Why frequent users of paramedic services call 9-1-1: A knowledge-to-action approach





Department of Family Medicine

International Roundtable on Community Paramedicine Saskatoon, SK - 2016

Brent McLeod

*Assistant Professor, Department of Family Medicine, McMaster University

*Paramedic Supervisor, Hamilton Paramedic Service

Outline

- Project Overview
- Purpose
- Methodology
- Preliminary Results
- Conclusions









Background

- Frequent caller contributes to ED overcrowding
- Specific medical conditions = higher rates of use.
 - multiple chronic conditions
 - mental illness
 - substance abuse
 - homeless
 - lack primary care
 - low incomes





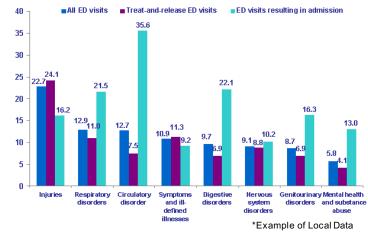




But WHY do they call?

 Complex needs, context specific, and cannot be simply reduced to a general set of individual characteristics

- Langer et al, 2013 (US)
 - Past experience with health care
 - Lack of alternative solutions
 - Lack of financial means
 - Dissatisfaction with 1° care provider



- Ahl, Nystrom & Jansson, 2005 (Sweden)
 - Different Decision-making methods
 - Consider patients' perspective







Example of Differing Perceptions

"I didn't have anyone else to call. I don't like to be alone.

They made me tea and calmed me down

"I assumed they would tell me that I didn't need to go to the hospital. They kept coming when I called."

We believe that understanding the patient perspective can guide us to suggest interventions or improvements in policies which can reduce inappropriate use in the Hamilton region.







Study Aim

- Identify and understand the reasons exploring the social, cultural and psychological elements which influence the patients' decision to call 911 in Hamilton
 - To identify knowledge gaps related to when patients should call
 911 and the prevalence of these attitudes
 - To identify policy and program actions to improve service use (i.e. potential to decrease call volumes, divert to more appropriate providers)







Design

- Mixed-methods design
- Interview and Survey Components

Identified individuals who had called > 5 times within a year



Key informant interviews (KIIs) held by phone or in-person (participant's choice) (n=10)



Transcribed the interviews and are conducting thematic analysis







Interview Questions

- Could you please tell us about your experiences of when you dialed 911 for help?
- What made you call for the paramedics?
- How were you feeling when you called 911?
- How did you feel after calling 911 in comparison to how they were feeling before calling?
- Were you worried about anything other than your health at that time?
- Could you please describe the type or extent of care you received upon calling for a paramedic?





Interview Questions

- What do you believe should be the functions of paramedic services and paramedics?
- What do you believe the role of Paramedic Services/Paramedic should be in relation to your health needs?
- Is there a particular healthcare professional or healthcare institution you visit when you are concerned or worried about your health?
- If we were going to find ways to decrease 911 calls:
 - What interventions would you like us to do?
 - Do you feel socially isolated in any way? Do you ever feel alone or lonely? Please describe.
 - What would you like to see in a program to decrease social isolation among older adults?

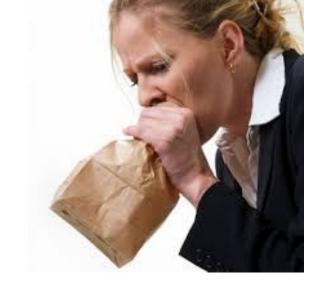






Preliminary Results

- Demographics:
 - Significant proportion were elderly
- Emerging Themes:
 - Mobility and lack of social supports
 - Anxiety and social isolation



- Paramedic Role:
 - Public service to be used however the person sees fit
 - Reserved for absolute emergencies
- Frequency underreporting was observed







Conclusion

- Emerging themes to conduct a broader survey
- Assess the prevalence of key themes



- Share our findings
- Develop targeted programs and policies











Project Team

- Brent McLeod BA, MHM, MPH, AEMCA, ACP (PI)
- Ricardo Angeles MPH, MHPEd, PhD
- Dale Guenter MD, MPH
- Michelle Howard MSc, PhD
- Alix Stosic BSc, MBA
- Sabnam Mahmuda Health Sciences student
- Adam Wade-Vallance -Health Sciences student

Thank You!!

OPRC and the OAPC for your support!









Department of Family Medicine Michael G. DeGroote School of Medicine Faculty of Health Sciences

Contact Information:

fhs.mcmaster.ca/fammed @McMasterFamMed

Brent McLeod, Hamilton Paramedic Service brent.mcleod@hamilton.ca