

Monica Mullin, MD, FRCPC, MPH

– monica.mullin@ucalgary.ca –

April 2026

Education

<i>Master of Public Health</i> University College London, England <ul style="list-style-type: none">Awarded with Distinction	2023-2025
<i>Interventional Pulmonology Fellowship</i> University College London Hospital, England <ul style="list-style-type: none">Supervisors: Drs. Ricky Thakrar and Neal Navani	2023-2025
<i>Clinical Investigator Program</i> University of British Columbia and University College London <ul style="list-style-type: none">SUMMIT study research fellow with lung cancer screening focusSupervisor: Professor Samuel Janes	2023-2025
<i>Respirology Subspecialty Residency</i> University of British Columbia, Vancouver BC	2021-2023
<i>Internal Medicine Residency</i> Queen's University, Kingston ON <ul style="list-style-type: none">Chief Resident	2018-2021
<i>Doctor of Medicine</i> Queen's University, Kingston ON	2014-2018
<i>Bachelor of Life Sciences</i> Queen's University, Kingston ON <ul style="list-style-type: none">Exchange semester at the University of Manchester, United KingdomDean's List with Distinction	2011-2014

Academic Awards

• Vancouver Medical, Dental and Allied Staff Association Outstanding Healthcare Professional Resident Award	2023
• Department of Medicine Professor's Award	2021
• Department of Medicine Clinical Skills Award PGY 3	2021
• Department of Medicine Clinical Skills Award PGY 2	2020
• Department of Medicine Clinical Skills Award PGY 1	2019
• Resident Research Day Award for Quality Improvement Project	2019
• Dr. Jennie Gillespie Drennan Medical Scholarship (\$30, 000)	2018
• Dr. Gary Diotallevi Memorial Award	2017
• Rattray Scholarship in Ophthalmology	2016
• Edgar Forrester Medical Entrance Scholarship	2014

- Manchester University Leadership Award 2014

Leadership Activities

- Division of Respiratory Wellness committee member 2025-now
- Chief Internal Medicine Resident 2020-2021
- Patient Safety Subcommittee Physician Representative 2019-2021
- Residency Program Committee Member 2020-2021
- Resident Innovation Team for Academic PGY1 Bootcamp 2019-2021
- Resident Innovation Team for Research 2019-2021
- President of Queen's Medicine Class of 2018 2015-2016
- Aesculapian Society: Queen's Medicine Governing Body Member 2015-2016
- Vice-President of Queen's Medicine Class of 2018 2014-2015

Grant Funding

- Geoffrey Ogram Memorial Research Grant Dec 2025
 - Award amount \$25,000
 - Co-applicant
- McClure Memorial Cancer Research Award Nov 2025
 - Award amount \$22,892
 - Co-applicant
- Dept of Medicine Start-up Funding Sep 2025
 - Award amount \$50,000
 - Principal investigator
- Dept of Medicine award in Quality improvement and patient safety 2019-2022
 - Award amount \$25,000
 - Co-applicant
- SEAMO Endowed Scholarship and Education Fund 2019-2021
 - Award amount \$14,300
 - Co-applicant

Supervision

- Billy Hall – Undergraduate dissertation, University College London 2024-2025
- Role: Primary supervisor
- Liam Stiles – Undergraduate summer project Columbia University 2025
- Role: Primary supervisor
 - Joint project with University College London

Publications + Scholarship

First Author

- *In review:* **Mullin ML**, Marston XL, Matthews H, Lavin J, Thakrar R. Diagnostic delays and imaging use in the lung cancer care pathway in England: A real-world study using nationally representative data. *BMJ Open Respiratory Research*. Mar 2026
- *In submission:* **Mullin ML**, Khaw CR, Bhamani A, Creamer AW, Verghese P, Predecki R, Patrick T, Naidu SB, Dickson JL, Horst C, Tisi S, Hall H, Warkentin

- MT, Tremblay A, Arthur-Darkwa E, McCabe J, Nair A, Devaraj A, Navani N, Hackshaw A, SUMMIT consortium, Janes SM. Prevalence of comorbidity and frailty with impacts on survival within a lung cancer screening study. *Thorax*. Mar 2026
- **Mullin ML**, Creamer AW, Bhamani A, Naidu SB, Verghese P, Predecki R, Khaw CR, Patrick T, Dickson JL, Horst C, Tisi S, Hall H, Quaife SL, Gyertson K, Hacker A, Farrelly L, McCabe J, Dawadi S, Nair A, Devaraj A, the SUMMIT consortium, Hackshaw A, Janes SM. Prevalence and influence of symptoms on malignancy risk in the SUMMIT study, a lung cancer screening trial. *CHEST*. Mar 2026
 - Graham RN*, Davies A*, **Mullin ML***, Gear D, Day AG, Weil B, Benafif S, Khaw CR, Selway-Clarke H, Popova B, Yamada D, Howlett SK, Galani S, Szmul A, Riddell A, Nair A, Krebs MG, Kalber T, Jacob J, Chowdary P, Jones JL, Sage B, Wheeler G, Kolluri K, Lowdell M, Forster MD, Janes SM. A first-in-human phase I clinical trial investigating the safety and efficacy of repeat dosing MSCTRAIL cell therapy in addition to chemotherapy and immunotherapy in patients with advanced lung cancer. *Cytherapy*. Feb 2026.
 - **Mullin ML**, Verghese P, Khaw CR, Creamer AW, Bhamani A, Predecki R, Dickson JL, Horst C, Tisi S, Hall H, Gyertson K, Arthur-Darkwa E, Farrelly L, McCabe J, Thakrar R, Nair A, Devaraj A, Navani N, Hackshaw A, The SUMMIT consortium, Janes SM. Upstaging of screen detected lung cancers during diagnostic assessment. *Thorax*. Jan 2026.
 - **Mullin ML***, Gertner J*, Shea R, Aslam N, Banks M, Ahmad OF, Sweis R, Graham D, Navani N, Thakrar R, Sehgal V. Combined oesophageal and airway stenting for malignant oesophageal strictures: A retrospective cohort study and development of a novel algorithm. *Frontiers in Gastroenterology*. June 2025.
 - **Mullin ML**, Thakrar R, and Navani N. Resources in the bronchoscopy suite and the utility of cryobiopsy. *African Journal of Thoracic and Critical Care Medicine*. February 2025.
 - **Mullin ML**, Dunwoody R, Navani N, Thakrar R. Successful multimodal endobronchial treatment of severe tracheobronchial amyloidosis. *BMJ Case Reports*. November 2024.
 - **Mullin ML**, Fernandez G, Marinescu DC, Zheng B, Wong AW, Assayag A, Fisher JH, Johannson KA, Khalil N, Kolb M, Manganas H, Marcoux V, Morisset J, Farrand E and Ryerson CJ. Impact of antigen exposure on outcomes and treatment response in fibrotic hypersensitivity pneumonitis. *CHEST*. December 2023
 - **Mullin ML**, Whitehead M, Loughheed DM, Brundage M, Eisenhauer E, Parker CM and Digby GC. Characterizing regional variability in lung cancer outcomes across Ontario – a population-based analysis. *Current Oncology*. September 2022.
 - **Mullin, ML** and Milne S. Vitamin D deficiency in chronic obstructive pulmonary disease. *Current Opinion in Pulmonary Medicine*. September 2022.
 - **Mullin, ML**, Churg, A, Ryerson CJ. Management of fibrotic hypersensitivity pneumonitis. *Current Opinion in Pulmonary Medicine*. September 2022.
 - **Mullin MLL**, Lu J, Sarkar M, Djerboua M, Velez M, Brogly SB, Terrault NA, Flemming JA. Pregnancy is not associated with an increased risk of decompensation, transplant or death in compensated cirrhosis. *International Journal of Hepatology*. July 2022.
 - **Mullin M**, Mehta A, Van Eeden S, Leung J. The Great Masquerade: A Rapidly Growing Pulmonary Nodule. Case Report. *Canadian Journal of Respiratory, Critical Care and Sleep Medicine*. December 2021.
 - **Mullin MLL**, Tran A, Golemic B, Stone C, Noseworthy C, O’Callaghan N, Parker C, Digby G. Improving Timeliness of Lung Cancer Diagnosis and Staging

Investigations through Implementation of Standardized Triage Pathways. J. Oncology Practice. October 2020.

Contributing Author

- *In submission:* Hackshaw A, Vaja S, Kang S, Dickson JL, Horst C, **Mullin ML**, Bhamani A, Creamer A, Hall H, Tisi S, Khaw CR, Predecki R, Verghese P, McCabe J, Farrelly L, Arthur-Darkwa E, Navani N, Callendar T, Devaraj A, Nair A, SUMMIT consortium, Janes SM. Examination of risk models in lung cancer screening in a UK (London) population using the SUMMIT Study. *Lancet Digital Health*. Mar 2026.
- *In submission:* Hackshaw A, Naylor-Leyland G, Dickson JL, Horst C, **Mullin ML**, Bhamani A, Creamer A, Hall H, Khaw CR, Predecki R, Verghese P, Tisi S, McCabe J, Arthur-Darkwa E, Navani N, Devaraj A, SUMMIT consortium, Nair A, Janes SM. Prognosis of screen-detected advanced lung cancer compared to those diagnosed clinically, within a screening programme. *Lancet Oncology*. April 2026.
- *In submission:* Patrick T, Bhamani A, Naidu SB, **Mullin ML**, Cheng D, Predecki R, Khaw CR, Verghese P, Tisi S, Creamer A, Hall H, Dickson JL, Horst C, Arthur-Darkwa E, Selvarajah B, Hackshaw A, Hingorani AD, McCabe J, Navani N, Doffman SR, Jacob J, SUMMIT consortium, Nair A, Hurst JR, Patel RS, Janes SM. Association of coronary artery calcification in lung cancer screening with major adverse cardiovascular events. *AJRCCM*. Nov 2025.
- Warkentin MT, Graff K, Brenner DR, Teare G, **Mullin ML**, Hampton L, Yang H, Tremblay A. Impact of PLCOm2012 Ethnicity Model Variations on Eligibility for the Alberta Lung Cancer Screening Program. *JTO Clinical and Research Reports*. April 2026.
- McCabe J, Cheng DO, Crossingham A, Choudary J, Quaife SL, Patrick T, **Mullin M**, Bhamani A, Arthur-Darkwa E, Walker A, Nair A, Hackshaw A, SUMMIT consortium, Janes SM, Jacobs J, Sudre CH. Exploring fairness and performance drivers across state-of-the-art pulmonary nodule detection algorithms. *MELBA Journal*. Dec 2025.
- *In submission:* Cheng DO, McCabe J, Patrick T, Chapman R, Wang S, Yang T, Szmul A, Azimbagirad M, Shahab Aslani S, **Mullin ML**, Naidu SB, Khaw CR, So ACP, Navani N, Nair A, Hurst JR, Altmann A, Pennycuick A, Alexander AC, Oxtoby N, Young A, Sperrin M, Janes SM, Jacob J. Imaging-based biological age estimation predicts competing mortality risk in lung cancer screening. *Lancet Digital Health*. Dec 2025.
- *Under review:* Stretch B, Solanki P, Bekele S, Craig R, **Mullin ML**, Ghattas S, Dunwoody R, Navani N, Thakrar R, O'Carroll J. Perioperative management in robotic navigational bronchoscopy: a retrospective observational cohort study. *Anaesthesia Reports*. Mar 2026.
- *In submission:* Bhamani A, Khaw CR, Predecki R, Verghese P, Creamer A, Dickson JL, Horst C, Hall H, Tisi S, **Mullin ML**, Patrick T, McCabe J, Hacker AM, Farrelly L, Arthur-Darkwa E, Navani N, Devaraj A, Hackshaw A, SUMMIT consortium, Nair A, Janes SM. Using morphology and a 3cm referral threshold for anterior mediastinal lesions in lung cancer screening is safe – a longitudinal cohort study. *Lung Cancer*. October 2025.
- *In submission:* Bhamani A, **Mullin ML**, Khaw CR, Predecki R, Verghese P, Creamer A, Dickson JL, Horst C, Hall H, Tisi S, Patrick T, McCabe J, Gyertson K, Dawadi S, Hacker AM, Farrelly L, Arthur-Darkwa E, Navani N, Brown J, Devaraj A, Nair A, Jacob J, Hackshaw A, SUMMIT consortium, Gupta RK, Janes SM. Prevalence, clinical significance, and prognosis of bronchiectasis identified through lung cancer

screening: a prospective, observational cohort study. *European Respiratory Journal*. September 2025.

- Selvarajah B, Bhamani A, Azimbagihrad M, Ozaltin B, Egashira R, McCabe J, Smallcombe N, Verghese P, Predecki R, Creamer A, Dickson JL, Horst C, Tisi S, Hall H, Khaw CR, **Mullin ML**, Gyertson K, Hacker AM, Farrelly L, Devaraj A, Nair A, Yuneva M, Jenkins RG, Chambers RC, Porter JC, Hackshaw A, SUMMIT Consortium, Janes SM, Jacob J. Differentiating interstitial lung abnormalities and interstitial lung disease in lung cancer screening. *BMJ Open Respiratory Research*. September 2025.
- Bhamani A, Creamer A, Verghese P, Predecki R, Horst C, Tisi S, Hall H, Khaw CR, **Mullin ML**, McCabe J, Gyertson K, Bowyer V, Arancon D, Eng J, Bojang F, Levermore C, Hacker AM, Arthur-Darkwa E, Farrelly L, Patel A, Lock S, Shaw A, Banka R, Bhowmik A, Ekeowa U, Mangera Z, Valerio C, Ricketts WM, Mohammed A, O'Shaughnessy T, Navani N, Quaife SL, Nair A, Devaraj A, SUMMIT consortium, Dickson JL, Hackshaw A, Janes SM. The SUMMIT Study: Baseline results of a large-scale lung cancer screening study. *The Lancet Oncology*. Mar 2025.
- Hardavella G, Frille A, Sreter KB, Atrafi F, Yousaf-Khan U, Beyaz F, Kyriakou F, Bellou E, **Mullin M**, Janes S. Lung cancer screening: where do we stand? *Breathe*. June 2024.
- Wells JC, **Mullin ML**, Melosky B, Ho C, Sun S. First line osimertinib for advanced EGFR mutant lung cancer: outcomes of patient's ineligible for the FLAURA clinical trial. *Lung Cancer*. January 2024.
- Egan R, Baumhour J, **Mullin MLL**, Wilkinson A, Awad S, Dalgarno N, Coderre-Ball A, Digby G. Resident and attending physicians' perceptions of an Internal Medicine Quality Improvement and Patient Safety Program: Informing a Competency-Based Curriculum. *Journal of Health Quality*. February 2021.
- Golemiec B, **Mullin MLL**, Linton S, Howard T, O'Callaghan N, Dhillon RG, DaBreo D, Nguyen G, Parker CM, Digby GC. Expediting Specialist Referral for Patients with Suspected Lung Cancer through Standardization of Radiologist Reporting: A Quality Improvement Initiative. *Canadian Journal of Respiratory, Critical Care and Sleep Medicine Journal*. August 2021.
- Flemming JA, **Mullin MLL**, Lu J, Sarkar M, Djerboua M, Velez M, Brogly SB, Terrault NA. Maternal, infant and liver-related outcomes in pregnant women with cirrhosis: A population-based cohort study. *Gastroenterology*. November 2020.

Invited Presentations

- Updates from the World Conference on Lung Cancer and the European Society of Medical Oncology conferences. Calgary, Canada. November 2025.
- Robotic bronchoscopy updates. Lung cancer allied health education day. Calgary, Canada. October 2025.
- Remaining questions in lung cancer screening. CHEST annual meeting. Chicago, USA. October 2025.
- Advances in low-dose CT screening for lung cancer in Alberta. Lung Cancer Canada patient engagement day. Calgary, Canada. September 2025.
- The SUMMIT Study, a lung cancer screening trial at the Rescue Lung Society. Boston, USA. October 2024.
- Case presentation of radial guided peripheral lung lesions at The Canadian Lung Cancer Conference, Vancouver, Canada. February 2023.

Oral Abstract Presentations

- **Mullin ML**, XL Marston, J Lavin, R Thakrar. Real-world evidence on the journey of lung cancer patients in England: Delays in diagnosis and treatment. The British Thoracic Society Winter Meeting. London, UK. Nov 2024.
- **Mullin ML**. Invited presentation on The SUMMIT Study, a lung cancer screening trial at the Rescue Lung Society. Boston, USA. October 2024.
- **Mullin ML**, Bhamani A, Verghese P, Predecki R, Khaw CR, Creamer A, Dickson JL, Horst C, Tisi S, Hall H, Gyertson K, Hacker A, Farrelly L, McCabe J, Hackshaw A, Janes SM. Respiratory symptoms present when assessed for the SUMMIT study, a lung cancer screening study. The American Thoracic Society Annual Meeting. San Diego, USA. May 2024.
- **Mullin M**, Joy G and Shaipanich T. Case presentation of radial guided peripheral lung lesions at The Canadian Lung Cancer Conference, Vancouver, Canada. February 2023.
- **Mullin M**, Golmeic B, Tran A, Noseworthy C, Parker CM, Digby G. Impact of Pre-Ordered Stating Tests on Timeliness of Lung Cancer Diagnosis and Staging: A Quality Improvement Initiative. World Conference on Lung Cancer, Barcelona, Spain. September 2019
- **Mullin M**, T. Howard, G. Dhillon, Digby G. Impact of Radiologist Recommendations on Timeliness of Lung Cancer Referral: Baseline Data to Guide a Quality Improvement Initiative. World Conference on Lung Cancer, Barcelona, Spain. September 2019
- **Mullin M**, Lu J, Djerboua M, Sarkar M, Velez M, Brogly S, Terrault NA, Flemming JA. Low Risk of Hepatic Decompensation in Pregnant Women with Cirrhosis: A Population-based Cohort Study. Presented on behalf of Mullin M by Flemming J. The Liver Meeting, Boston USA. November 2019. Also included in Press Conference with published article.

Poster Presentations:

- **Mullin ML**, Dunwoody R, Ghattas S, O'Brien S, Lansing M, Shea R, Estenor D, Khirya R, Gorur P, Navani N, Thakrar R. Operator outcomes and learning for robotic-assisted bronchoscopic biopsies of pulmonary nodules. British Thoracic Oncology Group Annual Meeting, Belfast, Northern Ireland. March 2025.
- **Mullin ML**, Verghese P, Khaw CR, Creamer A, Bhamani A, Predecki R, Dickson JL, Horst C, Tisi S, Hall H, Gyertson K, Hacker A, Farrelly L, McCabe J, Nair A, Devaraj A, Hackshaw A, Janes SM. Stage shift in lung cancers found during a screening study: Early detection is only half the battle. British Thoracic Oncology Group Annual Meeting, Belfast, Northern Ireland. March 2025.
- **Mullin M**, Maneas E, Stoica A, Desjardins A, Thakrar R, Navani N. Evaluation of a novel simulator for linear and radial EBUS at University College London: The Lung Phantom. British Thoracic Society Annual Meeting, Belfast, Ireland. April 2024.
- **Mullin M**, Whitehead M, Lougheed DM, Brundage M, Eisenhauer E, Parker CM and Digby GC. Characterizing regional variability in timeliness of care and health resource utilization during the diagnostic phase of lung cancer across Ontario – a population-based analysis. Canadian Respiratory Conference, Victoria, Canada. April 2022.
- **Mullin M**, Whitehead M, Lougheed DM, Brundage M, Eisenhauer E, Parker CM and Digby GC. Characterizing regional variability in lung cancer outcomes across Ontario

- a population-based analysis. CHEST Annual Meeting, October 2021. (Virtual Poster Presentation)
- **Mullin M**, Whitehead M, Lougheed DM, Brundage M, Eisenhauer E, Parker CM and Digby GC. Characterizing regional variability in health resource utilization during the diagnostic phase of lung cancer across Ontario – a population-based analysis. CHEST Annual Meeting, October 2021. (Virtual Poster Presentation)
- **Mullin M**, Linton S, Parker CM, Noseworthy C, O’Callaghan N, Reid K, Digby GC. Impact of a Standardized Triage Pathway on Assignment to Physician Specialty, Timeliness of Care, and Health System Efficiency for Patients with Lung Cancer. CHEST Annual Meeting, Chicago, USA. October 2020 (Virtual Poster Presentation).
- **Mullin M**, Durbin J, Aberumand B, Gauthier S. Where did it Go? A Common Complication in an Abnormal Location. Ted Gilles Clinical Vignette Case Report. Canadian Society of Internal Medicine Conference Halifax, Canada. October 2019.
- **Mullin M**, Tran A, Noseworthy C, Parker CM, Digby G. Improving Timeliness of Lung Cancer Diagnosis and Staging Investigations in the Lung Diagnostic Assessment Program through Implementation of Standardized Triage Pathways. Canadian Respiratory Conference, Ottawa Canada. Apr 2019. (Facilitated Poster)
- **Mullin M**, Lu J, Djerboua M, Sarkar M, Velez M, Brogly S, Terrault NA, Flemming JA. Low Risk of Hepatic Decompensation in Pregnant Women with Cirrhosis: A Population-based Cohort Study Pilot. Resident Research Day March 2019.
- **Mullin M**, Bhatia M, Pichin S, R Fitzpatrick. Curriculum to Cookbook: Transforming Nutrition Education for Medical Students. Canadian Conference on Medical Education, Winnipeg Canada. April 2017. (Facilitated Poster)
- **Mullin M**, Laupacis M, Solaja O, Shyam V. Magnesium Sulfate as a Supplement in Adductor Canal Blocks for Pain Control After Total Knee Arthroplasty. Queen’s Medical Student Research Showcase. September 2016.

Teaching Experience

- Respiratory Academic day 2025
 - Lung cancer: pulmonary nodules
- Robotic Bronchoscopy Program 2024
 - Anaesthesia department educational seminar at UCLH
- Peripheral Bronchoscopy Live Course 2024
 - Skills station and live case presenter
- Clinical Skills and respiratory teaching for medical students 2023-2025
 - Teaching to undergraduate medical students at UCL
- Lecturer for Clinical Cancer Module 2023-2024
 - UCL undergraduate course, lung cancer screening lecture
- CT Chest teaching for Internal Medicine residents 2022-2023
 - Monthly sessions on approach to CT chest, including academic half day
- Quality Improvement Rounds 2018-2021
 - Created and organized by the Patient Safety and Quality Improvement education committee to create peer and faculty lead rounds to teach the basics of quality improvement
- Case Conference Rounds 2020-2021
 - Case based teaching run weekly by the chief medicine residents
- JAMA Rounds for Medical Students 2018-2019

- Prepared and delivered weekly rounds on JAMA clinical exam series to teach physical exam techniques to medical students
- Medical Student Tutor for Queen's PGME 2018-2020
 - Elected by the department of medicine to tutor undergraduate medical students in all areas of medicine based on prior academic achievements while at Queen's
- BAMS Student Leader 2016-2018
 - Professionalism curriculum developed and lead by upper year medical students to encourage discussion amongst pre-clerkship students
- Anatomy Lab Prosector and Medical Student Educator 2015