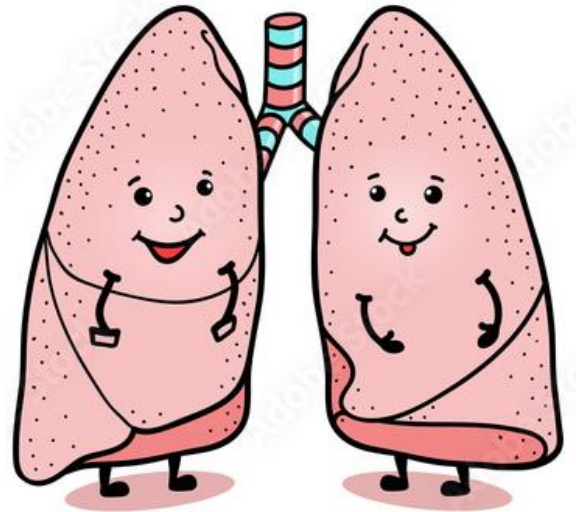

THORACIC SURGERY

Join us to explore the transformative research happening within the Division of Thoracic Surgery.

*As surgeons, we redefine patient care daily,
and as researchers, our impact extends far
beyond the operating room.*

At the heart of our division lies a commitment to both clinical and scientific research, shaping the future of thoracic care. We nurture aspiring medical students, residents, and graduate students, empowering the next generation to revolutionize academic medicine.



Our research methodologies span a spectrum, assessing the quality and efficacy of thoracic surgical interventions for individuals and populations alike. Our pursuit is to intertwine health services research with the evolution of thoracic surgical care, focusing on clinical outcomes, care quality, and cost-effectiveness to define the gold standard in academic thoracic surgery.

Delve deeper, and you'll discover our cutting-edge translational research laboratory. Here, our scientists dissect the biological intricacies of thoracic diseases. In collaboration with Dr. Zhaolin Xu from Dalhousie University's Department of Pathology, we've established the QEII Lung Tumour Bank. Since its inception in 2005, this repository stands as one of the nation's largest human lung cancer tumour banks. It serves as a cornerstone for research into the genetic landscape of lung cancer, correlating genetic profiles with pathological tumor traits, treatment responses, and overall prognoses. Leveraging state-of-the-art organoid models for precision medicine, we simulate and study patient-specific responses to treatments, revolutionizing our approach to personalized care.

Securing a substantial grant exceeding \$5 million from the Canadian Cancer Society has empowered us to reshape the landscape of lung cancer research. Our focus is on unraveling the impact of environmental factors contributing to lung cancer among non-smokers, revolutionizing our understanding and enhancing early detection strategies. This initiative aims to pioneer novel pathways for early intervention, dedicated to preserving lives and delivering individualized care.

Curious to explore further or join us? Please reach out to Dr. Alison Wallace at alison.wallace@nshealth.ca to learn more about research opportunities within the Division of Thoracic Surgery.