

Network





Putting Patients First

## Implementation Science Research Program

Transitioning from Phase 1 to Phase 2	What is Implementation Science Research?			Meet our Team
During Phase 1, CHILD-BRIGHT's 13 pan-Canadian research projects, developed and studied new diagnostic tests, therapies, service models, and technologies to optimize the physical and mental health of Canadian children born with brain-based developmental disabilities (BDD) and	Implementation science bridges the gap between developing and evaluating effective interventions and implementation in routine practice or policy to improve patient and population health.			Program Co-Leads
	Effectiveness Research	Implementation Science Research	Sustainability	Steven MillerJanet Curran
		Pre-implementation		Program Manager

well-being of caregivers & families.

In Phase 2 (2022-2026), we study *how* to bring evidence-based interventions tested in controlled settings in Phase 1 into the real world.

Bringing evidence-based interventions from research into real world practice is a challenge. **Implementation** science studies how interventions interact with "real-world" settings. **Our goal** is identifying what needs to be in place for interventions to succeed in practice at scale.

Does a new treatment work?

Efficacy measured when tested in highly-controlled setting

Effectiveness measured when tested in real world setting

Phase 1

(2016-2023)

Conduct focus groups and interviews to answer:

- *is the new intervention easy for* patients to use?
- can a provider feasibly offer the new intervention?
- what will facilitate/impede implementation & usage?

Implementation Develop & test implementation strategies:

• is it most helpful to train, remind, or incentivize clinicians to provide new service?

Phase 2 2026 -> Onward (2022 - 2026)

Scale & spread

Continuous monitoring and evaluating process and outcome data at multiple levels

Organizational and health system capacity (i.e. leadership, resources)

Christine Cassidy

Melanie Barwick



Sydney

Breneol



Andre Bussieres

Our Project Development Pipeline: a collaborative & multi-programmatic approach



Alan Cooper





Andrea

Patey

Stephanie

Glegg



## Phase 2 Project List

1) Improving developmental follow-up for children with congenital heart disease; Mike Seed et al. 2) CHILD-BRIGHT Parent Voices: improving follow-up for children born preterm; Thuy Mai Luu et al. 3) CHILD-BRIGHT Interplay: improving access to early manual therapy for children with cerebral palsy; Adam Kirton et al. 4) CHILD-BRIGHT GRIP: improving access to genome sequencing for children with BDD; Robin Hayeems et al. 5) *PIUO*: implementing a diagnostic pain pathway in community clinics; Hal Siden *et al.* 6) Understanding factors that lead to funding of psychosocial interventions; Patrick McGrath *et al.* 7) CHILD-BRIGHT Jooay: increasing participation in leisure activities for children with BDD; Keiko Shikako 8) Implementing treatments to improve emotional and behavioural self-regulation; Jennifer Crosbie 9) CHILD-BRIGHT CCENT: supporting parents transitioning from the NICU to home; Julia Orkin et al. 10) CHILD-BRIGHT Coaching: coaching parents of children with suspected developmental delays; Annette Majnemer et al. 11) POE-NAS: addressing prenatal opioid exposure in First Nation communities; Astrid Guttmann et al. 12) *MICYRN:* infrastructure for efficient pediatric patient-oriented research; Thierry Lacaze-Masmonteil

## Our Commitment

Our projects will:

- use IS theories and frameworks
- track imp. and effectiveness metrics
- be grounded in POR methodology
- advance health equity
- build capacity for IS research in BDD

## Legend

BDD: brain-based developmental disability; IS: Implementation Science; KM: Knowledge Mobilization; EDI-DI: Equity, Diversity, Inclusion, Decolonization & Indigenization **POR:** Patient-Oriented Research