**PCYMH Precision Child and Youth Mental Health, CHEO Phase 1 Report**

**Our Mission**

Grow mental wellness in the next generation by delivering precision mental healthcare and prevention for children and youth.

**What is PCYMH?**

The use of comprehensive information about the individual ranging from the DNA code to the postal code to more precisely identify and treat children and youth with mental health problems.

* Health Promotion and Prevention
* Prediction and Early Detection
* Precision Diagnosis
* Precision Prognosis
* Tailored Management and Therapy

**Data and Computing Infrastructure**

Data Sharing Privacy Impact Assessment

* Talent
  + 3 Data Scientists
  + 30+ Members of chAI – a community of practice for pediatric focussed artificial intelligence
* High-Performance Computing
  + 20 Enterprise-Grade GPUs
  + 4.6 TB of RAM
  + 560 Compute Cores

Clinical Transformation

* 50 Clinicians
  + 45 plus patients and caregivers engaged
  + 17 teams engaged
* New Triad Model,
  + Providers, Researchers, Empowered Patients

“In my entire career, I have never been more excited about the potential to transform child and youth mental health care than I am right now.” Dr. Kathleen Pajer Medical Director, PCYMH

2 Clinical Quality Improvement Projects

* Neuropsychology- Informed Care
* Predicting Mental Health Emergency Revisits

Mental health datamart bridging research and clinical care transformation. Tools: Implementation, Science and AI

**Research**

* 7 Grants involving 10 departments
* 1.3 million over 2 funding competitions

Reach

Collaborations flourishing locally, provincially and internationally

* 14 publications
* 8 grant rounds
* 1 international interest group

Research Areas

* Prevention
* Pharmacogenomics
* Biomarkers
* Synthetic Data
* Predictive Algorithms

Contact Us

[PCYMHI@cheo.on.ca](mailto:PCYMHI@cheo.on.ca)

CHEO CHEO Research Institute CHEO Foundation