

**RÉSEAU
CANADIEN
DES MALADIES
RARES**



**CANADIAN
RARE
DISEASE
NETWORK**

~ Rare Lives, Shared Strength ~

Francois Bernier
On behalf of the CRDN Steering Committee

**one child
every child** 



**UNIVERSITY OF
CALGARY**



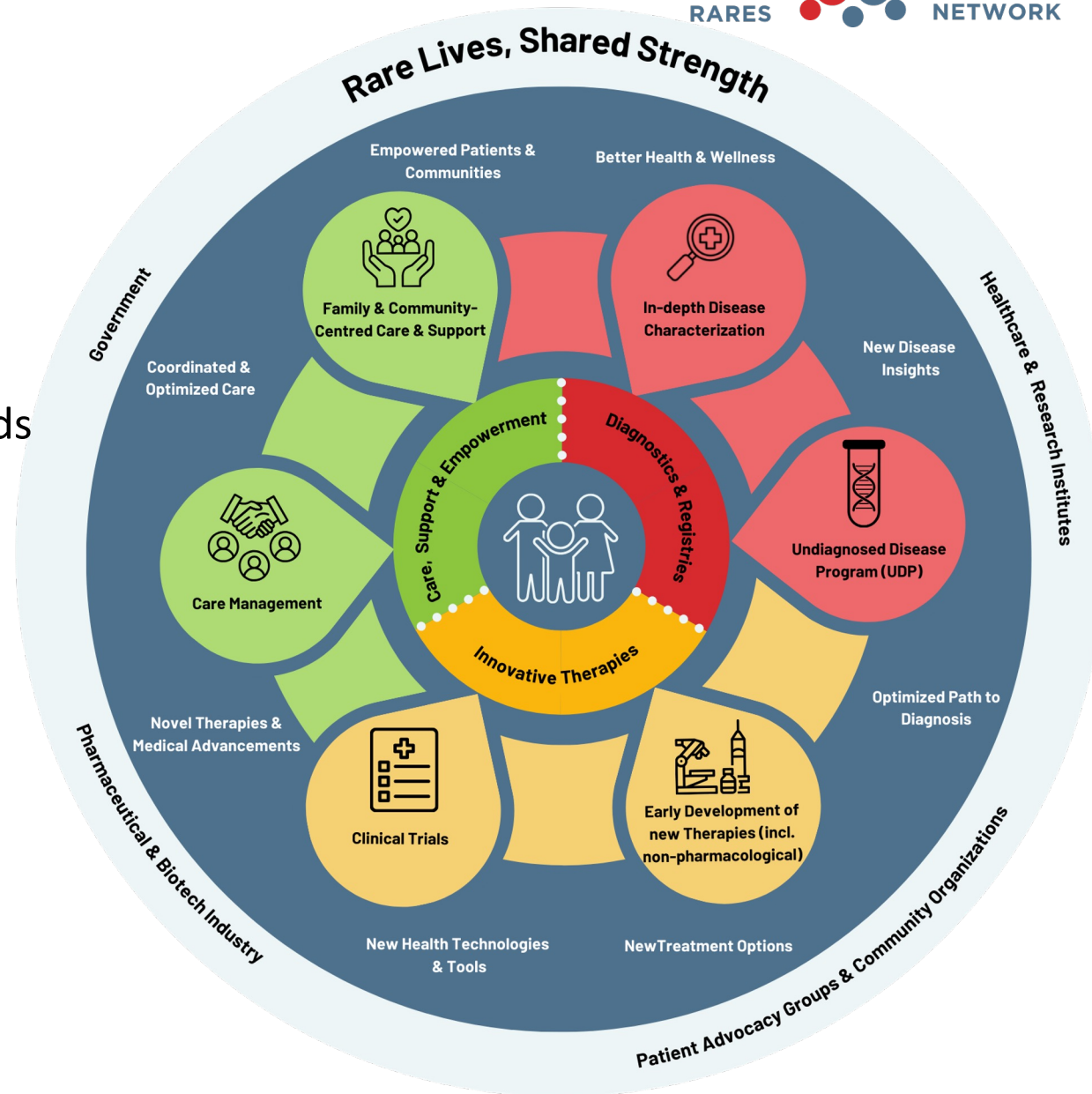
About CRDN

Our Vision: Innovative care and research in Canada so that all patients and families affected by a RD are empowered to live their full potential.

Our Mission: Establish a growing network that builds connections across geographies and disease boundaries to **enable timely diagnosis, screening** and **access to treatment**, and **facilitate best care, support and empowerment** for patients and their families in Canada, ultimately enhancing their quality of life.

Pillars of Our Work:

- **Diagnostics & Registries**
- **Innovative Therapies**
- **Care, Support & Empowerment**
- **National & International Collaboration**



Our Steering Committee Members



Francois Bernier
Alberta Children's
Hospital,
University of Calgary



Durhane Wong-Rieger,
Canadian Organization for
Rare Disorders (CORD)



Jim Dowling
Sick Kids Hospital,
University of Toronto



Kim M Boycott
Children's Hospital of
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Research Institute,
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Centre de recherche du
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Gail Ouellette
iRARE Centre, RQMO



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Hotchkiss Brain Institute,
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Jonathan Pratt
Regroupement Québécois
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Leanne Ward
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Ian Stedman
York University

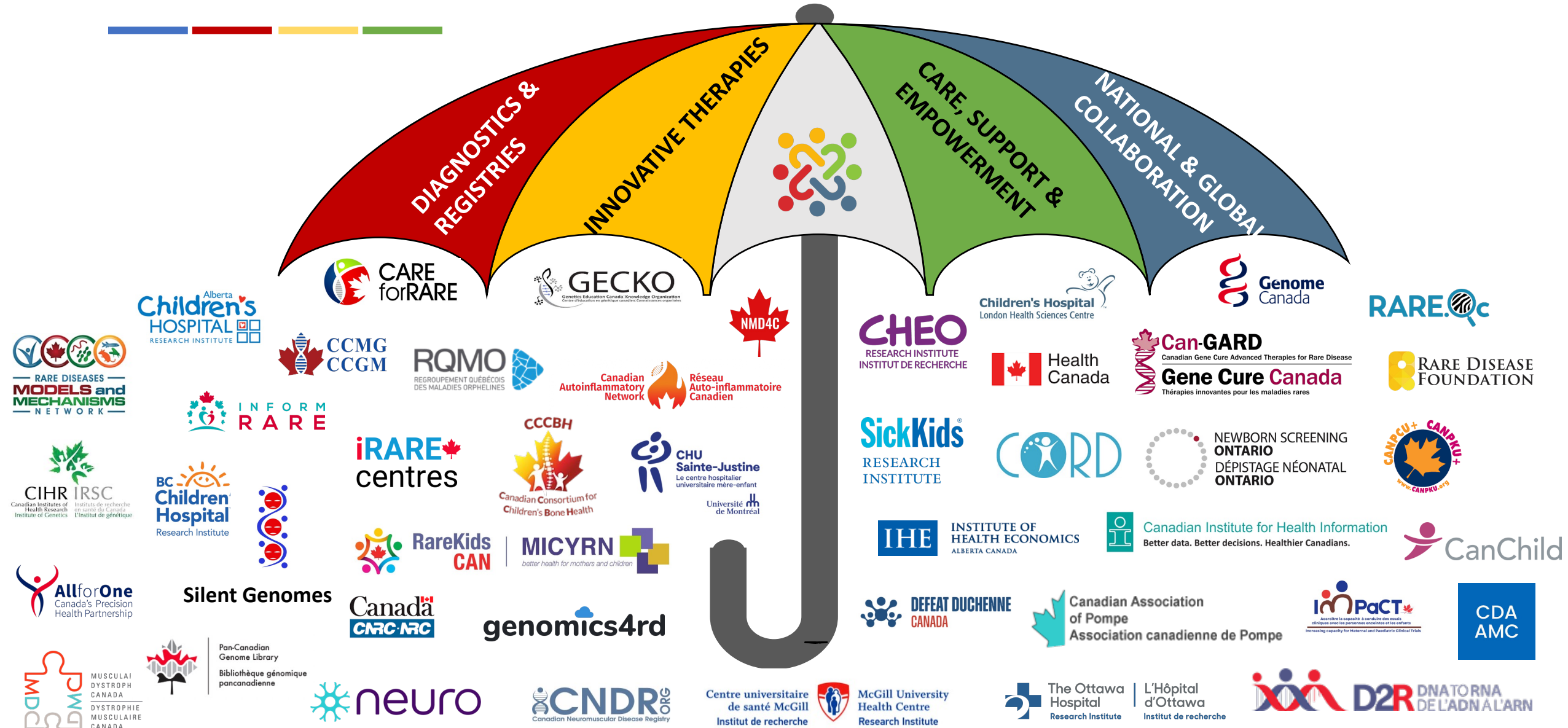


**Thierry Lacaze-
Masmonteil**
University of Calgary;
Maternal, Infant, Child
and Youth Research
Network (MICYRN)



Deborah Marshall
Alberta Children's Hospital
Research Institute (ACHRI),
University of Calgary

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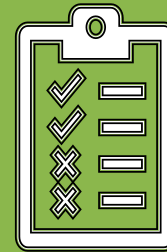
Co-Development of Our Strategic Plan



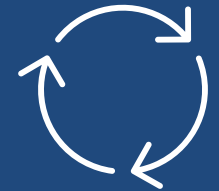
STEP 01



STEP 02



STEP 03



STEP 04

STRATEGIC ENGAGEMENT

May – August 2024

Targeted engagement sessions (n=12) with a select but diverse group **of 34 experts**, resulting in **>900 minutes** of meaningful dialogue

VIRTUAL TOWNHALL

31 October 2024

Overview of draft strategic plan presented to broader community (**>160 attendees**) and launch of community feedback survey

COMMUNITY FEEDBACK

October – November 2024

Widely distributed public survey gathered extensive feedback from **115 community members from 10 out of Canada's 13 provinces and territories**

REVIEW & APPROVAL

December – March 2025

Review and approval by CRDN Steering Committee, broad dissemination, and moving into implementation

Pillar 1 – Diagnostics & Registries

Patient Journey through diagnosis

“It’s a waiting game, but you tell a mum to wait when she’s waited 15 years. It’s difficult. – Nuria

“People began to ask which side of the family it came from...It was a difficult time for us as parents. – Alexa

“A diagnosis may be bad news, it may be very bad news or it may be no news. But all of that’s OK and there’s help and support for whatever spectrum you end up on. – Peter

“We went around, travelling across the entire city to find a nursery for our son. It was impossible to have him accepted. – Gaston



01 Diagnostics & Registries

Goal 1.1: All RD patients will receive the right diagnostic test at the right time regardless of where they live in Canada.

Goal 1.2: Genetic diagnostic laboratories across Canada will integrate resources and best practice guidelines to ensure high-quality GWS for patients.

Goal 1.3: All families with RD will have access to relevant registries for secondary research and re-contact.

Goal 1.4: RD diagnostics and research will be a political priority and sustainably funded.

Goal 1.5: Canada will be a world leader in RD mechanism discovery and translation of new technologies into the clinic.

Reducing the time it takes to identify rare diseases

Pillar Lead:



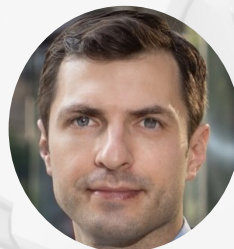
Kim M Boycott
Children's Hospital of
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University of Ottawa

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Pillar Members:



Gregory Costain
Sick Kids Hospital,
University of Toronto



Taila Hartley
Care4Rare



Lawrence Korngut
Hotchkiss Brain Institute,
University of Calgary



Bhavi Modi
BC Children's Hospital,
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University of OttawaMontreal Children's Hospital
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Myriam Srouf
BC Children's Hospital,
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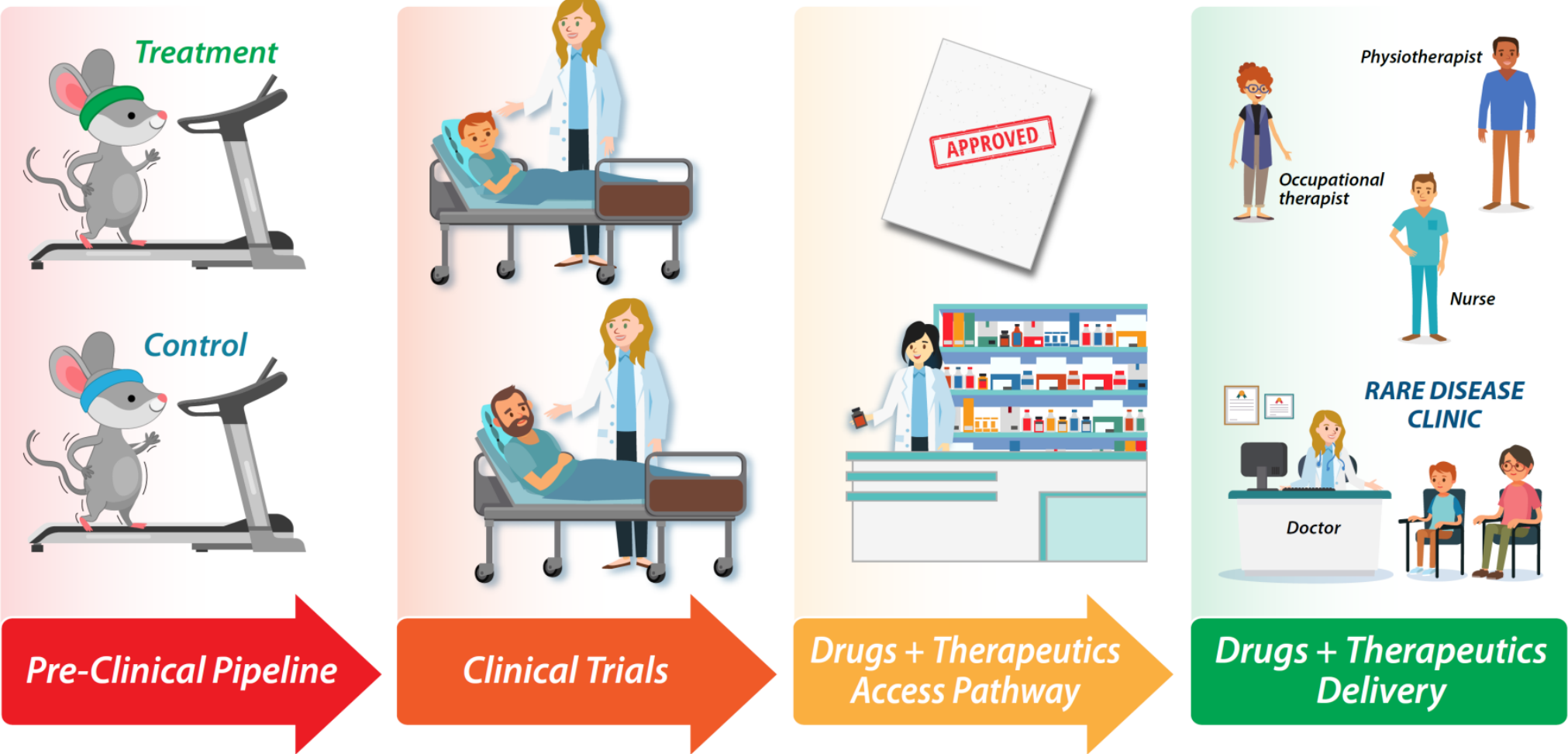
Hilary Vallance
BC Children's Hospital,
University of British
Columbia



Jodi Warman Chardon
Ottawa Hospital,
University of Ottawa

Pillar 2 – Innovative Therapies

Effective, Innovative Therapies



02 Innovative Therapies

Goal 2.1: Canada will lead in the discovery and validation of novel therapeutic targets and treatments for RD patients.

Goal 2.2: All RD patients, regardless of their age, location, or social context, will have equitable access to clinical trials and innovative therapies.

Goal 2.3: Innovative therapies will be readily integrated into clinical practice to improve patient care and outcomes.

Goal 2.4: Canada will be recognized globally for its RD clinical trials potential and as an attractive hub for investment and partnerships.

Expanding treatment possibilities

Pillar Lead:



Leanne Ward,
Children's Hospital of
Eastern Ontario (CHEO),
University of Ottawa

Pillar Members:



Craig Campbell
Children's Hospital LHSC,
Western University



Pranesh Chakraborty
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Jim Dowling
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Heather Howley
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Thierry Lacaze-Masmonteil
University of Calgary;
Maternal, Infant, Child, Youth
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Maryam Oskoui
Montreal Children's
Hospital,
McGill University



Breanne Stewart
RareKids-CAN



Risini Weeratna
National Research
Council (NRC)



Durhane Wong-Rieger
Canadian Organization
for Rare Disorders
(CORD)

Pillar 3 – Care, Support, & Empowerment



03 Care, Support & Empowerment

Goal 3.1: All RD patients, along with their families and caregivers, will be aware of and have equitable access to the resources and supports they need.

Goal 3.2: All individuals affected by RDs will have the opportunity to be empowered and engaged in meaningful opportunities in research and beyond.

Goal 3.3: All RD patients and their families will receive the mental health and wellbeing support they need regardless of their location or social context.

Goal 3.4: Canada will have a unified RD community that strengthens comprehensive care and support systems for RD patients and their families.

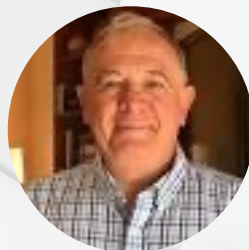
Supporting patients and their families

Pillar Lead:



Ian Stedman
York University

Pillar Members:



John Adams
Canadian PKU and Allied Disorders (CanPKU+)



Jillian Banfield
Canadian Institutes for Health Research – Institute of Genetics (CIHR IG)



Brad Crittenden
Canadian Association of Pompe



Deborah Marshall
University of Calgary



Homira Osman
Muscular Dystrophy Canada



Gail Ouellette
iRARE Centre, RQMO



Stephen Parrott
Kidney Cancer Canada Board



Jonathan Pratt
Regroupement Québécois des maladies orphelines (RQMO)



Nicola Worsfold
World Duchenne Organization

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04 National & Global Collaboration

Goal 4.1: Canada will have a unified national approach to RD that drives innovation and improves care for all affected by RDs.

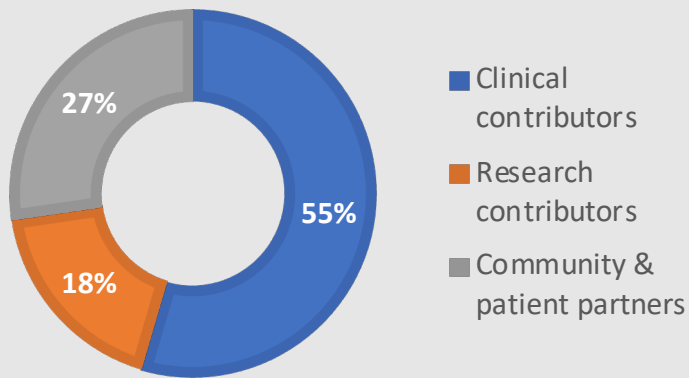
Goal 4.2: Canada will be recognized as a key global player in RD research, innovation, and knowledge exchange, benefiting patients worldwide

Our Growth By Numbers



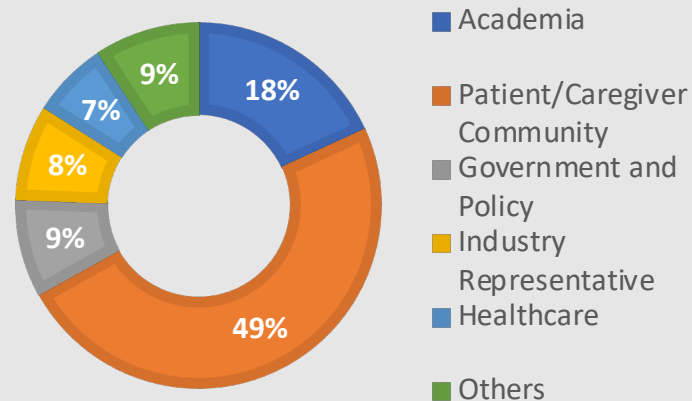
Network Growth

- **1 Steering Committee and 3 Pillar Committees** set up
- **22 committee meetings** held
- **49 contributors** from **5 provinces** and across sectors



Communication Reach

- **>2,350 Social media followers**
- **>25K website views**
- **>370 newsletter subscribers**



- **Global reach** (e.g., US, Europe, UK, Australia, India) and featured in **OrphaNews, IRDiRD, HTAi, RDI Mapping Rare**

Strategy, Events, & Influence

- **1 strategic plan** co-developed with the community
- **5 Hosted/Co-hosted events**, including 2 in-person workshops, 1 virtual townhall, and 1 hybrid event
- Total of **>640 attendees**
- **13 external event presentations**, including 2 international (UK, Doha)
- Participated in **2 policy consultations/roundtables**

Partnerships & Progress Highlights

#1



Joining Global Momentum in Rare Disease Research

Co-developing and leading the Canadian National Mirror Group (NMG) of the European Rare Diseases Research Alliance (ERDERA) with RareKids-CAN/MICYRN to:

- Foster national coordination among RD bodies/groups
- Align national efforts with European research priorities
- Serve as gateway to global opportunities



#2

Informing on Canada's Genomic Diagnostics Ecosystem

Collaborative process to identify gaps and opportunities to strengthen Canada's genomic and health data ecosystem.

The outcome is a **report to Health Canada with 14 recommendations** to enhance national coordination and support equitable access to genomics-informed diagnostic care. The report will be shared with P/Ts.



#3

Exploring Pre-Clinical Therapy Development

Co-hosted a short workshop to initiate conversations on how to strengthen national "home-grown" pre-clinical therapy development and lay the groundwork for identifying gaps, opportunities, strategic collaborations and paths forward.

Working towards a "What We Heard" report and actionable next steps.

Highlight- #1

Joining Global Rare Disease Research

CRDN is co-leading Canada's National Mirror Group (NMG) with RareKids-CAN and MICYRN, supporting Canada's engagement in the European Rare Diseases Research Alliance (ERDERA).



Bringing together key interest holders, including representatives of the National Strategy for Drugs for Rare Diseases, federal/provincial funding bodies, research networks, academic and healthcare institutions, and patient organizations.

Organizing Canadian NMG meetings to foster knowledge exchange, shape the structure and priorities of the Canadian NMG, and attending ERDERA meetings, workshops, and events to bring best practices and opportunities to Canada.

Why It Matters



Aligns Canada's rare disease strategies with global efforts



Fosters coordination across Canadian rare disease bodies/groups



Opens doors to international research, funding, and training opportunities



Promotes Canadian participation in global initiatives

Highlight – #2

Informing on Canada’s Genomic Diagnostic Ecosystem



Health
Canada

To support the implementation of Canada’s first *National Strategy for Drugs for Rare Diseases*, Health Canada sought expert advice to help improve early, equitable diagnosis.

What We Did	Outcome/ Impact
Asset Mapping of existing genomic initiatives, data assets, and infrastructure across Canada 2-Day Genomic Interest Holder Workshop to share insights and co-develop priorities Targeted Consultations to gather input from additional interest holders and provincial/territorial partners Total of 41 interest holders consulted	Report to Health Canada with 3 identified priority areas and 14 actionable recommendations that will be shared with PTs and can guide federal-provincial-territorial collaboration aimed at improving access to rare disease diagnostics. Priority Areas Identified 1. Timely Access to screening and diagnostic care 2. High-Quality Genetic Testing across jurisdictions 3. Learning Healthcare System powered by genomic data Recommendations (14 total) grouped under: • Infrastructure & IT (e.g., national health data ecosystem, AI tools) • Human Resources (e.g., training, awareness, capacity building) • System Improvements (e.g., standards, life-course screening, interprovincial care)

Highlight – #3

Exploring Pre-Clinical Therapy Development

Challenges & Opportunities



RareKids
CAN





Join us!



/canadian-rare-disease-network



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