## CP@clinic ANNUAL REPORT 2024

Prepared by :

MCMASTER COMMUNITY PARAMEDICINE RESEARCH TEAM

🕀 cpatclinic.ca

in CP@clinic

McMaster

Family Medicine

McMaster Community Paramedicine Research Team

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## Land Acknowledgement

McMaster University recognizes and acknowledges that it is located on the traditional territories of the Mississauga and Haudenosaunee nations, and within the lands protected by the "Dish with One Spoon" wampum agreement.

The McMaster Community Paramedicine Research team honours the peoples and land of the Algonquins and all First Nations, Inuit and Métis peoples.

We invite you to learn more about the people who have inhabited the land you are on. We recognize that we still have much to learn: reconciliation is an ongoing process for us all.



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## Message from Dr. Gina Agarwal, Program Director



#### "In 2024, CP@clinic continued to grow beyond its roots in Ontario, with successful implementation in British Columbia and Australia. These milestones reflect the program's adaptability across diverse healthcare systems and settings, as well as its sustained effectiveness in addressing the health needs of vulnerable populations and improving population health outcomes."

### Dr. Gina Agarwal

Program Director, CP@clinic

It is with great enthusiasm that I introduce the 2024 Community Paramedicine at Clinic (CP@clinic) Annual Report. Reflecting on the past year, I am filled with pride in our collective accomplishments and the growing impact that continues to define CP@clinic. This report highlights the remarkable progress we've made in not only advancing population health and strengthening health systems, but also in expanding and deepening the program's reach to benefit thousands of individuals across diverse communities.

This year also brought the launch of the 'CP@clinic Paramedic Training Program Microcredential' through McMaster University. This microcredential formally recognizes the skills, knowledge, and competencies required to implement CP@clinic. The 'Community' Paramedicine Continuing Medical Education for Family Physicians' was developed to introduce family physicians to community paramedicine and has been certified by the McMaster University Continuing Professional Development Program for 1 Mainpro+ credit. These recognitions are significant as it supports professional development, promotes community paramedicine, and affirms the essential role of community paramedics in delivering evidence-based, community-focused care.



## Message from Dr. Gina Agarwal, Program Director

Academic research remains central to CP@clinic's innovation, evaluation, and continuous improvement. We have included key publications in this report to underscore its role in informing policy, guiding decision-makers, and demonstrating the program's effectiveness in supporting vulnerable populations. This annual report is a celebration of our values, mission, and the meaningful impact we continue to build. I extend my deepest gratitude to all our partners and paramedic services who have dedicated their time, resources, and support to the CP@clinic Program. Your commitment has been essential to the success and scale up of CP@clinic. Together, we are advancing health equity, fostering system change, and shaping a healthier future for our communities.



This report was prepared by the McMaster Community Paramedicine Research Team. From left to right: Christie Koester, Mikayla Plishka, Jasdeep Brar, Melissa Pirrie, Dr. Gina Agarwal, Guneet Mahal, Francine Marzanek, and Ric Angeles.

Not pictured: Sahar Popal, Manasvi Vanama



# CP@clinic S°

## **Mission**

We are committed to initiating, building and cultivating collaborative partnerships to support paramedic services in the planning, delivery and evaluation of CP@clinic across Canada and internationally.

## Vision

To integrate CP@clinic as the standard Community Paramedicine wellness clinic model in the Canadian healthcare landscape and thereby improve the health of vulnerable populations.



## The Evolution of CP@clinic



## 2024 By The Numbers: CP@clinic 's Community Impact



## **Building Capacity** *Paramedics*

#### MCMASTER UNIVERSITY MICROCREDENTIAL CP@CLINIC PARAMEDIC TRAINING PROGRAM

Paramedics who complete the CP@clinic Program Training earn a 'CP@clinic Paramedic Training Program Microcredential' from McMaster University. The Microcredential is official recognition of a paramedic's skills, knowledge, and competencies needed to implement the CP@clinic Program



Expanded to **32 paramedic services across Ontario**, the provincial **British Columbia Emergency Health Services (BCEHS)**, and **3 Australian community health services** 



## **Building Capacity** Family Physicians

#### MAINPRO+ CREDIT FOR COMMUNITY PARAMEDICINE CME FOR FAMILY PHYSICIANS

The Community Paramedicine Continuing Medical Education for Family Physicians was developed to introduce family physicians to community paramedicine with an aim to facilitate collaboration with community paramedics in order to foster improved patient care.

This is a one-credit, one-hour online learning program that will enable its learners to understand what community paramedicine is, how it relates to family physicians in Ontario, what the Community Paramedicine at Clinic (CP@clinic) is and how it is (or can be) integrated within family practice medicine.

The Community Paramedicine Continuing Medical Education for Family Physicians is available free of charge to family physicians, residents, students and nurse practitioners.

The Community Paramedicine Continuing Medical Education for Family Physicians learning program meets the certification criteria of the College of Family Physicians of Canada. It has been certified by the McMaster University Continuing Professional Development Program for 1 Mainpro+ credit. The Continuing Professional Development Office (CPD) at McMaster University is fully accredited by the Committee on Accreditation of Continuing Medical Education (CACME) to provide CFPC Mainpro+ study credits for Continuing Medical Education.



### **Health Sciences**



## **Building Capacity** Family Physicians

MAINPRO+ CREDIT FOR COMMUNITY PARAMEDICINE CME FOR FAMILY PHYSICIANS

What Family Physicians are saying about Community Paramedicine after the CME

Great way for patients to still access care from their home and allow me more remote monitoring of patients who find it hard to get into the office

Helpful to fill gaps in care







Many vulnerable patients would benefit

It would lessen the burden of seeing and managing some of the challenging, time-consuming patients



## **The Year in Review** Partner Engagement



#### **Paramedic Service Quarterly Reports**



Individualized paramedic service reports summarize the evaluated performance measures of the health risk assessments conducted with participants at CP@clinic Program Sessions.



Site specific reports enable paramedic services to determine if the program is meeting their target outputs and whether there is a need to modify their implementation.

#### **Executive Committee Meetings**



Paramedic service partners who provide their expertise operationalizing CP@clinic to guide the scale out of CP@clinic in Canada.

#### **Community of Practice Sessions**



The CP@clinic/CP@home Community of Practice was designed to engage community paramedics in peer learning and knowledge sharing to enhance individual and collective knowledge and skills, have an exchange of experiences and foster problem-solving.

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## Research & Program Highlights

Infographics



## **CPeclinic** Program Benefits for Paramedic Services

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**Structured program** (compared to a standard 'wellness' check) that includes **multiple** health **risk assessments** with built-in, **real time decision support** 



Improves patient **quality of life** by managing their **cardiometabolic risk** factors, **chronic disease** exacerbations and **medications**, **social determinants** of health, and **more** 



Includes a secure, user-friendly database to store your patient information



Provides **site-specific system navigation** by giving **patient-tailored resources and referrals** specific to the risk factors that are impacting their health



32 out of the 47 fields (~ 70%) needed to complete your Ministry of Health and Ministry of Long Term Care Reporting requirements are covered in the standardized CP@clinic Program



Tables/Metrics can be **downloaded in a few simple steps** to assist in completion of the **Ministry of Health, Ministry of Long Term Care, and Ontario Health quarterly reports**, as well as any other reports required

## What the **CP**<sub>@clinic</sub> team can do for you



Support patient continuity of care by **sending quarterly fax reports** to the patient's **family physician** 



Send your paramedic service **quarterly reports** that can be used for **quality assurance**, **teaching**, & sending to **external partners**, **funders**, & **council members** 



Provide CP@clinic **specific program training** that is **accredited** and offers a McMaster University **microcredential** in addition to database training



Provide **program materials** (Health Risk Assessment cards, patient information sheets) and **advertising materials** 



**Key Findings** 

#### Comparisons between CP@clinic attendees (intervention) vs control



doi:10.1001/jamanetworkopen.2024.41288Community

## COVID-19 and Social Care Screening for Older Adults in Social Housing: A CP<sub>@clinic</sub> Adaptation



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CP@clinic provided paramedics a platform to contact a large number of older adults to increase access to healthcare services and public health information during a time of great health need.

Dias, H., Brar, J., Pirrie, M., Angeles, R., Marzanek, F., & Agarwal, G. COVID-19 and social care screening for older adults in social housing: a CP@clinic adaptation. BMC Geriatr 24, 974 (2024). https://doi.org/10.1186/s12877-024-05549-2

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RESEARCHIAE

Effectiveness of the Community Paramedicine at Home (CP@home) program for frequent users of emergency medical services in Ontario: A randomized controlled trial

**Community Paramedicine at Home (CP@home)** is a primary-care home visit program conducted by trained community paramedics

**CP**@home

**Family Medicine** 

Paramedicine

McMaster

University

Program objectives: Chronic disease prevention and management and health promotion

#### **Eligible Populations**



Agarwal, G., Angeles, R., Brar, J. et al. Effectiveness of the community paramedicine at home (CP@home) program for frequent users of emergency medical services in Ontario: a randomized controlled trial. BMC Health Serv Res 24, 1462 (2024). https://doi.org/10.1186/s12913-024-11952-7

Instituts de recherche en santé du Canada

IRSC

#### The Community Paramedicine at Clinic (CP@clinic) Program: Improving Participant Health While Preserving Healthcare System Resources

## What is **CP**@clinic**?**?

A community paramedicine chronic disease prevention, management, and health promotion program



**Regular** CP@clinic **sessions** in social housing buildings



Patients meet **1:1** with community paramedics

Paramedics conduct validated health risk **assessments** for:

- Physical health
  Chronic discourse
  - Chronic disease risk
  - Social determinants of health



Using the **CP@clinic SMART database**, paramedics refer patients to health and social care resources

#### **Future outlook**

 CP@clinic has the potential to become the standardized wellness clinic model across Canada and internationally

#### **Evidence-Based**

Multi-site, pragmatic, community-based cluster randomized controlled trial



Significantly improved participant health & quality of life







Every \$1 spent on the CP@clinic Program saves the emergency care system \$2

#### Key Take-away

CP@clinic addresses patient and healthcare system needs while saving money for the emergency care system

#### **Other Delivery Formats**





Virtual

Home Visit (CP@home)

#### Implemented In





Canada and ex

a Australia and expanding...

#### A Unique Program



Guided database with decision support



Standardized paramedic training



Easily adaptable to different settings



Facilitates interprofessional care



Serves vulnerable, underserved populations



McMaster University

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AlShenaiber, L., Mahal, G., Angeles, R., Marzanek, F., Pirrie, M., Keenan, A., & Agarwal, G. (2024). The Community Paramedicine at Clinic (CP@clinic) Program: Improving participant health while preserving healthcare system resources. *Healthcare Quarterly*.

## CPeclinic CPeclinic Locations

## CANADA 🖊



## AUSTRALIA 🛣 🗄





## THANK YOU

## **CP@clinic Executive Committee**

We would like to acknowledge the contributions of Brent McLeod (Hamilton Paramedic Services), Natalie Kedzierski (York Region Paramedic Services), Brad Jackson (Bruce County Paramedic Service), and Julie Cole (Sault Ste. Marie Paramedic Services) as members of the CP@clinic Executive Committee.

### Partner Organizations - Canada

**BC Emergency Health Services Beausoleil First Nation EMS Brant-Brantford Community** Paramedic **Bruce County Paramedic Service** Chatham-Kent EMS Paramedic Cochrane District FMS Cochrane District SSAB **Region of Durham Paramedic Services Essex-Windsor EMS** Frontenac Paramedic Services **Grey County Paramedic Services** Grey County **Guelph-Wellington Paramedic Service** Halton Region Paramedic Services Hamilton City Housing Hamilton Public Health Services Hamilton Paramedic Services Hastings-Quinte Paramedic Services Kingston & Frontenac Housing Corporation

Lambton EMS Niagara EMS Norfolk County Paramedic Services Northwest EMS Oxford County Paramedic Services Peel Regional Paramedic Services Peterborough County-City **Paramedics** Prescott-Russell Paramedic Service Sault Ste. Marie District Social Services District of Sault Ste. Marie Paramedic Services County of Simcoe Health and **Emergency Services City of Greater Sudbury Paramedics** Greater Sudbury Housing Corporation District of Timiskaming SSAB WAHA Paramedic Service The Corporation of the County of Wellington York Region Paramedic Services York Region

### Partner Organizations - International

Gateway Health Primary Care Connect

Family Medicine







Grampians Health

Sunraysia Community Health Services

