

Nicole R. Coote (nee Pendleton) MD BSP

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EDUCATION

Master of Health Professions Education- College of Education, U of S	2023- Present
Neurosurgical Resident University of Saskatchewan – Saskatoon, SK Post-graduate year 5	2020-Present
University of Saskatchewan College of Medicine Doctor of Medicine	2016-2020
University of Saskatchewan College of Pharmacy Bachelor of Science in Pharmacy with Distinction	2008-2012

Lab courses:

- Laboratory Safety
- Biosafety
- WHMIS 2015
- Safety orientation for employees
- COVID-19 Health and Safety

Animal courses:

- UACC Animal Ethics Course: Lab
- UACC Practical Skills: Rodent Handling
- UACC Practical Skills: Anesthesia
- UACC Practical Skills: Surgical skills

HONORS & AWARDS

Canadian Association for Medical Education Rising Star Award Certificate of Excellence for Graduate students	2024
Award of Excellence in CanMEDS Leader Role	2022-2023
College of Education Graduate Studies bursary	Fall 2023
Resident Research Incentive Award	Oct 2023
Resident Research Incentive Award	July 2023
Resident Research Day – University of Saskatchewan	Nov 2022
Resident Research Award Recipient	Mar 2022

- Resident Research Day – University of Saskatchewan** Dec 2020
- Fall Research Poster Day** 2017
Accolade
- First Place Winner in Pediatric Research
- Vice-Dean Research Letter of Excellence** 2017
Excellence
- Demonstrating a high level of excellence in 2017 Dean's Summer Research Projects
- Choosing Wisely Canada STARS Leadership Summit** 2017
Leader
- Successful applicant for representing the University of Saskatchewan at this student leadership summit and National Choosing Wisely Canada meeting

RESEARCH EXPERIENCE

University of Saskatchewan Saskatoon SK 2022- Present

- *Markers of Oxidation after Intracerebral Hemorrhage in Mouse Model*
 - Surgical methods on animal model
 - Applications for research funding
 - Synchrotron and FTIR imaging on specimens
 - Preparing ethics applications
 - Delivering presentations of research

Advisors: Drs Lissa Peeling, Michael Kelly, Nicole Sylvain, Jake Pushie

University of Saskatchewan Saskatoon SK 2021- 2022

- *Establishing a mouse model of Intracerebral Hemorrhage at the UofS*
 - Surgical methods on animal model
 - Applications for research funding
 - Synchrotron and FTIR imaging on specimens
 - Preparing ethics applications
 - Delivering presentations of research

Advisors: Drs Lissa Peeling, Michael Kelly, Nicole Sylvain, Jake Pushie

Royal University Hospital – Saskatoon SK 2018

- *Prospective Risk Assessment for Children with Type 2 Diabetes in Saskatchewan*
 - Drafting methodology for large inter-professional research project
 - Preparing ethics application
 - Advisors: TJ Bradley, M Nour, R Dyck, M Inman, P Mondal

Royal University Hospital – Saskatoon SK 2017

- *Retrospective review of the early clinical course of childhood-onset type 2 diabetes in Saskatchewan*
 - A review of all children followed by the Saskatoon Diabetes Clinic for DM2 in Saskatchewan
 - Advisors: TJ Bradley, M Nour, R Dyck, M Inman, P Mondal

PRESENTATIONS

Simulation in Neurosurgery <i>A review of the literature</i> <i>Neurosciences Grand Rounds</i>	April 2024
Awake Gasserian Ganglion Stimulator Implantation <i>American Clinical Neurophysiologist Society 2024 Annual Meeting</i> <i>Orlando, Florida</i>	Feb 2024
Resident voice on Competency by Design Panel at ICRE	Oct 2023
Interprofessional Mortality and Morbidity Rounds Presentation <i>Neurosciences Grand Rounds</i>	July 2023
Stereotactic Neurosurgery - Saskatoon, SK <i>Neurosciences Grand Rounds</i>	July 2023
Neurovascular Compression Syndromes - Saskatoon, SK <i>Neurosciences Grand Rounds</i>	April 2023
Department of Surgery Resident Research Day - Saskatoon, SK <i>Research Presentation</i> <ul style="list-style-type: none">Assessing Severity of Intracerebral Hemorrhage in a Mouse Model	April 2023
Subaxial Spine Trauma- Saskatoon, SK <i>Spine Grand Round</i>	March 2023
13th Annual Kumar Day- Regina, SK <ul style="list-style-type: none">Second place presentation winnerOral presentation of researchAssessment of lesion severity in a Mouse Model of Intracerebral Hemorrhage	October 2022
Eyebrow Craniotomy and Anatomy Review- Saskatoon, SK <i>Neurosciences Grand Rounds</i>	April 2022
Spinal Metastasis- Saskatoon, SK <i>Spine Grand Rounds</i>	January 2022
Pituitary Apoplexy- Saskatoon, SK <i>Neurosciences Grand Rounds</i>	June 2021
Dwight Parkinson Research Day - Winnipeg, MB <i>Research Presentation</i> <ul style="list-style-type: none">Dwight Parkinson Research Day.Oral presentation of research	June 2021

- Establishment of a Mouse Model of Intracerebral Hemorrhage

Subaxial Cervical Spine Trauma – Saskatoon, SK

Dec 2020

Multidisciplinary Spine Rounds

- Oral presentation of guidelines and cases

Diabetes Canada Conference- Halifax, NS

2018

Break-out speaker

- National conference
- Oral presentation of research
- Retrospective Review of the Early Clinical Course of Childhood-Onset Type 2 Diabetes in Saskatchewan

Child Health Research Trainee Day – Saskatoon, SK

2018

Break-out speaker

- Oral presentation of research
- Retrospective Review of the Early Clinical Course of Childhood-Onset Type 2 Diabetes in Saskatchewan

Retrospective Review of the Early Clinical Course of Childhood-Onset Type 2 Diabetes in Saskatchewan – Saskatoon, SK

Poster presentation

2017

- Poster presentation at University of Saskatchewan Fall Poster Day
- First Place poster in Pediatric category

PUBLICATIONS

Pushie MJ, Sylvain NJ, Hou H, **Pendleton N**, Wang R, Zimmermann L, Pally M, Cayabyab FS, Peeling L, Kelly ME. X-ray fluorescence mapping of brain tissue reveals the profound extent of trace element dysregulation in stroke pathophysiology. *Metallomics*. 2024 Dec 2;16(12):mfae054. doi: 10.1093/mtomcs/mfae054. PMID: 39547935; PMCID: PMC11631071.

MacLean MA, Persad AR, **Coote NR**, Srikanthan D, Rizzuto MA, Chainey J, Duda T, Eagles ME, Hart S, Jung J, Kameda-Smith MM, Lannon M, Toyota E, Sader N, Christie S; Canadian Neurosurgery Research Collaborative (CNRC). Neurosurgical Operative Cancellations in Canada: A Multicentre Retrospective Cohort Study. *Can J Neurol Sci*. 2024 May 17:1-7. doi: 10.1017/cjn.2024.265. Epub ahead of print. PMID: 38757169.

Liu, E., Su, H. M., Toyota, P., Newton, B. D., **Coote, N.**, Marciniuk, K., Ahmed, S. U., Kelly, M. E., & Peeling, L. (2024). Penetrating intracranial injury from a pencil in a pediatric patient: illustrative case. *Journal of neurosurgery. Case lessons*, 8(22), CASE24494. <https://doi.org/10.3171/CASE24494>

Coote, N. R., Norton, J. A. (2023) Introduction to Deep Brain Stimulation. (Textbook chapter). Deep Brain Stimulation for Neurophysiologists. Springer. *In Press*.

Persad, A. R., **Coote, N. R.**, Waterhouse, K., McLeod, S., Norton, J. A., Gould, L., & Vitali, A. M. (2023). Medial forebrain bundle stimulation after failed subcallosal cingulate deep brain stimulation for treatment-resistant depression: Efficacy of a dual deep brain stimulation system for depression. *Brain stimulation*, 17(1), 68–70. Advance online publication. <https://doi-org.cyber.usask.ca/10.1016/j.brs.2023.12.014>

Ospel, J. M., Kashani, N., Singh, N., Zhou, A., Cimflova, P., Kappelhof, M., Liu, E., **Pendleton, N.**, Marciniuk, K., Toyota, P., Newton, B., Persad, A., Holodinsky, J., Yang, L., Perlau, M., Abdalrahman, S., Gardner, A., Cooley, R., Wasyliv, S., Graham, B. R., ... Peeling, L. (2023). No Sex Differences in Mechanical Thrombectomy Time Metrics & Outcomes in Saskatchewan. *The Canadian journal of neurological sciences. Le journal canadien des sciences neurologiques*, 1–15. Advance online publication. <https://doi.org/10.1017/cjn.2023.286>

Liu, E., Kakodkar, P., Toyota, P., **Pendleton, N.**, Persad, A., Zhrebetskiy, V., ... & Radic, J. (2023). P. 139 Cerebral toxoplasmosis in an HIV-negative patient. *Canadian Journal of Neurological Sciences*, 50(s2), S94-S94.

Liu, E., Toyota, P., Newton, B., **Pendleton, N.**, Marciniuk, K., Persad, A., ... & Kelly, M. (2023). P. 129 Endovascular coiling of ruptured basilar fenestration aneurysm: case report and review of literature. *Canadian Journal of Neurological Sciences*, 50(s2), S91-S91.

Pendleton, N., N. Sylvian, H. Hou, J. Pushie, M. Kelly, and L. Peeling. "P. 177 Assessing lesion severity in a mouse model of intracerebral hemorrhage." *Canadian Journal of Neurological Sciences* 49, no. s1 (2022): S54-S54.

Pendleton, N., Persad, A., & Meguro, K. (2020). A Case of Tension Pneumoventricle following Transsphenoidal Surgery. *Canadian Journal of Neurological Sciences* 1-6. doi:10.1017/cjn.2020.172

CLINICAL EXPERIENCE

Neurosurgery

Royal University Hospital Saskatoon, SK
Supervisor: Dr. L. Peeling

July 1 2020- Present

Neurosurgery

QEII: Halifax Infirmary & Izaak Walton Killam Health Centre Halifax, NS

Aug 12- Aug 23, 2019

Supervisors: Dr. G Pickett, Dr. L. Weise, Dr. D McNeely

Neurosurgery

Royal University Hospital Saskatoon, SK

Supervisor: Dr. L. Peeling

Aug 26- Sept 7, 2019

Emergency Medicine

Royal University Hospital Saskatoon, SK

Supervisor: Various

Sept 9- Sept 21, 2019

Neurosurgery

The Health Sciences Centre, Winnipeg, MB

Supervisor: Dr. P. Dhaliwal and various others

Sept 23- Oct 5, 2019

Neurosurgery

Foothills Medical Centre Calgary, AB

Supervisor: Various

Oct 7 – Oct 19, 2019

Rural Family Medicine

Prince Albert, SK

Supervisor: Dr. Parekh

Oct 21- Nov 2, 2019

General Surgery

Regina General Hospital; Regina, SK

Supervisor: Dr. S. Meiers, Dr. Pooler

Nov 4- Nov 16, 2019

Urban Family Medicine

City Centre Family Physicians Saskatoon, SK

Supervisor: TBD

Nov 18- Nov 30, 2019

Neurosurgery

Royal University Hospital Saskatoon, SK

Supervisor: TBD

Dec 2- Dec 15, 2019

Intensive Care Unit

Royal University Hospital Saskatoon, SK

Supervisor: TBD

Aug 26- Sept 7, 2019

SERVICE & LEADERSHIP

AFMC Indigenous Health Committee

- Board of Directors

2024-Present

Royal College Assessment Committee

2024-Present

Canadian Medical Education Journal

2024-Present

<ul style="list-style-type: none"> • Peer reviewer 	
CaMSIGN Longitudinal Mentorship program	2024-Present
<ul style="list-style-type: none"> • Mentor medical students interested in pursuing neurosurgery as a career. 	
Resident Doctors of Canada- Board of Directors	2023-Present
<ul style="list-style-type: none"> • Advocate for resident doctors on a national level 	
Accreditation and Program Enhancement Committee	2023-Present
<ul style="list-style-type: none"> • Advisory committee for accreditation preparation 	
General Surgery Wellness Retreat Presenter and Collaborator	2023
Medical Student Teacher- Wet lab brain dissection	2023
Resident Doctors of Saskatchewan- Past- President	2023-2024
<ul style="list-style-type: none"> • Collaborate with many organizations such as COM and PGME • Accreditation planning for November 2023 	
Resident Doctors of Saskatchewan-President	2022-2023
<ul style="list-style-type: none"> • Led the resident union for the province of Saskatchewan • Led monthly board meetings • Collaborate with many organizations such as COM and PGME • Accreditation planning for November 2023 • Advocate for the resident cohort 	
Dean of Medicine Search Team Committee	2023-2024
Brad Ardell Award Selection Committee	2023
Canadian Neurosurgery Resident Collaborative -Webmaster	2022-Present
<ul style="list-style-type: none"> • Collaborate with neurosurgery residents Canada-wide on research projects and initiatives 	
Resident Bootcamp Orientation Presentation	2022
Neurosciences Society Information Panel presenter	2022
Surgical Foundations Resident Physician Committee	2021-2022
<ul style="list-style-type: none"> • Year two representative • Attend meetings • Elicit resident feedback of the residency program • Present it to the committee • Advocate for the resident cohort 	
Medical Student Teacher- Wet lab brain dissection	2021 & 2022

- Neurosurgical Resident Wellness Committee Founder and Co-chair** 2020- Present
- Quarterly meetings and planning
 - Event planning and coordinating
 - Move-It march Fitness Challenge, Summer Resident Bootcamp series, Resident Retreat 2021
- Neurosurgery medical student teaching rounds- Cervical Spine Injury** 2020-2021
- Resident Doctors of Saskatchewan Neurosurgical Representative** 2020- 2021
- Attend monthly meetings
 - Liaise information for RDOS to neurosurgical residents
 - Represent neurosurgical residents interests at the union Board of Director level
 - Advocate for neurosurgical resident body
- Health Link 2019 Physician's Panel- Saskatoon, SK** 2019
- Mentor
- Invited to participate on a physician's panel for over 150 grade 10 and 11 students interested in healthcare as a career
 - Spoke on the medical student's perspective of why I chose medicine, our role in health care and other aspects of the field
 - Answered thoughtful follow-up questions put forth by the students
- Lakeridge Community Association Executive – Saskatoon, SK** 2018-2021
- Community Leader
- Youth Programs Coordinator
 - Plan, organize, recruit and facilitate sports program for youth in the Lakeridge community (est. population 4,000)
 - Plan community wide events
- Global Health Conference 2018- Planning committee** 2018
- Organizer
- Speaker coordinator
 - Attended meetings of the executive committee
 - Contacted and recruited keynote speakers
 - Contacted and organized breakout speakers and panel participants
- Choosing Wisely and STARS Student 2018 Selection Committee** 2018
- Ambassador
- Selecting STARS students from applicants that wish to represent the University of Saskatchewan in the Student Leadership Summit and National meeting in 2018
- Student Ambassador Class of 2020- Saskatoon SK** 2017-2018
- Leader
- Greet and orientate class lecturers

- Get recording release forms signed
- Answer questions the lecturer may have about site

Choosing Wisely USask

2017-2018

Founder and Co-president

- Interdisciplinary student group that brings awareness to resource stewardship among health sciences students
- Arranged 3 interprofessional student events that had various topics involving Choosing Wisely and resource stewardship

PEERSiM Mentoring Program – Class of 2021 student

2017-2018

Mentoring

- Upper year student mentoring a first year student

Synergy Mentoring Program- PGY3 General Surgery Resident

2017-Present

Mentee

- Mentorship initially facilitated by the Office of Career Advising and Mentorship
- Monthly meeting and contact with mentor

Global Health Conference 2017– Planning committee

2017

Organizer

- Attended meetings of the executive committee
- Recruited breakout speakers for the conference
- Contracted and organized breakout speakers
- Organized academic poster exposition

Early Surgical Learning Experience

2017

Learner

- Week long immersive surgical experience
- Skill building sessions
- Personal mentoring and surgical shadowing

University of Saskatchewan Accreditation

2017

Leader

- Responsible to tour accreditors through the College of Medicine
- Met with accreditors after the tour for a question period on the College of Medicine.

Lakeridge Soccer Association

2017

Coach

- Soccer coach- Age 3 and 4 weekly soccer practice and mini-games
- Baseball coach- Age 4 to 7, weekly practice and games.

Big Brothers Big Sisters of Saskatoon

2008-2012

Mentor

- Volunteered as a Big Sister to a Little in Saskatoon
- Met weekly for activities and visiting.

PROFESSIONAL SOCIETIES

Canadian Neurological Sciences Federation	2020- Present
Neurocritical Care Society	2021-2023
Canadian Medical Association	2016-Present
Saskatchewan Medical Association	2016-Present
Canadian Society of Physician Leaders	2018- Present
Canadian Pharmacists Association	2008-2016
Alberta College of Pharmacists	2012-2016

WORK EXPERIENCE

Walmart Pharmacy – Cold Lake, AB	
Pharmacy Manager	2014-2016
<ul style="list-style-type: none">○ Managed team of pharmacists, pharmacy assistants, and retail staff○ Responsible for interviewing and hiring new associates.○ Managed the scheduling and daily running of the pharmacy○ Drafted monthly reports and financials	
Walmart Pharmacy – Cold Lake, AB	
Staff Pharmacist	2012-2014
<ul style="list-style-type: none">○ Additional authorization to administer drugs by injection○ Additional QUIT Smoking Cessation program certification	

PERSONAL INTERESTS

- Playing hockey- I played competitive hockey until my second year of university and won two provincial championships.
- Coaching sports- I have coached youth hockey, baseball and soccer
- Fishing- Free time at the lake is enjoyed fishing from my kayak
- Reading- Jodi Picoult is among my favourite authors