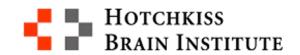
# Canadian Neuromuscular Disease Registry (CNDR)

Lawrence Korngut MD
Neuromuscular Neurologist & Professor
University of Calgary
CNDR National Principal Investigator









# Canadian Neuromuscular Disease Registry (CNDR)







A registry is a collection of standardized information about a group of individuals, such as those living with the same disease, that is used for a variety of specific purposes.

The CNDR facilitates research that benefits patients, families, and caregivers, and promotes the development of effective therapies for neuromuscular diseases.

# The CNDR: Who We Are

A Multi-Centre, National Collaborative Program



















**136+** investigators















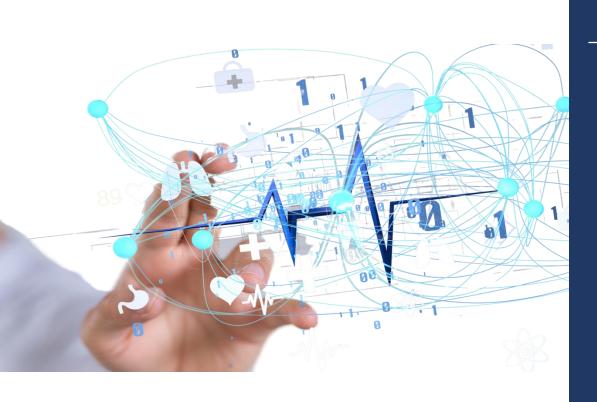






### **OUR GOAL:**

# CONFRONTING CHALLENGES FOR RARE DISEASES

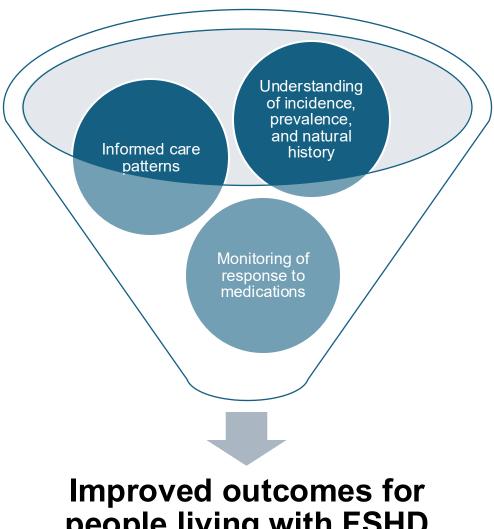


### RARE DISEASE CHALLENGES:

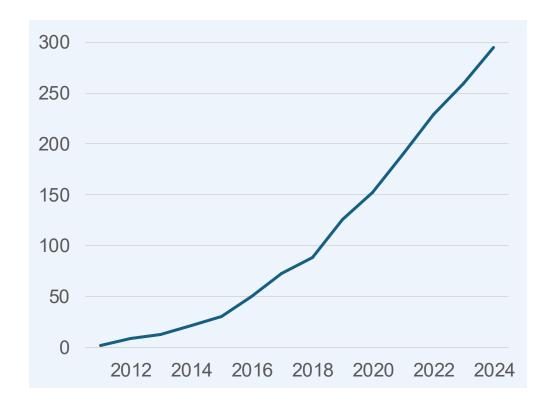
- Limited understanding of population demographics
- Varying quality and consistency of care across Canada
- Lengthy time to diagnosis
- Quality of life data is limited
- Patient voice and advocacy
- Access to treatment options

# **CNDR** Impact

### When data is used by the community:



people living with FSHD



300+ data usages so far, for research studies, feasibility assessments, international projects, research notifications, and more!



# **CNDR Impact** – Outcomes

#### ORIGINAL ARTICLE

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#### Provincial Differences in the Diagnosis and Care of Amyotrophic Lateral Sclerosis

Victoria L. Hodgkinson, Josh Lounsberry, Ario Mirian, Angela Genge, Timothy Benstead, Hannah Briemberg, Ian Grant, Walter Hader, Wendy S. Johnston, Sanjay Kalra, Gary Linassi, Rami Massie, Michel Melanson, Collee O'Connell, Kerri Schellenberg, Christen Shoesmith, Sean Taylor, Scott Worle, Lorne Zinman, Lawrence Korngut

The Canadian Journal of Neurological Sciences (2024), 1 doi:10.1017/cin.2024.1



#### **Original Article**

A Study on the Incidence and Prevalence of 5q Spinal Muscular Atrophy in Canada Using Multiple Data Sources

Tiffany R. Price<sup>1</sup>, Victoria Hodgkinson<sup>2</sup> , Grace Westbury<sup>2</sup>, Lawrence Korngut<sup>2</sup>, Micheil A. Innes<sup>3</sup>, Christian R. Marshall<sup>4,5</sup>, Tanya N. Nelson<sup>6,7</sup>, Lijia Huang<sup>8</sup>, Jillian Parboosingh<sup>9</sup> and Jean K. Mah<sup>1</sup>

Received: 25 November 2022 Accepted: 3 June 2023

OI: 10.1002/ppul.26554

ORIGINAL ARTICLE



Duchenne muscular dystrophy respiratory profiles from real world registry data

The Canadian Journal of Neurological Sciences (2025), 52, 119-1 doi:10.1017/cin.2024.49



#### **Original Article**

A Real-World Study of Nusinersen Effects in Adults with Spinal Muscular Atrophy Type 2 and 3  $\,$ 

Isabelle Côté<sup>1</sup>, Victoria Hodgkinson<sup>2</sup> 0, Marianne Nury<sup>3</sup>, Louis Bastenier-Boutin<sup>3</sup> and Xavier Rodrigue<sup>3,4</sup> 0

#### DATABASES

**Human Mutation** 

The TREAT-NMD DMD Global Database: Analysis of More than 7,000 Duchenne Muscular Dystrophy Mutations



Catherine L. Bladen, 1+† David Salgado, 2† Soledad Monges, 3 Maria E. Foncuberta, 3 Kyriaki Kekou, 4 Konstantina Kosma, 4.5
Hugh Davykins 8 Leanne Lamont 8 Anna J. Boy 7 Teodora Chamoya 8 Velina Guergueltcheya 8 Sonnelia Chan 9

#### Research Article

# International collaboration to improve knowledge on myotonic dystrophy type 2

□-9
□ The Author(s) 2024
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DOI: 10.1177/22143602241290353
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Journal of Neuromuscular Diseases

S Sage 4 10S Press

Stojan Peric<sup>1</sup>, Vukan Ivanovic<sup>1</sup>, Emma-Jayne Ashley<sup>2</sup>, Belen Esparis<sup>3</sup>, Craig Campbell<sup>4</sup>, Stephan Wenninger<sup>5</sup>, Darren Monckton<sup>6</sup>, Chiara Marini-Bettolo<sup>7</sup>, Helen Walker<sup>7</sup>, Stanislav Voháňka<sup>8</sup>, Kleed Cumming<sup>9</sup>, Anna Łusakowska<sup>10</sup>, Victoria Hodgkinson<sup>11</sup>, Marjan Cosyns<sup>12</sup>, Miriam Rodrigues<sup>13</sup>, Eppie Yiu<sup>14</sup>, Radim Mazanec<sup>15</sup>, Tanya Stevenson<sup>9</sup>, Anna Kostera-Pruszczyk<sup>10</sup>, Lawrence Korngut<sup>11</sup>, Marlène Jagut<sup>12</sup>,

#### Factors Associated With Health-Related Quality of Life in Children With Duchenne Muscular Dystrophy

Journal of Child Neurology 2016, Vol. 3 (7) 879-886 © The Author(s) 2016 Reprints and permission: sagepub.com/journal/sermissions.na DOI: 10.1177/0883073815627879 jcn.sagepub.com \$\$AGE

#### ORIGINAL ARTICLE

COPYRIGHT © 2017 THE CANADIAN JOURNAL OF NEUROLOGICAL SCIENCES IN

Survey of Canadian Myotonic Dystrophy Patients' Access to Computer Technology

### MUSCLE & NERVE

CLINICAL RESEARCH ARTICLE

# Chronic glucocorticoid management in neuromuscular disease: A survey of neuromuscular neurologists

Lora Stepanian BSc, Ruple S. Laughlin MD, Corey Bacher MD, Aaron Izenberg MD, Victoria Hodgkinson PhD, Adrienna Dyck MKin, Ari Breiner MD, MSc, Charles D. Kassardjian MD, MSc, FRCPC ▼ ... See fewer authors ∧

First published: 27 February 2024 | https://doi.org/10.1002/mus.28069

Journal of Neuromuscular Diseases xx (2021) x-x DOI 10.3233/JND-200617

#### Research Report

A Canadian Adult Spinal Muscular Atrophy Outcome Measures Toolkit: Results of a National Consensus using a Modified Delphi Method

Jeremy Slayter<sup>a,b</sup>, Victoria Hodgkinson<sup>c</sup>, Josh Lounsberry<sup>c</sup>, Bernard Brais<sup>d,c</sup>, Kristine Chapman<sup>f</sup>, Angela Genge<sup>d,c</sup>, Aaron Izenberg<sup>g</sup>, Wendy Johnston<sup>h</sup>, Hanns Lochmüller<sup>i,j</sup>, Erin O'Ferrall<sup>d</sup>, Gerald Pfeffer<sup>c,k</sup>, Stephanie Plamondon<sup>c</sup>, Xavier Rodrigue<sup>l</sup>, Kerri Schellenberg<sup>m</sup>, Christen Shoesmith<sup>a</sup>, Christine Stables<sup>f</sup>, Monique Taillon<sup>a,b</sup>, Jodi Warman Chardon<sup>i,j</sup>

254th ENMC international workshop. Formation of a European network to initiate a European data collection, along with development and sharing of treatment guidelines for adult SMA patients. Virtual meeting 28 – 30 January 2022

Maggie C Walteras Pascal Laforêth W Ludo van der Pol<sup>©</sup> Flena Pegoraro d on behalf of



# **CNDR's FSHD Program**



# An FSHD-specific Canadian data program has launched!





- **Breathing tests**
- Other conditions (eye, hearing, etc.)



Understand # of Canadians living with FSHD and geographic distribution

Facilitate FSHD clinical trials coming to Canada

Understand differences in care for ALL Canadians with FSHD

Understand disease progression (natural history)



# CNDR FSHD Program Progress

The current dataset will be revised as necessary to prepare for monitoring of therapy use and to align with the international community

#### 2023:

Community engagement around what data should be collected

### **2025**:

Program launch National program roll-out BetterLife Canada integration (soon!)









### **2024**:

Initial administrative approvals to capture this data

#### 2026:

Goal of data captured from 500 Canadians living with FSHD to inform research and advocacy

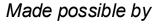


# Through a collaborative partnership between CNDR, FSHD Canada Foundation, FSHD Society, and Lumiio...



# is coming to







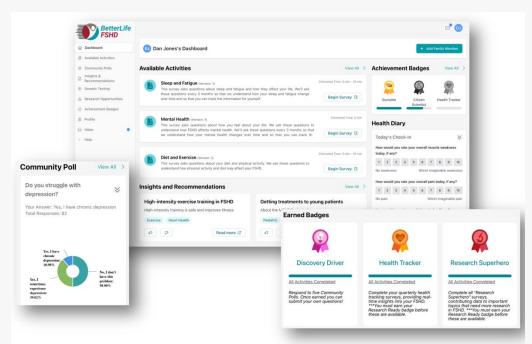






# A new patient engagement solution that accelerates realworld data and supports patient journey & care pathways





### A patient-driven health platform and research registry

Designed by and for patients, to meet needs at every step in the patient journey

Built-in health and symptom tracking, exports for HCPs aligned w/care guidelines coming soon Modern data infrastructure, core dataset alignment, use of validated PROs

Research portal to facilitate data requests and access

### Help patients live a better life with FSHD

- Aim 1: Provide patients with personalized resources and data tracking
- Aim 2: Engage and connect patients with personalized research opportunities

# Speed and improve FSHD research and therapeutic development

- Aim 3: Elevate the patient voice by performing patient experiencecentered research
- Aim 4: Enable multi-disciplinary research by securely sharing data with other researchers working to advance disease understanding, clinical trials, clinical care, and access in FSHD

# How will this work in Canada?

## **CNDR**

Clinical data from neuromuscular clinics across Canada (pediatric and adult)

Data is available for community use



Data reported directly by patients and families

Participants consent to share data and link to clinical data in CNDR

Data is available for community through CNDR to support research and advocacy

National and international collaborations and linkages



# Learn more about CNDR & sign up:

### Access our website:





### Contact our office:



