECT PATIENT
CARE AS A MEMBER OF
INTERPROFESSIONAL TEAMS**

- ▶ Develop protocol/guideline/order set/clinical pathway that has been shown to improve consistency and/or quality of care
- ▶ Antimicrobial Metrics
- ▶ Recognize, disclose and respond to adverse events and errors

MANAGE AND IMPROVE MEDICATION-USE SYSTEMS

- ▶ Advanced Prescribing Authorization
- ▶ Quality Improvement Stewardship Project
- ▶ Scholarly Writing activities
- ▶ Participation on local and provincial stewardship committees

EXERCISE LEADERSHIP

- ▶ Precepting a Y1 Resident on their ID rotation
- ▶ Antimicrobial Stewardship presentations
- ▶ Opportunity to teach a lecture for a UofC MDSC515 Course and/or UofA Faculty of Pharmacy
- ▶ Opportunities to present at the ID Division Seminars and Journal Clubs

**PROVIDE MEDICATION- AND
PRACTICE-RELATED EDUCATION**

- ▶ ID focused research project
 - ▶ More ownership in refining the research question/methods vs Y1
 - ▶ Present and defend outcomes of the project to members from defined area of practice

DEMONSTRATE RESEARCH SKILLS



Alberta Health Services – Advanced (Year 2) Residency in Cardiology

Presenter: Sheri Koshman, BScPharm, PharmD, ACPR

sheri.Koshman@ualberta.ca



PHARMACISTS' SCOPE OF PRACTICE IN CANADA

 Implemented in jurisdiction
  Pending legislation, regulation or policy for implementation
  Not implemented

		BC	AB	SK	MB	ON	QC	NB	NS	PEI	NL	YT	NWT	NU
Prescriptive Authority (Schedule 1 Drugs)	Independently, for any Schedule 1 drug	X	✓ ⁴	X	X	X	X	X	X	X	X	X	X	X
	In a collaborative practice setting/agreement	X	✓ ⁴	✓ ⁴	✓ ⁴	X	✓	✓	✓	X	X	X	X	X
Initiate ^{1,2}	For minor ailments/conditions	P ⁶	✓	✓	✓ ⁴	P ⁷	✓	✓	✓	✓ ⁴	✓	X	X	X
	For smoking/tobacco cessation	X	✓	✓	✓ ⁴	✓	✓	✓	✓	✓ ⁴	✓	X	X	X
	In an emergency	✓ ⁸	✓	✓ ⁸	✓ ⁹	✓	✓	✓	✓	✓	✓ ⁸	X	X	X
Adapt/Manage ^{1,3}	Make therapeutic substitution	✓	✓	✓ ¹⁰	X	X	✓	✓	✓	✓	✓	✓	X	X
	Change drug dosage, formulation, regimen, etc.	✓	✓	✓ ¹⁰	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	Renew/extend prescription for continuity of care	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Injection Authority (SC or IM) ^{1,4}	Drugs ⁵	✓	✓	✓	✓	X ¹¹	✓	✓	✓	✓	✓	✓	X	X
	Vaccines ⁵	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	Influenza vaccine	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
Labs	Order and interpret lab tests	X	✓	P ¹²	✓ ¹³	X	✓	P	P ¹²	✓ ¹⁴	X	X	X	X
Techs	Regulated pharmacy technicians	✓	✓	✓	✓ ¹⁵	✓	X	✓	✓	✓	✓	X	X	X

1. Scope of activities, regulations, training requirements and/or limitations differ between jurisdictions. Please refer to the pharmacy regulatory authorities for details.

2. Initiate new prescription drug therapy, not including drugs covered under the Controlled Drugs and Substances Act.

3. Alter another prescriber's original/existing/current prescription for drug therapy.

4. Applies only to pharmacists with additional training, certification and/or authorisation through their regulatory authority.

5. Authority to inject may not include all drugs or vaccines. Please refer to the jurisdictional regulations.

6. Implementation planned for Spring of 2023.

7. To be implemented on January 1, 2023.

8. Applies only to existing prescriptions, i.e., to provide continuity of care.

9. Pursuant to a Ministerial Order during a public health emergency.

10. Applies only to pharmacists working under collaborative practice agreements.

11. For education/demonstration purposes only.

12. Pending health system regulations for pharmacist requisitions to labs.

13. Authority is limited to ordering lab tests.

14. Authority limited to ordering blood tests. No authority to interpret tests.

15. Pharmacy technician registration available through the regulatory authority (no official licensing).



Program aims

- With a focus in cardiovascular care, to enable residents to practice to full scope, at an advanced level, in the province of Alberta
- Develop skills in teaching, leadership and research
- Skills and knowledge gained as part of this residency will be transferable to other practice environments
- Provide experiences across the patient journey in cardiovascular care

Program Overview

- Application deadline: Jan 15, 2023
- 52 weeks – start July 4, 2023
- Rotations
 - Direct patient care
 - Academic Teaching (longitudinal)
 - Research (longitudinal)
 - Quality Improvement (longitudinal)



Direct Patient Care

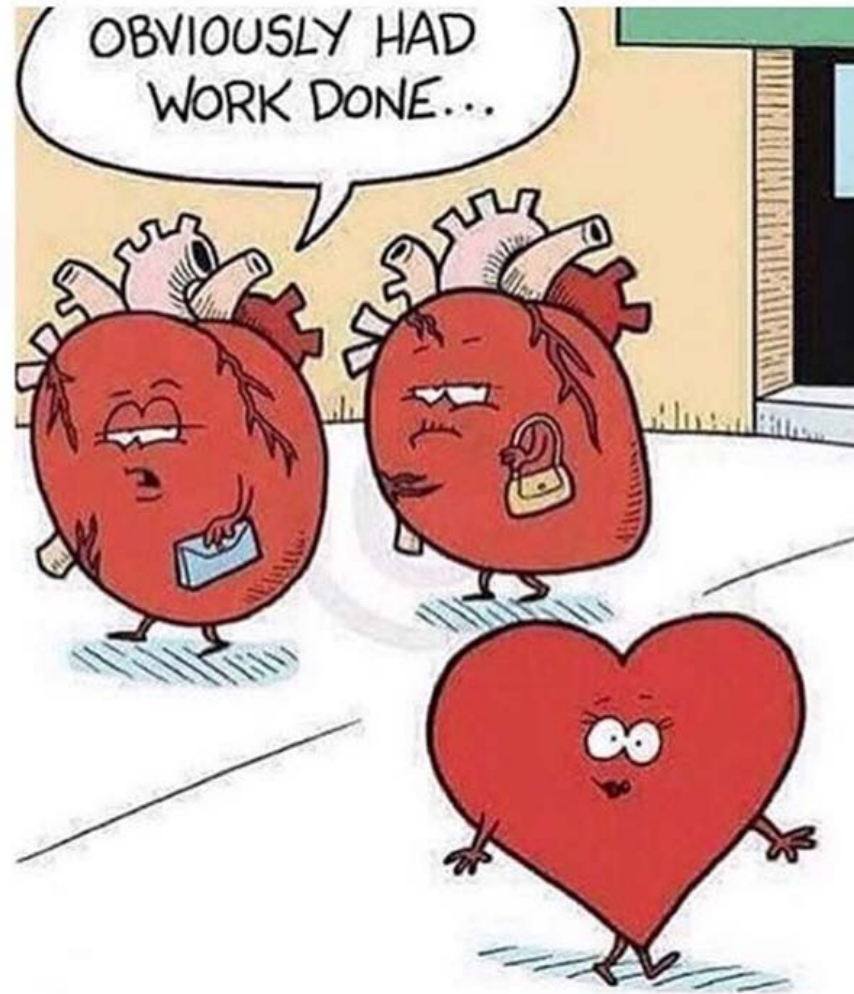
Critical Care	Inpatient	Outpatient		Specialty
CV surgery ICU*	CV Ward	Introduction to CV* clinics	Advanced CV Clinics*	Advance Heart Failure* (heart transplant _ mechanical circulatory support
Cardiac ICU*	CV Surgery wards	General cardiology	Cardio-Oncology	
Pediatric CV ICU		Heart Failure*	Maternal Heart Heath	
		CV Risk Reduction	Arrhythmia Clinic	
		HTN Clinic		
		Anticoagulation Clinic		
		Cardiac Rehabilitation		

* Mandatory

Academic Teaching

- Faculty of Pharmacy and Pharmaceutical Sciences
 - Didactic sessions
 - Teaching in CV course: lectures, labs, seminars
- Precepting Y1 resident
- Academic Half Days / Core Curriculum (CV Medical Resident)
- Cardiology Grand Rounds
- Peer-review

Thank you
for your
attention





Sunnybrook –Year 2 Programs (Antimicrobial Stewardship & Thromboembolism Residency Training)

Presenter: Lesley Palmay, RPh, MSc, ACPR
Clinical Coordinator – Infectious Disease
PGY2 Residency Coordinator

PGY2 Programs Offered

- Antimicrobial Stewardship (AMS) & Thromboembolism (TE)
- Both well-recognized as patient safety and quality of care initiatives
- Key components in the Accreditation Standards for hospitals
- Goal of both programs is to graduate pharmacists with advanced clinical skills/experience to be leaders in these clinical areas

PGY2 Program Housekeeping

Duration: 1 year program

Eligibility

1. Doctor of Pharmacy (as a second professional degree in Pharmacy – i.e., post-baccalaureate); **OR**
2. Master's degree in advanced pharmacotherapy; **OR**
3. Completion of ACPR1 (first-year residency)

Compensation: \$50, 000 (+ benefits)

PGY2 Programs

	TE	AMS
Current Residents	N/A (Application deadline March 2022 for September 2023 start)	
Past Residents	Stephanie Carlin Jennifer Pitman	Jennifer Curran Marina Simeonova
Rotations Offered	TE Inpatient Service Warfarin Outpatient Clinic TE Outpatient Clinics Stroke Cardiology Teaching and Learning Pediatric TE (Hospital for Sick Children) Research Hematology Arterial Thrombosis Clinic (UHN) Thrombosis in Pregnancy Clinic (Mt. Sinai)	Acute Care Stewardship Critical Care Stewardship Infectious Diseases Public Health Ontario Outpatient IV Antimicrobial Clinic Teaching & Learning Research Outpatient HIV (UHN) Immunocompromised/Transplant Stewardship (UHN)
Accreditation Status	Received for 4 years (Fall 2021)	

Our PGY2 Graduates



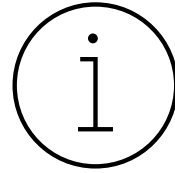
- **TE**

- Stephanie Carlin (2019/20): Thromboembolism Consult Pharmacist; Hamilton Health Sciences Centre
- Jennifer Pitman (2020/21): Cardiology Pharmacist, Sunnybrook Health Sciences Centre

- **AMS**

- Jennifer Curran (2019/20): Pharmacotherapy Specialist, Antimicrobial Stewardship; University Health Network
- Marina Simeonova (2020/21): Clinical Pharmacy Specialist - Infectious Disease & Antimicrobial Stewardship; Island Health

For More Information...



- **Contact:**

- *Primary preceptors:*

- Alison Bond (TE) – alison.bond@sunnybrook.ca
 - Marion Elligsen & Jennifer Lo (AMS) – marion.elligson@sunnybrook.ca; jennifer.lo@sunnybrook.ca

- *PGY2 graduates:*

- Stephanie Carlin & Jennifer Pitman (TE)- carlins@HHSC.CA; jennifer.pitman@sunnybrook.ca
 - Jennifer Curran & Marina Simeonova (AMS): Jennifer.Curran@uhn.ca, marina.simeonova@islandhealth.ca

- *PGY2 Director and Coordinator*

- Danette Beechinor – danette.beechinor@sunnybrook.ca
 - Lesley Palmay – lesley.palmay@sunnybrook.ca

- **Check out:**

- CPRB website: <https://www.cshp.ca/year-2-programs-accreditation-pending-status> (program details, application deadlines, contact information)

Application Deadline:

March 6, 2023



McGill University Health Centre / University Health Network – HIV Program

Presenters: Alice Tseng & Nancy Sheehan



Centre universitaire
de santé McGill



McGill University
Health Centre

HIV Advanced (Year 2) Residency Program

Toronto General Hospital – McGill University Health Centre



<https://hivclinic.ca/residency/>



Toronto,
Ontario



Montréal,
Quebec

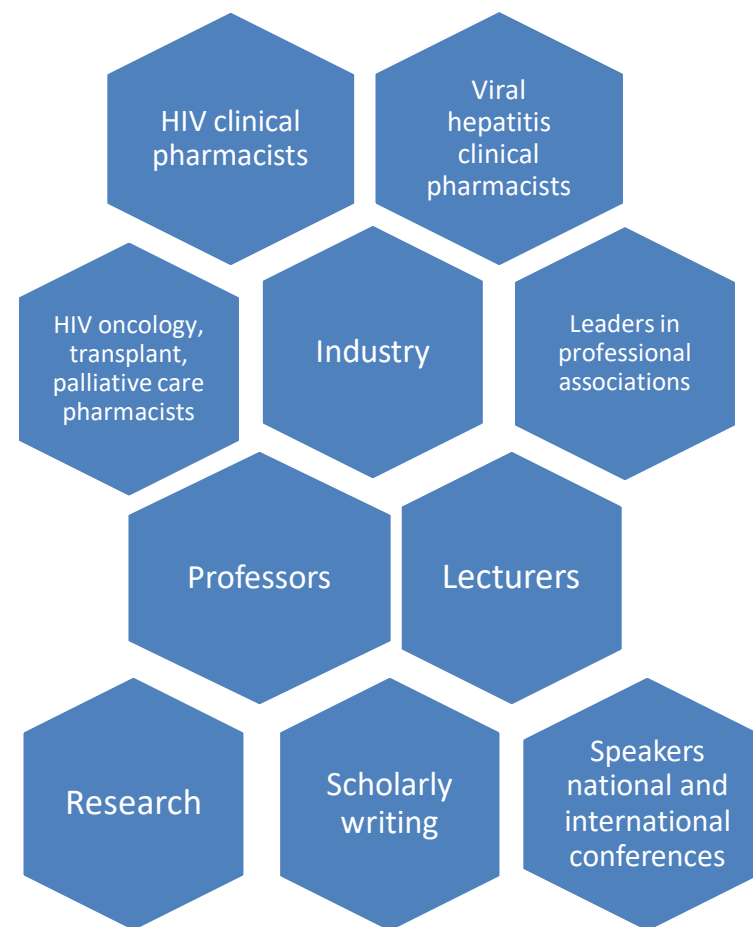


History of the program

- First advanced pharmacy residency in Canada – established in 1998
- Joint program in conjunction with the Leslie Dan Faculty of Pharmacy, University of Toronto
- Program co-coordinators:
 - Alice Tseng alice.tseng@uhn.ca
 - Nancy Sheehan nancy.sheehan@umontreal.ca

Past graduates

	Year
Manish Patel	1998-1999
Mary Nguyen	1999-2000
Nancy Sheehan	2001-2002
Nimish Patel	2006-2007
Alison Wong	2010-2011
Dominic Martel	2012-2013
Denise Kreutzwiser	2015-2016
Salin Nhean	2017-2018
Tessa Senneker	2020-2021



Program Highlights

Immunodeficiency Clinic (Toronto)

- ambulatory care (2 months)
- Clinic Pharmacy (2 weeks)

Community hospital

- Casey House (1 month)

Longitudinal

- Research project (8 weeks)
- Teaching / precepting
- Scientific writing/review

Chronic Viral Illness Clinic (Montréal)

- ambulatory care (2 months)
- antiretroviral TDM (1 month)
- geriatrics (1 month)

Electives:

- ASP, liver transplant service, oncology/HIV, women/pediatrics



Position/Application

Stipend: \$50,000

- *Incl. 2 weeks vacation, up to 1 week conference leave*

Start date: September 2023

Prerequisites:

- *Year 1 ACPR and PharmD/Masters advanced pharmacotherapy*

Application

- *Cover letter, CV, 2 letters of reference (submit to Alice & Nancy via email)*
- *Deadline: Feb 1, 2023*



Breakout Rooms

Rooms will be open until 8:50pm EST.

Attendees are welcome to move in and out of breakout rooms at their leisure.

We will meet back in the main room at 8:50 for a brief conclusion.



Conclusion



Advanced pharmacy practice

- Advanced (Y2) residency programs filling a gap
- Complexity of many therapeutic areas
- ↑ enthusiasm



Benefits of completing an advanced Y2 residency

- ↑ comfort level to care for patients with complex health issues
- ↑ work opportunities in specialty areas and in academia
- ↑ competency for precepting, teaching, research
- Allows networking and future collaborations



Interest in developing a new advanced (Y2) residency program?

- Contact the CPRB or a Y2 residency coordinator

The slide features a decorative graphic on the left side consisting of four hexagons: a large orange one at the top, a light blue one at the bottom, and two smaller white ones with thin outlines on the left. Overlapping the orange and light blue hexagons is a hexagonal image showing a close-up of several sheets of paper with various data visualizations, including line graphs, bar charts, and tables.

Thank you !

Organization of event by:

Vanessa Glasby, BA (Hons), MPNL (she/her)

Christina Cella, RPh, BScPhm, ACPR, DPLA (she/her)

Door Prize Draw

The draw for a registration pass to the Together Conference in Banff will take place tomorrow (Wednesday, December 7).

The winner will be notified via email.

For more information about Year 2 residencies:

- Visit the CPRB website at <https://cshp-scph.ca/year-2-accredited-programs>
- Email our CPRB Coordinator at vglasby@cshp.ca