**Mary Jansen Dunbar, MD MSc MSc FRCPC**

Pediatric Neurologist, Alberta Children’s Hospital

Assistant Professor of Pediatrics, University of Calgary

|  |
| --- |
| EDUCATION |
| **Clinical Electrophysiology fellowship*** University of Calgary, Alberta Children’s Hospital
 | 2021 |
| **RCPSC Clinician Investigator Program** * University of British Columbia
 | 2017-2021 |
| **Clinical fellowship - Pediatric stroke and Neurocritical Care** * University of Calgary, Alberta Children’s Hospital
 | 2017-2021 |
| **Master of Science (Clinical Epidemiology)*** University of Calgary, Community Health Sciences
* Supervisors: Dr. Michael Hill, Dr. Adam Kirton
 | 2017-2021 |
| **Chief Resident*** Pediatric Neurology, BC Children’s Hospital
 | 2015-2017 |
| **Pediatric Neurology Residency*** University of British Columbia, Faculty of Medicine, Vancouver, BC
 | 2017 |
| **Doctor of Medicine*** University of Calgary, Faculty of Medicine, Calgary, Alberta
 | 2012 |
| **Master of Science (Neuroscience)*** University of Calgary, Department of Neuroscience
* Supervisor: Dr. Patrick Whelan, Hotchkiss Brain Institute
 | 2009 |
| **Bachelor of Science (Physiology)** * McGill University, Montreal, Quebec
 | 2007 |

|  |
| --- |
| LEAVE |
| Maternity Leave | June 2018-June 2019 |
| Maternity Leave | June 2020-June 2021 |

|  |
| --- |
| MOST SIGNIFICANT CONTRIBUTIONS |

**Principle Investigator, VIP-LP Trial**: As principle investigator for the Video Initiative in Pediatric Lumbar Puncture (VIP-LP) trial (clinicaltrials.gov ID NCT03677219), I designed and conducted a randomized controlled trial investigating the utility of an educational video to improve the consent processes for lumbar punctures in the pediatric population (Dunbar et al, ***Pediatric Neurology***, 2019).

**Inventor, CSF Neurotransmitter Collection Device**: I designed and produced a device for standardized collection of CSF for neurotransmitter measurement which I patented (**Patent number 2,883,794**). The use of this device is now standard of care when collecting CSF for neurotransmitters in British Columbia. Our implementation initiative demonstrated significantly improved standardization and reduced errors in collection procedure, and earned a research award at the British Columbia Quality Improvement Forum in 2014.

**Childhood stroke research**: I conducted the first population-based epidemiologic evaluation of the incidence of stroke in pediatric patients with bacterial meningitis (Dunbar et al, ***Pediatric Neurology*** 2018). I also performed the first comprehensive analysis of antenatally diagnosed intraventricular hemorrhage, an underrecognized cause of pediatric stroke (Dunbar et al, ***Developmental Medicine and Child Neurology*** 2020). Then, using the Canadian Cerebral Palsy Registry I designed the statistical approach to conduct the first case-control study of risk factors for stroke caused by antenatal intraventricular hemorrhage (Vitagliano, Dunbar et al, ***Developmental Medicine and Child Neurology***, 2021). Using the Alberta Perinatal Stroke Program registry I determined for the first time a population based estimate of the birth-prevalence of the six subtypes of perinatal stroke (Dunbar et al, ***Pediatrics*** 2020), which was recognized as the top Canadian abstract at the International Stroke Conference. I have also contributed seminal reviews in the field of perinatal stroke, including the first classification system defining the 6 sub-types of perinatal stroke (Dunbar & Kirton, ***The Lancet Child & Adolescent Health***, 2018; Dunbar and Kirton, ***Seminars in Pediatric Neurology***, 2019). Supported by a *CIHR Canada Graduate Scholarship* for this work.

**Childhood intellectual disabilities research**: As part of the Treatable Intellectual Disability Endeavor (TIDE), I defined a new treatable cause of intellectual disability in children (X-linked cerebral creatine transporter deficiency) (Dunbar et al, ***Molecular Genetics & Metabolism***, 2014). As a result, this disorder is now routinely screened for in children with intellectual disability. For this work I received the *Outstanding Achievement by a Resident Award* from the UBC Child and Family Research Institute.

**CSF neurotransmitters in pediatric neurologic disease:** I performed the largest and most comprehensive study to date of cerebral neurotransmitter abnormalities in pediatric neurologic diseases (Van Karnebeek & Dunbar et al, ***Canadian Journal of Neurological Sciences*,** 2018).

|  |
| --- |
| RESEARCH EXPERIENCE |
| **Principle Investigator:**1. Fetal stroke: a systematic review
2. Retrospective case-control study: “A Tool to Predict the Development of Cerebral Palsy in Term-Born Neonates”
3. Randomized control trial: “Randomized control trial of educational video during consent for lumbar puncture in children”
4. Quality Improvement: “Improving the collection of cerebrospinal fluid neurotransmitters”
 | 202220222015-20192013-2017 |
| **Post graduate research:** |  |
| 1. Prospective Cohort: “Birth Trauma and perinatal brain injury”

Supervisor: Dr. Adam Kirton, University of Calgary | 2020-2021 |
| 1. Prospective Cohort: “Perinatal stroke: defining disease specific incidence”

Supervisors: Dr. Michael Hill and Dr. Adam Kirton, University of Calgary | 2017-2020 |
| 1. Systematic Review and Meta-analysis: “Risk Factors and Outcomes in Antenatally Diagnosed Fetal Intraventricular Hemorrhage: A Systematic Review and Meta-Analysis

Supervisors: Dr. Adam Kirton and Dr. Lara Leijser, University of Calgary | 2020 |
| 1. Retrospective cohort: “Stroke in Pediatric Bacterial Meningitis”

Supervisor: Dr. Adam Kirton, University of Calgary | 2016-2017 |
| 1. Systematic review: “Treatment of X-linked Creatine Transporter (*SLC6A8*) Deficiency: Systematic review of the literature and three new cases”.

Supervisor: Dr. Clara Van Karnebeek, UBC | 2013-2014 |
| 1. Multiple case reports
 | 2012-2018 |
| **Graduate student:**  |  |
| 1. “Perinatal ischemic stroke: defining disease specific incidence and risk factors”

Supervisors: Dr. Michael Hill and Dr. Adam Kirton, University of Calgary | 2017-2021 |
| 1. “Serotonergic Modulation of Locomotor Networks”

Supervisor: Dr. Patrick Whelan, Hotchkiss Brain Institute, University of Calgary | 2008-2009 |
| **Undergraduate Research Assistant:** 1. “Non-commutativity of eye rotations and Listing's Law”

Supervisor: Dr. Julio Martinez-Trujillo, McGill Aerospace Medical Research Unit | 2006 |

|  |
| --- |
| PATENT |

**Dunbar, Mary.** 2016. CEREBROSPINAL FLUID NEUROTRANSMITTER TUBE HOLDER. Canadian Application number: 2,883,794 .

|  |
| --- |
| FUNDING |

1. CIHR Canada Graduate Scholarship 2018-2020. Total funding $17,500/year x 2 years
2. Rare Disease foundation and BC Children’s Hospital foundation microgrant for “Improving the collection of CSF neurotransmitters” 2016-2017. Total funding $350.00
3. Rare Disease foundation and BC Children’s Hospital foundation microgrant for “Acute atypical psychosis protocol” 2016-2017. Total funding $3000.00

|  |
| --- |
| PUBLICATIONS in progress  |

1. **Dunbar, M.J.,** Norris, A., Craig B.T., Mohamed, K., Esser, E., Caughey, A., Carlson H.L., Kirton, A. (submitted) Scalps swelling as a biomarker of birth trauma in newborns with and without brain injury
2. Rouabhi, A., Husein, N., Dewey, D., Letourneau, N., Daboval, T., Oskoui, M., Kirton, A., Shevell, M., **Dunbar, M** and members of the Canadian Cerebral Palsy Registry. (Submitted) A Tool to Predict the Development of Cerebral Palsy in Term-Born Neonates
3. Marefi, A., MD1, Husein, N., **Dunbar, M.**, Dewey, D.,Letourneau, N., Oskoui, M., Kirton, A., Shevell, M., and members of Canadian Cerebral Palsy Registry. (revisions) Risk Factors for Term Born Periventricular White Matter Injury in Children with Cerebral Palsy: A Case Control Study
4. Srivastava, R, Maillo, J, **Dunbar, M**. (revisions) Perinatal Stroke in Fetuses, Preterm and Term Infants. Invited review, Seminars in Pediatric Neurology

|  |
| --- |
| PUBLICATIONS in print |

1. Srivastava, R., **Dunbar, M.,** Shevell, M., Oskoui, M., Basu, A., Rivkin, M., Shany, E., de Vries, L., Dewey, D., Letourneau, N., Hill, M., Kirton, A. Perinatal Arterial Ischemic Stroke (PAIS) in term neonates: A diagnostic clinical prediction modelling study. JAMA Network Open (in press)
2. Metzler, M. O’Grady, K. Fay, L. Herrero, M. **Dunbar, M**. et al Feasibility of High Repetition Upper Extremity Rehabilitation for Children with Unilateral Cerebral Palsy. *Phys Occup Ther Pedi* 1–17 (2021) doi:10.1080/01942638.2021.2010857.
3. Kirton, A. Metzler, M., Craig, B., Hilderley, A., **Dunbar, M**. et al. (2021)*.* Perinatal stroke: mapping and modulating developmental plasticity. *Nat Rev Neurol* **17**, 415–432.
4. Vitagliano, M. **Dunbar, M**. *et al.* (2021) Perinatal arterial ischemic stroke and periventricular venous infarction in infants with unilateral cerebral palsy. *Dev Medicine Child Neurology* doi:10.1111/dmcn.15000.
5. **Dunbar, M. J.,** Mineyko, A., Hill, M., Hodge, J., Floer, A., & Kirton, A. (2020). Population Based Birth Prevalence of Disease-Specific Perinatal Stroke. *Pediatrics*, *146*(5),
6. **Dunbar, M. J**., Woodward, K., Leijser, L. M., & Kirton, A. (2020). Antenatal diagnosis of fetal intraventricular hemorrhage: systematic review and meta‐analysis. *Developmental Medicine and Child Neurology*, *162*(3), 173–12.
7. Benham, J. L., Booth, J. E., **Dunbar, M. J**., Doucette, S., Boulé, N. G., Kenny, G. P., et al. (2020). Significant Dose-Response between Exercise Adherence and Hemoglobin A1c Change. *Medicine and Science in Sports and Exercise*, 1.
8. Egri, C., **Dunbar, M. J**., & Horvath, G. A. (2019). Correlation between Salivary, Platelet and Central Serotonin Levels in Children. *The Canadian Journal of Neurological Sciences. Le Journal Canadien Des Sciences Neurologiques*, 1–15.http://doi.org/10.1017/cjn.2019.334
9. McDonald, B., & **Dunbar, M. J.** (2019). Platelets and Intravascular Immunity: Guardians of the Vascular Space During Bloodstream Infections and Sepsis. *Frontiers in Immunology*, *10*, 264–13. http://doi.org/10.3389/fimmu.2019.02400
10. **Dunbar, M. J.,** Paton, G., & Singhal, A. (2019). An Educational Video Improves Consent in Pediatric Lumbar Puncture: A Randomized Control Trial. *Pediatric Neurology*, *100*, 74–79.
11. **Dunbar, M.,** & Kirton, A. (2019). Perinatal stroke. *Seminars in Pediatric Neurology*, 1–29.
12. **Dunbar, M. J.,** Lu, S., Chin, B., Huh, L., Dobson, S., Rawahi, Al, G. N., et al. (2018). Baylisascariasis: A young boy with neural larva migrans due to the emerging raccoon round worm. *Annals of Clinical and Translational Neurology*, *21*, 415–4.
13. **Dunbar, M. J.,** Shah, H., Shinde, S., Vayalumkal, J., Vanderkooi, O. G., Wei, X.-C., & Kirton, A. (2018). Stroke in Pediatric Bacterial Meningitis: Population-Based Epidemiology. *Pediatric Neurology*, *89*, 11–18.
14. **Dunbar, M. J.,** & Kirton, A. (2018). Perinatal stroke: mechanisms, management, and outcomes of early cerebrovascular brain injury. *The Lancet Child & Adolescent Health*, *2*(9), 666–676.
15. van Karnebeek, C. D. M.\*, **Dunbar, M. J**.\*, Egri, C., Sayson, B., Milea, J., Stockler-Ipsiroglu, S., et al. (2018). Secondary Abnormal CSF Neurotransmitter Metabolite Profiles in a Pediatric Tertiary Care Centre. *The Canadian Journal of Neurological Sciences. Le Journal Canadien Des Sciences Neurologiques*, *45*(2), 206–213.
16. **Dunbar, M. J.,** & Mineyko, A. (2016). Biomarkers of Inflammation in Pediatric Arterial Ischemic Stroke. *Pediatric Neurology Briefs*, *30*(11), 41–1.
17. **Dunbar, M.,** Dilli, E., Slack, G., & Villa, D. (2016). Chronic Lymphocytic Leukemia Presenting with Concurrent Isolated CNS Parenchymal and Leptomeningeal Large B-Cell Lymphoma. *Annals of Hematology Oncology*, *3*(6), 1–5.
18. **Dunbar, M. J.,** Singhal, A., Rassekh, S. R., & Dunham, C. (2015). Evolution of a Pediatric Primary Cerebral ALK-1-Positive Anaplastic Large Cell Lymphoma on Serial MRI. *Pediatric Neurosurgery*, *50*(3), 145–151.
19. Jaggumantri, S., **Dunbar, M. J.**, Edgar, V., Mignone, C., Newlove, T., Elango, R., et al. (2015). Treatment of Creatine Transporter (SLC6A8) Deficiency With Oral S-Adenosyl Methionine as Adjunct to L-arginine, Glycine, and Creatine Supplements. *Pediatric Neurology*, *53*(4), 360–363.e2. http://doi.org/10.1016/j.pediatrneurol.2015.05.006
20. Janer, A., van Karnebeek, C. D., Sasarman, F., Antonicka, H., Ghamdi, Al, M., Shyr, C., **Dunbar, M** et al. (2015). RMND1 deficiency associated with neonatal lactic acidosis, infantile onset renal failure, deafness, and multiorgan involvement. *European Journal of Human Genetics : EJHG*, *23*(10), 1301–1307.
21. **Dunbar, M. J.,** Jaggumantri, S., Sargent, M., Stockler-Ipsiroglu, S., & van Karnebeek, C. D. M. (2014). Treatment of X-linked creatine transporter (SLC6A8) deficiency: systematic review of the literature and three new cases. *Molecular Genetics and Metabolism*, *112*(4), 259–274. http://doi.org/10.1016/j.ymgme.2014.05.011
22. **Dunbar, M**., Davis, J., Bowden, K., Chaplin, K., Chaplin, R., Moxham, P., et al. (2014). Bone marrow transplant for a boy with alpha-mannosidosis illustrates a family's decision-making in rare diseases. *Rare Diseases and Orphan Drugs*, *1*(1), 43–49.
23. Mercimek-Mahmutoglu, S., **Dunbar, M. J**., Friesen, A., Garret, S., Hartnett, C., Huh, L., et al. (2012). Evaluation of two year treatment outcome and limited impact of arginine restriction in a patient with GAMT deficiency. *Molecular Genetics and Metabolism*, *105*(1), 155–158.
24. **Dunbar, M. J.,** Tran, M. A., & Whelan, P. J. (2010). Endogenous extracellular serotonin modulates the spinal locomotor network of the neonatal mouse. *The Journal of Physiology*, *588*(Pt 1), 139–156. http://doi.org/10.1113/jphysiol.2009.177378
25. Gordon, I. T., **Dunbar, M. J**., Vanneste, K. J., & Whelan, P. J. (2008). Interaction between developing spinal locomotor networks in the neonatal mouse. *Journal of Neurophysiology*, *100*(1), 117–128. http://doi.org/10.1152/jn.00829.2007

INVITED SPEAKER

1. Dunbar, M. (2022) Fetal Stroke. *30th Annual Symposium New Developments in Prenatal Diagnosis and Medical Genetics.* (Virtual) Toronto, Canada

|  |
| --- |
| PRESENTATIONS - PLATFORM |

1. **Dunbar M**, Kirton A (2020). The incidence of perinatal stroke is 1:1200 live births: A population-based study in Alberta Canada. *International Stroke Conference*. Selected Platform presentation, Los Angeles (February 2020)
2. **Dunbar M**, Kirton A (2020). The incidence of perinatal stroke is 1:1200 live births: A population-based study in Alberta Canada. *Canadian National Perinatal Research Meeting*. Selected Platform presentation, Banff (February 2020)
3. **Dunbar M**, Paton, G, Singhal, A (2019). An Educational Video Improves Consent in Pediatric Lumbar Puncture: A Randomized Control Trial. *Canadian Neurological Sciences Federation, 54th Annual Congress*. Selected Platform presentation, Montreal Quebec (June 2019)
4. **Dunbar M**, Horvath G (2017). Improving the collection of cerebrospinal fluid neurotransmitters: A resident initiative. *University of British Columbia Neurology Research Day.* Platform presentation, Vancouver, British Columbia (May 2017)
5. **Dunbar M**, Shah, Hely, Shinde, Siddharth, Kirton, Adam (2017). Stroke in Pediatric Bacterial Meningitis. *University of British Columbia Neurology Research Day.* Platform presentation, Vancouver, British Columbia (May 2017)
6. **Dunbar M**, Shah, Hely, Shinde, Siddharth, Kirton, Adam (2017). Stroke in Pediatric Bacterial Meningitis. *University of British Columbia Pediatric Research Day.* Platform presentation, Vancouver, British Columbia (March 2017)
7. **Dunbar M**, Horvath G (2015). Improving the collection of cerebrospinal fluid neurotransmitters: A resident initiative. *University of British Columbia Pediatric Research Day.* Platform presentation, Vancouver, British Columbia (March 2015)
8. **Dunbar M**, van Karnebeek C, Egri C, Sayson B, Milea J, Stockler-Ipsiroglu S, Connolly M, Horvath G (2015). Abnormal neurotransmitter metabolite profiles in pediatric epilepsy: single academic institution experience and review of the literature. *Garrod Symposium*. Platform presentation, Vancouver, British Columbia (May 2015)
9. **Dunbar M**, van Karnebeek C, Egri C, Sayson B, Milea J, Stockler-Ipsiroglu S, Connolly M, Horvath G (2015). Abnormal neurotransmitter metabolite profiles in pediatric epilepsy: single academic institution experience and review of the literature. *University of British Columbia Neuroscience Research Day.* Platform presentation, Vancouver, British Columbia (June 2015)
10. **Dunbar M**, Jaggumantri S, Sargent M, Stockler-Ipsiroglu S, Van Karnebeek C DM (2014). X-linked Creatine Deficiency Treatment: a systematic review. *Pacific North West Pediatric Neurology Colloquium.* Platform presentation, Vancouver British Columbia (September 2014)
11. **Dunbar M**, Jaggumantri S, Sargent M, Stockler-Ipsiroglu S, Van Karnebeek C DM (2014). X-linked Creatine Transporter Deficiency is Treatable: a systematic review. *University of British Columbia Neuroscience Research Day.* Platform presentation, Vancouver, British Columbia (June 2014)
12. **Dunbar M**, Jaggumantri S, Sargent M, Stockler-Ipsiroglu S, Van Karnebeek C DM (2014). X-linked Creatine Transporter Deficiency is Amenable to Treatment: a systematic review. I*n Child and Family Research Institute TGIF weekly seminar* *.* Platform presentation, Vancouver, British Columbia (May 2014)
13. **Dunbar M**, Jaggumantri S, Sargent M, Stockler-Ipsiroglu S, Van Karnebeek C DM (2014). Can X-linked Creatine Deficiency be treated? *University of British Columbia Pediatric Research Day.* Platform presentation, Vancouver, British Columbia (March 2014)
14. **Dunbar MJ** & Whelan PJ. (2009). Spinal locomotor network modulation by endogenous serotonin in the isolated neonatal mouse spinal cord. In *Leaders in Medicine Research Symposium*. Platform presentation, Calgary, Alberta.
15. **Dunbar MJ** & Whelan PJ. (2008). Descending control of locomotion. In *Spinal Cord and Nerve Regeneration annual research day*. Platform presentation, Kananaskis, Alberta.

|  |
| --- |
| PRESENTATIONS – POSTER AND ACCEPTED ABSTRACT |

1. **Dunbar, M.J.,** Norris, A., Craig B.T., Mohamed, K., Esser, E., Caughey, A., Carlson H.L., Kirton, A. Birth Trauma is not Associated with Common Forms of Neonatal Brain Injury. In *Newborn Brain Society Conference.*  Post, Virtual (Feb 2022)
2. **Dunbar, M.J.,** Norris, A., Craig B.T., Mohamed, K., Esser, E., Caughey, A., Carlson H.L., Kirton, A. Birth Trauma is not Associated with Common Forms of Neonatal Brain Injury In *International Stroke Conference*. Poster, Virtual (Feb 2021)
3. **Dunbar M,** Shah H, Shinde S, Vayalmukal J, Van Der Koi O, Kirton A. Stroke in Pediatric Bacterial Meningitis. In *International Stroke Conference*. Poster, Los Angeles (Jan 2018)
4. **Dunbar M**. Improving the collection of cerebrospinal fluid neurotransmitters: A resident initiative. In *Garrod Symposium*. Poster, Vancouver (May 2015)
5. **Dunbar M**. Improving the collection of cerebrospinal fluid neurotransmitters: A resident initiative. In *Quality Improvement Forum*. Poster, Vancouver (February 2015)
6. **Dunbar M**, Jaggumantri S, Sargent M, Stockler-Ipsiroglu S, Van Karnebeek C DM (2014). X-linked Creatine Transporter Deficiency is Amenable to Treatment: a systematic review. In *Child and Family Research Institute Trainee Forum.* Poster, Vancouver, British Columbia (June 2014)
7. **Dunbar M**, Friesen A & Mercimek-Mahmutoglu S. (2011). Improvement of Autism in a Patient with GAMT Deficiency and Autism: a Case Report. In *Leaders in Medicine Research Symposium*. Poster, Calgary, Alberta.
8. **Dunbar MJ** & Whelan PJ. (2009). Spinal locomotor network modulation by endogenous serotonin in the isolated neonatal mouse spinal cord. In *Canadian Society for Clinical Investigation*. Poster, Ottawa, Ontario.
9. **Dunbar MJ** & Whelan PJ. (2009). Spinal locomotor network modulation by endogenous serotonin in the isolated neonatal mouse spinal cord. In *Canadian Association for Neuroscience*. Poster, Vancouver, BC.
10. **Dunbar MJ** & Whelan PJ. (2008). Descending Control of Locomotion. In *Society for Neuroscience: Neuroscience 2008*. Poster, Washington, DC.
11. **Dunbar MJ**, Niebergall R & Martinez-Trujillo J. (2006). Non-commutativity of eye rotations and Listing's Law: is it neural or mechanical? Poster. In *Undergraduate research day, McGill University*. Poster, Montreal, Quebec

|  |
| --- |
| TEACHING |
| 1. Instructor – Nurse Education teaching, Topic: Seizures
2. Instructor – Nurse Education teaching, Topic: Seizures
3. Small group preceptor – Cumming School of Medicine
4. Instructor – Cumming School of Medicine Pediatrics half day teaching, Topic: Increased ICP
5. Instructor – Cumming School of Medicine Pediatrics half day teaching, Topic: Neurocutaneous syndromes
6. Instructor – Cumming School of Medicine Pediatrics half day teaching, Topic: Congenital malformations of the brain and skull
7. Instructor – Cumming School of Medicine Pediatrics half day teaching, Topic: Dizziness, vertigo, nystagmus
8. Small group preceptor – Cumming School of Medicine
9. Invited lecturer – Excellence in Pediatric Innovative Care (EPIC) Provincial Conference, Topic: Pediatric Stroke
 | 202220212021202020202020202020192018 |
| 1. Lecturer – Alberta Children’s Hospital Nurses Education Day Unit 3, Topic: Pediatric Stroke
 | 2017 |
| 1. Instructor – UBC Pediatrics Research program half day teaching, Topic: Presenting at Ease
 | 2016-17 |
| 1. Instructor - UBC Pediatrics residency program half day teaching, Topic: Seizures
 | 2016 |
| 1. Instructor - UBC Pediatric Emergency Medicine program half day teaching, Topic: Stroke mimics.
 | 2016 |
| 1. Instructor – UBC Neonatology residency program half day teaching, Topic: Hypoxic-ischemic encephalopathy.
 | 2016 |
| 1. Lecturer and Small Group Instructor - Vancouver International Summer Program in Medicine, Topic: Neurology history and Examination Lecture
 | 2015-16 |
| 1. Exam preceptor - Neuromotor exam station, Sunny Hill Medical Student education day
 | 2014 |
| 1. Volunteer instructor - Let’s Talk Science - laboratory leader for high school students in Calgary
 | 2008-09 |
| 1. Undergraduate Teaching Assistant for Professor Erik Cook, Physiology 209 Mammalian Physiology McGill University
 | 2006 |
| TEACHING FEEDBACK (select examples)*University of Calgary Pediatric Resident half day teaching (2020)*: Dear Dr. Mary Dunbar, On behalf of the residency training committee, I want to thank you for your recent contributions to our Academic Half Day! I sincerely appreciate your flexibility and generous offer of time to present three separate sessions by Zoom since April! I have recently reviewed the resident feedback for the last 3 months, and I must acknowledge the very high resident ratings for your sessions! The overall resident ratings for all 3 sessions were 4.6/5.0! Resident comments were very appreciative including: "Dr. Dunbar is a great presenter in the way that she is able to distill important and often complex information into a simple way for learners to understand.""Amazing teacher, great slides and summaries for a relevant gen peds presentation. Best AHD presenter of the year!" "Engaging presenter, encouraged resident participation even though Zoom." I hope you will continue to accept invitations to teach in our program! Sincerely,Pamela Veale, MD, MSc, FRCPC, Founder Dev. Peds. Associate Professor, PaediatricsSection Chief, Developmental Paediatrics One45 Feedback of 4 pediatric half-day presentations: * More presentations by Dr. Dunbar!
* Well organized, materials sent out in advanceAnimated presenter
* Dr. Dunbar is a great presenter in the way that she is able to distill important and often complex information into a simple way for learners to understand.
* Amazing teacher, great slides and summaries for a relevant gen peds presentation. Best AHD presenter of the year!
* super enthusiasticwell organizedpoints out level of detail should know vs could know
* Dr Dunbar is a great presenter. I have enjoyed all her presentations recently.Appreciate the depth of content, design of presentation for future study use, clear explanation of topics, openness to questions and clarification when needed. Thanks!!
* Great presentation, thorough review. Engaging presenter, encouraged resident participation even through Zoom.
* Continue engaging the audience and asking for participation.Thanks for including cases and lots of images to help drive how the points.
* Very engaging presenter! Good amount of material presented and well-organized. Thank you for being sensitive to people who have children/are pregnant (ie. not including graphic photos). :)So happy she is coming back to lead more AHD sessions!
* Complex topic presented in an easy to understand fashion. I am glad this was a lecture because I would not be able to make sense of it on my own.
* This was an excellent presentation and Dr Dunbar taught extremely well. It was engaging, at an appropriate level and extra information was provided to review individually.

*Nursing Annual Education day feedback (2018)***:**Thank you so much for presenting at our Unit 3 Annual Education Day. Your presentation was outstanding!"Stroke was very applicable and insightful""Dr Dunbar was amazing so much information in such a great learning presentation!""Stroke talk was my favourite, so much valuable information it will definitely change my nursing assessments!""Loved Mary's presentation on stroke! She was very engaging and the information was interesting and relevant.""Loved the case studies and the imaging pictures"As you can see the staff loved your presentation! Thanks for taking the time to further our education!With much appreciation,Angie & Carolyn  |  |
| HONORS AND AWARDS |
| 1. Alberta Graduate Excellence Scholarship
 | 2020 |
|

|  |  |
| --- | --- |
| 1.
 | Hamelin Family Graduate Scholarship in Neurodevelopmental Disabilities Research |

 | 2020 |
| 1. Subspecialty Resident Teacher of the Year nomination, Alberta Children’s Hospital
 | 2020 |
| 1. 1st place platform presentation, UBC Clinician Investigator Research Day
 | 2020 |
| 1. Faculty of Graduate Studies Master’s Research Scholarship
 | 2020 |
| 1. Community Health Sciences Achievement Award
 | 2020 |
| 1. International Stroke Conference Paul Dudley White International Scholar for top ranked Canadian abstract
 | 2020 |
| 1. International Stroke Conference Travel Award for Junior Investigators
 | 2020 |
| 1. Canadian Association of Child Neurology Chair’s Select Platform Presentation Prize at the CNSF 2019 Congress
 | 2019 |
| 1. First Runner-up Poster Award, UBC Clinician Investigator Research Day
 | 2019 |
| 1. Faculty of Graduate Studies Master’s Research Scholarship
 | 2018 |
| 1. UBC Department of Pediatrics Laura McCrae Award for most outstanding fellow or subspecialty resident
 | 2017 |
| 1. Most Outstanding Presentation, UBC Neurology Resident Research Day
 | 2017 |
| 1. UBC Department of Pediatrics Best Resident Year-End Film
 | 2015-17 |
| 1. Poster Presentation Winner, Quality Improvement Forum, Vancouver BC
 | 2015 |
| 1. Outstanding Achievement by a Resident, Child and Family Research Institute Annual Research Awards
 | 2014 |
| 1. Poster Presentation Winner Trainee Research Forum, Child and Family Research Institute
 | 2014 |
| 1. Runner-up Leaders in Medicine Platform Presentation, Leaders in Medicine, University of Calgary Annual Student Research Symposium
 | 2009 |
| 1. CAN Young Neuroscientist Award (outstanding abstract), Eli-Lily /Canadian Association for Neuroscience (CAN) Annual Conference
 | 2009 |
| 1. Alexander Graham Bell Canada Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada (NSERC)
 | 2009 |
| 1. Queen Elizabeth II Graduate Scholarship (academic excellence), University of Calgary
 | 2008- 09 |
| 1. Outstanding platform presentation award (travel scholarship), Spinal Cord and Nerve Regeneration Annual Meeting, University of Calgary
 | 2008 |
| 1. Graduate Entrance Scholarship, University of Calgary
 | 2008 |
| 1. Convocation with Great Distinction, McGill University
 | 2007 |
| 1. Academic All-Canadian (Track & Field), Canadian Interuniversity Sport (CIS)
 | 2006 |
| 1. Scholar-Athlete (Track & Field), McGill University
 | 2006 |

|  |
| --- |
| MENTORING |
| 1. Research Mentor, Stroke in Hemiparetic Cerebral Palsy

-Supervise and teach medical student methods, writing1. Alumni mentor, Leaders in Medicine Research Symposium

-Met with groups of students to discuss clinician researcher training | 2019-20202017 |
| 1. Resident mentor, Caffeinate a Resident

-Demonstrated patient examination, hospital tour, discussion about the residency program  | 2016-17 |
| 1. Founder, UBC Medical Student Pediatric Neurology Shadowing Experience

-I founded a medical student mentorship program and mentored 8 students-booked 2 hour experiences, half hour patient encounter, half hour hospital tour, one hour neurology teaching | 2015-16 |
| 1. UBC Residency Career night

- Attended career night, designed program poster, discussed program with medical students | 2015-16 |
| 1. UBC Medical School Students Interested in Pediatrics Research Session (invited speaker)

-Invited to speak about pediatric medicine, research in residency | 2015 |

|  |
| --- |
| VOLUNTEERING |
| 1. Invited judge, Canadian National Perinatal Research Conference
 | 2020 |
| 1. Invited judge, Leaders in Medicine Research Symposium
 | 2017 |
| 1. Invited judge, Summer Student Research Day, Child and Family Research Institute
 | 2016 |
| 1. Writer, director, actor, BCCH pediatric neurology end of year celebration films
 | 2015-17 |
| 1. Wellness representative, Resident Wellness Champions
 | 2016 |
| 1. Transition Care Management Plan committee, CNS Vasculitis
 | 2015 |
| 1. Coach (NCCP 1) British Columbia and Alberta Special Olympics (softball, rhythmic gymnastics, track and field)
 | 2000-08 |
| 1. Montreal Children’s Hospital, Volunteer
 | 2003-2007 |
| 1. McGill First Aid Service
 | 2003-2007 |

|  |
| --- |
| OTHER INTERESTS |

Movies and movie-making, track and field, sailing, writing