Tackling the burden of hypertension in Canada

Encouraging collaborative care

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The Canadian Hypertension Education Program (CHEP) has the mandate of reducing the burden of cardiovascular disease in Canada through optimized hypertension management. The process of screening, diagnosing, treating, and monitoring hypertension on an ongoing basis generates the single greatest number of family physician office visits in Canada—more than 20 million visits annually. This represents a substantial workload for physicians. Complicating the matter is the fact that approximately 15% of the Canadian population currently does not have a family physician. Moreover, the prevalence of diagnosed hypertension is growing: approximately 1 in 4 Canadians is affected and this is expected to increase. In those older than 50 years of age, a recent Canadian population analysis reports the prevalence of hypertension as greater than 50%. In a national survey done between 1986 and 1992, only a minority of patients with hypertension were identified, treated, and controlled to their recommended blood pressure target.

Rates of hypertension control have improved, according to a recent survey in Ontario, but at least 30% of Ontarians 18 years of age or older were still either uncontrolled or not identified. For these reasons, the Implementation Task Force (ITF) of CHEP felt it would be beneficial to acknowledge the existing care gap in the management of hypertension and encourage primary health care professionals to further integrate and coordinate their efforts with the ultimate goal of decreasing the burden of cardiovascular disease. Given the prevalence of hypertension and the large patient care demands already placed on family physicians, one solution for the screening and care of patients with hypertension is to take full advantage of the special knowledge, skills, and abilities of other members of the health care team.

The ITF committee comprises 3 primary care subgroups: family physicians, nurses, and pharmacists. At the annual ITF meeting in September 2007, it was identified that the collaboration of various health care professionals can be hindered by the lack of clarity regarding the role of each professional group in the management of patients with hypertension. Given the multidisciplinary nature of CHEP and the ITF, we felt it was important for us to endorse interdisciplinary collaboration and explore how it could be further enhanced. Currently, there is little data to demonstrate if or how collaborative care affects patient outcomes; however, it seems intuitive that hypertension control will be enhanced if all team members’ special skill sets are used to the fullest. The family physician has traditionally been central to the coordination of care for the patient. The changing scope of practice for nurses, nurse practitioners, and pharmacists, however, is facilitating their greater involvement in chronic disease management. Further, increasing numbers of patients with hypertension coupled with the demands on family physicians suggests that collaboration in care is essential. Although interdisciplinary teams (such as primary care networks or family health teams) either exist or are being created to incorporate other health professionals into primary health care, this concept is still in its infancy and likely affects a minority of patients with hypertension. Instead, the bulk of care is happening at the traditional family practice level in which the infrastructure and financial resources to facilitate routine interdisciplinary care are lacking.

The intent of this paper is to generate discussion on how we can collaboratively improve care in our respective communities by sharing responsibility, with the common goal of improving hypertension management in Canada. In doing so, we hope to identify gaps in our current knowledge that might help researchers. We hope that our endorsement of interdisciplinary collaboration will encourage further research aimed at determining whether such collaboration results in enhanced outcomes for patients with hypertension. We acknowledge the overlapping roles among physicians, nurses, and pharmacists; this paper will highlight the unique skill set of each group, which can contribute to enhanced patient management. (Figure 1).

Shared care

It is important to emphasize that all health professional groups must work toward optimizing hypertension prevention, detection, lifestyle modification,
treatment, and adherence. Coordination of services in the diverse array of community settings where patient care can be most efficiently provided is likely to provide the best patient outcomes; this reinforces the importance of integrating the skills and knowledge of nurses, pharmacists, and physicians. The overlapping skill sets of each profession can facilitate optimal use of health care resources by allowing various care delivery options.

Each health care professional has training that allows him or her to make a unique contribution to patient care decisions; the concept that the “whole is greater than the sum of its parts” should be embraced. Physicians, nurses, and pharmacists are all capable of obtaining an accurate blood pressure measurement, but the management plan for an individual patient is often dependent on a variety of other factors. Each practitioner can play a key role in identifying, communicating, and taking responsibility for the collective treatment plan. It is expected that any patient information affecting the treatment plan be appropriately documented and communicated with all team members; CHEP supports and encourages shared responsibility for patients with or at risk for hypertension.

Table 1 highlights some of the skill sets among health professional groups; although this list is not intended to be all-inclusive, it represents a starting point for initiating discussion within the primary care community. We believe it is important to provide uniform messages tailored to each patient and his or her expectations and to effectively communicate the ongoing care concerns for our shared patients.

Building blocks
The burden of hypertension, both detected and undetected, is too great for health care professionals not to work together for the sake of the patients, whom we all serve. Underdetection, issues of patient adherence and clinical inertia, and the complexity of treatment in the presence of other diseases impede our ability to gain better control rates nationally. By sharing responsibility with other health care professionals, like nurses and pharmacists, we can shift some of the burden of care from the family physician. Indeed, a recent systematic review concluded that using a team approach in the treatment of hypertension was the single most effective intervention to improve quality of care.5

Pharmacists, nurses, and other appropriate health care providers must be ready and willing to accept additional responsibility, but they also need to feel empowered to take on additional tasks. In addition, patients need to be educated about expectations from various health care professionals and how these groups can have a greater role and responsibility for their care. The ultimate goal is to enable patients to become ambassadors for their own hypertension management and to approach the appropriate health care professional for ongoing support and education when required.

The Romanow Report,6 released in 2002, identified 4 essential building blocks for the delivery of primary health care. These included continuity of care, early detection and action, better information on needs and outcomes, and stronger incentives and approaches for health care providers to participate in primary care. The report also emphasized the importance of collaborative teams and
networks in future primary care models. Making this happen effectively is now our collective responsibility. We need to stop talking about it and start doing it.

Each year CHEP has done an excellent job updating the recommendations on the screening, diagnosis, and treatment of hypertension. Moreover, CHEP has endorsed the development of profession-specific guidelines for hypertension management with family physicians, pharmacists, and nurses. Evidence-based recommendations to assist patients in understanding and managing hypertension have also been developed. These guidelines encourage shared care and responsibility-taking, and provide accurate and timely information to support good management decisions for our patients. The CHEP website, www.hypertension.ca, contains many resources for health care providers and patients alike. Using these tools and incorporating them into your practice will provide an excellent framework for many relevant discussions.

All in all
The 2008 Annual Update to the CHEP guidelines promotes empowering patients to be more involved in their own self-management. Successfully achieving this will require the united efforts of all primary health care providers. Communication among team members will be of paramount importance, so that treatment goals are clearly understood, aligned, and reinforced by all team members. We encourage local groups, including other health care professionals such as dietitians, social workers, and exercise therapists, to begin this dialogue. It is important to develop communication techniques that will work in each specific setting. We challenge you to think about the way you currently provide care and whether or not you are maximizing the benefits of a collaborative, multidisciplinary approach to hypertension management.

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**Table 1. Attributes most appropriately aligned with each health professional group: A focus on physicians, nurses and nurse practitioners, and pharmacists.**

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<th>HEALTH CARE GROUP</th>
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| Physicians | • Have well-formed long-term relationships with patients  
• Have knowledge of relevant comorbidities, history, and social circumstances  
• Perform diagnostic workup for secondary causes of hypertension  
• Arrange appropriate ongoing diagnostic and laboratory testing once the diagnosis has been made  
• Identify the presence of and the need to treat multiple risk factors  
• Develop treatment plans, including integration of the management of hypertension with the management of other risks and comorbidities  
• Know when to refer for specialist consultation |
| Nurses and nurse practitioners | • Are accessible in primary care settings, specialty clinics, and inpatient settings  
• Screen at-risk patients in all settings  
• Provide patient education on pharmacologic treatment and lifestyle changes, with additional time given to reinforcing important concepts and encouraging self-management  
• Take correct blood pressure measurements and educate patients on proper home-measurement technique  
• Nurse practitioners diagnose patients with primary hypertension and assess, counsel on, and monitor antihypertensive drug therapy |
| Pharmacists | • Are highly accessible and present in most communities  
• Screen at-risk patients (public health approach)  
• Sell blood pressure monitoring devices, and ensure that only approved devices are sold to patients and that devices are used properly by patients  
• Have medication expertise, with respect to selection and monitoring of drug therapy, drug-related causes of hypertension, patient counseling, drug interactions, and cost effectiveness  
• Assess medication adherence, reinforce its importance, and share this information with the team; medication-packaging aids can be implemented if required  
• Can proactively identify patients with poorly controlled hypertension or other issues and refer them to other health care professionals |

**Consider these questions...**

Think about the way you currently provide care, and ask yourself the following questions:

- Do I routinely screen all my patients for hypertension?
- Do I routinely screen for hypertension in patients known to be high risk (eg, patients with diabetes, patients with a history of coronary artery disease)?
- Do I routinely discuss important lifestyle modifications to decrease the risk of hypertension?

Ask yourself the following questions when treating patients with hypertension:

- Are treatment goals documented?
- Do my patients know how to properly measure their blood pressure at home?
- Do my patients adhere to medication and lifestyle recommendations?
- Are treatment goals maintained over the long term?
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Competing interests
Ms Thompson has participated on advisory boards for Sanofi-Aventis and Astellas Pharma, and in a hypertension workshop for Pharmascience. Dr Campbell gives speeches, sits on advisory boards, and provides expert advice for most of Canada’s Research-Based Pharmaceutical Companies (Rx&D) that produce antihypertensive drugs in Canada.

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The opinions expressed in commentaries are those of the authors. Publication does not imply endorsement by the College of Family Physicians of Canada.

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