The Clinical Practice Guideline Initiative: A joint collaboration designed to improve the quality of care delivered by doctors of chiropractic.

André Bussières, DC, MSc, PhD, FCCS(C)*
Kent Stuber, DC, MSc **

Background
One important reason patients consult primary care professionals, including general practitioners and chiropractors, is for musculoskeletal (MSK) conditions.1 Musculoskeletal conditions (spinal pain, consequences of injuries, osteoporosis, and arthritis) result in an enormous social, psychological, and economic burden to society1-8, and are the leading cause of physical disability.9 Chiropractic is a regulated health profession (serving approximately 10% of the population)10 that has contributed to the health and well-being of North Americans for over a century.

Despite available evidence for optimal management of back and neck pain11-13, poor adherence to clinical practice guidelines and wide variations in services have been noted.12,14,15 Utilization of clinical practice guidelines (CPGs) is an important way to help implement research findings into clinical practice. Guidelines aim to describe appropriate care based on the best available scientific evidence and broad consensus while promoting efficient use of resources.16,17 These tools have the potential to improve the quality and safety of healthcare.18,19

Over a decade ago, the Canadian Chiropractic Association (CCA) and the Canadian Federation of Chiropractic Regulatory and Education Accrediting Boards (CFCRE-AB or Federation) launched the CPG project to develop clinical practice guidelines in order to improve chiropractic care delivery in Canada. Guidelines developed by the CPG project include the management of neck pain due to whiplash injuries20, headaches21, and neck pain not due to whiplash22,23 (an update of which is expected by the end of 2013).

Recent advances in methods to conduct knowledge synthesis24, derive evidence-based recommendations25, adapt high quality guidelines26, and increase the uptake of Clinical Practice Guidelines27,28 have prompted an update of the DIER (development, dissemination, implementation, evaluation, and revision) Plan published in the JCCA (Journal of the Canadian Chiropractic Association) in 2004.29 The 140 page report was submitted to the stakeholders of the Guideline Initiative for consideration. The report updates the structure, methods and procedures for the development, dissemination and implementation of clinical practice guidelines in chiropractic. It is anticipated that new updates will be necessary as the art and science of guideline development, dissemination and implementation continue to evolve and new standards are established. The Full Report will be available on the new Guideline Initiative website, expected to be up and running in the first quarter of 2014.

This is the first paper of a two part presentation of the Guideline Initiative and its expected deliverables. The second paper will present the guideline development, dissemination, and implementation framework which will be the foundation of the Initiative. We intend to engage clin-
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Overall purpose of the Guideline Initiative:
The overall purpose is to develop evidence-based Clinical Practice Guidelines and to facilitate the utilization of these and existing guidelines among chiropractors. Further, it aims to enhance academic, clinical and research partnerships to help close the gap between research knowledge and its implementation in clinical practice in order to improve health outcomes.

Scope:
The scope of the Guideline Initiative is limited to non-specific MSK conditions commonly seen by chiropractors including adult spinal and extremity disorders, headaches, pediatric conditions (scoliosis), and pre-specified objectives (e.g., assessment and/or treatment of low back pain). Studies on musculoskeletal disorders resulting from destructive and progressive pathologies affecting the spine will be excluded. However, diagnostic and assessment studies related to ruling out fractures, dislocations and other pathologies will be included in the scope of the Guideline Initiative.

Fundamental principles and values:
Principles and values behind the process are as follows:

Guidelines produced by the Guideline Initiative will be developed using the best available evidence and involving stakeholders in a transparent and collaborative manner. Stakeholders include professional organizations, health care professionals, consumers, and organizations that fund or carry out research. CPGs should address multiple dimensions of decision making. Providing open access to products developed by the Guideline Initiative (e.g., technical reports, guidelines, practitioner guides, and tools to facilitate dissemination and implementation) is one of the primary principles.

Despite significant challenges related to the management of chronic MSK conditions and associated comorbidities, a large proportion of chiropractors are solo practitioners. Management of these complex conditions requires inter-professional collaborations to improve the probability of favorable patient outcomes. Work undertaken by the Initiative will reflect the fact that an increasing number of chiropractors practice in multidisciplinary environments in the private sector, and more recently in the public setting as well.

The Institute of Medicine (2011) recently revised the definition of Clinical practice guidelines as: ‘Statements that include recommendations intended to optimize patient care that are informed by a systematic review of evidence and an assessment of the benefits and harm of alternative care options’.

Primary objectives of the Guideline Initiative:
1. To identify existing best practices for the management of patients with MSK conditions in the area of primary care AND to identify clinical areas where there is a need to develop best practice guidelines.

Sub-objectives
- To complete systematic searches and critical reviews of the scientific literature on MSK conditions, including the epidemiology, assessment/diagnosis, prognosis, economic costs when possible, and treatment of MSK disorders;
- To identify and compare the relative risks of treatments (harm) of MSK conditions;
- To develop guideline recommendations using a process that is scientifically sound and takes into account the views of end users (clinicians and patients), leaders/decision makers, and third party payers.
- To integrate the evidence on harm/benefit trade-off with patient preferences.

2. To promote the use of best available evidence and expert consensus to inform clinical decision making in order to improve the quality of care of patients with MSK conditions.

Sub-objectives
- To develop knowledge translation strategies and to help disseminate and implement these to increase guideline utilization, thus improving patient care and health.

3. To complete original Knowledge Translation (KT) research to assess the level of uptake of CPG recommendations.
Target audience:
The primary audience for the use of the guidelines are chiropractors (and their patients). The Guideline Initiative acknowledges that a secondary audience may take considerable interest in the recommendations, including other health disciplines, third party payers, attorneys and expert witnesses.

Structure of the Guideline Initiative:
Diagram 1 illustrates the structure of the Initiative.

Diagram 1. Structure of the Guideline Initiative


- **Guideline Steering Committee (GSC)**
  - Main roles/Tasks:
    - Admin. & Financial responsibilities

- **Guideline Advisory Committee (GAC)**
  - Main roles/Tasks:
    - Set PICO questions for the GDG
    - Advise GSC and Editor regarding future directions for the Guideline Initiative

- **External Review Group (ERG)**
  - Roles/Tasks:
    - Validate CPGs, KT strategies, and implementation tools

- **Guideline Development Group (GDG)**
  - Roles/Tasks:
    - Oversight Committee
      - Provide guidance throughout CPG development
    - Working Group
      - Advice on method, PICO questions (w GAC), conduct systematic reviews, obtain other evidence, report minutes, document decisions, writing team.
    - Guideline panel
      - Develop CPG recommendations
      - Key messages (W GIG)

- **Guideline Implementation Group (GIG)**
  - Roles/Tasks:
    - Conduct environmental/needs assessment
    - Key messages (W GDG)
    - Develop implementation tools
    - Design KT strategies
    - Disseminate/help implement CPGs
    - Evaluate KT strategies
    - Monitor knowledge use
    - Write/publish KT studies

- **Guidelines Initiative Stakeholders (GIS) (observers)**
  - Main roles/Tasks:
    - Support the Guideline Initiative
    - Suggest CPG topic & related questions to the GAC
    - Facilitate dissemination and implementation of CPGs

- **International Scientific Advisory Committee (ISAC)**
  - Roles/Tasks:
    - Provide methodological/technical guidance as required
Clinical Practice Guidelines (CPGs): Since the first LBP guideline was released in 1987 by the Quebec Task Force, there has been a steady worldwide interest, resulting in the publication of numerous CPGs in several countries over the past decades. More recent published CPGs are of better quality, although there remain areas of discrepancy between available guidelines that need to be resolved. Few guidelines created for chiropractors currently exist, and some of these are now outdated. Topics covered include: Neck pain with and without whiplash, Headaches, Diagnostic imaging, and Low back pain. CPGs should address multiple dimensions of decision making, including: effectiveness; harm; quality of life; health-service delivery issues (i.e., dissemination and implementation), provider and patient compliance, and resources, use and cost. Guidelines produced by the Guideline Development Group (GDG) will be developed using the best available evidence and involving stakeholders and health disciplines in a transparent and collaborative manner. Stakeholders include professional organizations, clinicians, consumers, and organizations that fund or carry out research.

Knowledge Translation: Despite available evidence for optimal management of MSK conditions, poor adherence to guidelines and wide variations in services have been noted across spine care providers. Similar gaps (between what works and what is done in daily practice) have been observed for other conditions across the health care system in industrialized countries. Closing the research-practice gap involves modifying clinical practice, a complex and challenging endeavour of Knowledge Translation (KT). Putting knowledge into practice is a dynamic, iterative, and complex process. Success requires an integrated approach where all involved parties work together to select, tailor, and implement KT procedures.

Knowledge Translation Research: KT research is the scientific study of the determinants, processes and outcomes of dissemination and implementation. The Guideline Dissemination/Implementation Group (GIG) will aim to regularly publish its work in peer reviewed journals.

Deliverables of the Guideline Initiative:
Deliverables of the Guideline Initiative during the next 4 years will include:
1) the dissemination and assisting with the implementation of the new Neck Pain Guideline,
2) the development of a clinical practice guideline on treatment-based classification systems for low back pain, and
3) updating an existing CCA-Federation CPG.

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