A DECADE OF NEUROIMAGING IN MeSH

CHARACTERIZE PUBLICATION RATES BETWEEN 2002 AND 2011
- Query PubMed for indexed articles on neuroimaging and minimally conscious states
- Mean growth rate of publications per year and change in growth rate each year

EXAMINE AUTHOR INTERCONNECTIONS
- Map co-authorships between individual researchers
- Map article citations in related works

PROVIDE CONTENT ANALYSIS OF CLINICAL AND ETHICAL THEMES
- Schematize published classifications of brain-injured patients
- Analyze the nature and extent of clinical discussions

RESULTS

- Number of authors who had never published before in this domain:
  - 92% in 2003
  - 67% in 2011
  - \( \frac{2}{3} \) of all current authors are first time authors
  - Since 2007, 80% of authors had not published during the preceding three years
  - The average number of authors per paper has also increased from 1 in 2002 to 6 in 2011

311 papers
MeSH keywords: (minimally conscious states) and ([neuroimaging] or [magnetic resonance imaging] or [functional neuroimaging])

7% growth rate overall from 2005 to 2011

Co-Citation Graph
Most frequently cited papers between 2000 and 2005

AUTHOR INTERCONNECT

Most prominent author (eigenvector centrality 1.0)

Method to generate graphs
PubMed query: “minimally conscious” and “neuro*”)" Export to CiteSpace for pruning step and to Gephi software for visualization

Content and Clinical Focus
From the 311 papers
- 32 were open access and among them 15 were primary research reports
- 8 of which featured clinical discussions

Different levels of granularity used to describe levels of consciousness in patient participants.

100% of non-primary research papers featured clinical discussions

Supported by CIHR #120257, #85117

www.neuroethicscanada.ca Full article at bit.ly/1gDEpmC