

Emergency Medical Services Chiefs of Canada (EMSCC) Directeurs des services médicaux d'urgence du Canada (DSMUC)

Ms. Joy Smith, MP Kildonan - St Paul Chair, Standing Committee on Health

January 4, 2012

Re: Chronic Diseases Related to Ageing and Community Paramedicine

Dear Chair Smith and Members of the Standing Committee on Health:

Thank you for the opportunity to present as a Witness to the Standing Committee on Health on November 28, 2011. It was my pleasure to engage in a presentation and subsequent discussion on "Chronic Diseases Related to Ageing" and the positive role Emergency Medical Services can contribute in addressing the emerging issues.

Based on the discussion, I was asked by the Committee to provide further information on Community Paramedicine and the associated innovative programs that can improve the access and delivery of health care to seniors. Further, I indicated that Emergency Medical Services Chiefs of Canada (EMSCC) would provide further information on cost savings to the health care system via Community Paramedicine programs.

Attached to this letter is a document prepared by the EMSCC that defines Community Paramedicine and provides examples of related innovative programs across Canada and the world. As evident in the examples, Community Paramedicine provides Canadians greater access to health care (in remote, rural and urban centres) in a service delivery model that provides substantial savings to the health care system.

Not only does Community Paramedicine address chronic diseases related to an ageing population, it also addresses improving access to the health care system by seniors, Canadians living in remote and rural locations, and other vulnerable members of the community.

Thank you for this opportunity to provide further information. As President of the EMSCC, I look forward to continuing this discussion.

Sincerely,

Michael Nolan President, EMSCC



Community Paramedicine

Submission to the Standing Committee on Health December 2011

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Emergency Medical Services Chiefs of Canada (EMSCC) Directeurs des services médicaux d'urgence du Canada (DSMUC)

Organized in 2002, the EMSCC/DSMUC is a Canada-wide organization representing the Leaders of EMS programs in Canada. Together, EMS Chiefs oversee approximately 30,000+ Paramedics from coast to coast, which represents the third largest health care provider group in Canada. (For more information on the EMSCC, please visit <u>www.emscc.ca</u>).

As recommended in the EMSCC White Paper entitled *The Future of EMS in Canada*, "EMS must pursue innovation and new models of service delivery to meet the community-defined needs. Collaboration of EMS and community organizations, social service agencies, and public safety groups will enable innovative initiatives that have the potential to improve the level of health care within a community."

EMSCC is working collaboratively with their international partners on Community Paramedicine. The work is organized via the *International Roundtable on Community Paramedicine* and thereby allows a dedicated forum where various countries and regions can exchange information and innovative programs that is focused on exploring the promotion and better delivery of health care through the utilization of "traditional" and "non-traditional" models of care. (For more information on the International Roundtable on Community Paramedicine, please visit <u>www.ircp.info</u>).

The purpose of this paper is to provide further information to the Standing Committee of Health relative to Community Paramedicine. This information is based on the current experiences in Canada and internationally relative to innovative paramedic practice that will assist Canadians in their current and future health care needs.

Michael Nolan President EMSCC

What is Community Paramedicine?

Traditionally, paramedics are trained to respond to emergency 911 calls, treat patients who are ill and injured, and transport the patients to emergency departments. However, not all patients require transport to an emergency department. Many simply need basic assessment and referral to an appropriate community service. This is evident with seniors, residents in rural and remote areas, and vulnerable members of the community.

Representing just 14% of the population, seniors use 40% of hospital services in Canada and account for about 45% of all provincial and territorial government health spending. As reported by the *Canadian Institute for Health Information*, one in four Canadians will be over the age of 65 representing 25% of the population by 2036, thereby placing further pressures on health care costs.¹

In Canada, 60% of Paramedic responses are for patients over the age of 60, while patients over the age of 80 represent in excess of 27% of all requests for assistance through 911. In a direct correlation, with an ageing population, the paramedic response call volume to seniors requesting health care assistance is increasing.

In an effort to maximize efficiencies in patient care and resources, many paramedic services are finding innovative programs and best practices to address the non-emergent primary care needs of seniors and other vulnerable members of their respective communities. One such innovative program is Community Paramedicine; where paramedics are engaged in non-traditional roles to assist in the health care of the population.

According to the International Roundtable, *Community Paramedicine* is a model of care whereby paramedics apply their training and skills in "non-traditional" community-based environments, often outside the usual emergency response and transportation model). The community paramedic practices within an "expanded scope", which includes the application of specialized skills and protocols beyond the base paramedic training. The community paramedic engages in an "expanded role" working in non-traditional roles using existing skills.

By expanding the role of paramedics, and working collaboratively with other community agencies, paramedics can manage the patient who does not require the immediate need to be treated and transported to an emergency department. Via an expanded paramedic scope of practice, paramedics can manage the patient and refer the patient to the appropriate community agency (such as the patient's family doctor, community care access centre, home care, public health, mental health, addiction services, and/or domestic violence services). At times, it may be as simple as the paramedic assisting the patient to contact a family member or friend to attend their home. By referring the patient to the most appropriate community agency or family/friend, there will be a significant reduction in visits to emergency departments and associated hospitalizations.

The Positive Outcomes of Community Paramedicine

Due to advancements in technology, training delivery, and medical research – the scope of practice can be easily increased. This includes educating paramedics in advanced patient care assessments and skills (such as 12-Lead ECG acquisition and interpretation, blood glucose testing, monitoring oxygen

saturation levels, intravenous therapy, phlebotomy, wound care, expanded drug administration, antibiotic therapy, and delivery of vaccinations). An expanded scope of practice in paramedics leads to the ability to initiate a Community Paramedicine program.

Community Paramedicine will assist in alleviating the increasing pressure on our health care system. Overall, as evident with many innovative programs across Canada and globally, Community Paramedicine will achieve significant savings in health care by:

Reducing the volume of 911 calls

• By entering designated communities - such as in Saskatoon with the

Technology:

 Many paramedic services have implemented the infrastructure to capture and distribute health information via electronic reporting.
 This e-Health information can then be shared with other healthcare and social organizations in the continuum of patient care.

■ Significant advancements have been made in mobile diagnostic equipment (such as cardiac monitoring, ultrasound, oximeters, and glucometers) thereby enabling paramedics to conduct mobile clinical assessments.

■ Advancements in communication technology (video, voice and data) has created the ability for paramedics to consult 24/7 with off-site medical practitioners.

innovative Health Bus - patients can access medical advice and care rather then calling 911 for assistance. This will directly reduce the 911 call volume, take pressure of the 911 system, and allow 911 call takers to manage other priority emergency calls.

 A reduction in 911 calls also reduces the need of Tiered Responses by allied emergency services (police, fire and EMS). This decrease in tiered response allows allied emergency services to focus on other priority calls, and, increases community safety by reducing emergency vehicles needlessly traveling rapidly through neighbourhoods with lights and sirens.

Reducing emergency department visits

- With paramedics referring patients to appropriate community agencies, there is a decrease in need of transporting these patients to local emergency departments.
- Reducing emergency department visits will lessen the burden of overwhelmed hospitals and the associated wait times for patients to see an emergency physician.
- Reducing the visits to emergency departments will also assist in decreasing ambulance off-load delays (where patients cannot be transferred from paramedics to emergency department staff because there are no emergency beds available). During off-load delays, paramedics are confined with their patients at the hospital waiting for an emergency bed, rather than be available for other 911 emergency calls in the community. This has been negatively affecting EMS system performance globally.

Reducing hospitalizations

• By the early detection of medical problems with seniors and other vulnerable members of the community, medical conditions can be prevented from advancing

into further complex cases and/or emergencies. With early detection, and associated health promotion, the wellness of a community's population is increased.

• With the reduction in hospitalization via early detection and health promotion, there is an improvement in hospital capacity and alternate level of care availability.

Reducing the demand on long-term care beds

- By providing seniors with the ability to stay at home longer supported by family, friends, home care, EMS and other community agencies there will a decrease in demand on long-term care (LTC) beds.
- From reducing the demand on LTC beds, there is associated reduction in seniors held idle at hospitals due to the lack of LTC vacancy. This translates to a reduction in the congestion of patients at the emergency departments awaiting beds in the other hospital wards.

Reducing mortality and morbidity

• Community Paramedicine, associated with other community programs focused on the early detection and health promotion of seniors, there is prevention in the untreated chronic diseases of seniors. This will lead to a reduction in patient mortality and morbidity.

Filling in the health care gaps

Many communities in rural and remote areas of Canada are experiencing the shortage
of doctors and nurses in order to meet their health care needs. An alternative model
is enabling paramedics to provide health and education services, when not engaged in
emergency services.

Examples of Community Paramedicine in Canada and the World

In Canada, there are many innovative Community Paramedicine programs that have been implemented with significant success.

In **Nova Scotia**, access to health care can be quite challenging on the islands of Long and Brier where recruitment of a doctor was not possible. This prompted the Emergency Health Services (EHS) Nova Scotia to establish 24/7 emergency paramedic coverage on the islands. When not engaged in emergency calls, the paramedics work collaboratively with a nurse practitioner and an off-site physician in providing non-emergent health care by administering flu shots, holding clinics, and checking blood pressures. In addition, paramedics began to take phone calls from the community residents for non-emergent services such as diabetic assessments, wound care, drawing blood for

subsequent lab tests, congestive heart failure assessment, administration of antibiotics, urinalysis assessment, suture/staple removal, identifying medication compliance, and providing education sessions (such as fall prevention, CPR and first aid, proper child seat installation, and bicycle helmet safety).

Reduction in Doctor visits by 28% and a decrease in trips to the Emergency Department visits by 40%. Overall, as the program was communicated to the residents on the islands, patient contact climbed to 250-300 per month.² This innovative model of care resulted in decreased costs, increased access to health services, a high level of acceptance and satisfaction within the community, and effective collaboration amongst health and social care providers. Visits to the doctor on mainland Nova Scotia decreased by 28%, and trips to a hospital emergency department fell by 40% over a five year period. According to researchers, direct annual health care cost diminished from \$2380 to \$1375 per person over the three years of the study.³

In **Ontario**, Toronto EMS commenced their successful Community Paramedicine referral program in 2006. The program was initiated to address the growing number of paramedic responses (over

60,000 non-emergency calls per annum) where many of the patients did not require transport to emergency departments, but required simple primary care or access to other community services. Toronto EMS discovered that specific demographics of their community were calling 911 because they were unaware how to access other health and social services.

When paramedics respond to a 911 call, they are often in the unique position of witnessing some of the more intimate and private circumstances of the patients living conditions. Difficulties with the management of medical conditions, mobility, or performing activities of daily living are just a few of issues that may not be apparent to family, friends, healthcare providers, or social assistance. Patients can live with these issues for extended periods of time without receiving any assistance. Often EMS is the first health care provider to identify a need for services to help these patients.

Toronto's Community Referrals by EMS (CREMS) allows the paramedic to make a referral to the Community Care Access Centre (CCAC) on behalf of the patient with their consent. Some patients are not aware of the services that CCAC provides. Others do not recognize that they themselves are in need or could benefit from CCAC assistance. For many patients, having a paramedic offer them a CCAC referral is the first step to connecting them with much needed help.⁴

According to Toronto EMS, a snapshot of February 2010 call volume revealed a 73.8% reduction in calls from individuals who would have previously called 911. This reduction is attributed to 79 CREMS received in the same month.⁵

Travelling further west, in **Saskatchewan**, the provincial government announced the transition of Emergency Medical Services (EMS) to a Mobile Health Services (MHS) system. The new MHS system will continue to provide strong emergency care

Services provided on 5,936 visits, where 43% were repeat clients. services while providing opportunities for augmented, high quality patient care.⁶

One such augmented patient care program is the Saskatoon Health Bus. This mobile unit is a joint partnership amongst M.D. Ambulance, CUMFI, First Nations agencies, Saskatoon Health Region and the provincial Ministry of Health. The Health Bus was implemented to reduce the barriers faced by people who are geographically, socially, economically, and / or culturally isolated from accessing health care services. Staffed by

Monday	19th Street/Avenue C
Tuesday	Safeway Parking Lot (Avenue D & 33rd St)
Wednesday	(20th Street/Ave M)
Thursday	Shell Service Station (22nd Street/Ave P)
Friday	Giant Tiger (22nd Street/Ave F)
Saturday	Appleby Drive
Sunday	Affinity Credit Union (20th Street/Ave P)

paramedics and nurse practitioners, the Health Bus is scheduled 7 days a week on a rotating schedule. In an 8 hour day, the staff will provide a number of services and community referrals to various

In February 2010, there was a 73.8% reduction in EMS Calls.

populations (including seniors, First Nations, Métis, children, immigrants, refugees and those with chronic diseases). Specifically, the Health Bus staff diagnose and treat common illness and injuries, STI testing, pregnancy testing, birth control, provide free condoms, chronic disease monitoring, wound care & management, stitches and removal of stitches. Relative to community referrals, the staff will connect individuals to addiction, social and mental health agencies. According to the province, during 2009-10, approximately 5,936 visits to the Health Bus were recorded, where 43% were repeat clients.

In **Alberta**, there was a systemic transition of EMS from a municipal responsibility (in terms of governance and funding) to the one provincial health authority, Alberta Health Services (AHS). To guide this transition, AHS developed a 5-year strategic plan (2010-2015) entitled *EMS: On the Move.* In the strategic plan, AHS adopted primary focus areas, including the focus of co-locating EMS practitioners at healthcare facilities, as appropriate, enhancing the integration of EMS within health facilities and improving system efficiencies.⁷ According to their 2010-2011 key initiatives, AHS has identified a number of key goals that support the notion of the community paramedic:

- Undertake activities to shift the initiation of definitive care to the point of first patient contact with EMS. Priority activities include development and implementation of assess, treat and refer protocols, referral processes and alternative transport destinations; and
- Integrate the EMS service plan with health services across the care continuum with a priority focus on opportunities to positively impact Senior's Health/Home Care, Mental Health, Public/Community Health and emergency departments.

There are many examples cited⁸ where AHS key initiatives have been implemented. In specific communities (such as Fort MacLeod, Fort Vermillion, Peace River and High Level) paramedics are working in the Emergency Departments as part of their regular scheduled ambulance duties because of the shortage of doctors. At Rainbow Lake, where there is no available doctor, paramedics either work with a nurse practitioner or alone in order to staff the community's health care clinic. In the urban centres of Calgary and Edmonton, paramedics have been permitted to refer clients needing extra services to Home Care via Community Care Access. And in Medicine Hat, paramedics work in partnership with the Home Care system to deliver in-home IV therapy and medication administration during off hours and weekends.

Overall, the innovative Community Paramedicine programs across Canada have assisted seniors, communities where there is a shortage of doctors and nurses, and marginalized members of the community – in meeting their non-emergent healthcare needs. The programs have also benefited hospitals and emergency resources by diverting away from emergency services towards more appropriate medical clinics, community care centres, and social agencies.

There is a well established Community Paramedicine program in Fort Worth, Tarrant County, **Texas** (population of 1.8 million). The program is a collaborative effort between MedStar Emergency Medical Services (MedStar), the Emergency Physicians Advisory Board (EPAB), John Peter Smith Health System (JPS), Tarrant County Public Health (TCPH) and the Mental Health and Mental Retardation Services of Tarrant County (MHMR). The program was initiated because patients were seeking

emergency medical care as they were unable or unwilling to obtain medical care in a more appropriate setting. The program administrators discovered without proper preventive or routine medical services, minor medical conditions may become acute,

A \$13.5 million reduction in charges and costs over a 2-year period.

prompting the need for emergency medical care. Thus, the partnership concluded that the Community Health Program will significantly reduce the overall cost of emergency care and provide a more appropriate use of pre-hospital and in-hospital emergency services.⁹

The MedStar EMS Community Health Program has indeed generated significant success. In Tarrant County alone, from July 2009 to August 2011, the Community Health Program has decreased EMS call volume by 58.2% achieving a savings of over \$3.7 million (patient charges and EMS costs). Over this same period, the program has also reduced emergency bed occupancy by 14,334 hours which can be translated to a cost savings of over \$9.8 million. Overall, the program has realized a \$13.5 million reduction in costs and charges over a 2-year period.

In the **United Kingdom**, the South Yorkshire Ambulance Service developed the *Paramedic Practitioner Older People's Support* scheme that set out to deliver patient-centred care to seniors calling 911 for an ambulance, but with conditions triaged as not immediately life threatening. Paramedics were trained in extended skills to assess and, when possible, treat older people in the community. Researchers, seeking to evaluate the cost effectiveness of the program, discovered a modest EMS savings of £140 per patient. However, when the Quality Adjusted Life Years (QALY) was considered simultaneously, the community paramedics had a greater than 95% chance of being cost effective at £20,000 per QALY.¹⁰

Similar challenges of providing health care services in rural and remote areas can be found in **Australia**. A review¹¹ of ambulance services discovered three service delivery models in addressing these challenges:

Derimary Health Care Model -

Where ambulance services recognized that 25% of patients did not need transportation to hospital and that these patients could be safely assessed and managed or referred without needing to leave the comfort of their own home. Not only was this model implemented in the rural areas of New South Wales, the model was also introduced by Queensland Ambulance Service to meet the needs of seniors and marginalized community members living in urban centres.

Substitution Model –

Where paramedics are staffed in some South Australian Country hospitals (due to shortages in general practitioners) and in Alice Springs Emergency Department (due to shortages in nursing staff).

□ Community Coordination Model –

A focus on recruiting, retaining and supporting existing volunteers whilst providing support to existing health services where required.

As part of their discussion, the Australian reviewers suggest paramedics are well placed health professional that can play a key role in contributing to health outcomes of Australians. In rural and remote areas, paramedics have capacity to contribute positively to the sustainability and social capital of communities due to their medium to low emergency response workloads. It is also suggested that paramedic services, in association with other community services, can apply this expanded scope in urban settings to meet the needs of seniors.

The efforts of paramedic services cannot be done in isolation. Although there is great variety of Community Paramedicine programs, there are two common elements relevant to all programs: (1) meeting a local need for services using paramedics; and (2) engaging multiple stakeholders to ensure a seamless integration of the program into the health care continuum. A comprehensive, collaborative strategic plan will be integral to the successful implementation of a community paramedic program.¹²

The Cost Savings Achieved

In Canada, although the innovative Community Paramedicine programs have been very successful, there has been no formal and systemic quantifiable cost-benefit analysis conducted. However, based on the experiences in the United States and the United Kingdom, financial projections can be estimated.

According to the Ontario Municipal Benchmark Initiatives (OMBI) 2010 Report¹³, Toronto EMS operates at \$232 per unit hour with weighted in-service of 248 hours per 1,000 people. If Toronto EMS was able to reduce their patient transportation to hospital call volume by 10 % via Community Paramedicine initiatives, then the potential savings to EMS would equate to over \$8.4 million per annum. The impact to emergency departments would be an estimated reduction of 109,500 bed hours (based on the MedStar projection of 6 hours per primary care visit). These savings would be reduced by the costs to administer the program, educate the paramedics in an expanded scope of practice, and continuous quality improvement initiatives. Including these off-set costs, the savings to primary health care is in the tens of million of dollars in the Greater Toronto Area. In formulating public policy, one would need to consider the impact of these savings across other urban areas of Canada.

The opportunities are limitless. For example, simply providing Community Paramedicine at an urban adult detoxification centre in Winnipeg produced a 52% reduction in ambulance utilization (when compared to the average in the previous 3 years). The provision of an expanded-scope paramedic at an urban intoxication center resulted in an alternate route for the medical management of the resource-heavy acutely intoxicated patient population.¹⁴ The savings were estimated at approximately \$250,000 per annum.

In rural and remote areas of Canada, although the economic impact is not as high as in urban areas, the financial advantages remain. In Nova Scotia, researchers identified a direct annual health care costs reduced from \$2380 to \$1375 per person (over the three years of the study). Reducing annual health care costs by 42% will allow policy makers the flexibility to reinvest the savings into other community programs.

In rural United States, where rural-dwelling seniors experience unique issues related to accessing medical and social services, researchers discovered that a Community Paramedicine program can facilitate the needed linkages between vulnerable rural-dwelling older adults and needed community-based social and medical services.¹⁵

EMSCC is striving to work with academic researchers to evaluate current Community Paramedicine programs to further analyze financial impacts to the health care system.

Recommendations

Community Paramedicine benefits populations in both rural and urban settings. As evident in Nova Scotia, Community Paramedicine has filled the service needs where doctor and hospital accessibility is challenged. In Toronto, Community Paramedicine has provided an alternative model of health care accessibility in lieu of exhausting 911 resources. These strategies have also been implemented in the United States, United Kingdom and Australia. Overall, Community Paramedicine can function as the connective tissue that allows seniors and marginalized members of the community access non-emergent primary health care and social services.

Given the information coordinated by EMSCC and their partners, the following recommendations are respectfully submitted to the Standing Committee on Health:

- 1. Federal government supports the efforts of EMSCC in developing both rural and urban Community Paramedicine programs in association with provincial and territorial regulators, the medical community, and social networks. This includes expanding the scope of paramedic practice to non-traditional roles and thereby improving mobile health services.
- 2. EMSCC work with senior levels of government to secure funding in developing best practice models of Community Paramedicine. These pilot projects can then be emulated across the nation, thereby allowing Canadians greater access to health care and social assistance.
- 3. Federal government support EMSCC to work collaboratively with researchers in validating the positive outcomes of Community Paramedicine. This includes quantifying the cost savings achieved by the health care system.

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