

Dr. David Mikulus

Senior Scientist at University Health Network

Toronto, ON, CA

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Biography

Dr. Mikulis is a translational researcher who has shown the ability to apply imaging methods in novel ways with impact in clinical practice. Perhaps the best example of this is his contribution to stroke imaging where permeability measurement in acute ischemic has now become a very important topic being taken up as a priority by major researchers and funding agencies. It has the potential to extend the treatment window for thrombolysis (patients presenting greater than 6 hours after stroke but with normal permeability would theoretically be candidates for thrombolysis currently prohibited under current treatment protocols). He has also developed an important technology enabling quantitative measurement of cerebrovascular response that is making an impact on treatment selection in patients with cerebrovascular disease and could help to distinguish vascular from non-vascular dementia. Maturation of these tools is leading to changes in clinical practice.

Dr. Mikulis joined the Neuroradiology Staff at the University Health Network in 1991 where he is currently the Director of the Functional Brain Imaging Lab in the Joint Department of Medical Imaging at the University Health Network. He has over 215 peer reviewed scientific publications, has had the pleasure of supervising over 40 students toward successful completion of their graduate degrees (MSc and PhD), and was recently awarded the 2015 University of Toronto Department of Medical Imaging Faculty Research Award for outstanding research contributions including publications, peer reviewed funding, thesis supervision of degree candidates, and innovation (patents).

Industry Expertise

Research, Health Care - Services, Education/Learning

Areas of Expertise

Medical Imaging, Neuroimaging, Clinical Research, Healthcare Management, Healthcare Information Technology, Neuroscience, Medical Educaion, Clinical Trials, Radiology, Project Management, Stroke

Affiliations

American Society of Functional Neuroradiology

Education

Tufts University
M.D. Medicine

Accomplishments

Faculty Research Award

Awarded by the University of Toronto Department of Medical Imaging.

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