

SPECTRUM

Workshop 3
October 19, 2020



Agenda

- 1:00-1:40 – Introduction to MCHP Repository
- 1:40-1:50 – Discussion
- 1:50-2 – Break
- 2:00-2:10 – Working Groups Update
- 2:10-2:30 – Breakout Discussions
- 2:30-2:50 – Demo Project 1 Update
- 2:50-3 – Closing comments / Next Steps / Workshop Evaluation



Manitoba Population Data Repository 101

Manitoba Population Research Data Repository



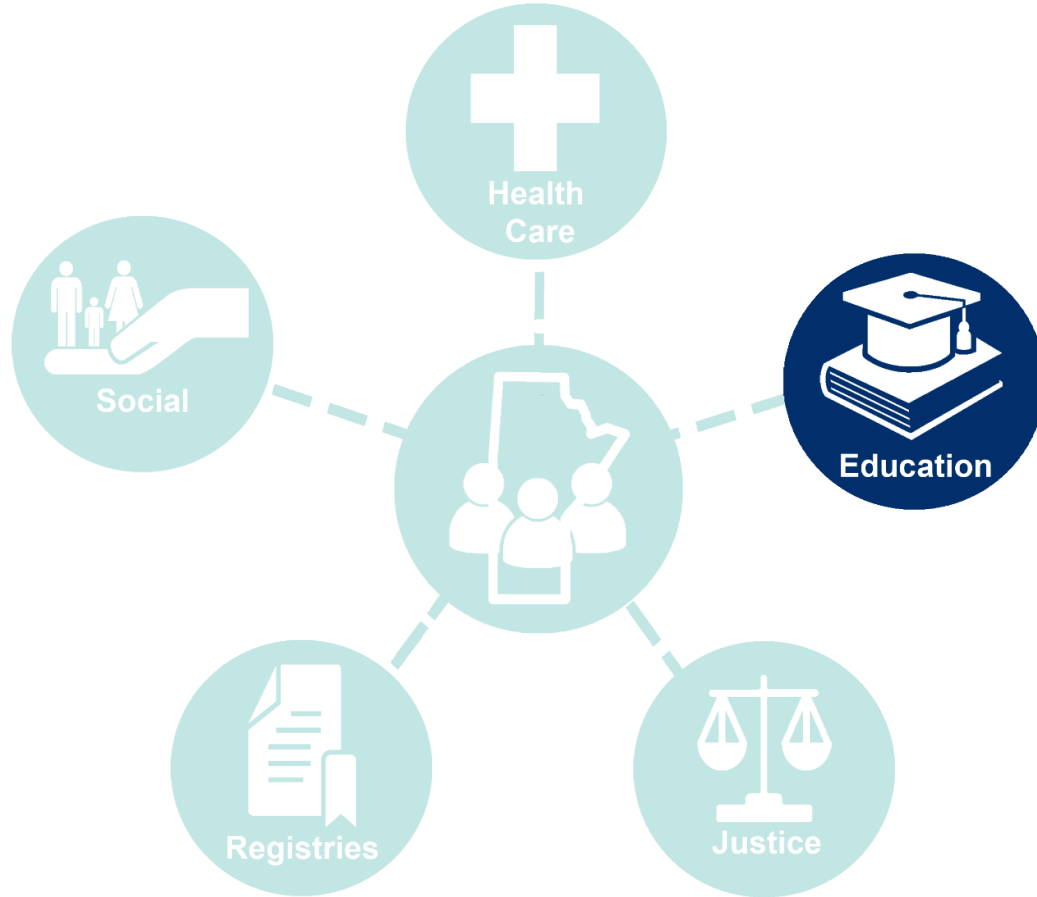
Manitoba Population Research Data Repository



DATASETS: ~50

- Hospitalizations
- Physician visits
- Prescription meds

Manitoba Population Research Data Repository



DATASETS: 9

- Enrolment, courses, marks
- EDI
- Grade 3 assessments
- Post-secondary

Manitoba Population Research Data Repository



DATASETS: 3

- PRISM
- CCAIN
- COMS

Manitoba Population Research Data Repository



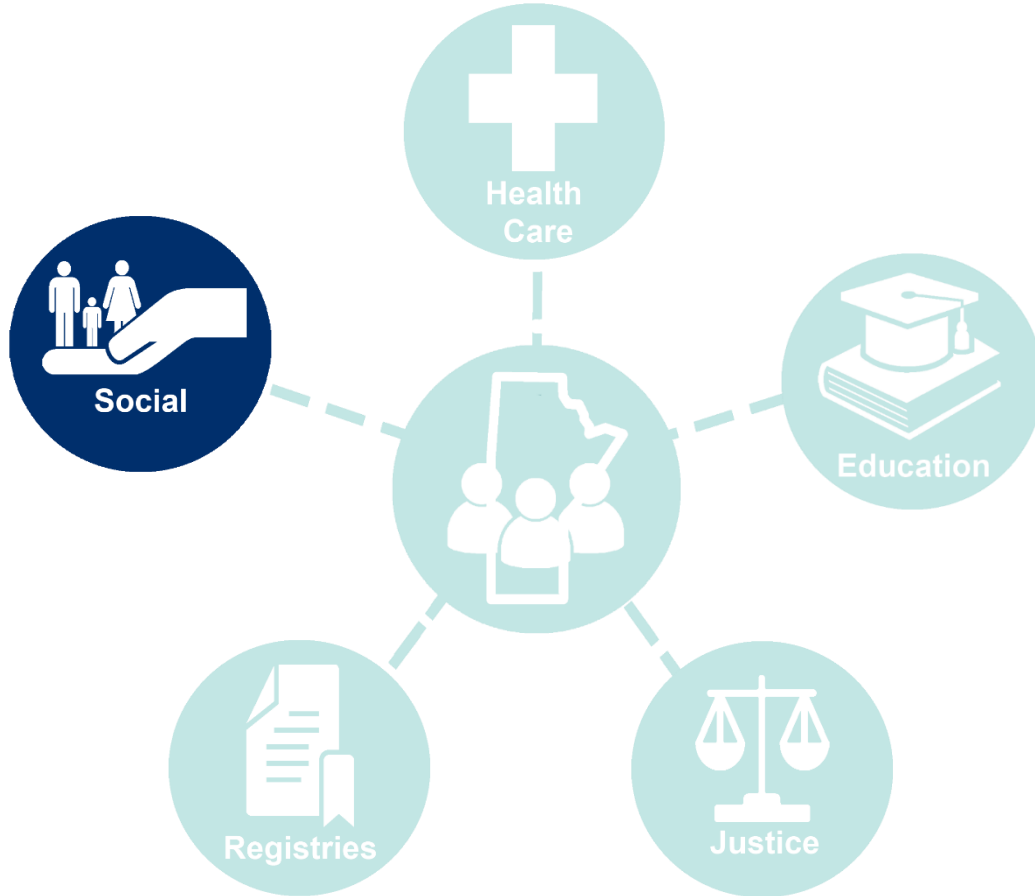
DATASETS: 6

- MH Registry (pop)
- Immigration
- MB First Nations Research File
- Metis Population Registry

Manitoba Population Research Data Repository

DATASETS: 21

- CFS
- Income Assistance
- Families First Screen
- Healthy Baby



Manitoba Population Research Data Repository



Data REQUIRES Context

- Even though data held at MCHP include the whole Manitoba Population (i.e.: all people with a Manitoba Health Card are accounted for), the data are **not neutral**.
 - When using the data, need to take into account systemic barriers to services and systems of oppression (colonialism, racism, ableism, gender discrimination, etc.).

A decorative graphic consisting of several overlapping, semi-transparent circular bands in shades of purple, blue, and green, arranged in a circular pattern around the central text.

Healthy Baby Prenatal Benefit

Manitoba Healthy Baby Prenatal Benefit

- aimed at promoting pre- and perinatal health
- Benefits start in 2nd trimester of pregnancy; monthly cheque for \$81.41
- Eligibility - medical note confirming pregnancy and expected date of delivery
 - Completed application
 - Net family income < \$32,000
 - Resident of Manitoba

Otherwise, “no strings attached”



Does the HBPB improve outcomes?



- Low birth weight
- Small for gestational age
- Large for gestational age
- Preterm birth
- 5-minute Apgar

- Length-of-stay for birth hospitalization
- Breastfeeding initiation

- Readmission within 30 days
- Hospital admission first 2 years
- Immunization 1 and 2 years

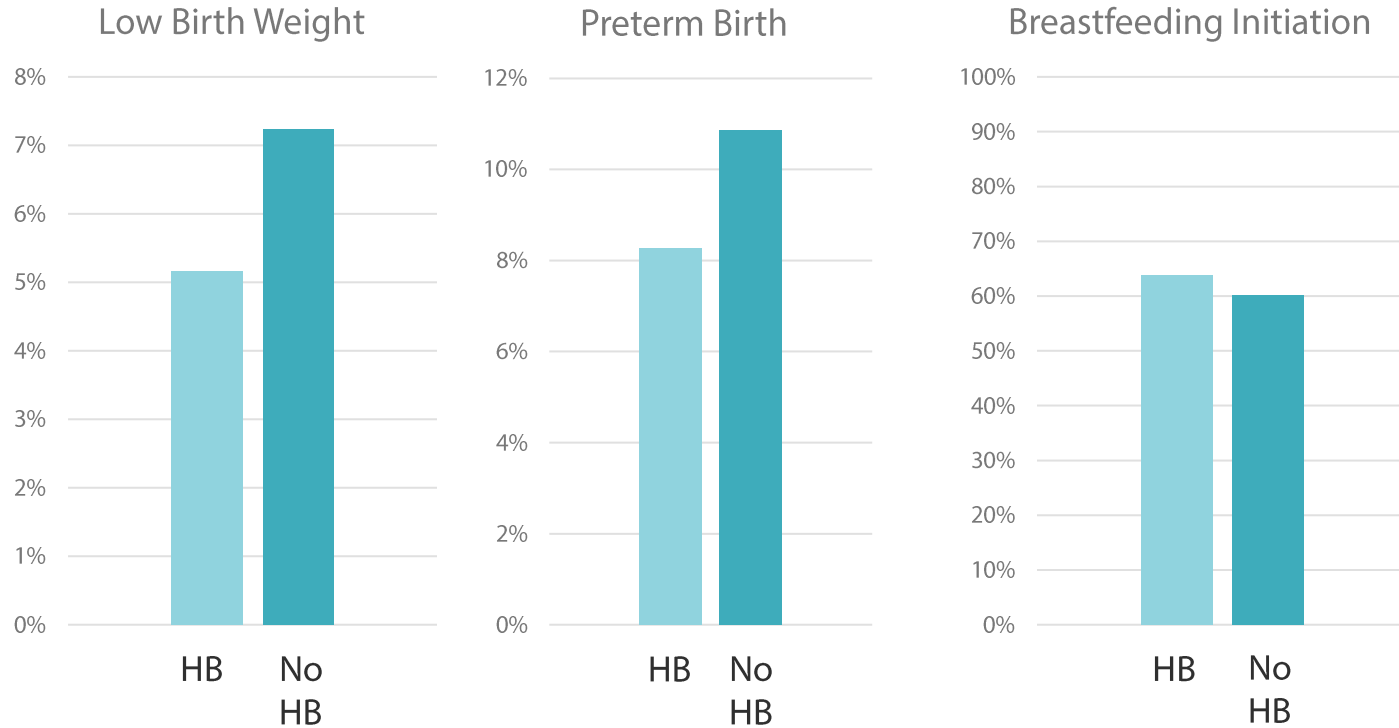
- Early Development Instrument (EDI)

Methods

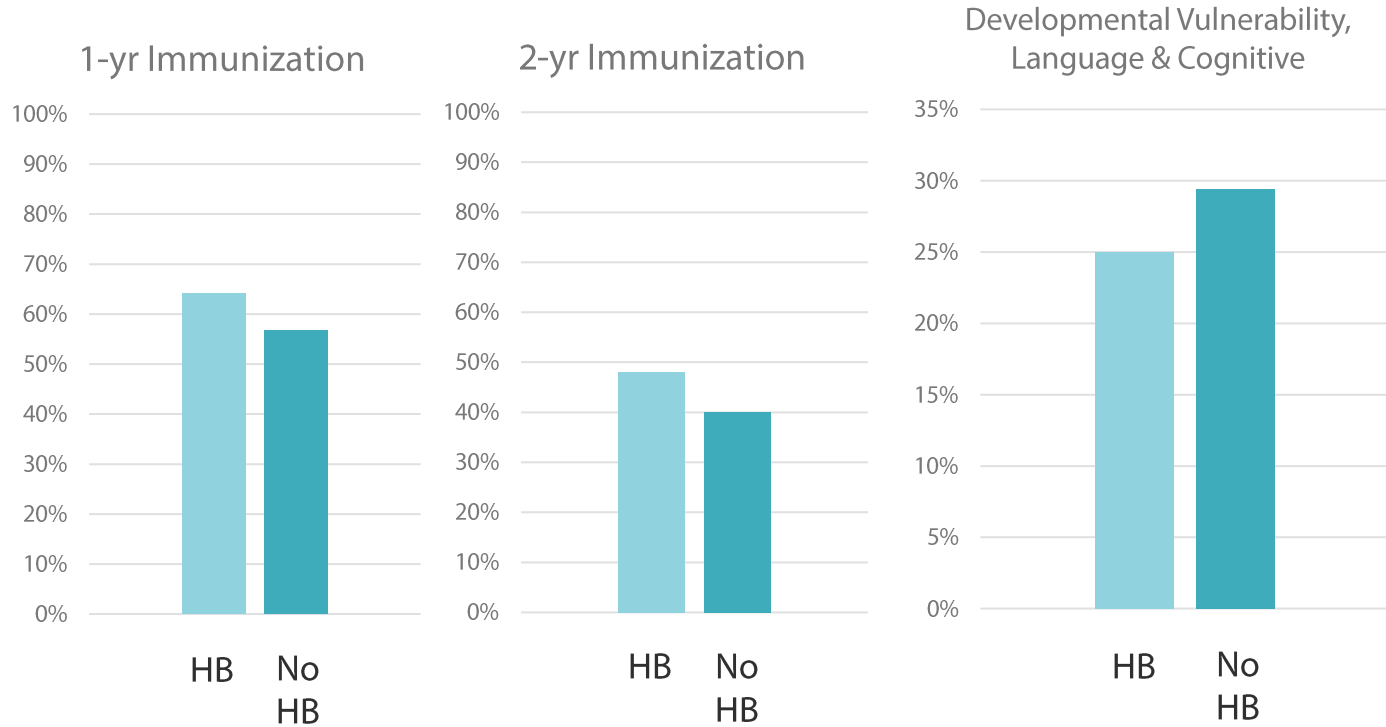
- All women receiving Income Assistance during pregnancy (2003-2010)
 - Received HB = 10,738
 - Did not receive HB = 3,853
- Propensity scores calculated
 - Based on probability of receiving HB
- Inverse probability of treatment weights
 - Applied to balance HB and no-HB groups



Perinatal Outcomes



Longer-term Outcomes

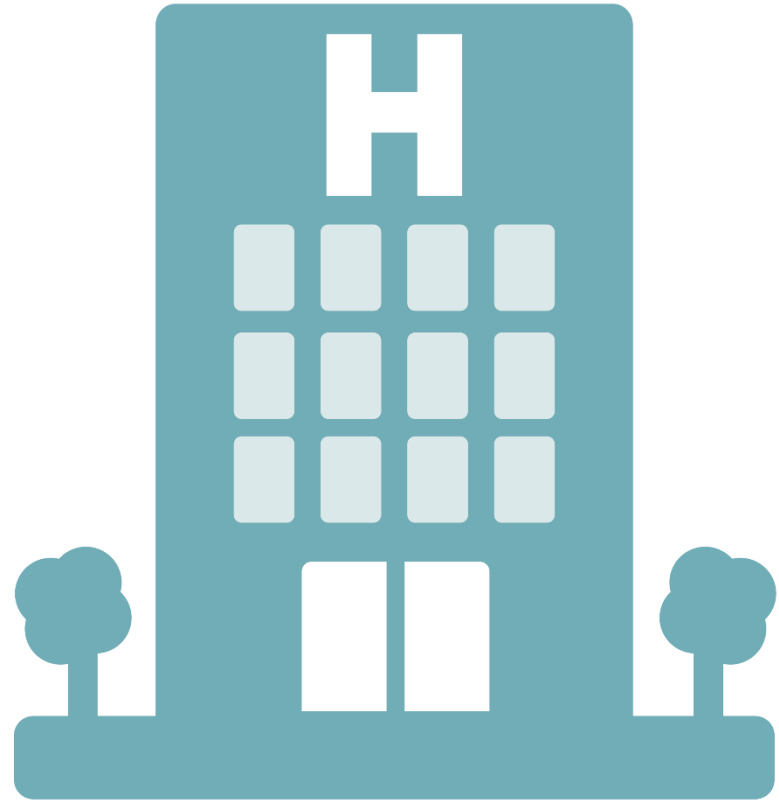


Length of stay for birth hospitalization decreased

- The average mother who received HBPB spent roughly 6 hours less in hospital after birth or a quarter of a day
- That number may seem small BUT over 5000 births that adds up!

**.25 x 5000 =
1,250 hospital days saved**

for reference, Manitoba had 17,317 births in 2017-2018

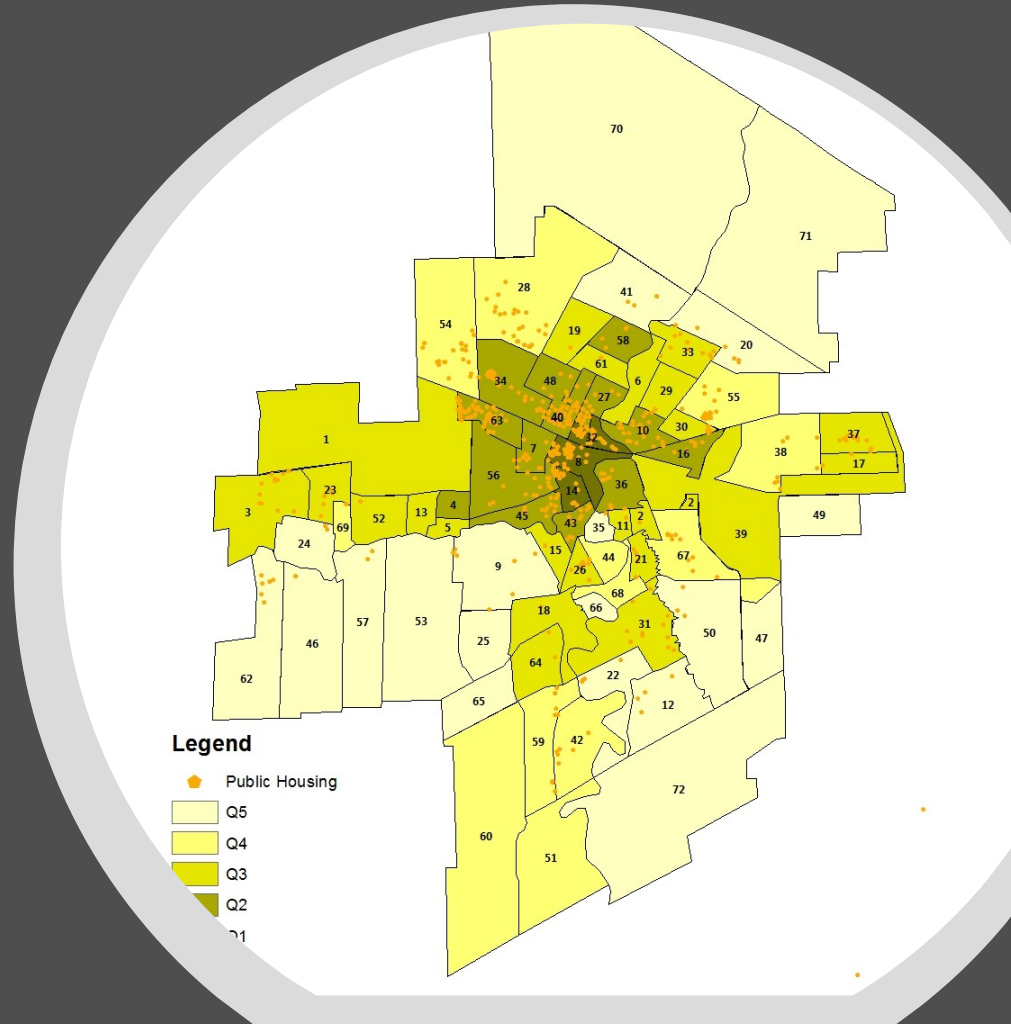


Social Housing

PATHS to Equity

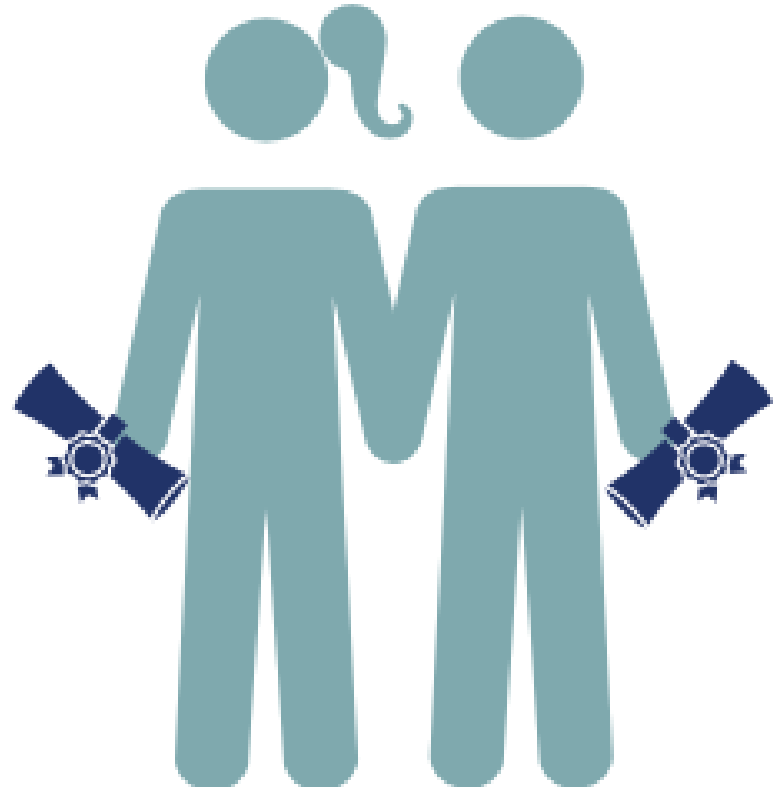


Social Housing Located Throughout Winnipeg

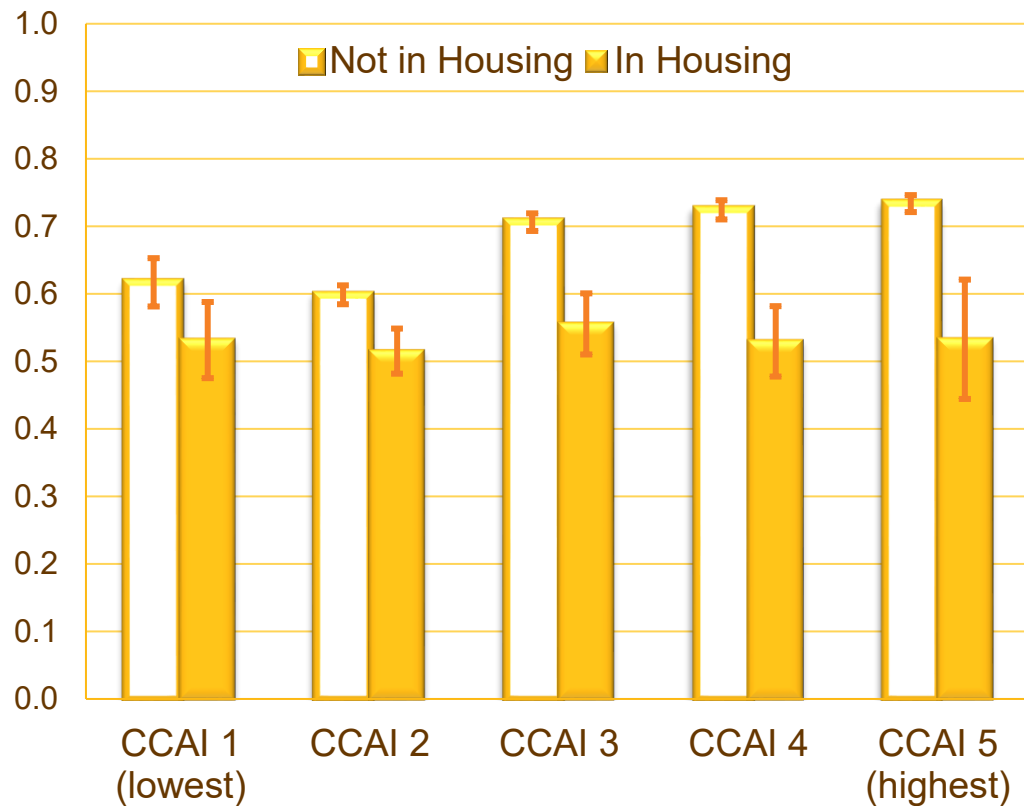


Where social housing is located matters!

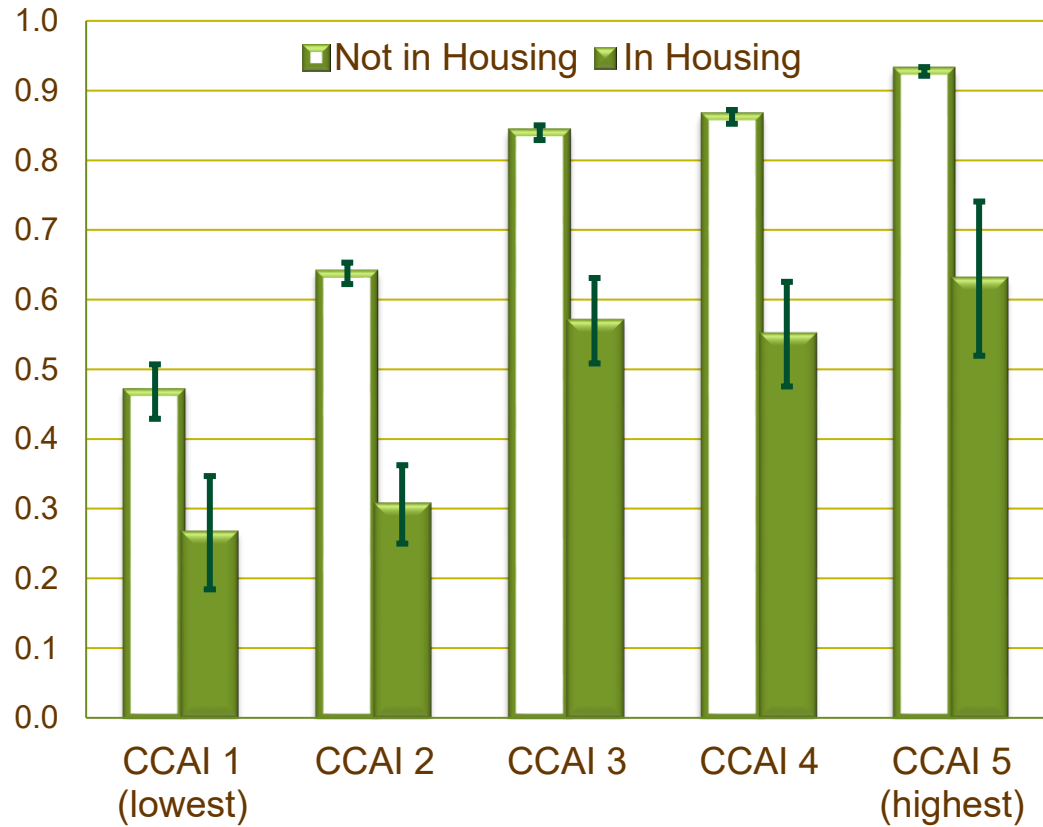
- Neighbourhood has no effect prior to entering school, but as children get older and have been in school for a period of time, those living in social housing in high income areas have **better** outcomes than their counterparts in low income



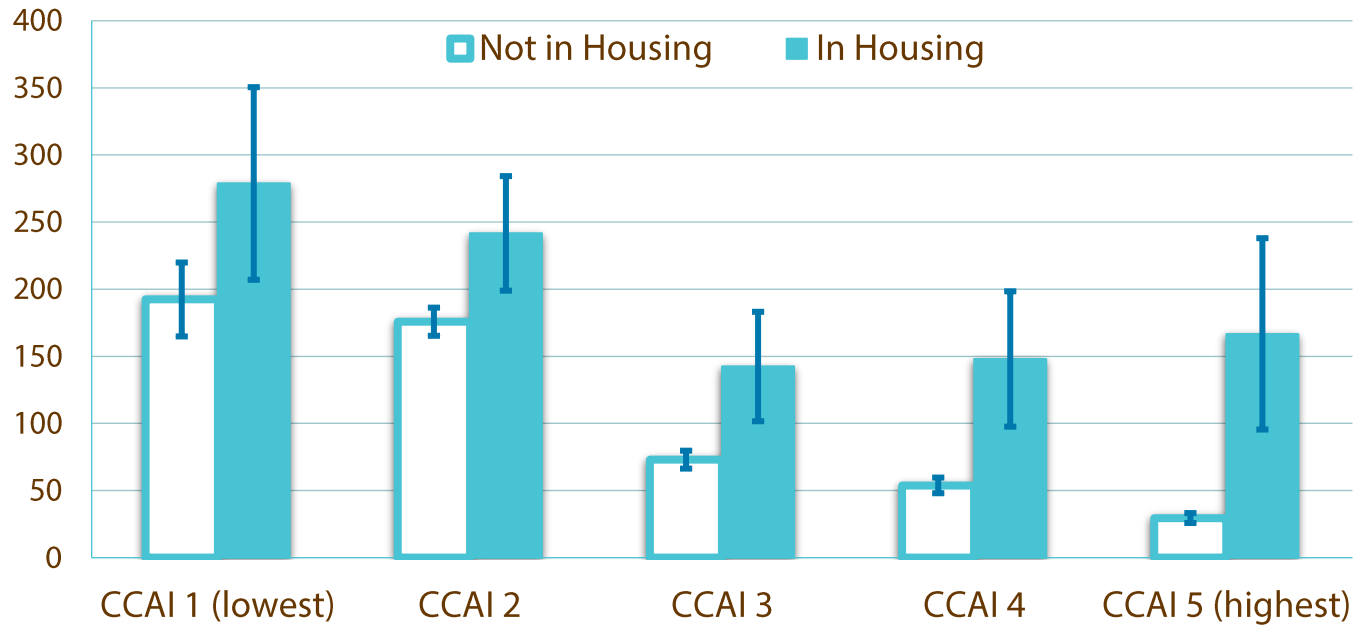
Complete
Immunization
at Two Years
Old by
Community
Centre Area
Income
(CCAI),
2006/07 -
2008/09



High School Completion by Community Centre Area Income (CCAI), 2006/07 - 2008/09



Teen Pregnancy by Community Centre Area Income (CCAI), 2006/07 - 2008/09





Families First Home Visiting



Families First Home Visiting

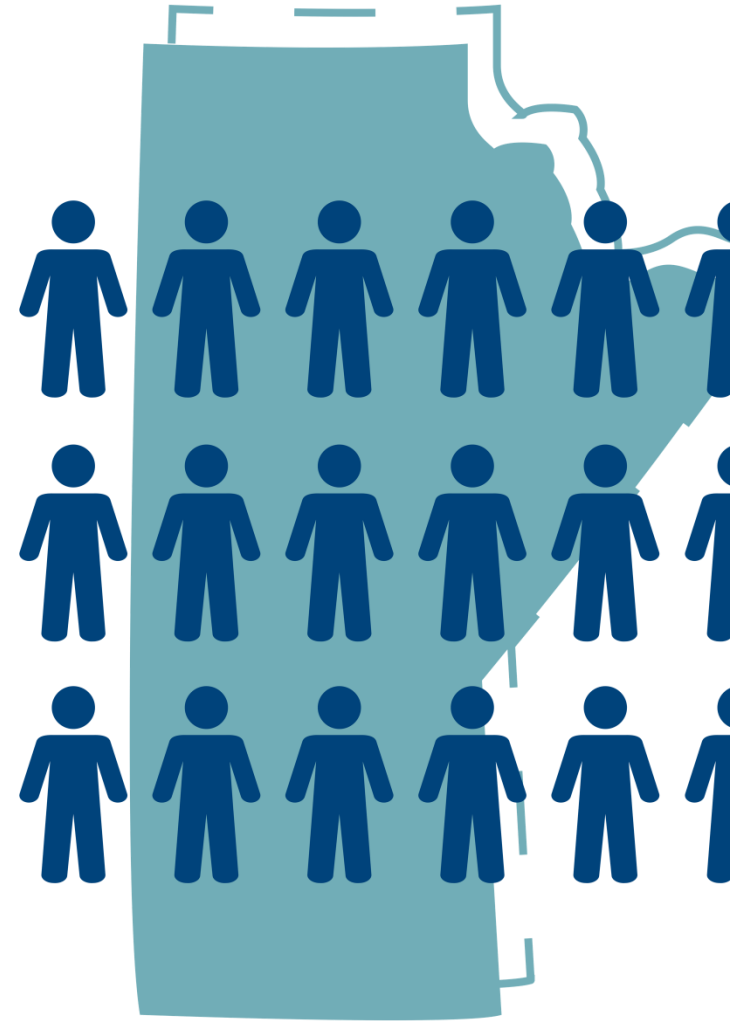
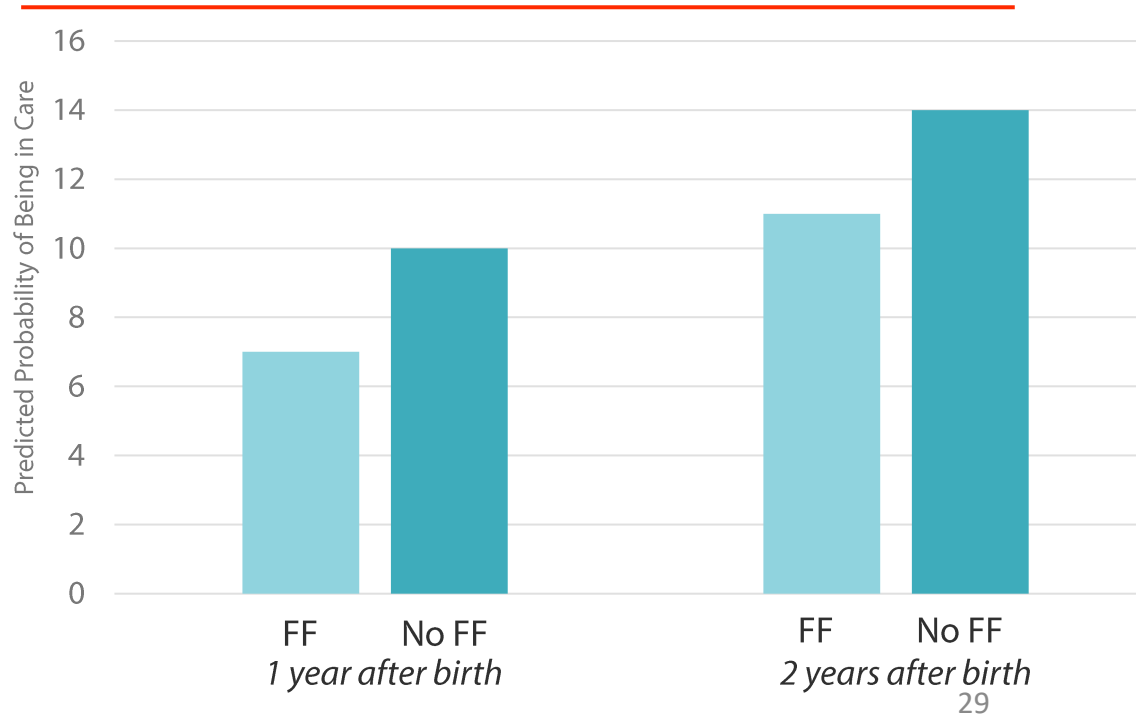
- enhancing parents' capacity to provide a **nurturing and supportive environment** for their children
- Currently serving approx 1500 families
- Weekly home visits provided by **trained non-professional home visitors.**
- Home Visiting support is offered for **3 years** (although average time = 18 months)
- Home Visitors have limited caseloads
- Use skill building **curriculum focused on parenting, child development and family functioning**

Methods

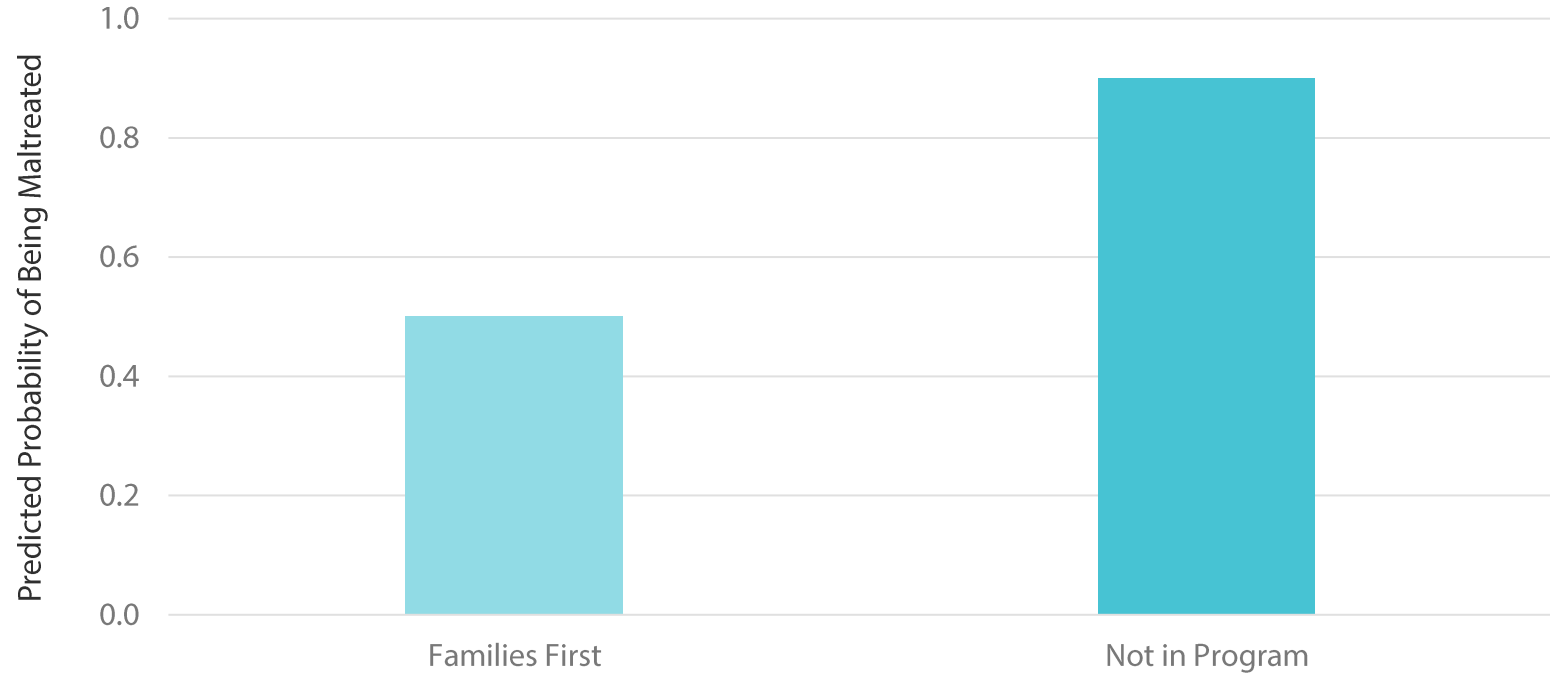
- Children with high risk scores born in years 2003-2009
 - In program = 4,575
 - Not in program = 5,186
- Propensity score calculated
 - Probability that in program based on FF Screening
- Inverse probability of treatment weights
 - Applied to balance program and comparison groups



Children in CFS Care



Injury for Child Maltreatment



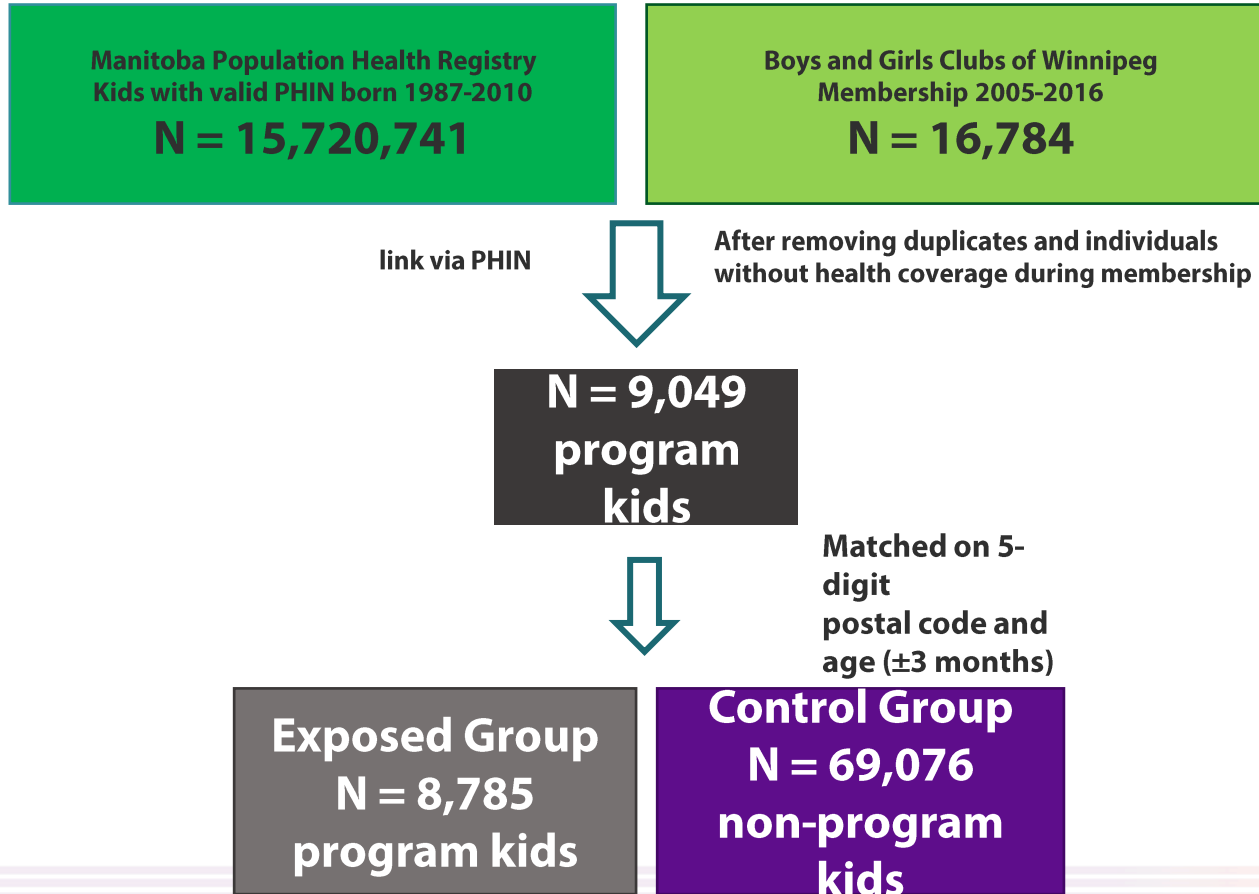


Boys & Girls Clubs



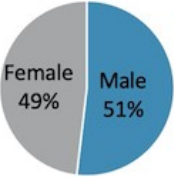
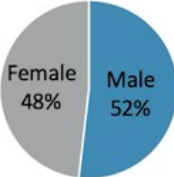
Study Data

Cohort

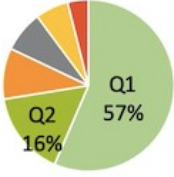
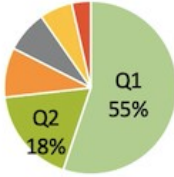


Descriptive Characteristics Program Participants vs Non-Program Participants

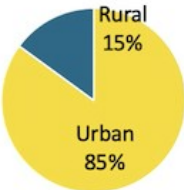
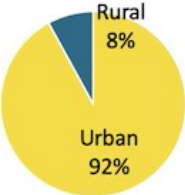
SEX




INCOME
QUINTILE




RESIDENCE



More participation in the Clubs = higher likelihood of doing well in Grade 3 Numeracy

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More participation in the Clubs = higher likelihood of doing well in Grade 7 Student Engagement

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Social Outcomes

Justice System Involvement

- Youth (12-17 y) who participated in the Clubs at higher risk of justice system involvement
 - Higher likelihood of CFS involvement
 - Higher likelihood that mom had mental health disorder
- After accounting for the disadvantages they faced:
 - **more visits = less likely to become involved with the justice system**
 - for every **10 visits**, their risk of becoming involved with the justice system **dropped by 1%**

SPECTRUM 

SSHRC  CRSH

Questions? Comments...