CURRICULUM VITAE

Name: Nandini Dendukuri

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Education

1995	M.Sc. (Integrated) (Statistics)	Indian Institute of Technology, Kanpur
1999	Ph.D. (Biostatistics)	McGill University, Montreal

Postdoctoral Training

01/1999-05/2000	Department of Health Care Policy, Harvard Medical School, Boston

Appointments

06/2000-11/2003	Biostatistician Department of Clinical Epidemiology and Community Studies St. Mary's Hospital Centre, Montreal
06/2000-12/2010	Assistant Professor (part-time) Department of Epidemiology and Biostatistics McGill University, Montreal
11/2003-10/2008	Research Scientist Technology Assessment Unit McGill University Health Centre, Montreal
1/2007-12/2010	Assistant Professor (part-time) Department of Medicine McGill University, Montreal

1/2007-	Medical Scientist
	Division of Clinical Epidemiology
	McGill University Health Centre, Montreal

1/2007-   Medical Scientist
          Division of Clinical Epidemiology
          McGill University Health Centre, Montreal

11/2008- Director
          Technology Assessment Unit
          McGill University Health Centre, Montreal

01/2011-07/2018 Associate Professor (full-time, contract academic staff)
                 Department of Medicine and
                 Department of Epidemiology and Biostatistics (joint appointment)
                 McGill University, Montreal

08/2016- Member
          McGill International Tuberculosis Centre

08/2018- Associate Professor (full-time, tenure track)
          Department of Medicine
          McGill University, Montreal

Awards

- Lady Meherbai Tata Scholarship (for higher studies in Public Health), 1995

- Max Stern Recruitment Fellowship from McGill University (for support of PhD research), 1995-1998

- Chercheur Boursier Junior 1 (salary award) from Fonds de la Recherche en Santé du Québec (FRSQ), 2003-2009

- Chercheur Boursier Junior 2 (salary award) from Fonds de la Recherche en Santé du Québec (FRSQ), 2009-2013

- Statistical Science Award (Theoretical Category) from Centers for Disease Control, United States in recognition of article titled 'Modeling conditional dependence between diagnostic tests: A multiple latent variable model' published in *Statistics in Medicine*, 2010

- Statistical Science Award (Theoretical Category) from Centers for Disease Control, United States for article titled 'Evaluating Diagnostic Tests for *Chlamydia trachomatis* in the Absence of a Gold Standard: A Comparison of Three Statistical Methods' published in *Statistical Methods in Biopharmaceutical Research*, 2012

- Charles C. Shepard in the Data Methods and Study Design category from Centers for Disease Control, United States for article titled 'Evaluation of Screening Tests for Detecting Chlamydia trachomatis: Bias Associated with the Patient-Infected-Status Algorithm' published in *Epidemiology*, 2012

1/2007-   Medical Scientist
          Division of Clinical Epidemiology
          McGill University Health Centre, Montreal

11/2008- Director
          Technology Assessment Unit
          McGill University Health Centre, Montreal

01/2011-07/2018 Associate Professor (full-time, contract academic staff)
                 Department of Medicine and
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08/2016- Member
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Awards

- Lady Meherbai Tata Scholarship (for higher studies in Public Health), 1995

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- Chercheur Boursier Junior 1 (salary award) from Fonds de la Recherche en Santé du Québec (FRSQ), 2003-2009

- Chercheur Boursier Senior (salary award) from Fonds de la Recherche Santé - Québec (FRQS), 2013-2017

- The Deanne Nesbitt Award, The Honourable Hartland Molson Fellowship and the Robert and Mary Hewitt Horizons Award from the McGill University Health Centre (MUHC) Foundation towards salary support, 2017-2018

Research Grants

(NSERC: Natural Sciences and Engineering Research Council; FRSQ: Fonds de la Recherche en Santé du Québec; CDC: Centers for Disease Control, USA; CIHR: Canadian Institutes of Health Research; CADTH: Canadian Association of Drugs and Technologies and Health; FQRNT: Fonds Québecois de la recherche sur la nature et les technologies; INESSS: Institut Nationale de Sant$é$ et des Services Sociaux)

1. NSERC. **Principal Investigator**. "Bayesian inference for biostatistical problems". Total amount: $40,000. 2001-2005

2. CDC. **Co-Principal Investigator**. "Statistical methods for analyzing results from multiple diagnostic tests" (Co-Principal Investigator: Alula Hadgu). Total amount: US $2,000. 2001-2002

3. St. Mary's Hospital Centre, Montreal. Co-Investigator. "Study of attitudes towards disclosure of a diagnosis of dementia in elderly subjects attending outpatients clinics" (Principal Investigator: Marie-André Ouimet). Total amount: $5,000. 2002-2003

4. CIHR. Co-Investigator. "Reducing low birth weight in hookworm endemic areas: An RCT of pre-natal iron vs. iron+albendazole" (Principal Investigator: Theresa Gyorkos). Total amount $ 237,050. 2002-2004

5. FQRNT. **Co-Principal Investigator**. "Statistical methods for multilevel data" (Co-Principal investigator: James Hanley). Total amount: $123,000. 2002-2005

6. FRSQ. Co-Investigator. "La dépression chez les personnes âgées : Détection et prise en charge" (Principal Investigator: Jane McCusker). Total amount: $270,000. 2002-2005

7. FRSQ. Co-Investigator. Groupe interuniversitaire de recherche sur les urgences (GIRU) (Principal Investigator: Danielle Larouche). Total amount : $1,198,680. 2002-2006

8. FRSQ. **Principal investigator**. "Méthodes statistiques améliorées pour recherche sur les services de santé". Total amount : $45,000. 2003-2006

9. CDC. **Co-Principal Investigator**. "A hierarchical latent class model for comparing non-gold standard diagnostic tests" (Co-Principal Investigator: Alula Hadgu). Total amount: US $6000. 2005-2006

10. CADTH. Co-Investigator. "Collaborative development and implementation of a joint HTA unit by two university hospital networks in Montreal, Quebec" (Principal investigator: James Brophy). Total amount: $100,000. 2005-2007

11. CADTH. **Co-Principal Investigator**. "Bayesian methods for evaluating diagnostic technologies: An application in the health technology assessment of electron beam computed tomography for the screening of coronary artery disease" (Co- Principal Investigator: James Brophy). Total amount: $84,000. 2005-2006

12. CIHR. Co-Investigator. "A pharmacoepidemiology study of a potential drug interaction between atorvastatin and clopidogrel following percutaneous coronary intervention" (Principal Investigator: James Brophy). Total amount: $98,500. 2005-2007

13. FRSQ. Co-Investigator. "Epidémiologie clinique et moléculaire et caracterisation des facteurs de virulence du Clostridium difficile dans le contexte d'une éclosion récente au Québec" (Principal Investigator: Vivian Loo). Total Amount: $1,000,000. 2006-2007

14. Nova Scotia Health Research Foundation/CIHR Regional Partnership Program and IWK Grace Hospital, Halifax. Co-Investigator. "Prognostic Models in Obstetrics" (Principal Investigator: Victoria Allen). Total Amount: $125,708. 2006-2008

15. NSERC. **Principal Investigator**. "Bayesian methods for diagnostic test studies". Total amount: $35,000. 2006-2011

16. CIHR. Co-Investigator. "Validation of interferon-gamma assay for the diagnosis of tuberculosis infection in health care workers" (Principal Investigator: Madhukar Pai). Total amount: $249,285. 2006-2009

17. TDR (The Special Programme for Research and Training in Tropical Diseases). **Co-Principal Investigator**. "Development of a user-friendly interface for statistical analysis programs for diagnostic test studies in the absence of a gold-standard" (Co-Principal Investigator: Lawrence Joseph). Total amount: $10,000. 2006

18. CIHR. Co-Investigator. "Socioeconomic status and perinatal health" (Principal Investigator: K.S.Joseph). Total amount: $431,288. 2007-2010

19. CIHR. Co-Investigator. "Antithrombotic treatment intensity and the risk of hemorrhagic complications in the elderly: A population-based study" (Principal Investigator: Linda Levesque). Total amount: $205,498, 2007-2009

20. CIHR. Co-Investigator. "Non-steroidal anti-inflammatory drugs and cardiovascular risk: An international patient level meta-analysis of observational studies" (Principal Investigator: James Brophy). Total amount: $151,720. 2007-2009

21. CIHR. Co-Investigator. "A pharmacoepidemiology study of the cardiovascular safety of bisphosphonates" (Principal Investigator: James Brophy). Total amount: $174,600. 2008-2009

22. CIHR. Co-Investigator. "Validation of sFAS measurement for the diagnosis of acute coronary syndrome" (Principal Investigator: Marie-Josee Hebert). Total amount: $150,000, 2008-2009

23. CIHR. Co-Investigator. "Prevalence functions for setting prognosis in the neonatal intensive care unit" (Principal Investigator: Shoo Lee). Total amount: $4,902,135. 2008-2013

24. FQRNT. **Principal Investigator** (of 9 member team). "Méthodes statistiques pour les études multiniveaux". Total amount: $145,800. 2008-2011

25. CIHR. **Principal Investigator**. "Novel statistical methods for Tuberculosis diagnostic studies" (Co-Principal Investigator: Madhukar Pai). Total amount: $182,977. 2008-2011

26. CIHR. Co-Investigator. "Innovative approaches for diagnosing tuberculosis in the era of HIV" (Principal Investigator: Madhukar Pai). Total amount: $301,878. 2008-2011

27. CIHR. **Principal Investigator**. "Statistical methods for meta-analysis of tuberculosis diagnostic studies" (Co-Principal Investigator: Madhukar Pai). Total amount: $282,798. 2011-2014

28. CIHR. Co-Investigator. "Methods to measure (and measures of) the (actual) mortality reductions produced by cancer screening" (Principal Investigator: James Hanley). Total amount: $188,250, 2011-2014

29. Grand Challenges Canada. Collaborator. "Fabric Chips: A versatile platform for low-cost, rapid and multiplexed diagnostic tests" (Principal Investigator: Dhananjaya Dendukuri). Achira Labs, India. Subgrant amount for statistical analyses: $50,000. 2011-2014

30. CIHR. Co-Investigator. "Understanding and Improving Brain Health in HIV Now" (Principal Investigator: Lesley Fellows). Total amount: $2,492,705, 2012-2017

31. NSERC. **Principal Investigator**. "Bayesian methods for epidemiologic studies". Total amount: $55,000. 2013-2018

32. CIHR. Co-Investigator. "Comparative effectiveness research for the drug treatment of atrial fibrillation" (Principal Investigator: James Brophy). Total amount: $81,548, 2013-2015

33. CIHR. **Principal Investigator**. "Statistical methods to support diagnosis of childhood tuberculosis in the absence of a gold-standard reference" (Co-Principal Investigator: Madhukar Pai). Total amount: $256,932. 2014-2017

34. CIHR. Co-Investigator. "Reducing the burden of hospital-associated Clostridium Difficile infections in Canada through optimal prevention policies: A multidisciplinary individual-based modeling approach" (Principal Investigator: Marc Brisson). Total amount: $475,368. 2014-2018

35. INESSS. **Principal Investigator**. "Cardiovascular resynchronization therapy for patients with heart failure or heart block in Quebec. $50,000. 2014

36. CIHR. Co-investigator. "Adolescent cannabis consumption and risk of depression. An evidence-based approach" (Principal Investigator: Gabriella Gobbi). Total amount: $100,000. 2016

37. CIHR. Co-Investigator."Congenital Heart Disease across the Lifespan: Improving Quality of Care with Health Services Interventions" (Principal Investigator: Ariane Marelli). Total amount: $974,686. 2016 - 2021

38. CIHR-Biom*é*rieux. **Principal Investigator**. "Evaluation of Ultrasensitive Toxin Detection and Molecular Assays for the Diagnosis of Clostridium difficile Infection and Asymptomatic Colonization", (Principal Investigator: Vivian Loo). Total amount: $299,988. 2017-2019

39. Gouvernement du Quebec Le ministre de l'agriculture. Co-Investigator. "Amlioration des strategies diagnostiques de dtection des veaux lourds souffrant de pneumonies" (Principal Investigator: Sbastien Buczinski). Total amount: $97,430. 2017 - 2019

40. CIHR. **Principal Investigator**. "Evaluating diagnostic accuracy of tests and decision rules in the absence of a perfect reference test: Application to extrapulmonary tuberculosis" (Co-Principal Investigator: Karen Steingart). Total amount: $229,500. 2018-2021

41. CIHR. Co-Investigator. "Ticagrelor compared to clopidogrel in acute coronary syndromes - the TC4 comparative effectiveness study" (Principal Investigator: James Brophy). Total amount: $309,825. 2018-2021

42. FRSQ. Co-Investigator. "Use of biomarkers to improve the diagnostic accuracy of concomitant bacterial infections in critically ill infants with viral bronchiolitis: A pilot study" (Principal Investigator: Patricia Fontela). Total amount: $20,000. 2018 please add in following newly funded grants

43. CIHR. Co-Investigator."HIV/AIDS Comorbidities Prevention and Healthy Living" (Principal Investigator: Lesley Fellows). Total amount: $2,499,840. 2018 - 2023

Presentations at seminars or conferences

Oral presentations

1. "Dynamics of spatial and temporal aspects of pearl millet downy mildew". Global Conference on Advances in Research on Plant Diseases and their Management. Udaipur, India. February 1995

2. "Bayesian Approaches to Modeling the Conditional Dependence between Multiple Diagnostic Tests". Joint Statistical Meetings. Baltimore. August 1999

3. "High doses of inhaled corticosteroids and the risk of diabetes". International Conference on Pharmacoepidemiology. Boston. August 1999

4. "Bayesian Approaches to Modeling the Conditional Dependence between Multiple Diagnostic Tests". Center for Statistical Sciences, Brown University, Providence. January 2000

5. "Sample size determination for studies involving two non-gold standard diagnostic tests". Department of Clinical Epidemiology, Montreal General Hospital, Montreal. March 2001

6. "Sample size determination for studies involving two non-gold standard diagnostic tests". Annual Meeting of the Statistical Society of Canada. Vancouver. June 2001

7. "Studies involving diagnostic tests: Issues in sample size calculation and analysis". Department of Clinical Epidemiology and Community Studies, St. Mary's Hospital Centre, Montreal. March 2002

8. "The Identification of Seniors at Risk (ISAR) Screening Tool: New results on concurrent and predictive validity". Annual Meeting of the Canadian Association of Gerontology. Montreal. October 2002

9. "Data analysis options for results from an alternating sequence trial of a reproductive technology". Annual Meeting of the Canadian Statistical Society. Halifax. June 2003

10. "Sample size determination for studies involving two non-gold standard diagnostic tests". Department of Epidemiology and Biostatistics, McGill University, Montreal. September 2003

11. "Comparing the validity of different sources of information on emergency department visits: A latent class analysis". Department of Clinical Epidemiology and Community Studies, St. Mary's Hospital Centre, Montreal. October 2003.

12. "Comparing the validity of different sources of information on emergency department visits: A latent class analysis". Meeting of the Groupe Inter-Universitaire de recherche sur les urgences. Montreal. January 2004

13. "Comparing the validity of different sources of information on emergency department visits: A latent class analysis". Division of Clinical Epidemiology, Royal Victoria Hospital, Montreal. April 2005

14. "Comparing the validity of different sources of information on emergency department visits: A latent class analysis". McGill University Health Centre Annual Research Day. Montreal. June 2005

15. "Bayesian sample size determination for studies involving non-gold standard diagnostic tests". Joint Statistical Meetings. Minneaopolis. August 2005

16. "Modeling conditional dependence between multiple diagnostic tests: A hierarchical latent class model". Joint Statistical Meetings. Minneapolis. August 2005

17. "Modeling conditional dependence between multiple diagnostic tests: A hierarchical latent class model". International Biometrics Conference. Montreal. July 2006

18. "Hierarchical models in Epidemiology: An introduction". Unité des recherche en santé des populations. Hôpital du Saint-Sacrament. Québec. October 2006

19. "Testing for HER-2 positive breast cancer: A systematic review and cost-effectiveness analysis". Division of Clinical Epidemiology, McGill University Health Centre. Montreal. October 2006

20. "Testing for HER-2 positive breast cancer: A systematic review and cost-effectiveness analysis". Department of Clinical Epidemiology and Community Studies, St. Maryś Hospital Centre. Montreal. November 2006

21. "Review of statistical methods for evaluation of diagnostic tests in the absence of a gold-standard". Diagnostic Experts Evaluation Panel (DEEP) Meeting. Geneva. November 2006

22. "Electron Beam Computed Tomography for screening and detection of coronary artery disease: A systematic review and meta-analysis". Centre for Clinical Epidemiology and Community Studies, Jewish General Hospital. Montreal. January 2007

23. "Modeling conditional dependence due to multiple latent variables: A hierarchical latent class model". Department of Epidemiology and Biostatistics, McGill University. Montreal. February 2007.

24. "BLCM: A user friendly software package for Bayesian estimation of Latent Class Models". Diagnostic Experts Evaluation Panel (DEEP) Meeting. Geneva. November 2007.

25. "Bayesian methods for modeling diagnostic test results in the absence of a gold-standard". St. John's Research Institute, Bangalore, India. December 2007.

26. "A brief overview of meta-analysis". Technology Assessment Unit. McGill University Health Center. March 2008.

27. "Evaluating diagnostic tests for Chlamydia trachomatis in the absence of a gold standard: Application of a multiple latent variable model". McGill University Health Centre Annual Research Day. Montreal. June 2008.

28. "Estimation of latent TB infection prevalence using mixture models". Respiratory Epidemiology and Clinical Research Unit, McGill University, Montreal. December 2008.

29. "Bayesian sample size determination for prevalence and diagnostic test studies in the absence of a gold standard test". Département de mathématique et statistique, Université Laval, Quebec. February 2009.

30. "Comparison of Coblation Tonsillectomy and Electrocautery Tonsillectomy in Pediatric Patients". Atelier enjeux et pratiques, Agence d'evaluation des technologies et des modes d'intervention en santé (AETMIS), Montreal. February 2009.

31. "Clinical efficacy and cost of Allogenic Acellular Dermal Matrix (AADM) in implant-based breast reconstruction of post mastectomy cancer patients". Atelier enjeux et pratiques, Agence d'valuation des technologies et des modes d'intervention en sant (AETMIS), Montreal. October 2009.

32. "Bayesian approach to adjusting for partial and differential verification bias". Department of Epidemiology and Biostatistics, McGill University. Montreal. October 2009.

33. "Measuring cost-effectiveness: Incremental Cost Effectiveness Ratio vs. Net Benefit". Technology Assessment Unit, McGill University Health Centre, Montreal. November 2009.

34. "Bayesian approach to adjusting for partial and differential verification bias". Centre for Clinical Epidemiology and Community Studies, Jewish General Hospital, Montreal. January 2010.

35. "Meta-analysis of diagnostic test characteristics in the absence of a gold standard reference test". Joint Statistical Meetings of the American Statistical Association. Vancouver. August 2010.

36. "Bayesian meta-analysis of diagnostic test accuracy in the absence of a gold standard reference test". 32nd annual conference of the International Society of Clinical Biostatistics, Ottawa. August 2011.

37. "Est-ce qu'untest de l'antigneurinairepeut amliorer le diagnosticde la pneumonieacquise dans la communautet accrotre l'utilisationdes antibiotiquescibls?Une revue systmatiquede la preuve". Atelier enjeux et pratiques, Institut nationale d'excellence en sant et en services sociaux (INESSS), Montreal. February 2012.

38. "Evaluation of a diagnostic test in the absence of a gold-standard reference test in the context of a meta-analysis". Centre of Clinical Epidemiology, Jewish General Hospital, Montreal. April 2013.

39. "Diagnostic meta-analysis of a gold-standard reference test". Symposium on 'Methods for Evaluating Medical Tests & Biomarkers' organized by The Cochrane Collaboration, Birmingham, UK. July 2013.

40. "Measuring the mortality reductions due to cancer screening". International Biometrics Conference, Florence, Italy, July 2014.

41. "Bayesian estimation of latent class models in the absence of a gold standard". International Biometrics Conference, Florence, Italy, July 2014.

42. "The importance of recognizing heterogeneity in a meta-analysis: The case of evaluating probiotics for prevention of C. difficile diarrhea". Biostatistics Seminar Series. Department of Epidemiology, Biostatistics and Occupational Health. September 2014.

43. "Technology Assessment Unit (TAU) of the MUHC". McGill Unversity Health Centre - Medical Grand Rounds, March 2015.

44. "Bias due to a composite reference standard for evaluating test accuracy: The case of evaluating new tests for *Chlamydia trachomatis*." Centre de recherche de Centre Hospitalier de l'Université de Montréal, Montreal, April 2015.

45. "Diagnostic test evaluation in the absence of a gold-standard: Why composite reference standards should be avoided." McGill University Health Centre - Research Institute, Montreal, April 2016.

46. "The problem with composite reference standards". Symposium on 'Methods for Evaluating Medical Tests & Biomarkers' organized by The Cochrane Collaboration, Birmingham, UK. July 2016 (Keynote address).

47. "Latent class analysis: An indespensable tool for diagnostic research". Special Seminar, Department of Epidemiology, Biostatistics and Occupational Health, McGill University, January 2017

48. "Measuring disease prevalence and diagnostic test accuracy in childhood pulmonary tuberculosis: A solution in the absence of a perfect test". Joint Seminar Series - McGill TB Centre and Respiratory Epidemiology and Clinical Research Unit (RECRU), McGill University Health Centre, January 2017

49. "Estimating the efficacy of probiotics for preventing C. difficile diarrhea: Advantages of using a Bayesian approach for meta-Analysis". Webinar organized by Canadian Association of Pharmacy Technicians (CAPT), May 2017

50. "Estimating diagnostic test accuracy in the absence of a perfect reference: The importance of quantifying uncertainty". Seminar series of the Centre for Outcomes Research (CORE), McGill University Health Centre - Research Institute, November 2017

51. "Advantages of using a Bayesian approach for meta-analysis". Seminar series of the Pediatric Intensive Care Research Unit, McGill University Health Centre, May 2018

52. "Understanding conditional dependence" (with Zhuo Yu Wang). Symposium on 'Methods for Evaluating Medical Tests & Biomarkers', Utrecht, Netherlands, July 2018

Posters

(* graduate student/post-doctoral fellow/research associate)

1. "Identifying response shift statistically at the individual level". McGill University Health Centre Annual Research Day. Montreal. June 2006

2. "Bayesian estimation of diagnostic test parameters in the presence of verification bias". International Biometrics Conference. Montreal. July 2006 (Presented by *Ying Lu)

3. "Estimation of prevalence of tuberculosis infection among Indian healthcare workers: a comparison of conventional and model-based approaches". 37th Union World Conference on Lung Health of the International Union Against Tuberculosis and Lung Disease. Paris. October 2006 (Presented by Madhukar Pai)

4. "Comparison of Coblation Tonsillectomy and Electrocautery Tonsillectomy in Pediatric Patients". Canadian Agency for Drugs and Technologies in Health (CADTH) Symposium, Ottawa. April 2009

5. "Significance of Positive Cultures from Organ Preservation Fluid in Solid Organ Transplantation". Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Washington DC. October 2008 (Presented by Cedric Yansouni)

6. "Comparison of Eight Commercial Enzyme Immunoassays for the Detection of Toxigenic Clostridium difficile in Stool Samples". Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), San Francisco. August 2009 (Presented by Pierre René)

7. "Risk Factors for Nosocomial Clostridium difficile Infection and Colonization". Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), San Francisco. August 2009 (Presented by Vivian Loo)

8. "The use of probiotic Lactobacillus in the prevention of Clostridium difficile diarrhea in adult inpatients receiving antibiotics". Annual symposium of the Canadian Agency for Drugs and Technologies in Health, Vancouver, 2011 (Presented by *Alison Sinclair)

9. "Efficacy of a gentamicin-collagen sponge for surgical site infection prophylaxis in cardiac and colorectal surgery". Annual symposium of the Canadian Agency for Drugs and Technologies in Health, Vancouver, 2011

10. "Negative pressure wound therapy: Is it effective?". Annual symposium of the Canadian Agency for Drugs and Technologies in Health, Vancouver, 2011 (Presented by Xuanqian Xie)

11. "Deviance Information Criterion (DIC) for Non-Identifiable Models: An Application to Diagnostic Test Evaluation in the Absence of a Gold-Standard Test". 32nd annual conference of the International Society of Clinical Biostatistics, Ottawa, August 2011. (Presented by *Yan Zhou)

12. "Evidence supports use of subglottic secretion drainage endotracheal tubes for prevention of ventilator-associated pneumonia". Canadian Agency for Drugs and Technologies in Health 2012 Symposium, Ottawa, 2012 (Presented by *Xuanqian Xie)

13. "Can a urine antigen test impact on diagnosis of community acquired pneumonia and increase use of targeted antibiotics? A systematic review of the evidence". Canadian Agency for Drugs and Technologies in Health 2012 Symposium, Ottawa, 2012 (Presented by *Alison Sinclair)

14. "A Bayesian framework for estimating the incremental value of a diagnostic test in the absence of a gold standard". Symposium on 'Methods for Evaluating Medical Tests & Biomarkers' organized by The Cochrane Collaboration, Birmingham, UK. July 2013.

15. "A Bayesian framework for estimating the incremental value of a diagnostic test in the absence of a gold standard". Joint Statistical Meetings, Montreal, Canada. August 2013.

16. "An examination of the accuracy of a composite reference standard and the bias associated with it". Joint Statistical Meetings, Montreal, Canada. August 2013. (Presented by *Ian Schiller)

17. "Adjusting for missing covariates in Bayesian latent class models for diagnostic test data". Joint Statistical Meetings, Montreal, Canada. August 2013. (Presented by *Zhuo Yu Wang)

18. "Statistics for quantifying heterogeneity in univariate and bivariate meta-analyses of binary data: The case of meta-analyses for diagnostic accuracy". Joint Statistical Meetings, Montreal, Canada. August 2013. (Presented by *Yan Zhou)

19. "Predictors of asymptomatic *Clostridium difficile* colonization on Hospital admission". Association of Medical Microbiology and Infectious Disease Canada, Victoria, Canada. April 2014. (Presented by *Ling Y. Kong)

20. "Cardiac Resynchronization Therapy in Heart Failure". CADTH Symposium, Ottawa, April 2016.

21. "Latent class meta-analysis in a Cochrane diagnostic accuracy review to improve accuracy estimates in the absence of a perfect reference standard". Symposium on 'Methods for Evaluating Medical Tests & Biomarkers', Utrecht, Netherlands. July 2018.

Articles published or accepted in peer-reviewed journals

(* graduate student/post-doctoral fellow/research associate)

1. **Dendukuri N**, Joseph L. Bayesian approaches to modeling the conditional dependence between diagnostic tests. Biometrics, 57(1):158-67. 2001

2. McCusker J, Verdon J, Tousignant P, Poulin de Courval L, **Dendukuri N**, *Belzile E. Rapid emergency department intervention for older people reduces risk of functional decline: Results of a multicentre randomized trial. Journal of the American Geriatric Society, 49(10):1272-81. 2001

3. McCusker J, Cole M, **Dendukuri N**, *Belzile E. Delirium in older medical inpatients and subsequent cognitive and functional status: A prospective study. Canadian Medical Association Journal, 165(5):575-583. 2001

4. Cole M, McCusker J, **Dendukuri N**, *Han L. Symptoms of delirium among elderly medical inpatients with or without dementia. Journal of Neuropsychiatry and Clinical Neurosciences, 14(2):167-75. 2002

5. **Dendukuri N**, Blais L, LeLorier J. High doses of inhaled corticosteroids and the risk of diabetes. British Journal of Clinical Pharmacology, 54(1):59-64. 2002

6. Cole M, Dowson L, **Dendukuri N**, *Belzile E. The prevalence and phenomenology of auditory hallucinations among elderly subjects attending an audiology clinic. International Journal of Geriatric Psychiatry, 17(5):444-52. 2002

7. *Tamim H, McCusker J, **Dendukuri N**. Proxy reporting of quality of life using the EQ-5D. Medical Care, 40(12):1186-1195. 2002

8. McCusker J, **Dendukuri N**, Tousignant P, Verdon J, Poulin de Courval L, *Belzile E. Rapid two-stage emergency department intervention for seniors: Impact on continuity of care. Academic Emergency Medicine, 10(3):233-243. 2003

9. Cole M, **Dendukuri N**, McCusker J, *Han L. An empirical study of different diagnostic criteria for delirium. Journal of Neuropsychiatry and Clinical Neurosciences, 15(2):200-207. 2003

10. McCusker J, Jacobs P, **Dendukuri N**, Latimer E, Tousignant P, Verdon J. Cost-effectiveness of a brief 2-stage emergency department intervention for high-risk elders: Results of a randomized controlled trial. Annals of Emergency Medicine, 41(1):233-243. 2003.

11. **Dendukuri N**, Normand S-L. T, McNeil B. J. Impact of cardiac service availability on case-selection for angiography and survival associated with angiography. Health Services Research, 38:21-40. 2003

12. Cole M, McCusker J, **Dendukuri N**, *Han L. The prognostic significance of sub-syndromal delirium in elderly medical inpatients. Journal of the American Geriatric Society, 51:754-760. 2003

13. Cole M, **Dendukuri N**. Risk factors for depression among elderly community subjects: A systematic review and meta-analysis. American Journal of Psychiatry, 160(6):1147-1156. 2003

14. McCusker J, Cole M, **Dendukuri N**, Han L, *Belzile E. The course of delirium in older medical inpatients: A prospective study. Journal of General Internal Medicine, 18(9):696-704. 2003

15. McCusker J, Cole M, **Dendukuri N**, *Belzile E. Does delirium increase hospital stay? Journal of American Geriatric Society, 51(11):1539-46. 2003

16. **Dendukuri N**, McCusker J, *Belzile E. The identification of seniors at risk (ISAR) screening tool: Further evidence on concurrent and predictive validity. Journal of the American Geriatric Society, 52(2):290-6. 2004

17. **Dendukuri N**, Rahme E, Bèlisle P, Joseph L. Sample size determination for studies involving two non-gold standard diagnostic tests. Biometrics, 60(2):388-97. 2004

18. **Dendukuri N**, McCusker J, Bellavance F, Verdon J, Cardin S. Comparing the validity of different sources of information on emergency department visits: A latent class analysis. Medical Care, 43(3):266-75. 2005

19. McCusker J, **Dendukuri N**, Cardinal L, Laplante J, Bambonye L. Nursing Work Environment and Quality of Care: differences between units at the same hospital. International Journal of Health Care Quality Assurance, 17(6):313-322. 2004

20. Sewitch MJ, McCusker J, **Dendukuri N**, Yaffe MJ. Depression in frail elders: impact on family caregivers. International Journal of Geriatric Psychiatry, 19(7):655-65. 2004

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Statistical Software

(Available online at http://www.medicine.mcgill.ca/epidemiology/dendukuri/)

1. WinBUGS programs for modeling conditional dependence between two non-gold standard diagnostic tests using fixed or random effects

2. LCMR: An R library to estimate latent class models with random effects using a Bayesian approach

3. BLCM: A user-friendly program for Bayesian estimation of latent class models

4. HSROC: R library for joint meta-analysis of diagnostic test sensitivity and specificity with or without a gold standard reference

Peer Review

Peer review for journals

American Journal of Epidemiology, American Journal of Managed Care, Annals of Internal Medicine, Biometrics, BMC Research Methods, Canadian Journal of Statistics, Clinical Psychology Review, Communications in Statistics, Computational Statistics and Data Analysis, Disease Markers and Cancer Biomarkers, Epidemiology, Indian Journal of Medical Research, International Journal of Tuberculosis and Lung Disease, Journal of Clinical Gastroenterology, Medical Decision Making, Open Medicine, Personalized Medicine, PLOS One, Radiology, South African Statistical Journal, Statistics in Medicine, Statistical Methods for Biopharmaceutical Research, The Lancet

Member of peer-review committee for research grant proposals

1. Canadian Institutes of Health Research (CIHR) Operating Grants Competition (Fall 2009, Winter 2013, Winter 2015)

2. Fonds de la Recherche en Santé du Québec (FRSQ) Operating Grants Competition (2010-2012)

3. Fonds de la Recherche en Santé du Québec (FRSQ) Chercheur Boursier Competition (2015)

4. Fonds de la Recherche en Santé du Québec (FRSQ) Chercheur Boursier Competition (2016)

External reviewer of research protocols/grant proposals/conference abstracts

1. Natural Science and Engineering Research Council of Canada (NSERC)

2. Canadian Agency for Drugs and Technologies in Health (CADTH)

3. ZonMw: The Netherlands Organisation for Health Research and Development

4. Health Technology Assessment International (HTAi)

5. Medical Research Council (MRC), United Kingdom

External examiner of graduate theses

- 2010, Marie-Claude Breton, Ph.D., Le risque de mortalité périnatale à l'asthme et à l'utilisation de corticostéroïdes inhalés pendant le grossesse, Faculté de pharmacie Univérsité de Montréal (Supervisor: Lucie Blais)

- 2017, Tracy Yuen, Generating evidence to streamline the clinical pathway in autism spectrum disorder using simulation models: Cost-effectiveness comparisons of screening and genetic testing strategies, Institute of Health Policy, Management and Evaluation, University of Toronto (Supervisor: Wendy Ungar)

- 2017, Eric Zhang, M.Sc., Cost-effectiveness of non-alcoholic steatohepatitis (NASH) screening, Department of Radiology, Universit de Montral (Supervisors: An Tang and Luigi Lepanto)

Teaching (outside of McGill University)

- Workshop on Bayesian Methods for Health Technology Assessment. Three-hour workshop at Canadian Association for Drugs and Technologies in Health (CADTH) 2009 Symposium, Ottawa. April 2009

- Introduction to Bayesian methods in Biostatistcs. Two-week course at Indian Institute of Public Health, Hyderabad. April 2009

- Introduction to Bayesian methods in Biostatistcs. One-week course at Indian Institute of Public Health, Hyderabad. April 2010

- One-day workshop on Bayesian methods for adjustment of bias in epidemiologic studies (with Paul Gustafson, University of British Columbia). June 2010

- Lecture on Bayesian Methods for Meta-analysis. One-hour workshop at Réseau Québecois de recherche sur l'usage des médicaments (RQRUM) Workshop on Meta-analysis, Montreal. May 2011

- Lectures on 'Diagnostic test evaluation in the absence of a gold-standard' as part of course on 'Advanced tuberculosis diagnostic research', Montreal. July 2011

- Lectures on 'Bayesian estimation' and 'Latent class models' as part of workshop on 'Diagnostic test evaluation in the absence of a (gold) reference standard', Julius Centre for Primary Care and Health Sciences, Utrecht, Netherlands. September 2011

- Lectures on 'Diagnostic test evaluation in the absence of a gold-standard' as part of course on 'Advanced tuberculosis diagnostic research', Montreal. July 2012

- One-day workshop on 'Introduction to Bayesian analysis in Biostatistics', St. John's Research Institute, Bangalore, India. November 2012

- Two-day workshop on 'Bayesian latent class models for prevalence estimation and diagnostic test evaluation in the absence of a gold-standard', Faculty of Veterinary Medicine, Université de Montréal, Ste. Hyacinthe, Quebec. November 2015

- Workshop on 'Accessible Bayesian Methods for Evidence Based Medicine' at the Canadian Association for Drugs and Technologies in Health (CADTH) Symposium. April 2016

- Workshop on 'Accessible Bayesian Methods for Health Technology Assessment' at the Canadian Association for Drugs and Technologies in Health (CADTH). December 2016

McGill University Activities (Department of Epidemiology and Biostatistics unless otherwise specified)

Teaching

- Sep - Nov 2000, Guest lecturer, 513-607A: Principles of Inferential Statistics, 4 credits

- June 2001, Instructor, 513-694L: Inferential Statistics II, 2 credits

- Jan - Feb 2002, Co-Instructor, 513-651B: Bayesian Methods in Medicine, 1 credit

- June 2002, Instructor, 513-694L: Inferential Statistics II, 2 credits

- June 2003, Instructor, 513-694L: Inferential Statistics II, 2 credits

- June 2005, Instructor, 513-694L: Inferential Statistics II, 2 credits

- Mar - May 2006, Co-Instructor, 513-668: Statistical Models in Epidemiology, 2 credits

- June 2006, Instructor, 513-694L: Inferential Statistics II, 2 credits

- Jan - Apr 2008, Co-Instructor, BIOS602: Regression models, 3 credits

- Nov 2008, Guest lecturer, EPIB 628: Measurement in Epidemiology, 3 credits

- Nov 2009, Guest lecturer, EPIB 628: Measurement in Epidemiology, 3 credits

- Feb 2010, Guest lecturer, BIOS602: Regression models, 3 credits

- Jan - Mar 2011, Instructor, POTH 618[†]: An introductory course in regression analysis, 3 credits

- Jan - Mar 2012, Instructor, POTH 618[†]: An introductory course in regression analysis, 3 credits

- June 2012, Instructor, EPIB 642: Introduction to Health Technology Assessment, 1 credit

- Jan - Apr 2013, Instructor, POTH 628[†]: An introductory course in regression analysis, 3 credits

- May 2013, Instructor, EPIB 642: Introduction to Health Technology Assessment, 1 credit

- June 2014, Instructor, EPIB 642: Introduction to Health Technology Assessment, 2 credits

- Nov 2014, Guest lecturer, EPIB 642: Economic Evaluation of Health Programmes, 2 credits

- June 2016, Instructor, EPIB 670: Introduction to Health Technology Assessment, 2 credits

- Sep - Dec 2016, Instructor, EXMD 634[‡]: Introduction to Quantitative Research Methods for Experimental Medicine, 3 credits

- Nov 2016, Guest lecturer, EPIB 675: Knowledge Synthesis, 2 credits

- June 2017, Instructor, EPIB 670: Introduction to Health Technology Assessment, 2 credits

- Sep - Dec 2017, Instructor, EXMD 634[‡]: Introduction to Quantitative Research Methods for Experimental Medicine, 3 credits

†: Department of Physical and Occupational Therapy, McGill University
‡: Department of Experimental Medicine, McGill University

Student/Trainee supervision

Graduate students

- 2002, Elizabeth Turner[†], M.Sc., Analysis of Prostate Specific Antigen "trajectories": Statistical Challenges (co-supervisor (James Hanley))

- 2003-2004, Raluca Ionescu-Ittu, M.Sc., Impact of continuity of care on emergency department return visits among seniors in Québec (co-supervisor Jane McCusker)

- 2004-2006, Ying Lu, M.Sc., Adjusting for verification bias in the absence of a gold-standard test: A Bayesian analysis (co-supervisor Lawrence Joseph)

- 2005-2006, Jordie Croteau[‡], M.Sc., Bayesian methods for meta-analysis of odds ratios (co-supervisor Jean-Francois Angers, Université de Montréal)

- 2006-2008, Ana Blagojevic, M.Sc., A pharmacoepidemiology study of a potential drug interaction between atorvastatin and clopidogrel following a percutaneous coronary intervention (PCI) (co-supervisor James Brophy)

- 2008-2011, Guoyuan Liu, M.Sc., Influence of Prior Distribution on Bayesian Inference for Small Proportion (co-supervisor Elham Rahme)

- 2009-2011, Joris de Groot (from Julius Centre for Health Sciences and Primary Care, University of Utrecht, Netherlands), Bayesian methods for adjusting for verification bias in diagnostic studies

- 2011-2015, Zhihui Liu, Ph.D., Statistical methods for Evaluating Cancer Screening (co-supervisor James Hanley)

- 2010-, Michelle Bally, Ph.D., Non-steroidal anti-inflammatory drugs and cardiovascular risk: An international patient-level meta-analysis (co-supervisor James Brophy)

- 2011-2013, Zhuo Yu Wang, M.Sc., Bias from ignoring between test covariance induced by a missing covariate in diagnostic test data (co-supervisor Lawrence Joseph)

- 2012-2015, Jiayi Ni, M.Sc., Exposure time window and protopathic bias: a simulation study (co-supervisor Elham Rahme)

- 2013-2015 Maarten van Smeden (from Julius Centre for Health Sciences and Primary Care, University of Utrecht, Netherlands), Methods for evaluating a diagnostic test in the absence of a gold-standard reference: Latent class models and composite reference standards,

- 2013-2018, Zhuo Yu Wang, PhD, Methods for diagnostic studies in the absence of a gold-standard reference (co-supervisor Lawrence Joseph)

†: Department of Mathematics & Statistics, McGill University
‡: Départment de Mathematiques & Statistiques, Univérsité de Montréal

Post-doctoral fellows

- Fouad El-Khoury, 2007, Meta-analysis of Fish Oil treatment for secondary prevention of heart disease

- Michael Bielinski, 2007, Meta-analysis of C-reactive protein for predicting risk of heart disease

- Yan Zhou, 2010-2012, Bayesian methods for evaluation of diagnostic tests

- Benjamin Rich, 2013-, Network meta-analysis

Visiting students

- Keith Chiu (Warwick University, United Kingdom), 2005, Systematic review and meta-analysis of electron beam computed tomography scores for predicting heart disease

- Suzanne Ligthart (Radboud University, Netherlands), 2006, Predictors of conclusions of cost-effectiveness analyses of drug eluting stents

- Floorje Vlemmix (Radboud University, Netherlands), 2006, Predictors of conclusions of cost-effectiveness analyses of drug eluting stents

- Maggy Wassef (Ulysses Program in Health Technology Assessment, Université de Montréal), 2008, Evaluation of a screening program for cervical cancer

Member of graduate student thesis committee

- 2001-2002, Neena Abraham, M.Sc., The effectiveness of sedation in the performance of diagnostic upper gastrointestinal endoscopy: A randomized controlled trial (Supervisor Jean-Paul Collett)

- 2006-2007, Hina Ansari, M.Sc., Inequities in Access to Health Care by Income and Private Insurance Coverage: A Longitudinal Analysis (Supervisor Amelie Quesnel-Vallée)

- 2006-2010, Genviève Cadieux, Ph.D., Automated syndromic surveillance: assessing and optimizing physician billing claims accuracy (Supervisor Robyn Tamblyn)

- 2009, Jonathan Afilalo, M.Sc., Frailty Assessment Before Cardiac Surgery (Jean-François Boivin)

- 2009-2012, Daphne Ling, Ph.D., Applications of new model-based approaches to evaluate interferon-gamma release assays for diagnosis of tuberculosis (Supervisor Madhukar Pai)

- 2010-2011, Lyndsay Richardson, M.Sc., Human Papillomavirus (HPV) DNA testing with cytology triage in cervical screening: Influence of revealed versus concealed HPV status (Supervisor Eduardo Franco)

- 2011-2015, Samuel Schumacher, Ph.D., Clinical Impact and Cost-Effectiveness of Point-Of-Care Molecular Tests for the Diagnosis of Tuberculosis in a High Burden Setting (Supervisor Madhukar Pai)

- 2015-2017, Tanya Murphy, Ph.D., Impact of Quebec daycare system on maternal and child health (Supervisors: Seungmi Yang and Jay Kaufman)

- 2015-, Oliver Lasry, Ph.D., Studying prevalence and treatment of traumatic brain injury using administrative data (Supervisors: David Buckeridge)

- 2018-, Kim Phan, Ph.D., Association between measures of arterial stiffness and pre-eclampsia (Supervisors: Styliani Daskalopoulou)

Internal examiner of graduate theses

- 2003, Andrew Kmetic, Ph.D., Methodologic issues in the analysis of data from a population based osteoporosis study: Adjusting for selection bias and measurement error

- 2003, Stephen Vida, M.Sc., An 18-month prospective cohort study of functional outcome of delirium in the elderly

- 2005, Mark Oremus, Ph.D., Use of medications in the Alzheimer's disease population: Physician and caregiver perspectives

- 2006, Khajak Ishak, Meta-analysis of multivariate outcomes: Concepts and Applications

- 2010, Ella Huszti, Ph.D., Markov modeling of disease progression and mortality

- 2012, Menglan Pang, M.Sc., A study of non-collapsibility of the odds ratio via marginal structural models and logistic regression models

- 2017, Kathryn Morrison, Ph.D., A methodological framework for environmental public health surveillance with a practical example in wildfire smoke

Examiner on PhD Protocol Defense

- 2006, Martin Ladouceur, Bayesian analysis of continuous diagnostic tests

- 2011, Lisa Ronald, Treatment of Active Tuberculosis and Latent Tuberculosis Infection in Quebec: A Population-Based Study and Cost-Effectiveness Analysis

- 2013, Luc Villandré, Bridging the gap between phylogenetic clusters and features of a sexual contact network

- 2014, Rebecca Burnes, New statistical methods for using confounders measured in a small subset to enhance the analysis of comparative effectiveness and safety of drugs in large administrative databases

- 2015, Yishu Wang, Improving accuracy of time-to-event analyses with time-varying drug exposures to account for exposure measurement errors and residual confounding

Pro-Dean on PhD Defense Committee

- January 2018, Joshua Sovechles, Department of Mining and Materials Engineering

Committee membership

- 2003-2006, Member of curriculum committee, EBOH

- 2004-2007, Member of research committee, Department of Radiology, MUHC

- 2008, Member of Biostatistics admissions committee, EBOH

- 2009, Member of biostatistics admissions committee, EBOH

- 2007-2009, Member of executive committee, Division of Clinical Epidemiology, MUHC

- 2014-2015, Member of recruitment committee for Boehringer-Ingelheim chair in Pharmacoepidemiology, EBOH

- 2016, Member of PhD Epidemiology Comprehensive Exam committee, EBOH

- 2017, Member of PhD Epidemiology Comprehensive Exam committee, EBOH

Seminar series organization

- 2000-2003, Department of Clinical Epidemiology and Community Studies, St. Mary's Hospital Centre

- 2004-2005, Division of Clinical Epidemiology, Royal Victoria Hospital

- 2005-2006, Technology Assessment Unit, MUHC

- October 2008, Division of Clinical Epidemiology, MUHC

- 2012-2013, Biostatistics Seminar Series, EBOH

- October 2013, Division of Clinical Epidemiology, MUHC