Contents

Message from the Department Head 03

Department Highlights 05

Education Reports 11

Research 17

Therapeutics Initiative 19

Dr. Jean Templeton Hugill Chair in Anesthesia 23

Pharmacology 24

BC Patient Safety Chair Report 25

DEPARTMENT FACULTY & STAFF NUMBERS

Full-time faculty - 26
Clinical Faculty - 518
Fellows - 22
Residents – 78 (Jay)
Medical Students – 332
Pharmacology Graduate Program – 17 students
Pharmacology Undergraduate Program – 39 students
Postdoctoral Research Fellows – 7
Research Associates – 4
Message from the Department Head

“\textit{I would like to thank all of you for continuing to be generous with your time, your energy, your knowledge and your passion}”

Thank you for taking a few minutes to go through this report. This year the report highlights a few areas in our department, with the usual detailed information placed as appendices. Please share with colleagues in your department, so they too can celebrate the successes of our colleagues as well as hopefully understand this diverse department a little better.

The Department began preparations for transitioning to a new department head in 2022. The External Review of the Department was completed in late spring, and the department response provided by September 2022 with acceptance by the Faculty of Medicine. There were six recommendations, the majority dealing with issues related to the anesthesia clinical faculty. The external reviewers recommended the department remain as a merged entity, focus on hiring clinician scientists including strong consideration for the next BC Patient Safety Chair being held by an anesthesiologist, negotiate support for growth of the Undergraduate Pharmacology program, and for FOM and UBC to work with the Department on the issue of alternate anesthesia providers. Work on several of these recommendations is underway. Formal strategic planning will take place under the leadership of the new Department Head.

Staff

The Department’s financial position is stable at present, with limited capacity to add any salaried positions given the recent faculty additions. We have had ongoing changes in the department staff as our department’s needs change. This has been challenging as we have gone through periods of being quite short-staffed. I appreciate everyone’s patience as we have worked through changes in responsibilities, and temporary position infills. The pandemic changed much in office practice and all of our staff continue to work in hybrid arrangements. The Faculty of Medicine is looking at space needs as all departments no longer occupy space in the same manner as pre-March 2020.

Faculty Renewal

The Department has been successful in faculty renewal applications since 2018 with 2.5 positions gained via the FOM process, all of whom started by January 2022. In addition, the Therapeutics Initiative continues to be successful, thanks to all the faculty reviewers that Katharine manages to recruit (thanks Katharine!).

The Whistler Anesthesia Conference returned to in-person, with virtual hybrid options, in March 2022 and was very well attended. The co-chairs, Dr. Su-Yin MacDonnell and Dr. Sandy Kisilievski have capably taken over and produced an excellent program, with the fantastic support from UBC CPD (Michelle Bayasan).

The Pain Medicine Residency Program continues to do well with its increased capacity of 2 residents per year under the skilled leadership of Dr. Michael Butterfield.

Research continues to flourish within the department. We have some very strong pharmacology researchers with well-established careers and the first CRC Tier 1 in the department: Dr. Tillie-Louise Hackett, Canada Research Chair in Asthma and COPD Lung Pathobiology & Therapeutics. Department applications for the Tier 2 competition to be submitted at the end of 2022 required an internal competition, and the department put forward two applicants, with a 3rd taken on by the Department of Pediatrics for our shared faculty member Dr. Louches. All of our new researchers put in applications for Michael Smith scholarships, with results to be announced in early 2023.

On the anesthesia side, we have clinician-researchers such as Mark Anerminio, Stephan Schwarz, Don Griesdale, Alana Flexman, Himat Vaghadia, Ray Tang, Steve Petrar, Kevin Froehlich, Juliet Atherstone, Gord Finlayson, Jens Lohser, Zoe Brown, Gillian Lauder, Simon Whyte, John Veall, Jason Wilson, Simon Massey, Aaron MacInnes, Peter Choi, Sean McLean, Rael Klein, Kelly Mayson, Andrew Sawka, Jacqui Trudeau, Neal Badner, Janny Ke and Anton Chau, all of whose work is making a difference in health outcomes.

Teaching is what connects our department, with passion amongst so many for teaching students of all levels and interests. I would like to thank everyone who engages in teaching undergraduates and medical students as I know how important it is for the future of the department to incite passion for our work in our learners. Those teaching in pharmacology receive consistently excellent teaching evaluations and our undergraduate and graduate programs in Pharmacology are highly competitive. We hope to substantially increase the size of the undergraduate pharmacology program with the support of the Faculty of Medicine. The Graduate program, now under the directorship of Dr. Pascal Bernatchez, is growing as our new faculty members open their labs, and there is ongoing work on renewal activities within the program including course content assessment and revision.

Our anesthesia training core sites (VGH, SPH, BCCH, BCWH, RCH) and our affiliated sites (Lions Gate, Richmond, Burnaby, Surrey, Delta, Langley, Abbotsford, Chilliwack, Victoria, Nanaimo, Prince George, Kelowna Vernon, Kamloops, Penticton, Terrace/Mills, Kootenay) all have numerous trainees from various disciplines. With the marked growth in our Anesthesiology residency program (now at 20 new positions per year) we now have more sites taking on PGY1 learners, and subspecialty rotation blocks such as thoracics have expanded beyond the traditional sites allowing learners and faculty to experience different practices. Dr. Laine Bosma, the department’s exceptional Anesthesiology Program Director, finished his term at the end of 2022. A search for his replacement was completed in the fall of 2022, and Dr. Zoe Brown (from BCCH) will be taking on the role as of January 1, 2023. Many thanks to Dr. Bosma who steered us through Competency by Design and the doubling of the residency program size!

As I come to the end of my second term in June 2023, I would like to thank all of you for continuing to be generous with your time, your energy, your knowledge and your passion. Despite our improved department financial picture, I can never provide adequate compensation for all your contributed time and effort as I would like to be able to. Let us work on our strategic priorities together, of which the most important is fostering the strengths of our people. These are exciting times for our department as we have welcomed many new academic faculty in the last 2 years, all of whom are involved in department activities including teaching, and are actively applying for grants and awards. I look forward to celebrating their successes in the near future.

Most appreciatively

Roanne Preston, MD FRCP
Department Head

Academic Activities

The Vancouver Summer Program, capably led at FOM level by Dr. Andrew Horne, will restart in the summer of 2023. The study program for international medical graduates to prepare for the Royal College Exams in Anesthesiology continues to be successful, thanks to all the faculty reviewers that Katharine manages to recruit (thanks Katharine!).

The Whistler Anesthesia Conference returned to in-person, with virtual hybrid options, in March 2022 and was very well attended. The co-chairs, Dr. Su-Yin MacDonnell and Dr. Sandy Kisilievski have capably taken over and produce an excellent program, with the fantastic support from UBC CPD (Michelle Bayasan).

The Pain Medicine Residency Program continues to do well with its increased capacity of 2 residents per year under the skilled leadership of Dr. Michael Butterfield.

Research continues to flourish within the department. We have some very strong pharmacology researchers with well-established careers and the first CRC Tier 1 in the department: Dr. Tillie-Louise Hackett, Canada Research Chair in Asthma and COPD Lung Pathobiology & Therapeutics. Department applications for the Tier 2 competition to be submitted at the end of 2022 required an internal competition, and the department put forward two applicants, with a 3rd taken on by the Department of Pediatrics for our shared faculty member Dr. Louches. All of our new researchers put in applications for Michael Smith scholarships, with results to be announced in early 2023.

On the anesthesia side, we have clinician-researchers such as Mark Anerminio, Stephan Schwarz, Don Griesdale, Alana Flexman, Himat Vaghadia, Ray Tang, Steve Petrar, Kevin Froehlich, Juliet Atherstone, Gord Finlayson, Jens Lohser, Zoe Brown, Gillian Lauder, Simon Whyte, John Veall, Jason Wilson, Simon Massey, Aaron MacInnes, Peter Choi, Sean McLean, Rael Klein, Kelly Mayson, Andrew Sawka, Jacqui Trudeau, Neal Badner, Janny Ke and Anton Chau, all of whose work is making a difference in health outcomes.

Teaching is what connects our department, with passion amongst so many for teaching students of all levels and interests. I would like to thank everyone who engages in teaching undergraduates and medical students as I know how important it is for the future of the department to incite passion for our work in our learners. Those teaching in pharmacology receive consistently excellent teaching evaluations and our undergraduate and graduate programs in Pharmacology are highly competitive. We hope to substantially increase the size of the undergraduate pharmacology program with the support of the Faculty of Medicine. The Graduate program, now under the directorship of Dr. Pascal Bernatchez, is growing as our new faculty members open their labs, and there is ongoing work on renewal activities within the program including course content assessment and revision.

Our anesthesia training core sites (VGH, SPH, BCCH, BCWH, RCH) and our affiliated sites (Lions Gate, Richmond, Burnaby, Surrey, Delta, Langley, Abbotsford, Chilliwack, Victoria, Nanaimo, Prince George, Kelowna Vernon, Kamloops, Penticton, Terrace/Mills, Kootenay) all have numerous trainees from various disciplines. With the marked growth in our Anesthesiology residency program (now at 20 new positions per year) we now have more sites taking on PGY1 learners, and subspecialty rotation blocks such as thoracics have expanded beyond the traditional sites allowing learners and faculty to experience different practices. Dr. Laine Bosma, the department’s exceptional Anesthesiology Program Director, finished his term at the end of 2022. A search for his replacement was completed in the fall of 2022, and Dr. Zoe Brown (from BCCH) will be taking on the role as of January 1, 2023. Many thanks to Dr. Bosma who steered us through Competency by Design and the doubling of the residency program size!

As I come to the end of my second term in June 2023, I would like to thank all of you for continuing to be generous with your time, your energy, your knowledge and your passion. Despite our improved department financial picture, I can never provide adequate compensation for all your contributed time and effort as I would like to be able to. Let us work on our strategic priorities together, of which the most important is fostering the strengths of our people. These are exciting times for our department as we have welcomed many new academic faculty in the last 2 years, all of whom are involved in department activities including teaching, and are actively applying for grants and awards. I look forward to celebrating their successes in the near future.

Most appreciatively

Roanne Preston, MD FRCP
Department Head
Department Highlights

Department Leadership
Roanne Preston – Department Head
Academic Leadership
Peter Choi – Vice-Chair, Education
Alana Flexman – Vice-Chair, Equity, Diversity and Inclusion
Tillie-Louise Hackett – Vice-Chair, Research
Pascal Bernatchez – Basic Science Research Director
Don Griesdale – Clinical Research Director
Colin Dormuth – Co-Managing Director, Therapeutics Initiatives
Ken Bassett – Co-Managing Director, Therapeutics Initiatives
Stephan KW Schwarz – Dr. Jean Templeton Hugill Chair in Anesthesia
K Malcolm Maclure – BC Patient Safety Chair
Pascal Bernatchez – Director/Advisor, PCTH Graduate Program
Peter Choi – Medical Undergraduate Program Director
T. Laine Bosma – Anesthesia Residency Program Director
Sadig Abdulla – Anesthesia Residency Program Associate Director
Michael Butterfield – Pain Medicine Residency Program Director
John McAlpine - Family Practice Anesthesia Residency Program Director
John Veall - Simulation Program Director
Sadig Abdulla – BC Anesthesia Clinical Fellowships Director
Giselle Villar – Visiting Professor & Continuing Professional Development Program Director
Su-Yin Macdonell and Sandra Kisilevsky - Whistler Anesthesia Conference co-chairs
Bali Dhaliwal – Clinical Faculty Advisory Committee Representative

Site Chiefs:
Jens Lohser – Head, VGH/UBCH Department of Anesthesia & Perioperative Care
Jim Kim – Head, St. Paul’s Hospital Department of Anesthesia
Simon Whyte – Head, BC Children’s Hospital Department of Anesthesia
James Brown - BC Women’s Hospital Department of Anesthesia
Feisal Mohamedali – co-Head, Royal Columbian Hospital Department of Anesthesia
Kenneth Ryan – co-Head, Royal Columbian Hospital Department of Anesthesia
Feisal Mohamedali – Regional Head, Fraser Health Authority
Magda Lipowska – Head, Lions Gate Hospital Department of Anesthesia
Glenn Dong – Head, Richmond General Hospital Department of Anesthesia
Liz Chuah – Head, Burnaby General Hospital Department of Anesthesia
Claa Gramberg/Alex Vesely/Freda Wong – co-Heads, Surrey Memorial Hospital
Parisa Soltani – Head, Chilliwack General Hospital Department of Anesthesia
Catherina Matthaeus – Head, Abbotsford Regional Hospital & Cancer Centre
Desmond Sweeney – Head, Victoria General/Royal Jubilee Hospitals Department of Anesthesia
Alistair Graham – Head, Kelowna General Hospital Department of Anesthesia
Adam van der Merwe – Medical Director Kelowna General Hospital Department of Anesthesia
Tom Cull – Head, Vernon Jubilee Hospital Department of Anesthesia
Mark Edge – Head, Royal Inland Hospital Kamloops Department of Anesthesia
Kenneth Harder – Head, Penticton Regional hospital Department of Anesthesia
Pal Dhady – Head, University Hospital of Northern BC Department of Anesthesia

Division Heads
Alexander Wong – Division Heads, Regional Anesthesia
Juliet Atherstone – Division Co-Head, Cardiac Anesthesia
Anne-Marie Madden – Division Co-Head, Cardiac Anesthesia
Sandra Kisilevsky – Division co-Head, Neuroanesthesia
William Rieley – Division co-Head, Neuroanesthesia
James Brown – Division Head, Obstetric Anesthesia
Aaron MacInnes – Division Head, Pain Management
Simon Whyte – Division Head, Pediatric Anesthesia
Su-Yin Macdonell – Division Head, Perioperative Anesthesia
Chris Durkin – Division co-Head, Thoracic Anesthesia
Travis Schisler – Division co-Head, Thoracic Anesthesia

New Academy Faculty

Dr. Amrit Singh
Assistant Professor, Tenure Track

Dr. Anshula Ambasta
Assistant Professor, Tenure Track

Dr. Wade Thompson
Assistant Professor, Tenure Track

Dr. Khaled S. Abdelrahman
Assistant Professor, Tenure Track
Air pollution as a modulator of molecular, structural and clinical outcomes in patients with fibrotic interstitial lung disease. Up to two percent of patients will experience a stroke during or after surgery and these patients have a high chance of disability and death. Currently, we don’t understand clearly how to prevent, detect, and treat stroke after surgery. Although risk factors have been identified including older age and cardiac surgery, high risk surgical patients are not usually identified and strokes can be missed, leading to fewer treatment options and more complications.

New Clinical Faculty

Dr. Ayda Askari – Clinical Instructor (VGH)
Dr. Saeid Behmanesh – Clinical Assistant Professor (RCH)
Dr. Katsiaryna Bellaousov – Clinical Instructor (SMH)
Dr. Lily Yu Long Chiu – Clinical Instructor (SPH)
Dr. Lynn Rudner Correll – Clinical Assistant Professor (BCCH)
Dr. Julia Cory – Clinical Instructor (VGH)
Dr. Erica Dibb-Fuller – Clinical Instructor (BCCH)
Dr. Connie Drewbrook – Clinical Instructor (LGH)
Dr. Ashleigh Farrell – Clinical Instructor (Victoria)
Dr. Julena Foglia – Clinical Instructor (VGH)
Dr. Montasser Ghazy – Clinical Instructor (Penticton)
Dr. Adriana Greying – Clinical Instructor (Penticton)
Dr. Hilary Grocott – Clinical Professor (VGH)
Dr. Elise Mareen Hindle – Clinical Instructor (BCWH)
Dr. Michael Jew – Clinical Instructor (SPH)
Dr. Shamir Karmali – Clinical Instructor (VGH)
Dr. Roy Khalaf – Clinical Assistant Professor (Kelowna)
Dr. Jimmy Lam – Clinical Instructor (VGH)
Dr. Ryan Latimer – Clinical Instructor (LGH)
Dr. Carl Leipoldt – Clinical Instructor (Victoria)
Dr. Edmond Li – Clinical Instructor (RCH)
Dr. Brodie Lipon – Clinical Instructor (Cowichan)
Dr. Brenda Lougheed – Clinical Instructor (Kelowna)
Dr. Thomas McCormick – Clinical Instructor (RCH)
Dr. Kaylyn Merrifield – Clinical Instructor (Victoria)
Dr. Katherine Mittermaier – Clinical Instructor (VGH)
Dr. Tetyana Postonogova – Clinical Instructor (RCH)
Dr. Thomas Riekkö – Clinical Instructor (Kelowna)
Dr. Taren Roughhead – Clinical Instructor (RCH)
Dr. Teresa Skelton – Clinical Assistant Professor (BCCH)
Dr. Victor Tran – Clinical Instructor (VGH)
Dr. Alan Tung – Clinical Instructor (RCH)
Dr. Andrew Wang – Clinical Instructor (BCWH)
Dr. Zacharias Van Den Heever – Clinical Assistant Professor (RCH)
Dr. Charles Vincent Yu – Clinical Instructor (SPH)

2022 Academic & Clinical Promotions

Approved for Promotion from Assistant Professor, Partner to Associate Professor.
Dr. Matthias Görges

Approved for Promotion from Clinical Instructor to Clinical Assistant Professor
Dr. Prakash Krishnan – BC Children’s Hospital
Dr. Janny Ke – St. Paul’s Hospital
Dr. Clara Gramberg – Surrey Memorial Hospital
Dr. Beau Klabert – Vancouver General Hospital
Dr. Kali Romano – Vancouver General Hospital
Dr. Amber Galbraith – Vancouver General Hospital
Dr. Riley Senft – Lions Gate Hospital
Dr. Ronelle Theron – Royal Columbian Hospital
Dr. Richard Alexander – Victoria General Hospital
Dr. Akintunde Dada – Chilliwack General Hospital
Dr. Colin Phillips – University Hospital of Northern BC
Dr. Simon Rose – University Hospital of Northern BC

Approved for Promotion from Clinical Assistant Professor to Clinical Associate Professor
Dr. James Brown – BC Women’s Hospital
Dr. Katherine Selingman – BC Women’s Hospital
Dr. Natasha Broemling – BC Children’s Hospital
Dr. Jacqueline Trudeau – Vancouver General Hospital
Dr. Andrea Brovender – Vancouver General Hospital
Dr. Christopher Durkin – Vancouver General Hospital
Dr. Clare Morrison – Lions Gate Hospital
Dr. Robert Finland – Lions Gate Hospital

Faculty & Trainee Research & Education Awards

Dr. Alana Flexman
Assistant Professor, Partner Track

Michael Smith Foundation Health Professional Investigator Award 2022
Dr. Flexman’s research is focused on Perioperative stroke screening and outcomes in high-risk surgical patients. Up to two percent of patients will experience a stroke during or after surgery and these patients have a high chance of disability and death. Currently, we don’t understand clearly how to prevent, detect, and treat stroke after surgery. Although risk factors have been identified including older age and cardiac surgery, high risk surgical patients are not usually identified and strokes can be missed, leading to fewer treatment options and more complications.

Dr. Efthymios Kyriakis
Postdoctoral Fellow (Fedida Lab)

Michael Smith Health Research BC Postdoctoral Fellowship Award 2022
Dr. Kyriakis’ research project entitled “Cryo-EM studies of activators and inhibitors of KCNQ1 and KCNQ1: KCNE1 channel complexes”.

Dr. Yashodani Pillay
Postdoctoral Fellow (Ansermino / Wiens Lab)

Michael Smith Health Research BC Postdoctoral Fellowship Award 2022
Dr. Pillay’s research project entitled “Saving mother-newborn dyads by developing a predictive risk model to identify dyads and guide delivery of post-discharge care”.

Daniel Shirvani
4th Year PCTH BSC student
Award – Carl Bradford Robertson Scholarship; Wesbrook Scholar Designation

Katharine Feng
4th Year PCTH BSC student
HSBC Emerging Leader Scholarship; Wesbrook Scholar Designation
EDUCATION/TRAINING AWARDS 2022

Anesthesiology Residents

Dr. Derek Daniel Wolney Prize for Clinical Proficiency – Dr. Taren Roughead
Dr. John A. McConnell Award for Academic Excellence – Dr. Julia Cory
Dr. Jone Chang Memorial Award in Anesthesiology Excellence – Dr. Michael Jew
Dr. Jone Chang Memorial Prize in Chronic Pain – Dr. Naima Kotadia
Ken C.K. Wong Award for Clinical Teaching – Dr. Ryan Best
UBC APT Advanced Simulation Training Program –
Drs. Serenity Aberdour, Vivien Hu, Vladimir Kovall, Amir Siddiqui
Dr. Dimitri Giannoulis Memorial Award in Regional Anesthesia – Dr. Cole Wong
Dr. Keith Mills Award for Excellence in Neuroanesthesia – Dr. Naima Kotadia
Dr. Keith Mills Bursary for Excellence in Neuroanesthesia Studies – Dr. Naima Kotadia
VGH Kenny Wong Award for Clinical Excellence and Collegiality – Dr. Stephen Miazga
BCAS Resident Award for Physician Leadership – Dr. Michael Jew
Dr. Anthony Boulton Award for FPA Clinical Excellence – Dr. Mimi He
Dr. Paul Kliffer Golden Epidural Award – Dr. Robertson Venema (Jr. Resident); Dr. Julia Cory (Sr. Resident)
Dr. Michael Smith Award for Pediatric Anesthesia – Dr. Michael Jew
RCH Resident Award for Clinical Excellence – Dr. Robertson Venema (Jr. Resident); Dr. Connie Drewbrook (Sr. Resident)
Dr. Murray Robinson Award – Dr. Cole Wong
Dr. Colin A. Sands Award for Most Collaborative R1 – Dr. Wendy Yao
Dr. Albert Pace Florida Memorial Award in Anesthesiology – Dr. Katrina Genuis

Pharmacology & Therapeutics Undergraduate

Esther Anderson Memorial Prize (highest graduating average in Honors Pharmacology) – Georgia Sloan De Rappard-Yuewack
Prakash Gill Memorial Prize (highest graduating average in Majors Pharmacology) – Amardeep Singh Sekhon
MERCK Canada Scholarship in Medicine –
Ms. Brynn Alexandra Walker
Thomas L. Perry Memorial prize in Medical Pharmacology –
Ms. Vivian Morley-Senkler

Pharmacology & Therapeutics Graduate Awards

Sacks Prize (Best presentations) – Aileen Hsieh
Leighton Pharmacology Graduate Award – Arash Yousefzadeh
CIHR-CGSM award (2022 May-23 Apr) – Aileen Hsieh, MSc
The Cmolik Alumni Award (2022 Sept-2024-Aug) – Rachel McLellan-Carich, MSc

FACULTY TEACHING AWARDS 2022

Master Teacher Awards:

VGH – Dr. John Veall
SPH – Dr. Alana Flexman
RCH – Dr. Matthew Turnock
BCCH – Dr. Zoe Brown
BCWH – Dr. Jonathan Collins
Rural/Community – (Surrey)- Dr. Jeremy Neufeld
Medicine – (Critical Care) – Dr. Kali Romano
Dr. Dimitri Giannoulis Resident Appreciation Award – Dr. Laine Bosma
FPA Master Teacher Award – Dr. Vishal Varshney (BCCH)
FPA Master Teacher Award – Dr Heng Gan (BCCH)

RESEARCH DAY AWARDS 2022

Paper of the Year Awards - 2022

Dr. Jacqueline Trudeau: Rationalized preoperative management of hip and knee arthroplasty patients: A retrospective cohort study.
Dr. Bern MacLeod of the Hugill Lab: A new hypertonic saline assay for analgesic screening in mice: effects of animal strain, sex, and diurnal phase.

16th Annual Research Day and Awards Night - May 26, 2022

Objective: To review research currently conducted by graduate and post-graduate trainees and fellows in the Department of Anesthesiology, Pharmacology & Therapeutics at the University of British Columbia.

Winning Presentations

Oral – Anesthesiology
1st Place – Christina Fokkens (Masters Student – Görges M lab)

Oral – Pharmacology & Therapeutics
1st Place – Kingsley Nwozor (Doctoral Student – Hackett lab)

Lightning Talks
James Taylor – Medical Student – Zoe Brown - supervisor
Stephanie Alexis – Medical Student – Kelly Mayson - supervisor
Education Reports

ANESTHESIA RESIDENCY

Dr. T. Laine Bosma
Former Program Director
Dr. Zoë Brown
Incoming Program Director

Training Positions

As of December 2022, a total of 76 residents were registered in the 5-year Royal College Physicians and Surgeons program. We welcomed twenty new PGY1 residents, an increase from fifteen the previous year and two Program transfers. Eleven residents are scheduled to complete their residency during the 2022/2023 academic year and will be taking their RCPSC examinations in Anesthesiology in the spring of 2023. The number of CARMS positions will remain at 20 for 2023/2024. We continued to have a large applicant pool of over 180 well qualified students with a large contingent of UBC students applying.

New Graduates

All the PGY5 residents were successful in the 2022 Royal College specialty examinations in Anesthesiology. Our Exam Seminar Series, led by Dr Katarina Kojic and Dr Nav Chima and supported by may faculty, continues to be successful and a model for Royal College exam preparation. The vast majority of 2022’s graduates have faculty positions at UBC academic hospitals.

Resident Selection Committee

A robust and active sub-committee of the Residency Program Committee (RPC) reviewed all applicants. The Selection Committee was chaired by the Associate Program Director, Dr Sadiq Abdulla, with twenty-five committee members representing all the major BC teaching hospitals. Resident members are also well-represented on the committee. The selection committee was refreshed this year with a focus on improving equity, diversity and inclusion of the selection process.

Academic Program

- Academic Day - The full day academic program involving active participation from each of the teaching hospitals has been very successful. Sessions returned to in-person with an online option for those unable to attend. The return to in-person is seen as an important way of maintaining contact between the academic years, particularly with the significant expansion.
- Residency Program Committee continues to support the autonomy of each participating UBC teaching hospital in delivering their contribution to the residents’ educational program.
- Simulation - Led by Dr. John Veall and assisted by Dr Taren Roughead, simulation continues to be a mainstay of our residency program. The Royal College CanNASc scenarios, required by the new curriculum, continue to be delivered successfully, recognizing that these sessions demand a large portion of our simulation human resources. Please refer to the simulation report for specific details.
- Journal Club - an integral part of the academic program, meetings moved back to in-person during this academic year. Dr. Terri Sun continued in the coordinator role with two residents supporting her.

Clinical Program

The clinical program continues to be a strong element of the UBC Anesthesiology training program. Training in both core anesthesiology as well as subspecialty anesthesiology is distributed between the primary teaching sites, as well as many secondary teaching sites. The program continues to work at recruiting new training experiences for residents, with Surrey Memorial Hospital, Burnaby General Hospital and Kelowna General Hospital increasing their participation in the program. Plans are in place expand sub-specialty training to these sites for the 2023/2024 academic year. The expansion of residency has meant that residents are able to go to new sites for training opportunities which is exciting for the Province but will be monitored closely.

Residency Program Committee (RPC)

This committee met 4 times in 2022 and as always was effective in guiding the activities and path of the residency training program. Committee members include hospital program coordinators from each site, our Royal College Examiners, members at large, UBC APT Department Head, resident representation from all years, and the program director as chair.

Administration

We sadly say goodbye and thank you to Dr Laine Bosma this December, 2022, after 6 years at the helm as Program Director, having supported the program through CBD and COVID. He will be sorely missed, but not forgotten as he will co-chair the Competency Committee with Dr Cynthia Yarnold

Summary

2022 was yet another highly successful year for the UBC Anesthesiology Residency Training Program. Moving away from changes made due to COVID, back to in-person has been a welcome return. The teaching and support that our clinical faculty provide to our residents is key to our success whether it is taking part in the academic program, helping senior residents prepare for the oral exam or mentoring residents in and out of the OR. In addition, the determination of the resident body to maintain a tight-knit group despite an increase in numbers is a compliment to them. The goodwill and high level of commitment to residency training is a credit to this department.
FAMILY PRACTICE ANESTHESIA
Dr. John McAlpine
Program Director

The UBC FPA Enhanced Skills program expanded to 5 residents per year with the mandate to produce skilled family practice anesthetists committed to working in rural British Columbia. It is a challenging and demanding 12-month program with a blend of tertiary center rotations in the lower mainland (adult, pediatric, obstetrical anesthesia, and critical care) and rural community rotations (including Whitehorse, Terrace or Campbell River, and an elective block).

Although it is an Enhanced Skills program within the Dept of Family Practice, it naturally has a very close relationship with the Royal College anesthesia program and shared administration. It benefits greatly from this relationship with shared participation in a number of educational opportunities including full academic days, simulation, journal club, transfusion medicine bootcamp, and focused workshops on airway techniques and regional anesthesia to name a few. Additionally, every year the FPA residents are supported to attend the NOSM FPA Bootcamp which is an intensive and innovative simulation training program. The UBC FPA program is very grateful to the BC REAP program for supporting the tuition for this resident event which consistently receives very positive resident reviews.

This is the inaugural year of full implementation of our new CBD curriculum with corresponding evolution of our competency committee structure and process. The program benefits greatly from its highly engaged CC and RPC members for the continued review and evolution of the FPA curriculum.

Each November the annual UBC FPA Refresher Course is held with strong attendance from the BC FPA community and increasing attendance from other regions of the country. This conference receives tremendous support from the UBC Anesthesia faculty towards the academic content of lectures and workshops and is of great educational benefit to the broader BC FPA community.

The enormous depth of our UBC anesthesia faculty committed to teaching our residents is certainly our greatest asset and key to the success of our training programs.

PAIN MEDICINE RESIDENCY PROGRAM
Dr. Michael Butterfield
Pain Medicine Residency Program Director

1. Program Overview

A. New Residents
i. The UBC Pain Medicine Program continues attract excellent applicants from a variety of specialties and this year the two positions were again filled by individuals whose primary specialty is Emergency Medicine. Both of these individuals have been leaders in the field of medical education in emergency medicine.

B. Graduating residents
i. Dr. Mario Francispragasam and Dr. Patrick Oxciano graduated from the program this year and they both will be remaining in British Columbia to start their careers in pain medicine. These individuals have already started at community pain clinic in Richmond and have been working in Kamloops to provide pain services to underserved areas. They are both actively involved in medical education and will be contributing to the education of incoming pain medicine residents.

2. Education

A. Competency by Design (CBD)

Pain Medicine is one of the last specialties to transition to CBD and as such have been focused on faculty development to prepare for this implementation in July 2023. We are looking forward to this transition and look forward to the improved the educational experience for our residents. It is our hope that with a more competency based educational model, residents may be able to complete the program in less than 2 years and will attract more applicants.

3. Clinical Program

A. We have continued to expand our educational sites which have included the Bill Nelems Pain and Research Centre in Kelowna and the Central Island Pain Program in Nanaimo as part of our multidisciplinary pain clinic sites. Also, this year we have made connections with Pain School International in Budapest, Hungary, and one of our residents completed an elective rotation there to expand his scope of procedural pain medicine.

4. Future Directions

A. Ensure that the Competency by Design model is seamlessly integrated into the pain medicine residency program.
B. Develop a dedicated simulation program for managing emergencies that can occur when performing interventional procedures.
C. Improve the research component of the pain medicine residency program.
D. Increase resident engagement in leadership and community advocacy for individuals with chronic pain.
Undergraduate Education-Non-Medical, Bachelor of Science

The Department offers a 4-year B.Sc. and a 5-year B.Sc. Co-op Education program with Honours as well as pharmacology Major. The aim of our programs is to produce graduates broadly trained in all aspects of pharmacology. The B.Sc. Pharmacology program has been in existence under the Faculty of Science for about three decades. In the first and second years, the students take a basic science program. Since there is room for a maximum of 24 students in third year, all those registered in second year are interviewed by Dr. S. Karim as part of the selection process. Entrance to third year is primarily on the basis of marks and completion of a minimum of 60 credits within the winter terms of year 1 and 2. Students then select Honours or Majors in either the four year or five year (Co-op) program.

The program emphasizes the experimental and laboratory aspects of Pharmacology and students learn both the whole animal and isolated tissue techniques as well as biochemical and chemical procedures. Skills that are stressed include the ability to search for information, design appropriate experiments, carry out experiments individually and as a member of a team, analyze data and, communicate and write effectively.

Co-op Program

For the co-op program, in addition to classical laboratory-based university instruction, the students will do 12 to 16 months (i.e., 3 to 4 work-terms) of paid work placement (i.e., 3 to 4 work-terms) in pharmacology research laboratories in pharmaceutical companies or academic institutions.

Work placement starts in May or September after the completion of year 3 and continues through year 4. Students in the honours program will take additional credits in years 2, 3, and 5 and conduct a laboratory-based research project for 6 months during year 5 (Sept. to March) within the Department and present an Honours thesis (PCTH 449).

Students participating in the Co-op program register for PCTH 398, 399, and 498, in addition to the normal academic requirements, and pay the Co-op Education Program fee for each course. PCTH 499 is optional for students who want to have four work placements.

Over the past few years, we have had our co-op students placed in various pharmaceutical and biotechnology companies in Canada, Japan, Germany, Singapore, Austria, and the United States.

Undergraduate Education Committee

Dr. Andrew Horne
Chair Undergraduate Education Committee

In 2022, the Undergraduate Education Committee undertook an informal review of our upper-level PCTH courses, as well as our general requirements for a BSc degree in Pharmacology. Through discussion with key stakeholders including course directors, faculty, and students in our program, we identified several action items:

- Modification of 2nd year BSc requirements to reflect updates in course offerings provided by other departments.
- Addition of PCTH 201 as a requirement for the BSc Pharmacology degree. PCTH 201 was previously an elective course open to all and while it can still be taken as such by non-PCTH students, discussions with 3rd and 4th year students about which courses best set them up for success in our program continually identified this course as a key element of their success.
- Replacing PCTH 300, our previous 6-credit lecture course required for our 3rd year students, with PCTH 301 and PCTH 303, two 3-credit courses that must be taken in sequential order. To our students, this is more of a cosmetic change as there is no change in the course material covered in comparison with PCTH 300; however, this does open up the course to non-PCTH students who may find the full-year 6-credit PCTH 300 difficult to fit into their course schedule. We hope that this change will encourage greater interest in our course offerings.

In addition to these curricular changes, we are in the early stages of a dramatic change in how administrative tasks related to teaching will be carried out, with the phased transition to Workday Student as part of UBC’s Integrative Renewal Program, replacing archaic software that is struggling to meet the demands of UBC faculty, staff, and students. The first phase of this transition is not set to occur until October 2023, but early efforts have been undertaken to train departmental faculty and staff. Beyond these behind-the-scenes updates, the Undergraduate Education portfolio for 2022 can be best summarized through discussion of each of the three 4-month academic terms:

2021W, Term 2 (January to April, 2022)

After an initial few weeks of UBC switching to online education, the remainder of the term was conducted in person. With the exception of Midwifery (MIDW) 125, the remainder of our classes in 2021W2 are continuations of courses started in Term 1.

Below is a summary table of courses offered in Term 2, along with course director and enrolment:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Course Directors</th>
<th>2021W Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIDW 125</td>
<td>Pharmacology for Midwifery Care Providers</td>
<td>Jennifer Shabbits</td>
<td>20</td>
</tr>
<tr>
<td>PCTH 300</td>
<td>Introduction to Pharmacology</td>
<td>Catherine Pang</td>
<td>23</td>
</tr>
<tr>
<td>PCTH 305</td>
<td>Basic Human Pharmacology</td>
<td>Catherine Pang</td>
<td>16</td>
</tr>
<tr>
<td>PCTH 302</td>
<td>Introductory Pharmacology Laboratory</td>
<td>Catherine Pang</td>
<td>23</td>
</tr>
<tr>
<td>PCTH 400</td>
<td>Systematic Pharmacology</td>
<td>Sastry Bhagavatula</td>
<td>18</td>
</tr>
<tr>
<td>PCTH 402</td>
<td>Systematic Pharmacology Laboratory</td>
<td>Joanne Leung</td>
<td>3</td>
</tr>
<tr>
<td>PCTH 404</td>
<td>Drug Assay and Pharmacometrics</td>
<td>Andrew Horne</td>
<td>16</td>
</tr>
</tbody>
</table>
May 2022 saw 17 of our students graduate with their Bachelor of Science degree in Pharmacology; three of our students fulfilled the requirements for Honors distinction, with the remaining 14 completing the necessary requirements for a Majors degree. Amardeep Sekhon was awarded the Esther R. Anderson Memorial Prize, as the Honours Pharmacology with the highest graduating average. Georgia De Rappard-Yuswack was awarded the Prakash Gill Memorial Prize in Pharmacology and Therapeutics, as the Majors Pharmacology student with the highest graduating average. Congratulations to Amardeep, Georgia, and our entire graduating class of 2022!

The Vancouver Summer program, which had been on hiatus since 2020 due to pandemic-related issues, returned for this summer. The department offered a program but there was insufficient enrolment to proceed with our course package, a common theme seen by all but one of the departments offering VSP programming.

In September 2022, we welcomed 19 students into the third-year pharmacology program (PCTH 300 and PCTH 302), and 20 students into fourth year standing (PCTH 400 and PCTH 404); the latter is a combination of students advancing directly to fourth year from 2021W and those returning from 12-16 months of optional co-operative work experience. The balance of enrolment in our 400-level core courses were from students taking these courses as an elective or as part of their requirement for alternate BSc degrees such as Integrated Sciences.

PCTH 325, offered as elective courses for students in BSc programs at UBC (though they are frequently taken by students in other programs as well) continued to see high enrolment in line with historical averages. Of note, Alasdair Barr assumed the role of PCTH 325 course director for 2022W, taking over from Jennifer Shabbits who had previously served in the role since the course’s inception.

The following table summarizes the PCTH courses offered in Term 1 of 2022W, along with course directors and student enrolment:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Course Directors</th>
<th>2021W Enrolment</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCTH 201</td>
<td>Drugs and Society</td>
<td>Andrew Horne</td>
<td>83</td>
</tr>
<tr>
<td>PCTH 300</td>
<td>Introduction to Pharmacology</td>
<td>Catherine Pang</td>
<td>19</td>
</tr>
<tr>
<td>PCTH 305</td>
<td>Basic Human Pharmacology</td>
<td>Catherine Pang</td>
<td>16</td>
</tr>
<tr>
<td>PCTH 302</td>
<td>Introductory Pharmacology Laboratory</td>
<td>Catherine Pang</td>
<td>19</td>
</tr>
<tr>
<td>PCTH 325</td>
<td>Rational Basis of Drug Therapy</td>
<td>Alasdair Barr</td>
<td>232</td>
</tr>
<tr>
<td>PCTH 400</td>
<td>Systematic Pharmacology</td>
<td>Sastry Bhagavatula</td>
<td>26</td>
</tr>
<tr>
<td>PCTH 402</td>
<td>Systematic Pharmacology Laboratory</td>
<td>Joanne Leung</td>
<td>0*</td>
</tr>
<tr>
<td>PCTH 404</td>
<td>Drug Assay and Pharmacometrics</td>
<td>Andrew Horne</td>
<td>26</td>
</tr>
</tbody>
</table>

*This course did not run in 2022W
Research

Dr. Tillie-Louise Hackett
Professor, Vice Chair of Research APT Department.

On behalf of the research committee, we proudly present the Department of Anesthesiology, Pharmacology and Therapeutics’ 2022 Annual Research Report—a reflection on a year of dedicated research pursuits and academic efforts. In the ever-evolving landscape of healthcare and medical research, this report serves as a snapshot of our commitment to advancing knowledge and enhancing patient care. At the core of this report, are our people—our faculty, researchers, students, and support staff. Their combined efforts, dedication, and curiosity are the driving force behind these research advances.

With this in mind, we would like to first congratulate our faculty and post-doctoral fellows for their exceptional achievements in securing Investigator and Fellowship awards over the last year.

APT Research output

Our researchers, both seasoned faculty members and ambitious students, have undertaken projects that span the intricacies of anesthesiology, pharmacology, and therapeutics and resulting in 283 papers. The number of research publications only provides a glimpse into the dedication of our work to the medical field. This research only thrives through collaborative efforts, from partnerships with medical institutions our faculty and engagements with patient groups. These connections amplify the impact of our research, allowing us to translate discoveries into meaningful changes that resonate within healthcare settings and patient outcomes. Despite the ongoing global recession, our Department remains on track with operating grants.

APT Research Day

This year marked the 16th Annual APT Research Day, which was again a great success thanks to the organizing committee led by Dr. Don Griesdale, Dr. John (Kip) Kramer, Dr. Alana Flexman, and Dr. Stephan Schwarz. In addition to the Dr. Jean Templeton Hugill Memorial lecture, given this year by Dr. Hance Clarke, and the Emerging Faculty Invited Lecturer given by Dr. Catrina Loucks, the Research Day showcased the Research Excellence of fellows and trainees within our Department. Below are the award winners for each presentation category.

Research Committee

he past year witnessed the research committee’s completion of the rebranding of the Department’s website. This undertaking was driven by a deliberate focus on showcasing our expertise and capacity across all Research Themes that our Department.

Themes that our Department invests in. The committee also developed a review process for the 2022 Canada Research Competition, from which we put forward two candidates and one partnered candidate with pediatrics. This framework is now poised to serve as a guiding structure for all forthcoming faculty applications and future CRC competitions as announced by the Faculty of Medicine. Moving forward, the committee will focus on developing a platform for ease of data entry to enable population of Faculty Biostitches on the APT website. Drawing further

16th Annual Research Day Report

We held our annual APT Research Day on May 26th, 2022 at the Cullen Family Lecture Theater at St. Paul’s Hospital. We were fortunate to have two stellar keynote presentations. Dr. Hance Clarke (Associate Professor, University of Toronto presented the Dr. Jean Templeton Hugill Memorial Lecture. Dr. Catrina Loucks (Assistant Professor, UBC) gave the Emerging Faculty Invited Lecture.

Our Papers of the Year award winners were Dr. Bernard MacLeod and Dr. Jacqueline Trudeau.

The research day awards were as follows

<table>
<thead>
<tr>
<th>Presentation Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Kingsley Nwozor</td>
</tr>
<tr>
<td>Oral</td>
<td>Christina Fokkens</td>
</tr>
<tr>
<td>Lightning Talk</td>
<td>James Taylor</td>
</tr>
<tr>
<td>Lightning Talk</td>
<td>Stephanie Alexis</td>
</tr>
</tbody>
</table>
Therapeutics Initiative

Dr. Colin Dormuth
Co-Managing Director

The Therapeutics Initiative (TI) was established in 1994 at the University of British Columbia (UBC). The TI mission is to provide drug reviews, pharmaco-epidemiological studies, as well as education and quality prescribing programs. It is supported by research grants, donations, an endowment and a shared cost agreement with the BC Ministry of Health (MoH) to the UBC. Over the years, the TI has substantially enhanced its ability to assess the clinical evidence presented in published articles, meta-analyses by the Cochrane Collaboration, and scientific material presented at the pharmaceutical industry. In pace with the extensive assessment of clinical evidence, the TI has also developed effective ways of knowledge translation and dissemination of this evidence to all active players involved in drug therapy: physicians, pharmacists, nurses, and drug policy at the MoH.

The TI is composed of 4 working groups that collaborate to prioritize topics, share in the assessment of evidence and disseminate findings. Activities of all TI working groups support priorities of the provincial Pharmaceutical Care Management Strategy and other health system objectives:

1. **Drug Assessment Working Group (DAWG):** assesses the clinical evidence of effectiveness and safety of new and existing drug therapies in the province and relate that evidence to the care of individual patients. This year the DAWG completed the following therapeutic reviews:
   - Ulipristal for emergency oral contraception
   - Lurasidone therapeutic review for bipolar 1 depression
   - Fremanezumab for migraine prevention

   The DAWG provides problem-based learning opportunities regarding critical appraisal of clinical trials. Medical and pharmacy student trainees have attended the DAWG meetings where they learn to critically appraise systematic reviews and discuss the findings with the rest of the team.

2. **PharmacoEpidemiology Group (PEG):** uses epidemiological methods to analyze linked administrative data to answer population-based questions which have not been adequately addressed in clinical trials. Projects include evaluation of drug policies and educational interventions, monitoring of drug utilization, and analysis of prescription drug safety and effectiveness. The PEG also help design, deliver, and evaluate the Portrait program to improve the quality of prescribing in BC. The Portrait provides primary care prescribers with a concise evidence overview, a comparison of their prescribing to peers or evidence-based targets, and advice about possible improvements to their prescribing. After last year’s debut of Portrait online with a selected group of family physicians, the TI secure web-based platform has been made available to all physicians and nurse practitioners in BC to receive individual prescribing feedback for appropriate drug use.

In 2022, the PEG completed the following pharmacoepidemiological studies:
- Paxlovid effectiveness and safety evaluations
- Predictors of type 2 diabetes over-treatment

The PEG developed and distributed two prescribing portraits to physicians in BC:
- Inhaled corticosteroids (ICS) for chronic obstructive pulmonary disease (COPD)
- Bisphosphonate for osteoporosis

3. **Education Working Group (EWG):** provides health professionals with up-to-date, evidence based, practical information about rational drug therapy. In addition to the Best Evidence and Method Speaker monthly webinars, the EWG launched this year a new **BC Provincial Deprescribing Webinar Series** to create a platform for healthcare providers, patients, caregivers, advocates and policy makers to address undesirable polypharmacy effectively through responsible deprescribing. **CCCChe first case-based webinar with a huge success with 427 attendees from BC, Canada and overseas.** The EWG held 42 educational events attended by over four thousand healthcare professionals, highlights:
- Nurse and Nurse Practitioners of BC - Clinical Corner Presentation Series
- Vancouver Coastal Health - Family Practice Rounds
- BC Divisions of Family Practice (Nanaimo and Kootenay Boundary)
- Island Health Pharmacy Rounds
- Peace Arch Hospital Grand Rounds
-Bringing Best Evidence to Clinicians: Annual Therapeutics Initiative Course

4. **Cochrane Hypertension Group (CHG):** prepares, maintains and promotes systematic reviews of the effects of healthcare interventions for hypertension. The scope of CHG includes randomized controlled trials of interventions evaluating blood pressure and clinical outcomes for the prevention and treatment of essential hypertension. Part of the international Cochrane Collaboration, the CHG published the following Cochrane systematic reviews and protocols in 2022:

The EWG also publishes the Therapeutics Letters that provide brief practical messages on how to deal with problematic therapeutic issues. All issues of the Therapeutics Letter are distributed to physician prescribers across BC and available on the TI website in English and Spanish. The EWG published 6 Therapeutics Letters in 2022:

<table>
<thead>
<tr>
<th>Issue Number / Publication Date</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL 135 / February 2022</td>
<td>Empiric antibiotic therapy for uncomplicated lower urinary tract infections</td>
</tr>
<tr>
<td>TL 136 / March 2022</td>
<td>How do YOU respond to conflicts of interest?</td>
</tr>
<tr>
<td>TL 137 / May 2022</td>
<td>Physical activity is medicine: Prescribe it</td>
</tr>
<tr>
<td>TL 138 / July 2022</td>
<td>Reducing prescribing cascades</td>
</tr>
<tr>
<td>TL 139 / September 2022</td>
<td>How well do you know your dopamine antagonists?</td>
</tr>
<tr>
<td>TL 140 / November 2022</td>
<td>What to do about borderline hyperglycemia?</td>
</tr>
</tbody>
</table>

**Website and Social Media**

In 2022 the TI website received close to one million visits, averaging 70,000 visits per month or a visit every 28 seconds, with over 30 million “impressions” (number of times any page was viewed). The TI maintains Facebook and LinkedIn pages as well as two active Twitter profiles: TI (@DrugEvidence) and Cochrane Hypertension Group (@CochraneHTN) with a combined total of 12,935 followers and over one million Tweet impressions (number of times our tweets were viewed). This year @DrugEvidence has surpassed @RevuePrescrire with the most followers among all members of the international society of drug bulletins (ISDB).

4. **Cochrane Hypertension Group (CHG):** prepares, maintains and promotes systematic reviews of the effects of healthcare interventions for hypertension. The scope of CHG includes randomized controlled trials of interventions evaluating blood pressure and clinical outcomes for the prevention and treatment of essential hypertension. Part of the international Cochrane Collaboration, the CHG published the following Cochrane systematic reviews and protocols in 2022:


Dr. Jean Templeton Hugill Chair in Anesthesia

Dr. Stephan Schwarz
Professor & Dr. Jean Templeton Hugill Chair in Anesthesia

Welcome to the Dr. Jean Templeton Hugill Chair in Anesthesia section of the APT Annual Report! I am delighted to summarize below some of the highlights and activities that took place in 2022 under the aegis of the Chairship.

In 2022, the Chairship supported two graduate students: In the domain of clinical and outcomes research, Jay-cee Farmer (co-supervised by Dr. Alana Flexman and co-supported by the Department of Anesthesia at St. Paul’s Hospital), pursued a project on the important topic of perioperative stroke. In the laboratory domain, Tony Zhou (co-supervised by Dr. Michael Walker) worked on a research project to assess the potential clinical utility and properties of quaternary amines as long-lasting local anesthetics.

Another highlight was the fruitful work of a new interdisciplinary research group created in 2020 and dedicated to the intersection of perioperative medicine with BC’s worsening opioid crisis. Together with faculty colleagues, Drs. Malcolm Maclure, Anton Chau, and Michael Krausz (Addiction Psychiatry) as well as numerous students, we completed two extensive projects to study postoperative opioid prescription patterns and trends in BC, the results of which appeared as two full-length manuscripts in the top-quartile peer-reviewed literature. One of the group’s medical students, Stefanie Polderman, subsequently was accepted in the UBC postgraduate training program in anesthesiology and, as of July 1, 2023, is a first-year anesthesiology resident!

Overall, and despite the challenges imposed by the COVID-19 pandemic, the various research avenues in 2022 again led to numerous presentations at national and international conferences as well as nine full-length manuscripts in leading peer-reviewed journals, listed in the APT Annual Report’s Publications section.

The year 2022 also was marked by being the second year of my tenure as the new Editor-in-Chief the Canadian Journal of Anesthesia/Journal canadien d’anesthésie, a national leadership position which I commenced effective January 1, 2021 and undoubtedly represents the greatest privilege of my career. I feel deeply honoured and humbled to be able to pursue this prestigious portfolio here at UBC as our Department’s Dr. Jean Templeton Hugill Chair in Anesthesia and am immensely grateful to our university department and particularly also my clinical department at St. Paul’s Hospital/Providence Health Care for their invaluable support.

As those who know me are aware, it has been a priority of mine to utilize the Hugill Chair position to continue to build bridges between Anesthesiology and Pharmacology & Therapeutics; as a reflection of this spirit, an important goal was to once again bring in a high-profile speaker for our Department’s annual Hugill Lecture who could help accomplish just that. Supported by the Hugill Endowment and honoring Dr. Hugill’s spirit and intent to celebrate and promote research, we again held the annual Hugill Lecture concomitantly with the Annual APT Research Day as keynote presentation. Accordingly, on May 25, 2022, we hosted the distinguished Canadian pain medicine leader, anesthesiologist, and clinician-scientist, Dr. Hance Clarke from the University of Toronto, who spoke on The Future of Canadian Pain Care: The value of Transitional Pain Services and the evolution medical cannabis.

Some of the other activities as Hugill Chair included service on numerous national committees and as invited presenter, panelist, and/or session chair at various meetings, including the Euroanesthesia 2022: Annual Congress of the European Society of Anaesthesiology and Intensive Care (Milan, Italy; June 4, 2022) and the Canadian Anesthesiologists’ Society 2022 Annual Meeting (Halifax, NS; June 25–26, 2022). I also was invited to serve as a lecturer during BC Centre for Disease Control Research Week (Vancouver, BC; October 11–14, 2022).

Lastly for 2022, I humbly report that was nominated and sponsored by Providence Health Care to enroll in the UBC Sauder School of Business Physician Leadership Program (January–June), which I graduated from in June.

It has been an immense privilege to again serve to honour and spread Dr. Jean Hugill’s spirit and vision in 2022, and I look forward to exciting academic years moving forward!

Respectfully submitted with gratitude,

Stephan Schwarz
Professor & Dr. Jean Templeton Hugill Chair in Anesthesia

Pharmacology

As part of the Department of Anesthesiology, Pharmacology & Therapeutics (APT), we are committed to excellence in Pharmacology and Anesthesiology education and research through creativity and dedication. Our present research strength is in areas of neural, cardiovascular, respiratory, ion channels, and clinical pharmacology as well as drug development. We have strong collaborations within the Department in Anesthesiology, Pharmacology and the Therapeutics Initiative as well as outside of the Department.

In addition to research efforts, we have maintained our excellence in teaching and mentorship at the undergraduate, graduate and postgraduate levels in both pharmacology and therapeutics. The department has been offering degree programs in undergraduate and graduate pharmacology. The PCTH 514 seminar series, led by Drs. Pascal Bernatchez and Issy Laher, and our annual departmental research day continue to provide opportunities for our students to share the progress they made in their research programs and accomplishments with opportunity for faculty and students to be exposed to other related research areas from within and outside the University.
Dr. Malcolm Maclure
BC Academic Chair in Patient Safety

The Chair is held by Professor Malcolm Maclure, ScD, a health services epidemiologist who uses BC’s population healthcare databases to improve prescribing safety and surgical safety.

Dr. Maclure completed two papers on trends in opioid prescribing in BC after cesarean deliveries1 and other abdominal surgeries,2 and submitted a paper demonstrating use of population data for low-cost monitoring of surgery site infections after colorectal surgery.3 He conducted the evaluation of the impacts of opioid prescribing portraits sent to BC family physicians.4 He contributed to a similar evaluation of impacts of portraits on prescribing of antibiotics for urinary tract infections,5 and to portraits aimed at reducing use of inhaled corticosteroids for non-asthma chronic obstructive pulmonary disease.

Collaborations continued with investigators evaluating walk-in clinic use in Ontario6 and comparing opioid agonists buprenorphine-naloxone versus methadone in BC.7 Dr. Maclure also responded to a request for grant proposals from Environment and Climate Change Canada, as the climate crisis is becoming a patient safety issue. Although the proposal was not funded, it led to collaborations on a planetary healthcare issue – the need to reduce respiratory inhalers with propellants that are potent greenhouse gases.

As inventor of the case-crossover study design, Dr. Maclure continued to collaborate on explanations,8 applications9 and methodology developments of that design. He continued as Co-Lead of the Patient Safety and Quality Theme in UBC Medical Undergraduate Program’s curriculum, and contributes as an Ex-Officio Member of the BC Patient Safety and Quality Council.

References