



www.neuroethics.ca

Who We Are

The Neuroethics New Emerging Team (NET) was created in 2003 in response to emerging neuroscience and technologies. The NET is funded by the Canadian Institutes of Health Research (CIHR). As is fitting for an interdisciplinary field, members come from a variety of backgrounds, including ethics, law, neuroscience and psychology, as well as established institutions across Canada in Halifax, Winnipeg and Montreal.



Our Current Projects

We started with a focus on a variety of related research projects examining legal and ethical issues in paediatric neuroimaging with an emphasis on Magnetic Resonance Imaging (MRI). For example, we have been working to develop techniques to reduce children's fear and movement during MRI, paying particular attention to children with developmental disabilities. We have also been developing processes to manage sedation, unanticipated findings, and therapeutic misconception in paediatric MRI research.

NET Objectives

The NET's first objective is to examine ethical issues raised by neuroscience with the creation of the first national neuroimaging ethics research team. The knowledge gained will increase Canada's ability to deal with significant, novel, and pressing ethical issues arising from recent advances in the field of neuroimaging. Our second objective is to build a NET that draws on the power of diversity and collaboration. Thirdly, we aim for timely dissemination and translation of the NET's research findings.



PUBLICATIONS

Published

- “Safety First: Recognizing the Managing of Risks to Child Participants in Magnetic Resonance Imaging Research” Matthias Schmidt and Jocelyn Downie (2009) 16 *Accountability in Research* 153-173.
- “Eligibility for Organ Donation: A Medico-Legal Perspective on Defining and Determining Death” Jocelyn Downie, Matthew Kutcher, Chantelle Rajotte, & Alison Shea (2009) *Canadian Journal of Anesthesia* July 9, 2009, e-publication ahead of print.
- “Canadian Research Ethics Boards, MRI Research Risks, and MRI Risk Classification” Jennifer Marshall and Michael Hadskis (2009) 31:4 *IRB: Ethics & Human Research* 1-7.
- “Respectful Involvement of Children in Medical Decision-Making” in Peter Singer, ed., *The Cambridge Textbook of Bioethics* (Cambridge: Cambridge University Press, 2008) 121-126.
- “The Therapeutic Misconception: A Threat to Valid Parental Consent for Paediatric Neuroimaging Research” Michael Hadskis, Nuala Kenny, Jocelyn Downie, Matthias Schmidt, and Ryan D’Arcy (2008) 15:3 *Accountability in Research* 133-151.
- “Promises and Perils of Cognitive Performance Tools: A Dialogue” Erik Viirre, Françoise Baylis, and Jocelyn Downie (2007) Vol. 11 *Technology*.
- “A Comprehensive Analysis of MRI Research Risks: In Support of Full Disclosure” Jennifer Marshall, Toby Martin, Jocelyn Downie, and Krisztina Malisza (2007) 34:1 *The Canadian Journal of Neurological Sciences* 11-17.
- “Paediatric MRI Research Ethics: The Priority Issues” Jocelyn Downie, Matthias Schmidt, Nuala Kenny, Ryan D’Arcy, Michael Hadskis, and Jennifer Marshall (2007) 11673 *Journal of Bioethical Inquiry* 85-91.
- “Paediatric Neuroimaging Ethics” Jocelyn Downie and Jennifer Marshall (2007) 16:2 *Cambridge Quarterly of Healthcare Ethics* 147-160.
- “Inadmissible, Eh?” Jocelyn Downie and RONALDA MURPHY (2007) 7:9 *The American Journal of Bioethics*.
- “Finding the Right Compass for Issue-Mapping in Neuroimaging” Jocelyn Downie and Michael Hadskis (2005) 5:2 *The American Journal of Bioethics*.

Forthcoming

- “Reactions of Young Children to the MRI Scanner Environment” Krisztina Malisza, Toby Martin, Deborah Shiloff & C.T. Yu *Magnetic Resonance in Medicine* [forthcoming 2010].
- “Communication of Unknown Harms in MRI Research” Jennifer Marshall *Accountability in Research* [forthcoming 2010].
- “Will the Brain Ever Take the Stand? Canadian Law and the Admissibility of Neurotechnological Lie Detection Evidence” Matthew Kutcher, Victoria Apold, and Jocelyn Downie *Criminal Law Quarterly* [forthcoming 2010].
- “Neuroethics Case Study” Michael Hadskis in United Nations Educational Scientific and Cultural Organization (UNESCO) *Ethics in Research* [Haifa: UNESCO, forthcoming 2010].
- “Paediatric Neuroimaging Research” Michael Hadskis and Matthias Schmidt in Judy Illes and Barbara Sahakian, eds., *Oxford Handbook of Neuroethics* [Oxford: Oxford University Press, forthcoming 2010].

In Progress

- “One Step Forward, Two Steps Back: A Charter Analysis of s.39 of the Nova Scotia *Involuntary Psychiatric Treatment Act*” Jacquelyn Shaw
- “This is Your Brain on Poverty: Neuroscience Research and the Social Determinants of Health” Matthew Kutcher and Magda Szumilas
- “Scanning the Issues: Incidental Findings in Magnetic Resonance Imaging” Michael Hadskis and Jennifer Marshall
- “MRI Research and the Minimal Risk Standard” Jennifer Marshall, Matthias Schmidt, Jocelyn Downie, Michael Hadskis, and Ryan D’Arcy
- “Organizing Neurogenetics” Jennifer Marshall
- “Watch Your Language: A Review of the Use of Stigmatizing Words and Phrases by Canadian Judges” Jocelyn Downie and Michelle Black
- “*Caveat Emptor et Venditor*: Legal Liability Associated with Ritalin Use by College and University Students” Jocelyn Downie and Fiona Campbell
- “The Truth, the Whole Truth, and Nothing but the Truth: The Admissibility of fMRI Evidence in Canadian Courts” RONALDA MURPHY, Matthew Kutcher, Jocelyn Downie, and Victoria Apold
- “Grand Challenges in Neuroethics” Victoria Apold and Jocelyn Downie
- “A Review of Motion Reduction Strategies in Paediatric Imaging” Krisztina Malisza and Lindsay Woods-Frolich
- “Training Children to Reduce Motion and Increase Success of MRI Scanning ” Krisztina Malisza and Toby Martin