







# Aging Project 2016 Update DECEMBER 2016

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#### **Table of Contents**

Project Synopsis	2
Research Activities	3
Knowledge User Engagement	
Scientific Activities	
Author Information	9

# **Acknowledgements**

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# **Project Synopsis**

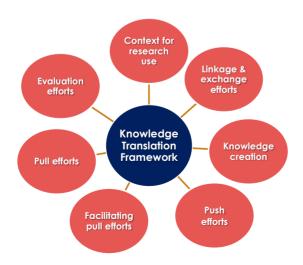
Adults with intellectual and developmental disabilities (IDD) face unique aging challenges, and early identification of frailty may help to ensure timely and appropriate supports. This study aimed to improve community care and clinical outcomes of adults with IDD who are frail or at risk of frailty by informing the development and use of a tool to measure frailty in this population.

It is important to understand why and how to measure frailty in adults with IDD in practice.

The Canadian Frailty Network-funded project aimed to answer the following questions:

- (1) What does the literature say about frailty and IDD?
- (2) What can we learn from other jurisdictions about implementing a frailty measure for persons with IDD in Ontario?

The World Health Organization (WHO) Knowledge Translation Framework for Ageing and Health guided our approach to understanding uptake of frailty measures into policy and practice.



#### **Research Activities**

# Objective 1: What does the literature say about frailty and IDD?

A scoping review of the literature related to frailty among aging adults with IDD was conducted. Seventeen publications of original research published between 2000 and December 31st, 2015 were retrieved. Only four groups have been involved in this work around the world: one in the Netherlands, one in Austria, one in Taiwan and our team in Canada.

#### Who is most likely to be frail?

Several studies viewed frailty as an outcome of interest and reported associations with many factors such as age, gender and level of intellectual disability. The presence of dementia, Down syndrome, mental illness or addiction, and loss of skeletal muscle mass and strength were also positively associated with frailty.

#### What can frailty tell us about an individual?

The research reviewed indicated that among adults with IDD, frailty reduces survival in the community, is correlated with a decrease in functioning at follow-up, and increases in future medication use and in care intensity, including hospitalization and long-term care admission.

#### **Next Steps**

Considering how frailty measures could be integrated in assessment and care planning and understanding how best to use knowledge of frailty at the population level for policy decisions are important next steps.

Frailty is associated with many negative outcomes in adults with IDD.

# Objective 2: What can we learn from other jurisdictions about implementing a frailty measure for persons with IDD in Ontario?

The second component involved key informant interviews to determine how frailty measures have been used to assess and monitor frailty among older adults with IDD.

The interviews, based on the seven elements of the World Health Organization Knowledge Translation Framework for Ageing and Health (see page 2), set out to understand the willingness to learn about aging among persons with IDD. Two individuals from each of the two Europe-based research teams who have published research on measures of frailty in populations with IDD were interviewed.

"The more extensive [our] knowledge of what has been done, the greater will be [our] power of knowing what to do."

Benjamin Disraeli

#### We learned that:

- to date, measures of frailty have not been used to support policy-making;
- to be implemented in practice, a frailty measure must be brief, relevant and it must inform care decision; and
- linkages between frailty researchers and practitioners and policy-makers are key to successful implementation of measures developed.



### **Knowledge User Engagement**

Engaging with knowledge users throughout the research process is important to produce results and products that are likely to be both directly relevant to and adopted by knowledge users. We worked closely with our primary knowledge users (Reena and the Ontario Partnership on Aging & Developmental Disabilities represented by Sandy Stemp) and engaged audiences more broadly through webinars, conferences and the Canadian Frailty Network (CFN)'s website.

#### End of Project Webinar for CFN, February 2016

The team provided an interactive webinar on implementing a measure for older adults with IDD.

#### Global Partnerships in Intellectual Disability Health: Enhancing research, policy and practice, August 2016

Dr. Hélène Ouellette-Kuntz was invited to Sydney, Australia to share work on aging and IDD with service providers, policy makers and researchers.

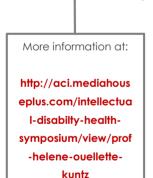
# Central Region Partnership on Aging and Developmental Disabilities Conference. October 2016

The team was invited to discuss complexities of aging in intellectual disabilities at an event sponsored by the Central West Network of Specialized Care, Homewood health Centre and Waterloo/Wellington BSO.

#### Other

The results of our work were summarized for key stakeholder groups: policy makers, families, and researchers. These are posted on the CFN's website.







#### **Scientific Activities**

#### Submissions to peer reviewed journals

We submitted two articles to peer-reviewed journals. We have included each article's abstract and citation.

#### Frailty and Intellectual and Developmental Disabilities: a Scoping Review

Background: Individuals with intellectual and developmental disabilities (IDD) are both living longer than in previous generations and experiencing premature aging. Improved understanding of frailty in this aging population may inform community supports and avoid negative outcomes.

Methods: The objective of this study was to review the literature on frailty and IDD and determine areas for future research and application. The methodological framework for a scoping review as developed by H. Arksey and L. O'Malley was applied to identify and select original studies published since 2000.

Results: Seventeen studies were identified; these were based on the work of researchers from four research programs. The studies utilized six measures of frailty, including two frailty indices, the VFQ-ID(-R), the frailty phenotype, and the frailty marker. Frailty was equally studied as an outcome and as predictor for other outcomes (e.g., mobility, falls, care intensity, institutionalization, and survival).

Conclusions: There is evidence of a growing interest in the measurement of frailty in aging adults with IDD. As in the general population, frailty in this group is associated with many negative outcomes. While a few measures have emerged, more work is required to replicate results, validate tools, and test the feasibility of applying frailty measures in practice and to inform policy.

McKenzie, K., Martin, L., & Ouellette-Kuntz, H. (2016) Frailty and Intellectual and Developmental Disabilities: a Scoping Review, <u>Canadian Geriatrics</u>
<u>Journal</u>, 19, 103-112. doi: http://dx.doi.org/10.5770/cgj.19.225

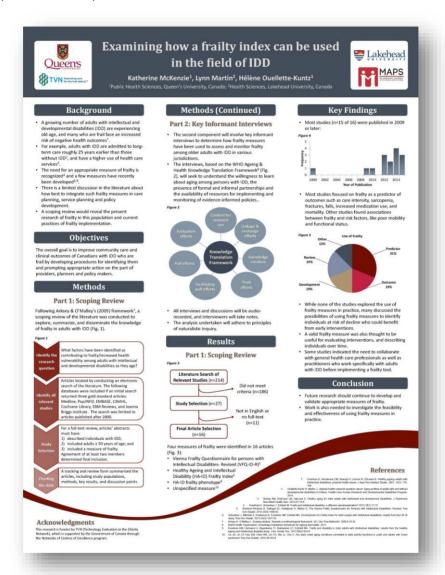
# Understanding implementations of frailty measures among adults with intellectual and developmental disabilities

Interest in frailty measures to inform clinical practice and policy decisions has been growing in recent years. Outside of Canada, two research teams in the field of intellectual and developmental disabilities (IDD) have developed frailty measures, although it is not known how these measures could be applied in practice. Key informants from each research team were interviewed about knowledge translation experiences. The transcripts were analyzed using the World Health Organization's Knowledge Translation Framework for Ageing and Health. Neither frailty measure has yet been used to support policy-making. To be implemented in practice, a frailty measure must be brief, relevant, and inform care decisions. The interviews revealed actions that should be taken prior to knowledge, including ensuring that the frailty measures are valid and have a clear purpose, and collaborating with appropriate knowledge users. Linkages between frailty researchers and practitioners and policy-makers are key to successful implementation of measures developed. Lessons from this study may be used to implement frailty measures in a Canadian population of older adults with intellectual and developmental disabilities.

McKenzie, K., Martin, L., & Ouellette-Kuntz, H. (2016). Understanding implementations of frailty measures among adults with intellectual and developmental disabilities. <u>Journal on Developmental Disabilities</u>, 22(2). See www.oadd.org/index.php?page=142

#### Poster presentations at conferences

We presented a poster at two conferences.



McKenzie, K., Martin, L. & Ouellette-Kuntz, H. (2015, September). Examining how a frailty index can be used in the field of IDD. Poster presented at:

- International Association for the Scientific Study of Intellectual and Developmental Disabilities Profound Intellectual and Multiple Disabilities Special Interest Research Group's Roundtable, Vasteras, Sweden.
- 3<sup>rd</sup> Annual TVN Conference Improving care for frail elderly Canadians, Toronto, Ontario, Canada.

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