Description of Best Practice
We used the ADAPTE method to develop a care protocol for major depression in primary care tailored for the local context, with a consideration of the organisation of health care services in primary care. The work was monitored by an expert committee composed of mental health specialists, general practitioners, health care administrators and decision-makers at regional and provincial levels. The care protocol is based on two clinical practice guidelines: the NICE guideline on the treatment and management of depression in adults (2010) and the CANMAT clinical guidelines for the management of major depressive disorder in adults (2009).

Lessons
We will share the challenges associated with the adaptation of clinical recommendations and organisational strategies to the local context, and the actual implementation of the care protocol in primary care. We will discuss issues dealing with the applicability and successful uptake of recommendations in local contexts (e.g. availability of resources for guideline adaptation, types of professionals involved, barriers).

Background
Adaptation of high-quality external guidelines can be an efficient and effective means to develop guidance more rapidly, allowing for shifting of resources to knowledge transfer and health system implementation efforts.

Context
To describe successful guideline adaptation and implementation strategies used by a large US health care organisation to improve the quality of care for adults with chronic obstructive pulmonary disease (COPD).

Description of Best Practice
A multidisciplinary guideline team evaluated and adapted a guideline on Chronic Obstructive Pulmonary Disease (COPD) developed by the American College of Physicians, American College of Chest Physicians, American Thoracic Society, and European Respiratory Society (ACP/ACCP/ATS/ERS). Recommendations were evaluated and modified for implementability based on several dimensions of the GLIA tool. Implementation strategies targeted to physicians included electronic distribution of guidelines, interactive online continuing medical education, and point-of-care encounter support. Implementation efforts targeted to patients included point-of-care education booklets, online resources for COPD self-management, and proactive outreach for spirometry testing. Systems-level interventions included development of patient outreach lists and computerised decision support. Monthly reporting and review on three measures was conducted to monitor performance. Ongoing implementation efforts resulted in increased rates of spirometry testing and management of COPD exacerbations with systemic corticosteroid and bronchodilator medications over a four-year period.

Lessons
Challenges arise when externally developed guidelines lack the specificity necessary for recommendations to be successfully implemented. Systematic evaluation and modification of recommendations is necessary to enhance implementability at the patient, provider and systems levels, as well as to improve performance.
Results Forty-five recommendations spanning nine CPGs were processed and converted into Drools rules. We identified 138 decision variables and 91 actions within the selected recommendations. From these, we encoded 148 concepts associated with value set meta-tags and 238 decision rules.

Discussion The level of difficulty required to encode the recommendations was directly related to the specificity, complexity, and decidability of each recommendation; there was significant variability among the recommendations.

Implications for Guideline Developers/Users CPG developers may need new processes in order to optimise recommendations for incorporation into CDS systems.

CULTURE AND GUIDELINES: HOW CULTURAL DIFFERENCES IN TREATMENT APPROACH AFFECT INTERPRETATION OF LITERATURE AND GUIDELINE RECOMMENDATIONS

S Schwartz, C Drumheller, Virginia Mason Medical Center, Seattle, USA; American Academy of Otolaryngology - Head and Neck Surgery, Alexandria, USA

Background Guideline development activity is primarily focused in Western Europe and North America. Consequently, western medical interventions and approaches are disproportionately represented among guideline developers. Scepticism about cultural variations in treatment, concern of publication bias in specific regions or languages, and resulting scepticism of foreign literature compounds the problem of accurately assessing evidence and making sound recommendations. When accounting for publication bias and/or prevailing cultural paradigms, guideline developers may struggle to determine the benefit-harm ratio of alternative/complementary interventions.

Context A recent guideline development panel struggled with precisely these issues when reviewing available literature to formulate a recommendation on acupuncture therapy for Bell's palsy patients. All physicians on the panel practiced medicine in the United States, and were unfamiliar with acupuncture therapy. Available literature came predominantly from one country with evidence of severe publication bias. The panel was unable to determine the benefit-harm ratio of acupuncture therapy, and ultimately could make no recommendation for the use of acupuncture for Bell's palsy patients.

Description of Best Practice Guideline developers need to give careful consideration to interpretation of literature when there may be significant cultural differences in treatment approach, cultural bias among the panel, or publication bias that may affect recommendations. Transparent discussion that recognises these issues will help ensure that recommendations regarding alternative/complementary interventions are sound.

Lesson for Guideline Developers Guideline developers need to be aware of potential bias as to how cultural differences in treatments are represented in guideline recommendations, and be mindful of the cross-cultural applicability of guideline content.

DEVELOPMENT OF THE DOCUMENTATION AND APPRAISAL REVIEW TOOL (DART) FOR SYSTEMATIC REVIEWS

R Diekemper, B Ireland, L Metz, American College of Chest Physicians, Northbrook, USA; The Evidence Doc, Pacific, USA; BJC HealthCare Center for Clinical Excellence, St. Louis, USA

Background Systematic reviews are the foundation for evidence-based guidelines. Rigorous standards exist, but there is wide variation in implementation, highlighting the need for a more comprehensive quality assessment tool for systematic reviews.

Objective To develop a tool that sufficiently evaluates major biases relevant to experimental and observational study designs.

Methods The Documentation and Appraisal Review Tool (DART) was developed using epidemiologic principles of study design and the following resources: Overview Quality Assessment Questionnaire (OQAQ), Assessment of Multiple Systematic Reviews (AMSTAR), the Cochrane Handbook, and the standards promoted by the Agency for Healthcare Research and Quality, and the Institutes of Medicine (IOM). DART underwent multiple rounds of testing and revisions.

Results Compared to OQAQ and AMSTAR, DART includes two unique questions and several questions covered by OQAQ or AMSTAR but not both. OQAQ and DART had the highest reporting consistency. Four AMSTAR questions elicited inconsistent responses. Identifying reviewer rationale was most difficult using the OQAQ tool, and easiest using DART.

Discussion DART allows for documentation of reviewer rationale, facilitating reconciliation between reviewers and documentation for future updates. DART also allows for evaluation of major biases relevant to observational study designs and the