Community Referrals by EMS An Extension of Service ...

Paramedics...



- Often the first point of contact to the healthcare continuum
- Strong patient advocacy skills
- First hand knowledge of the patient's living conditions
- Continue to support our patients by addressing their needs and concerns

CREMS: Extension of Service



- In situations or circumstance where the patient may benefit from some assistance in their home
- Paramedics make a referral on behalf of the patient to the CCAC
- Connecting the patient to support that improves their quality of life <u>at home</u>

Toronto EMS at a Glance



- Population ~2.5 mil + 1 mil daytime surge
- Area 630 sq km (243 sq mi)
- Culturally diverse (49.9% foreign born)
 - 40 predominant, +100 languages
- 1200 staff including 850 paramedics
- Average peak staffing 100 ambulances / day
- +300,000 calls / year
- 800 calls / day; ~500 transports / day

Historical Overview



- Program developed and implemented in 2006
- Initially started in response to frequent fall calls
- Collaboration of various stakeholders in specific area of city
- Toronto Central CCAC
- Limited implementation in EMS operations

Pilot Statistics



- April 18, 2005 to September 15, 2006
- 81 CREMS
- 77 CREMS sent to CCAC
 - 17 not processed yet
 - 60 processed
 - 26/60 (43%) existing CCAC clients
- 4 CREMS <u>not</u> sent to CCAC

Reasons for CREMS



- 20 Mobility issues (frequent falls or fall safety concern)
- 16 Failure to thrive
- 15 Substance abuse, social or psychiatric issues
- 7 Non-specific details
- 6 Increased dementia or confusion
- 5 Frequent calls to EMS
- 3 Long Term Care placement needed
- 3 Existing CCAC client requires more assistance
- 1 Child social issues
- 1 Non-specific in-home support required

Pilot Outcomes (E.g. # 1)



CREMS made April 27, 2006

- 68 y/o/ male falls often requiring lift assists
 Paramedics concerned re: home safety and mobility
- Medical History: Hypertension, Diabetes, double amputee
- Previous CCAC client
- Occupational Therapy added to his care
- Pre-CREMS 2 Transports, 2 Non-transports
- Post-CREMS 0 Transports, 1 Non-transport

Pilot Outcomes (E.g. # 2)



CREMS made June 13, 2006

- 85 y/o female
 Paramedics concerned, more help required with activities of daily living
- Medical History: Cardiac disease, COPD
- Previous CCAC client
- Increased PSW hours
- Pre-CREMS 1 Transports, 0 Non-transports
- Post-CREMS 0 Transports, 0 Non-transports

Pilot Outcomes (E.g. # 3)



CREMS made August 10, 2006

- 71 y/o male, multiple falls
- Medical History: Hypertension, Diabetes,
 Osteoporosis, Dementia, recent arm fracture
- Not a CCAC client
- New CCAC services OT, PT, PSW
- Pre-CREMS 2 Transports, 1 Non-transports
- Post-CREMS 0 Transports, 0 Non-transports

Community Care Access Centre



- 5 CCACs within Toronto
- Specific service delivery model
- All referrals are warehoused by Toronto
 Central and then forwarded to the appropriate
 CCAC for the patient
 - Based on patient residence
 - Hospital patient transported to

Community Care Access Centre



Core Services

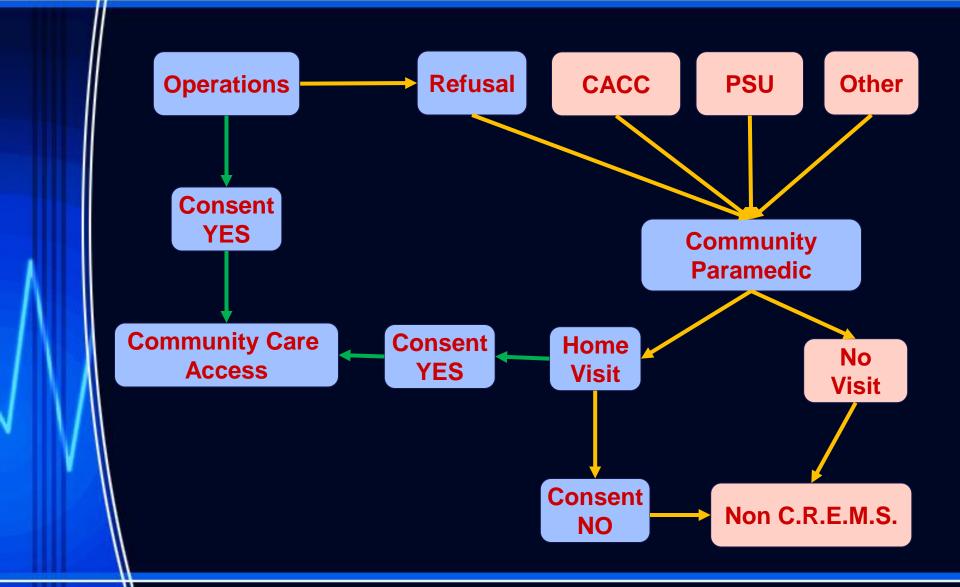
- Nursing
- Personal Support
- Physiotherapy
- Occupational Therapy
- Speech Language Therapy
- Extreme Cleaning

Secondary Services

- Social Work
- Nutritional Counselling
- Medical Supplies / Equipment
- Health Care Connect
- Long Term Care Placement

CREMS Overview





CREMS YES



- Consent obtained
- Call the CREMS Yes line
- Referral call is logged and forwarded
 - CCAC Customer Service Representative
 - After Hours Answering Service
- Received by Toronto Central CCAC
- Forwarded to appropriate CCAC

CCAC Follow Up



- Phone follow up within 36 hours
- Case Coordinator assessment within 1 week
- Implementation of services within 2 weeks
 - Some services may not be implemented immediately due to individual CCAC delivery models or waiting lists for specific services

Refusal / CNO / Notification



- Patient refuses or is unable to give consent
- Notification from 3rd party (dispatch, EMS Superintendent)
- Submit details to CPP staff directly or voice mail
- Include same information as for CREMS Yes along with details of refusal / notification

CREMS 2006-2007





CREMS 2008





CREMS 2009





2006-2007 Pilot



Successes:

- Patient benefit (new or increased client services)
- Streamlined approach for assistance (CREMS)
- Multiple EMS roles (Paramedic, EMD, etc.)
- CCAC role
- System benefit

Challenges

- Data collection, documentation
- Information exchange

Next steps

- Improved referral process
- Expansion city-wide
- Comprehensive review

2008 System Wide



- Streamlined referral process
 - Centralized phone number through call logger
 - All referrals received and forwarded by TC CCAC
- Database for tracking referrals
 - Updated 2009
- Education piece delivered to paramedics through CME
- Prompt cards for paramedics

2009 Enhanced



Successes:

- 967 CREMS submitted!
- CREMS disposition and follow up
- Streamline referral process (after hours)
- Community Paramedic
- Improved rapport with CCAC

Challenges

- Documentation (refusals, notifications, home visits)
- Limited patient services

Next steps

- Platform rebuild
- Explore partnerships
- Formalize Community Paramedic

Community Paramedic



- Introduction March 2009
- Primary role: CREMS follow up
- 299 home visits (March 2009-Jan 2010)
 - 55 follow up referrals to CCAC
 - 26 CREMS refusals converted to consents
 - 7 interventions (lift assist, clinical assessment)
- Define limits of current process

CPP Follow Up



- Community Paramedic will research call including EMS history and patient details
- Community Paramedic will follow up with a home visit to the patient
 - Explain CCAC services & attempt to obtain consent
 - Approximately 50% conversion of refusals
- Notify hospital CCAC or social work of paramedic concerns for patient

Criteria for Home Visits



- Patients who refused CREMS
- Multiple CREMS
- Notifications (3rd party referrals)
- Unique circumstances
- Impact review (increases in EMS calls post CREMS)
- Disposition follow up (not on service, no change in service)

Individual Successes





- 86 yo M fall
- Patient refused transport/CREMS
- EMS called in refusal
- CP follow up 3 d later
- Pt collapsed / trapped in apartment x 3 days
- Transported to hospital
- Long term care placement

Individual Successes



- Notified by citizen, concerns for 90 yo F
- Pt had fall on street; taxi home
- Immobile x 6 days, relying on friends
- Reluctant to call ambulance
- CP home visit
 - Hip fracture
 - Convinced patient of transport
 - CCAC referral
 - Consult with SW at convalescent facility

Impacts: EMS Operations

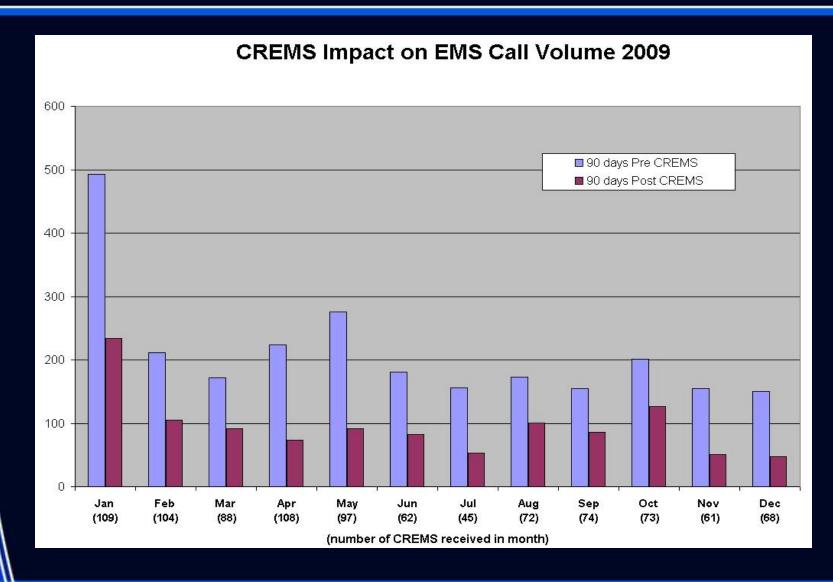


Does connecting a patient with support services in their home reduce their demand/use of EMS?

 Review of EMS call volumes 90 days pre & post estimated implementation of services (14 days post referral)

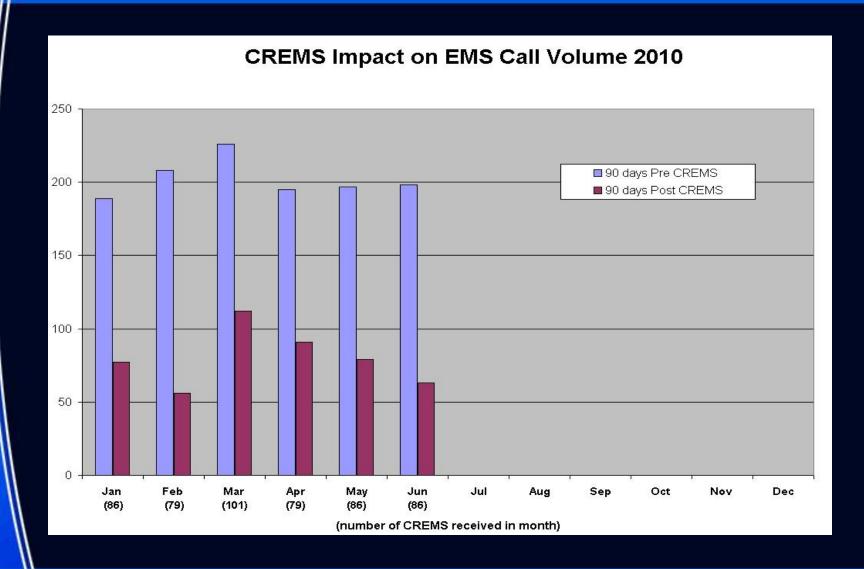
Impacts 2009





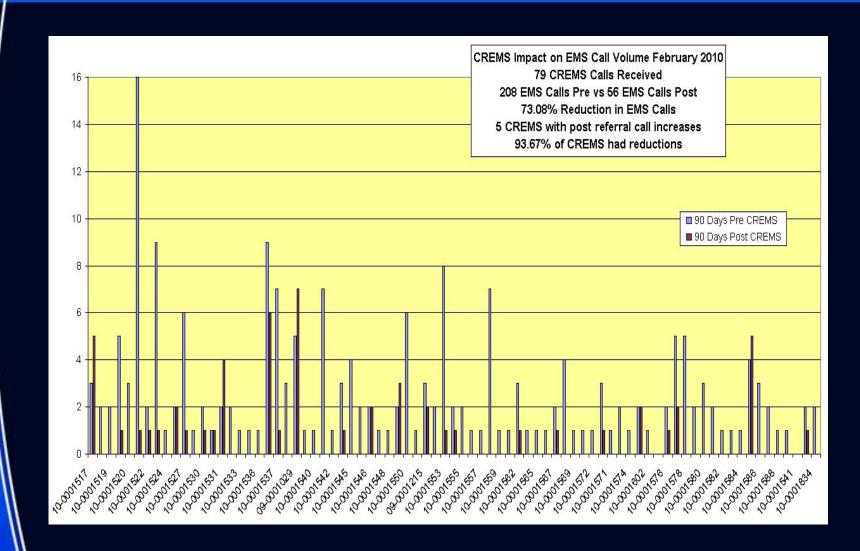
Impacts 2010





System Impacts





System Impacts

FEBRUARY 2010

- 79 CREMS received
- 208 vs 56
- 73.08% reduction in EMS calls
- 5 CREMS with post referral increases
- 93.67% of CREMS had reductions

Individual Impacts



- 10-0001525
 Pre CREMS 5 calls (8.25 hr)
 Post CREMS 1 call (1.53 hr)
- New client, Parkinson's

Receiving OT

Individual Impacts



10-0001461
 Pre CREMS 16 calls (24.04 hr)
 Post CREMS 1 call (3.77 hr)

Central CCAC
 Breathing problems

Individual Impacts



- 10-0001517
 Pre CREMS 3 calls (4.29 hr)
 Post CREMS 5 calls (20.09 hr)
- New Client needs help with shopping and homemaking. Medical issues, diabetes. Not receiving proper care.
- Referred to CNAP hub
- CVA 2 months later

Challenges



- Typically the most vulnerable, marginalized, at risk patients have the greatest challenges in connecting with assistance
 - Not eligible
 - Inappropriate services
 - Patient refusal

Homeless







"No fixed address" ... not eligible for CCAC!



Recluse / Shut Ins







Right to refuse, issues of capacity, by-law Mental health issues

Hoarding







Right to choose; mental health issues

Marginalized







Impoverished; no social support; isolated

Successes



- Annual number of referrals increasing
 - Aging population
 - Challenged health care system
 - More staff participating in CREMS
- Multifaceted approach to our patients
 - Empowerment/independence
 - Minimize risks to health & wellness
 - Surveillance tool

Program Expansion



- Many marginalized patients unable to receive services or assistance
- Developing partnerships to meet their needs

- Streamlining the referral process
- Improved feedback on referrals
- Role of the Community Paramedic

Community Paramedicine Program



Chris Olynyk, Commander colynyk@toronto.ca

Adam Thurston, Superintendent athurst@toronto.ca

John Klich, Superintendent 416-392-3881 jklich@toronto.ca