## APPRAISAL OF GUIDELINES for Research & Evaluation II



## AGREEII

## INSTRUMENT

The AGREE Next Steps Consortium May 2009

**UPDATE: September 2013** 



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### DISCLAIMER

The AGREE II Instrument is a generic tool designed primarily to help guideline developers and users assess the methodological quality of guidelines. The authors do not take responsibility for the improper use of the AGREE II Instrument.

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FOR FURTHER INFORMATION ABOUT THE AGREE CONTACT: AGREE II Project Office, <u>agree@mcmaster.ca</u> AGREE Research Trust Web site, <u>www.agreetrust.org</u>



AGREE 10<sup>th</sup> Year Anniversary: 2003 - 2013

Appendix to: The Canadian Congenital Diaphragmatic Hernia Collective. Diagnosis and management of congenital diaphragmatic hernia: A clinical practice guideline from the Canadian Congenital Diaphragmatic Hernia Collaborative. CMAJ 2018. doi: 10.1503/cmaj.170206. Copyright © 2018 Joule Inc. or its licensors

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### NOTICE:

AGREE II Original Public Release and Publication Date: 2009/2010

### AGREE II Update: September 2013

Please see the Update section, at the end of the Introduction, following the References section



Advancing the science of practice guidelines

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### I. INTRODUCTION

### I. OVERVIEW

### i) Purpose of the AGREE II Instrument

Clinical practice guidelines ('guidelines') are systematically developed statements to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances (1). In addition, guidelines can play an important role in health policy formation (2,3) and have evolved to cover topics across the health care continuum (e.g., health promotion, screening, diagnosis).

The potential benefits of guidelines are only as good as the quality of the guidelines themselves. Appropriate methodologies and rigorous strategies in the guideline development process are important for the successful implementation of the resulting recommendations (4-6). The quality of guidelines can be extremely variable and some often fall short of basic standards (7-9).

The <u>Appraisal</u> of <u>Guidelines</u> for <u>RE</u>search & <u>Evaluation</u> (AGREE) Instrument (10) was developed to address the issue of variability in guideline quality. To that end, the AGREE instrument is a tool that assesses the methodological rigour and transparency in which a guideline is developed. The original AGREE instrument has been refined, which has resulted in the new AGREE II and includes a new User's Manual (11).

The purpose of the AGREE II, is to provide a framework to:

- 1. assess the quality of guidelines;
- 2. provide a methodological strategy for the development of guidelines; and
- 3. inform what information and how information ought to be reported in guidelines.

The AGREE II replaces the original instrument as the preferred tool and can be used as part of an overall quality mandate aimed to improve health care.

### ii) History of the AGREE Project

The original AGREE Instrument was published in 2003 by a group of international guideline developers and researchers, the AGREE Collaboration (10). The objective of the Collaboration was to develop a tool to assess the quality of guidelines. The AGREE Collaboration defined quality of guidelines as the confidence that the potential biases of guideline development have been addressed adequately and that the recommendations are both internally and externally valid, and are feasible for practice (10). The assessment includes judgments about the methods used for developing the guidelines, the components of the final recommendations, and the factors that are linked to their uptake. The result of the Collaboration's effort was the original AGREE Instrument, a 23-item tool comprising 6 quality domains. The AGREE Instrument has been translated into many languages, has been cited in well over 100 publications, and is endorsed by several health care organizations. More details about the original instrument and related publications are available on the Web site of the AGREE Research Trust (http://www.agreetrust.org/), the official body managing the interests of the AGREE Instrument.

As with any new assessment tool, it was recognized that ongoing development was required to strengthen the measurement properties of the instrument and to ensure its usability and feasibility among intended users. This led several members of the original team to form the AGREE Next Steps Consortium (Consortium). The objectives of the Consortium were to further improve the measurement properties of the instrument, including its reliability and validity; to refine the instrument's items to better meet the needs of the intended users; and to improve the supporting documentation (i.e., original training manual and user's guide) to facilitate the ability of users to implement the instrument with confidence.

The result of these efforts is the AGREE II, which is comprised of the new User's Manual and 23 item tool organized into the same six domains, described here. The User's Manual is a significant modification of the original training manual and user's guide and provides explicit information for each of the 23 items. Table 1 compares the items of the original AGREE to the items in the AGREE II.

	Original AGREE Item	AGREE II Item
Dor	nain 1. Scope and Purpose	
1.	The overall objective(s) of the guideline is (are) specifically described.	No change
2.	The clinical question(s) covered by the guideline is (are) specifically described.	The health question(s) covered by the guideline is (are) specifically described.
3.	The patients to whom the guideline is meant to apply are specifically described.	The population (patients, public, etc.) to whom the guideline is meant to apply is specifically described.
Dor	nain 2. Stakeholder Involvement	
4.	The guideline development group includes individuals from all the relevant professional groups.	No change
5.	The patients' views and preferences have been sought.	The views and preferences of the target population (patients, public, etc.) have been sought.
6.	The target users of the guideline are clearly defined.	No change
7.	The guideline has been piloted among end users.	Delete item. Incorporated into user guide description of item 19.
Dor	nain 3. Rigour of Development	
8.	Systematic methods were used to search for evidence.	No change in item. Renumber to 7.
9.	The criteria for selecting the evidence are clearly described.	No change in item. Renumber to 8.
		<b>NEW</b> Item 9. The strengths and limitations of the body of evidence are clearly described.
10.	The methods for formulating the recommendations are clearly described.	No change
11.	The health benefits, side effects, and risks have been considered in formulating the recommendations.	No change

Table 1. Comparison of original AGREE and AGREE II items.

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	Original AGREE Item	AGREE II Item
12.	There is an explicit link between the recommendations and the supporting evidence.	No change
13.	The guideline has been externally reviewed by experts prior to its publication.	No change
14.	A procedure for updating the guideline is provided.	No change
Don	nain 4. Clarity of Presentation	
15.	The recommendations are specific and unambiguous.	No change
16.	The different options for management of the condition are clearly presented.	The different options for management of the condition or health issue are clearly presented.
17.	Key recommendations are easily identifiable.	No change
Don	nain 5. Applicability	
18.	The guideline is supported with tools for application.	The guideline provides advice and/or tools on how the recommendations can be put into practice. AND Change in domain (from Clarity of Presentation) AND renumber to 19
19.	The potential organizational barriers in applying the recommendations have been discussed.	The guideline describes facilitators and barriers to its application. AND change in order – renumber to 18
20.	The potential cost implications of applying the recommendations have been considered.	The potential resource implications of applying the recommendations have been considered.
21.	The guideline presents key review criteria for monitoring and/ or audit purposes.	The guideline presents monitoring and/ or auditing criteria.
Don	nain 6. Editorial Independence	
22.	The guideline is editorially independent from the funding body.	The views of the funding body have not influenced the content of the guideline.
23.	Conflicts of interest of guideline development members have been recorded.	Competing interests of guideline development group members have been recorded and addressed.

### II. APPLYING THE AGREE II

### i) Which guidelines can be appraised with the AGREE II?

As with the original instrument, AGREE II is designed to assess guidelines developed by local, regional, national or international groups or affiliated governmental organizations. These include original versions of and updates of existing guidelines.

The AGREE II is generic and can be applied to guidelines in any disease area targeting any step in the health care continuum, including those for health promotion, public health, screening, diagnosis, treatment or interventions. It is suitable for guidelines presented in paper or electronic format. At this stage, the AGREE II has not been designed to assess the quality of guidance documents that address health care organizational issues. Its role in the assessment of health technology assessments has not yet been formally evaluated.

### ii) Who can use the AGREE II?

The AGREE II is intended to be used by the following stakeholder groups:

- by health care providers who wish to undertake their own assessment of a guideline before adopting its recommendations into their practice;
- by **guideline developers** to follow a structured and rigorous development methodology, to conduct an internal assessment to ensure that their guidelines are sound, or to evaluate guidelines from other groups for potential adaptation to their own context;
- by **policy makers** to help them decide which guidelines could be recommended for use in practice or to inform policy decisions; and
- by **educators** to help enhance critical appraisal skills amongst health professionals and to teach core competencies in guideline development and reporting.

### III. KEY RESOURCES AND REFERENCES

### i) AGREE Research Trust

The AGREE Research Trust (ART) is an independent body established in 2004 at the conclusion of the activities of the original AGREE Collaboration. ART endorses the AGREE II and manages the interests of the AGREE enterprise, supports a research agenda regarding its development, and serves as the holder of its copyright.

The AGREE Research Trust web site <u>http://www.agreetrust.org</u> provides:

- free downloadable copies of AGREE II
- links to the AGREE II on-line training tool
- reference lists citing AGREE II and the original AGREE Instrument
- free downloadable copies of the original AGREE Instrument
- information about AGREE projects, the AGREE Next Steps Consortium and the original AGREE Collaboration

### ii) How to cite the AGREE II

AGREE Next Steps Consortium (2009). The AGREE II Instrument [Electronic version]. Retrieved <Month, Day, Year>, from http://www.agreetrust.org.

### iii) AGREE II On-Line Training Tool

For access to the AGREE II On-Line Training Tool, please visit http://www.agreetrust.org.

### iv) References related to the AGREE II

AGREE II: Advancing guideline development, reporting and evaluation in healthcare. Parallel publications in progress

### v) Primary reference related to the original AGREE Instrument

AGREE Collaboration. Development and validation of an international appraisal instrument for assessing the quality of clinical practice guidelines: the AGREE project. Qual Saf Health Care. 2003 Feb;12(1):18-23.

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- 8. Grilli R, Magrini N, Penna A, Mura G, Liberati A. Practice guidelines developed by specialty societies: the need for critical appraisal. Lancet. 2000;355:103-6.
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- 10. AGREE Collaboration. Development and validation of an international appraisal instrument for assessing the quality of clinical practice guidelines: the AGREE project. Qual Saf Health Care. 2003 Feb;12(1):18-23.
- 11. AGREE II: Advancing the guideline development, reporting and evaluation in healthcare. Parallel publications in progress.

### **UPDATE: September 2013**

In 2013, the AGREE marked its 10<sup>th</sup> anniversary since the original AGREE Instrument was first published and made available for use. To mark this anniversary, we provide a summary of

activities that have taken place over the past 10 years and an update to the references originally noted in the AGREE II 2009 version.

### UPTAKE AND USE OF AGREE II

As with the original AGREE Instrument, uptake and use of AGREE II has been significant. Between 2010 (publication of AGREE II) and July 2013, a cited reference search revealed a total of 590 articles referencing the four core AGREE articles. An analysis of the AGREE Enterprise Website (<u>www.agreetrust.org</u>) showed much activity with a total of 42,553 visits to the website over a seven month period (January – July 2013). In addition, to date nearly 2,000 users have registered accounts with the website. AGREE II continues to be used as the basis of PG development frameworks, academic course materials and requirements, and PG evaluation activities.

### I. SUMMARY OF ACTIVITIES:

- 1. AGREE Website: Development Project www.agreetrust.org
  - Using a user-centred development strategy and working with a website development group specializing in building evidence-based healthcare sites (www.minervation.com), we redeveloped and redesigned the AGREE website.
  - The Website included various resources, including an online platform to complete and store individual AGREE II appraisals of PGs, "My AGREE".
  - <u>www.agreetrust.org</u> is the AGREE Enterprise's website and the home for all things AGREE.

### 2. \*NEW\* (2013) - "My AGREE PLUS"

- In response to user feedback and in recognizing a service gap, we enhanced the original "My AGREE" online platform to include the functionality for completing group (multi-rater) AGREE II appraisals of practice guidelines.
- New functions include the capacity to "Contribute" to a group appraisal and to "Coordinate" a group appraisal.
- To facilitate use of "My AGREE PLUS", several "Help" videos are available.
- Visit: <u>www.agreetrust.org</u> and click on top right tab, "My AGREE PLUS"

### 3. AGREE II Training Tools (online)

- To facilitate the application and use of AGREE II, we developed two innovative, online training tools
  - i. AGREE II Overview Tutorial
  - ii. AGREE II Overview Tutorial + Practice Exercise
- Visit the *Resource Centre* of the AGREE website: http://www.agreetrust.org/resource-centre/agree-ii-training-tools/

### 4. AGREE II Language Translations

- As with the original AGREE Instrument, members of the international PG community have taken the initiative to translate the AGREE II in various languages. We extend our thanks to those members for undertaking and making available the translations.
- Completed translations:
  - i. Basques, Dutch, French, Italian, Korean, Portuguese, Portuguese (Brazilian), Slovakian, Spanish, Thai

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- In progress translations: •
  - i. Arabic, Chinese (Traditional), Chinese (Mandarin), Czech, Farsi (Persian), German, Greek, Japanese, Romanian, Russian, Turkish
- If you would like to undertake a translation, please contact us by emailing • agree@mcmaster.ca.
- Visit the **Resource Centre** of the AGREE website to access a translation: • http://www.agreetrust.org/resource-centre/agree-ii-translations/

### 5. Ongoing Program of Research

- As an assessment tool, AGREE II evaluates the methodological rigour used to develop a particular practice guideline. It does not assess the clinical validity of practice guideline recommendations.
- To address the gap, the AGREE Enterprise is undertaking a program of research • to develop a knowledge resource to direct the development, reporting and evaluation of practice guideline recommendation clinical credibility.
- The knowledge resource will accompany the AGREE II.
- Please visit the website for updates to ongoing research work: http://www.agreetrust.org/agree-research-projects/

As always, we welcome your feedback and suggestions. We enjoy hearing from our users and the PG community at large, so please contact us through our website or by emailing us directly via agree@mcmaster.ca.

### **II. AGREE II REFERENCES:**

Listed below are the core references related to the AGREE II and its training tools:

AGREE II: Non-Technical Paper (Main publication: Canadian Medical Association Journal; parallel publications in Journal of Clinical Epidemiology and Preventive Medicine) Brouwers M, Kho ME, Browman GP, Cluzeau F, feder G, Fervers B, Hanna S, Makarski J on behalf of the AGREE Next Steps Consortium. AGREE II: Advancing guideline development, reporting and evaluation in healthcare. Can Med Assoc J. Dec 2010, 182:E839-842; doi: 10.1503/cmaj.090449

Brouwers M, Kho ME, Browman GP, Cluzeau F, feder G, Fervers B, Hanna S, Makarski J on behalf of the AGREE Next Steps Consortium. AGREE II: Advancing guideline development, reporting and evaluation in healthcare. J Clin Epidemol. 2010, 63(12): 1308-1311

Brouwers M, Kho ME, Browman GP, Cluzeau F, feder G, Fervers B, Hanna S, Makarski J on behalf of the AGREE Next Steps Consortium. AGREE II: Advancing guideline development, reporting and evaluation in healthcare. Preventive Medicine, 2010, 51(5): 421-424

### AGREE II: Technical Papers (Parts I and II)

Brouwers M, Kho ME, Browman GP, Burgers J, Cluzeau F, Feder G, Fevers B, Graham ID, Hanna SE, Makarski J, on behalf of the AGREE Next Steps Consortium. Performance, usefulness and areas for improvement: Development steps toward the AGREE II - Part 1. Can Med Assoc J. 2010, 182: 1045-52

Brouwers MC, Kho ME, Browman GP, Burgers J, Cluzeau F, Feder G, Fervers B, Graham ID, Hanna SE, Makarski J, on behalf of the AGREE Next Steps Consortium. Validity assessment of items and tools to support application: Development steps towards the AGREE II – Part 2. Can Med Assoc J. 2010, 182: E472-78

AGREE A3 Project, Stream 1 (Training Tools Development & Evaluation)

Brouwers MC, Makarski J, Levinson A. A randomized trial to evaluate e-learning interventions designed to improve learner's performance, satisfaction, and self-efficacy with the AGREE II. Implement Sci. 2010; 5:29

Brouwers MC, Makarski J, Durocher L, Levinson A. E-learning interventions are comparable to user's manual in a randomized trial of training strategies for the AGREE II. Implement Sci. 2011; 6:81

### **AGREE II:**

### **USER'S MANUAL**

### II. USER'S MANUAL: INSTRUCTIONS FOR USING THE AGREE II

This User's Manual has been designed specifically to guide appraisers in the use of the instrument. We suggest reading the following instructions before using the instrument.

### I. Preparing to Use the AGREE II

### i) Accompanying Guideline Documents

Before applying the AGREE II, users should first carefully read the guideline document in full. In addition to the guideline document, users should attempt to identify all information about the guideline development process prior to the appraisal. This information may be contained in the same document as the guideline recommendations or it may be summarized in a separate technical report, methodological manual or guideline developer policy statement. These supporting documents may be published or may be available publicly on web sites. While it is the responsibility of the guideline authors to advise readers on the existence and location of relevant additional technical and supporting documents, every effort should be made by the AGREE II users to locate and include them as part of the materials appropriate for assessment.

### ii) Number of Appraisers

We recommend that each guideline is assessed by at least 2 appraisers and preferably 4 as this will increase the reliability of the assessment. Reliability tests of the instrument are on-going.

### II. Structure and Content of the AGREE II

The AGREE II consists of 23 key items organized within 6 domains followed by 2 global rating items ("Overall Assessment"). Each domain captures a unique dimension of guideline quality.

*Domain 1. Scope and Purpose* is concerned with the overall aim of the guideline, the specific health questions, and the target population (items 1-3).

*Domain 2. Stakeholder Involvement* focuses on the extent to which the guideline was developed by the appropriate stakeholders and represents the views of its intended users (items 4-6).

*Domain 3. Rigour of Development* relates to the process used to gather and synthesize the evidence, the methods to formulate the recommendations, and to update them (items 7-14).

*Domain 4. Clarity of Presentation* deals with the language, structure, and format of the guideline (items 15-17).

*Domain 5. Applicability* pertains to the likely barriers and facilitators to implementation, strategies to improve uptake, and resource implications of applying the guideline (items 18-21).

*Domain 6. Editorial Independence* is concerned with the formulation of recommendations not being unduly biased with competing interests (items 22-23).

*Overall assessment* includes the rating of the overall quality of the guideline and whether the guideline would be recommended for use in practice.

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### III. Rating Scale and User's Manual Sections

Each of the AGREE II items and the two global rating items are rated on a 7-point scale (1– strongly disagree to 7–strongly agree). The User's Manual provides guidance on how to rate each item using the rating scale and also includes 3 additional sections to further facilitate the user's assessment. The sections include User's Manual Description, Where to Look, and How to Rate.

### i) Rating Scale

All AGREE II items are rated on the following 7-point scale:

<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
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Score of 1 (*Strongly Disagree*). A score of 1 should be given when there is no information that is relevant to the AGREE II item or if the concept is very poorly reported.

Score of 7 (*Strongly Agree*). A score of 7 should be given if the quality of reporting is exceptional and where the full criteria and considerations articulated in the User's Manual have been met.

Scores between 2 and 6. A score between 2 and 6 is assigned when the reporting of the AGREE II item does not meet the full criteria or considerations. A score is assigned depending on the completeness and quality of reporting. Scores increase as more criteria are met and considerations addressed. The "How to Rate" section for each item includes details about assessment criteria and considerations specific to the item.

### ii) User's Manual Description

This section defines the concept underlying the item in broad terms and provides examples.

### iii) Where to Look

This section directs the appraiser to where the information in the guideline can usually be found. Included in this section are common terms used to label guideline sections or chapters. *These are suggestions only*. It is the responsibility of the appraiser to review the entire guideline and accompanying material(s) to ensure a fair evaluation.

### iv) How to Rate

This section includes details about assessment criteria and considerations specific to each item.

- The *criteria* identify explicit elements that reflect the operational definition of the item. The more criteria that are met, the higher the score the guideline should receive on that item.
- The *considerations* are aimed to help inform the assessment. As in any evaluation, judgments by the appraisers are required. The more the considerations have been taken into account in the guideline, the higher the score the guideline should receive on that item.

It is important to note that guideline ratings require a level of judgment. The criteria and considerations are there to guide, not to replace, these judgments. Thus, none of the AGREE II items provide explicit expectations for each of the 7 points on the scale.

### v) Other Considerations when Applying the AGREE II

On occasion, some AGREE II items may not be applicable to the particular guideline under review. For example, guidelines narrow in scope may not provide the full range of options for the management of the condition (see item 16). AGREE II does not include a "*Not Applicable*" response item in its scale. There are different strategies to manage this situation including having appraisers skip that item in the assessment process or rating the item as 1 (absence of information) and providing context about the score. *Regardless of strategy chosen, decisions should be made in advance, described in an explicit manner, and if items are skipped, appropriate modifications to calculating the domain scores should be implemented. As a principle, excluding items in the appraisal process is discouraged.* 

### IV. Scoring the AGREE II

A quality score is calculated for each of the six AGREE II domains. The six domain scores are independent and should not be aggregated into a single quality score.

### i) Calculating Domain Scores

Domain scores are calculated by summing up all the scores of the individual items in a domain and by scaling the total as a percentage of the maximum possible score for that domain.

	Item 1	Item 2	Item 3	Total
Appraiser 1	5	6	6	17
Appraiser 2	6	6	7	19
Appraiser 3	2	4	3	9
Appraiser 4	3	3	2	8
Total	16	19	18	53

### Example:

If 4 appraisers give the following scores for Domain 1 (Scope & Purpose):

Maximum possible score = 7 (strongly agree) x 3 (items) x 4 (appraisers) = 84 Minimum possible score = 1 (strongly disagree) x 3 (items) x 4 (appraisers) = 12

The scaled domain score will be:

Obtained score – Minimum possible score Maximum possible score – Minimum possible score

$$\frac{53 - 12}{84 - 12} \times 100 = \frac{41}{72} \times 100 = 0.5694 \times 100 = 57 \%$$

If items are not included, appropriate modifications to the calculations of maximum and minimum possible scores are required.

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### ii) Interpreting Domain Scores

Although the domain scores are useful for comparing guidelines and will inform whether a guideline should be recommended for use, the Consortium has not set minimum domain scores or patterns of scores across domains to differentiate between high quality and poor quality guidelines. These decisions should be made by the user and guided by the context in which AGREE II is being used.

### V. Overall Assessment

Upon completing the 23 items, AGREE II users will provide 2 overall assessments of the guideline. The overall assessment requires the user to make a judgment as to the quality of the guideline, taking into account the criteria considered in the assessment process. The user is also asked whether he/she would recommend use of the guideline.

The next pages include, by domain, guidance for rating each of the 23 items of the AGREE II when appraising a guideline. Each item includes a description, suggestions for where to find the item information, and guidance for how to rate.

### **DOMAIN 1. SCOPE AND PURPOSE**

- 1. The overall objective(s) of the guideline is (are) specifically described.
- 2. The health question(s) covered by the guideline is (are) specifically described.
- 3. The population (patients, public, etc.) to whom the guideline is meant to apply is specifically described.

### **SCOPE AND PURPOSE**

### 1. The overall objective(s) of the guideline is (are) specifically described.

<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
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Comments

### User's Manual Description:

This deals with the potential health impact of a guideline on society and populations of patients or individuals. The overall objective(s) of the guideline should be described in detail and the expected health benefits from the guideline should be specific to the clinical problem or health topic. For example, specific statements would be:

- · Preventing (long term) complications of patients with diabetes mellitus
- · Lowering the risk of subsequent vascular events in patients with previous myocardial infarction
- Most effective population-based colorectal screening strategies

• Providing guidance on the most effective therapeutic treatment and management of patients with diabetes mellitus.

### Where to Look:

Examine the opening paragraphs/chapters for a description of the scope and purpose of the guideline. In some cases, the rationale or need for the guideline is described in a document separate from the guideline, for instance, in the guideline proposal. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: introduction, scope, purpose, rationale, background, and objectives.

### How to Rate:

### Item content includes the following CRITERIA:

- health intent(s) (i.e., prevention, screening, diagnosis, treatment, etc.)
- expected benefit or outcome
- target(s) (e.g., patient population, society)

- Is the item well written? Are the descriptions clear and concise?
- . Is the item content easy to find in the guideline?

### **SCOPE AND PURPOSE**

### 2. The health question(s) covered by the guideline is (are) specifically described.

1 Strongly Disagree23456	<b>7</b> Strongly Agree	
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Comments

### User's Manual Description:

A detailed description of the health questions covered by the guideline should be provided, particularly for the key recommendations (see Item 17), although they need not be phrased as questions. Following the examples provided in question 1:

- How many times a year should the HbA1c be measured in patients with diabetes mellitus?
- What should the daily aspirin dosage for patients with proven acute myocardial infarction be?
- Does population-based colorectal screening using the fecal occult blood test reduce mortality of colorectal cancer?
- Is self-monitoring effective for blood glucose control in patients with Type 2 diabetes?

### Where to Look:

Examine the opening paragraphs/chapters for a description of the scope and purpose of the guideline. In some cases, the questions are described in a document separate from the guideline, for instance in a search specification. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: questions, scope, purpose, rationale, and background.

### How to Rate:

### Item content includes the following CRITERIA:

- target population
- intervention(s) or exposure(s)
- comparisons (if appropriate)
- outcome(s)
- health care setting or context

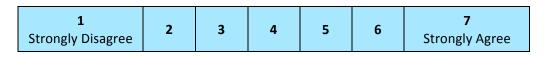
### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?

• Is there enough information provided in the question(s) for anyone to initiate the development of a guideline on this topic or to understand the patients/populations and contexts profiled in the guideline?

### **SCOPE AND PURPOSE**

## 3. The population (patients, public, etc.) to whom the guideline is meant to apply is specifically described.



Comments

### User's Manual Description:

A clear description of the population (i.e., patients, public, etc.) covered by a guideline should be provided. The age range, sex, clinical description, and comorbidity may be provided. For example:

• A guideline on the management of diabetes mellitus only includes patients with non-insulin dependent diabetes mellitus and excludes patients with cardiovascular comorbidity.

• A guideline on the management of depression only includes patients with major depression according to the DSM-IV criteria, and excludes patients with psychotic symptoms and children.

• A guideline on screening of breast cancer only includes women, aged between 50 and 70 years, with no history of cancer and with no family history of breast cancer.

### Where to Look:

Examine the opening paragraphs/chapters for a description of the target population of the guideline. The explicit exclusion of some populations (for instance children) is also covered by this item. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: patient population, target population, relevant patients, scope, and purpose.

### How to Rate:

### Item content includes the following CRITERIA:

- target population, gender and age
- clinical condition (if relevant)
- severity/stage of disease (if relevant)
- comorbidities (if relevant)
- excluded populations (if relevant)

### Additional CONSIDERATIONS:

- · Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?

• Is the population information specific enough so that the correct and eligible individuals would receive the action recommended in the guideline?

### **DOMAIN 2. STAKEHOLDER INVOLVEMENT**

- 4. The guideline development group includes individuals from all relevant professional groups.
- 5. The views and preferences of the target population (patients, public, etc.) have been sought.
- 6. The target users of the guideline are clearly defined.

### STAKEHOLDER INVOLVEMENT

4. The guideline development group includes individuals from all relevant professional groups.

<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
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Comments

### User's Manual Description:

This item refers to the professionals who were involved at some stage of the development process. This may include members of the steering group, the research team involved in selecting and reviewing/rating the evidence and individuals involved in formulating the final recommendations. This item excludes individuals who have externally reviewed the guideline (see Item 13). This item excludes target population representation (see *Item 5*). Information about the composition, discipline, and relevant expertise of the guideline development group should be provided.

### Where to Look:

Examine the opening paragraphs/chapters, acknowledgement section or appendices for the composition of the guideline development group. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, guideline panel member list, acknowledgements, and appendices.

### How to Rate:

### Item content includes the following CRITERIA:

- For each member of the guideline development group, the following information is included:
  - name  $\geq$
  - ⊳ discipline/content expertise (e.g., neurosurgeon, methodologist)
  - institution (e.g., St. Peter's hospital)
  - geographical location (e.g., Seattle, WA)
  - a description of the member's role in the guideline development group

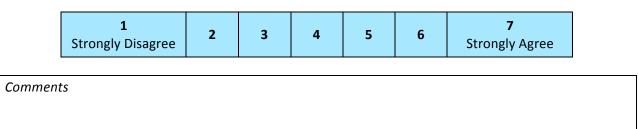
### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Are the members an appropriate match for the topic and scope? Potential candidates include relevant clinicians, content experts, researchers, policy makers, clinical administrators, and funders.

Is there at least one methodology expert included in the development group (e.g., systematic review expert, epidemiologist, statistician, library scientist, etc.)?

### STAKEHOLDER INVOLVEMENT

5. The views and preferences of the target population (patients, public, etc.) have been sought.



### User's Manual Description:

Information about target population experiences and expectations of health care should inform the development of guidelines. There are various methods for ensuring that these perspectives inform the different stages of guideline development by stakeholders. For example, formal consultations with patients/public to determine priority topics, participation of these stakeholders on the guideline development group, or external review by these stakeholders on draft documents. Alternatively, information could be obtained from interviews of these stakeholders or from literature reviews of patient/public values, preferences or experiences. There should be evidence that some process has taken place and that stakeholders' views have been considered.

### Where to Look:

Examine the paragraphs on the guideline development process. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: scope, methods, guideline panel member list, external review, and target population perspectives.

### How to Rate:

### Item content includes the following CRITERIA:

• statement of type of strategy used to capture patients'/public's' views and preferences (e.g., participation in the guideline development group, literature review of values and preferences)

• methods by which preferences and views were sought (e.g., evidence from literature, surveys, focus groups)

outcomes/information gathered on patient/public information

 description of how the information gathered was used to inform the guideline development process and/or formation of the recommendations

### Additional CONSIDERATIONS:

• Is the item well written? Are the descriptions clear and concise?

Is the item content easy to find in the guideline?

# STAKEHOLDER INVOLVEMENT 6. The target users of the guideline are clearly defined. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Image: Strongly Disagree

### User's Manual Description:

The target users should be clearly defined in the guideline, so the reader can immediately determine if the guideline is relevant to them. For example, the target users for a guideline on low back pain may include general practitioners, neurologists, orthopaedic surgeons, rheumatologists, and physiotherapists.

### Where to Look:

Examine the opening paragraphs/chapters for a description of the target users of the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: target user and intended user.

### How to Rate:

### Item content includes the following CRITERIA:

• clear description of intended guideline audience (e.g. specialists, family physicians, patients, clinical or institutional leaders/administrators)

• description of how the guideline may be used by its target audience (e.g., to inform clinical decisions, to inform policy, to inform standards of care)

- · Is the item well written? Are the descriptions clear and concise?
- · Is the item content easy to find in the guideline?
- Are the target users appropriate for the scope of the guideline?

### **DOMAIN 3. RIGOUR OF DEVELOPMENT**

- 7. Systematic methods were used to search for evidence.
- 8. The criteria for selecting the evidence are clearly described.
- 9. The strengths and limitations of the body of evidence are clearly described.
- 10. The methods for formulating the recommendations are clearly described.
- 11. The health benefits, side effects, and risks have been considered in formulating the recommendations.
- 12. There is an explicit link between the recommendations and the supporting evidence.
- 13. The guideline has been externally reviewed by experts prior to its publication.
- 14. A procedure for updating the guideline is provided.

### User's Manual Description:

Details of the strategy used to search for evidence should be provided including search terms used, sources consulted, and dates of the literature covered. Sources may include electronic databases (e.g. MEDLINE, EMBASE, CINAHL), databases of systematic reviews (e.g. the Cochrane Library, DARE), handsearching journals, reviewing conference proceedings, and other guidelines (e.g. the US National Guideline Clearinghouse, the German Guidelines Clearinghouse). The search strategy should be as comprehensive as possible and executed in a manner free from potential biases and sufficiently detailed to be replicated.

### Where to Look:

Examine the paragraphs/chapters describing the guideline development process. In some cases the search strategies are described in separate documents or in an appendix to the guideline. Examples of commonly labelled sections or chapters in a guideline where this information can be found include: methods, literature search strategy, and appendices.

### How to Rate:

### Item content includes the following CRITERIA:

• named electronic database(s) or evidence source(s) where the search was performed (e.g., MEDLINE, EMBASE, PsychINFO, CINAHL)

- time periods searched (e.g., January 1, 2004 to March 31, 2008)
- search terms used (e.g., text words, indexing terms, subheadings)
- full search strategy included (e.g., possibly located in appendix)

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Is the search relevant and appropriate to answer the health question? (e.g., all relevant databases and, appropriate search terms used)
- · Is there enough information provided for anyone to replicate the search?

# RIGOUR OF DEVELOPMENT 8. The criteria for selecting the evidence are clearly described. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Image: Strongly Disagree Image: Strongly Disagree Image: Strongly Disagree Image: Strongly Disagree

### User's Manual Description:

Criteria for including/excluding evidence identified by the search should be provided. These criteria should be explicitly described and reasons for including and excluding evidence should be clearly stated. For example, guideline authors may decide to only include evidence from randomized clinical trials and to exclude articles not written in English.

### Where to Look:

Examine the paragraphs/chapters describing the guideline development process. In some cases, the inclusion or exclusion criteria for selecting the evidence are described in separate documents or in an Appendix to the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, literature search, inclusion/exclusion criteria, and appendices.

### How to Rate:

### Item content includes the following CRITERIA:

description of the inclusion criteria, including

- target population (patient, public, etc.) characteristics
- study design
- comparisons (if relevant)
- outcomes
- language (if relevant)
- context (if relevant)

• description of the exclusion criteria (if relevant; e.g., *French only* listed in the inclusion criteria statement could logically preclude *non-French* listed in the exclusion criteria statement)

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Is there a rationale given for the chosen inclusion/exclusion criteria?
- Do inclusion/exclusion criteria align with the health question(s)?
- Are there reasons to believe that relevant literature may not have been considered?

## RIGOUR OF DEVELOPMENT 9. The strengths and limitations of the body of evidence are clearly described. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Strongly Disagree Strongly Disagree Strongly Disagree Strongly Disagree Strongly Disagree

### User's Manual Description:

Statements highlighting the strengths and limitations of the evidence should be provided. This ought to include explicit descriptions - using informal or formal tools/methods - to assess and describe the risk of bias for individual studies and/or for specific outcomes and/or explicit commentary of the body of evidence aggregated across all studies. This may be presented in different ways, for example: using tables commenting on different quality domains; the application of a formal instrument or strategy (e.g., Jadad scale, GRADE method); or descriptions in the text.

### Where to Look:

Examine the paragraphs/chapters describing the guideline development process for information on how the methodological quality of the studies (e.g., risk of bias) were described. Evidence tables are often used to summarize quality features. Some guidelines make a clear distinction between description and interpretation of evidence, for instance, in a results section and a discussion section, respectively.

### How to Rate:

### Item content includes the following CRITERIA:

• descriptions of how the body of evidence was evaluated for bias and how it was interpreted by members of the guideline development group

• aspects upon which to frame descriptions include:

- study design(s) included in body of evidence
- > study methodology limitations (sampling, blinding, allocation concealment, analytical methods)
- > appropriateness/relevance of primary and secondary outcomes considered
- > consistency of results across studies
- direction of results across studies
- > magnitude of benefit versus magnitude of harm
- > applicability to practice context

- · Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Are the descriptions appropriate, neutral, and unbiased? Are the descriptions complete?

## RIGOUR OF DEVELOPMENT 10. The methods for formulating the recommendations are clearly described. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Image: Strongly Disagree Image: Strongly Disagree

### User's Manual Description:

A description of the methods used to formulate the recommendations and how final decisions were arrived at should be provided. For example, methods may include a voting system, informal consensus, and formal consensus techniques (e.g., Delphi, Glaser techniques). Areas of disagreement and methods of resolving them should be specified.

### Where to Look:

Examine the paragraphs/chapters describing the guideline development process. In some cases, the methods used to formulate the recommendations are described in separate documents or in an appendix to the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include methods and guideline development process.

### How to Rate:

### Item content includes the following CRITERIA:

- description of the recommendation development process (e.g., steps used in modified Delphi technique, voting procedures that were considered)
- outcomes of the recommendation development process (e.g., extent to which consensus was reached using modified Delphi technique, outcome of voting procedures)
- description of how the process influenced the recommendations (e.g., results of Delphi technique influence final recommendation, alignment with recommendations and the final vote)

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- · Was a formal process used to arrive at the recommendations?
- · Were the methods appropriate?

### **RIGOUR OF DEVELOPMENT**

11. The health benefits, side effects, and risks have been considered in formulating the recommendations.

<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
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Comments

### User's Manual Description:

The guideline should consider health benefits, side effects, and risks when formulating the recommendations. For example, a guideline on the management of breast cancer may include a discussion on the overall effects on various final outcomes. These may include: survival, quality of life, adverse effects, and symptom management or a discussion comparing one treatment option to another. There should be evidence that these issues have been addressed.

### Where to Look:

Examine the paragraphs/chapters describing the guideline development process for a description of the body of evidence, its interpretation, and the translation to practice recommendations. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, interpretation, discussion, and recommendations.

### How to Rate:

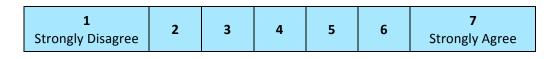
### Item content includes the following CRITERIA:

- supporting data and report of benefits
- supporting data and report of harms/side effects/risks
- reporting of the balance/trade-off between benefits and harms/side effects/risks
- · recommendations reflect considerations of both benefits and harms/side effects/risks

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Is the discussion an integral part of the guideline development process? (i.e., taking place during
- recommendation formulation rather than post-formulation as an afterthought)
- · Has the guideline development group considered the benefits and harms equally?

### **RIGOUR OF DEVELOPMENT**

12. There is an explicit link between the recommendations and the supporting evidence.



Comments

### User's Manual Description:

An explicit link between the recommendations and the evidence on which they are based should be included in the guideline. The guideline user should be able to identify the components of the body of evidence relevant to each recommendation.

### Where to Look:

Define and examine the recommendations in the guideline and the text describing the body of evidence that underpins them. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: recommendations and key evidence.

### How to Rate:

### Item content includes the following CRITERIA:

• the guideline describes how the guideline development group linked and used the evidence to inform recommendations

- each recommendation is linked to a key evidence description/paragraph and/or reference list
- recommendations linked to evidence summaries, evidence tables in the results section of the guideline

### Additional CONSIDERATIONS:

• Is there congruency between the evidence and recommendations?

• Is the link between the recommendations and supporting evidence easy to find in the guideline?

• When evidence is lacking or a recommendation is informed primarily by consensus of opinion by the guideline group, rather than the evidence, is this clearly stated and described?

# RIGOUR OF DEVELOPMENT 13. The guideline has been externally reviewed by experts prior to its publication. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Image: Strongly Disagree Image: Strongly Disag

### User's Manual Description:

A guideline should be reviewed externally before it is published. Reviewers should not have been involved in the guideline development group. Reviewers should include experts in the clinical area as well as some methodological experts. Target population (patients, public) representatives may also be included. A description of the methodology used to conduct the external review should be presented, which may include a list of the reviewers and their affiliation.

### Where to Look:

Examine the paragraphs/chapters describing the guideline development process and the acknowledgement section. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, results, interpretation, and acknowledgements.

### How to Rate:

### Item content includes the following CRITERIA:

• purpose and intent of the external review (e.g., to improve quality, gather feedback on draft recommendations, assess applicability and feasibility, disseminate evidence)

- methods taken to undertake the external review (e.g., rating scale, open-ended questions)
- description of the external reviewers (e.g., number, type of reviewers, affiliations)

• outcomes/information gathered from the external review (e.g., summary of key findings)

• description of how the information gathered was used to inform the guideline development process and/or formation of the recommendations (e.g., guideline panel considered results of review in forming final recommendations)

### Additional CONSIDERATIONS:

• Is the item well written? Are the descriptions clear and concise?

· Is the item content easy to find in the guideline?

• Are the external reviewers relevant and appropriate to the scope of the guideline? Was there a rationale given for choosing the included reviewers?

•How was information from the external review used by the guideline development group?

RIGOUR OF DEVELOPMENT 14. A procedure for updating the guideline is provided.									
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree		
Commen	ts								

### User's Manual Description:

Guidelines need to reflect current research. A clear statement about the procedure for updating the guideline should be provided. For example, a timescale has been given or a standing panel is established who receives regularly updated literature searches and makes changes as required.

### Where to Look:

Examine the introduction paragraph, the paragraphs describing the guideline development process and the closing paragraphs. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, guideline update, and date of guideline.

### How to Rate:

Item content includes the following CRITERIA:

- a statement that the guideline will be updated
- explicit time interval or explicit criteria to guide decisions about when an update will occur
- methodology for the updating procedure is reported

### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?

• Is there enough information provided to know when an update will occur or what criteria would trigger an update?

### **DOMAIN 4. CLARITY OF PRESENTATION**

- 15. The recommendations are specific and unambiguous.
- 16. The different options for management of the condition or health issue are clearly presented.
- 17. Key recommendations are easily identifiable.

## CLARITY OF PRESENTATION 15. The recommendations are specific and unambiguous. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Comments

### User's Manual Description:

A recommendation should provide a concrete and precise description of which option is appropriate in which situation and in what population group, as informed by the body of evidence.

• An example of a specific recommendation is: Antibiotics should be prescribed in children two years or older with a diagnosis of acute otitis media if the pain lasts longer than three days or if the pain increases after the consultation despite adequate treatment with painkillers; in these cases, amoxicillin should be given for 7 days (supplied with a dosage scheme).

• An example of a vague recommendation is: Antibiotics are indicated for cases with an abnormal or complicated course.

It is important to note that in some instances, evidence is not always clear cut and there may be uncertainty about the best care option(s). In this case, the uncertainty should be stated in the guideline.

### Where to Look:

Define and examine the recommendations in the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: recommendations and executive summary.

### How to Rate:

### Item content includes the following CRITERIA:

statement of the recommended action

• identification of the intent or purpose of the recommended action (e.g., to improve quality of life, to decrease side effects)

· identification of the relevant population (e.g., patients, public)

• caveats or qualifying statements, if relevant (e.g., patients or conditions for whom the recommendations would not apply)

### Additional CONSIDERATIONS:

• In the event of multiple recommendations (e.g., management guidelines), is there clarity regarding to whom each recommendation applies?

• If there is uncertainty in the interpretation and discussion of the evidence, is the uncertainty reflected in the recommendations and explicitly stated?

#### **CLARITY OF PRESENTATION**

16. The different options for management of the condition or health issue are clearly presented.

<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
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Comments

# User's Manual Description:

A guideline that targets the management of a disease should consider the different possible options for screening, prevention, diagnosis or treatment of the condition it covers. These possible options should be clearly presented in the guideline.

For example, a recommendation on the management of depression may contain the following treatment alternatives:

- a. Treatment with TCA
- b. Treatment with SSRI
- c. Psychotherapy
- d. Combination of pharmacological and psychological therapy

# Where to Look:

Examine the recommendations and their supporting evidence. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: executive summary, recommendations, discussion, treatment options, and treatment alternatives.

# How to Rate:

#### Item content includes the following CRITERIA:

- description of options
- description of population or clinical situation most appropriate to each option

#### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- · Is the item content easy to find in the guideline?

• Is this pertaining to a guideline broad or narrow in scope? This item may be more relevant to guidelines that are broad in scope (e.g., covering the management of a condition or issue rather than focusing on a particular set of interventions for a specific condition/issue).

# CLARITY OF PRESENTATION 17. Key recommendations are easily identifiable. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Image: Strongly Disagree Image: Strongl

# User's Manual Description:

Users should be able to find the most relevant recommendations easily. These recommendations answer the main question(s) that have been covered by the guideline and can be identified in different ways. For example, they can be summarized in a box, typed in bold, underlined or presented as flow charts or algorithms.

# Where to Look:

Examples of commonly labeled sections or chapters in a guideline where this information can be found include: executive summary, conclusions, and recommendations. Some guidelines provide separate summaries with key recommendations (e.g., quick reference guide).

# How to Rate:

#### Item content includes the following CRITERIA:

• description of recommendations in a summarized box, typed in bold, underlined, or presented as flow charts or algorithms

• specific recommendations are grouped together in one section

#### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- · Are the key recommendations appropriately selected and do they reflect the key messages of the guideline?
- · Are specific recommendations grouped in a section placed near the summary of the key evidence?

# **DOMAIN 5. APPLICABILITY**

- 18. The guideline describes facilitators and barriers to its application.
- 19. The guideline provides advice and/or tools on how the recommendations can be put into practice.
- 20. The potential resource implications of applying the recommendations have been considered.
- 21. The guideline presents monitoring and/or auditing criteria.

### **APPLICABILITY**

#### 18. The guideline describes facilitators and barriers to its application.

1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
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Comments

# User's Manual Description:

There may be existing facilitators and barriers that will impact the application of guideline recommendations. For example:

i. A guideline on stroke may recommend that care should be coordinated through stroke units and stroke services. There may be a special funding mechanism in the region to enable the formation of stroke units.

ii. A guideline on diabetes in primary care may require that patients are seen and followed up in diabetic clinics. There may be an insufficient number of clinicians available in a region to enable clinics to be established.

# Where to Look:

Examine the paragraph/chapter on the dissemination/implementation of the guideline or, if available, additional documents with specific plans or strategies for implementation of the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: barriers, guideline utilization, and quality indicators.

# How to Rate:

#### Item content includes the following CRITERIA:

· identification of the types of facilitators and barriers that were considered

methods by which information regarding the facilitators and barriers to implementing recommendations were sought (e.g., feedback from key stakeholders, pilot testing of guidelines before widespread implementation)
information/description of the types of facilitators and barriers that emerged from the inquiry (e.g.,

practitioners have the skills to deliver the recommended care, sufficient equipment is not available to ensure all eligible members of the population receive mammography)

• description of how the information influenced the guideline development process and/or formation of the recommendations

#### Additional CONSIDERATIONS:

• Is the item well written? Are the descriptions clear and concise?

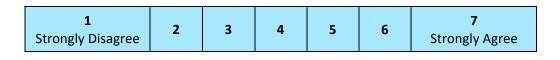
Is the item content easy to find in the guideline?

•Does the guideline suggest specific strategies to overcoming the barriers?

36

#### APPLICABILITY

19. The guideline provides advice and/or tools on how the recommendations can be put into practice.



Comments

# User's Manual Description:

For a guideline to be effective it needs to be disseminated and implemented with additional materials. For example, these may include: a summary document, a quick reference guide, educational tools, results from a pilot test, patient leaflets, or computer support. Any additional materials should be provided with the guideline.

# Where to Look:

Examine the paragraph on the dissemination/implementation of the guideline and, if available, the specific accompanying materials that have been produced to support the dissemination and implementation of the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: tools, resources, implementation, and appendices.

# How to Rate:

#### Item content includes the following CRITERIA:

- an implementation section in the guideline
- tools and resources to facilitate application:
  - > guideline summary documents
  - links to check lists, algorithms
  - links to how-to manuals
  - solutions linked to barrier analysis (see Item 18)
  - tools to capitalize on guideline facilitators (see Item 18)
  - > outcome of pilot test and lessons learned

· directions on how users can access tools and resources

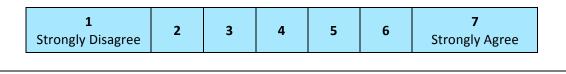
#### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Is there information about the development of the implementation tools and validation procedures?

Appendix to: The Canadian Congenital Diaphragmatic Hernia Collective. Diagnosis and management of congenital diaphragmatic hernia: A clinical practice guideline from the Canadian Congenital Diaphragmatic Hernia Collaborative. CMAJ 2018. doi: 10.1503/cmaj.170206. Copyright © 2018 Joule Inc. or its licensors

#### APPLICABILITY

20. The potential resource implications of applying the recommendations have been considered.



Comments

# User's Manual Description:

The recommendations may require additional resources in order to be applied. For example, there may be a need for more specialized staff, new equipment, and expensive drug treatment. These may have cost implications for health care budgets. There should be a discussion in the guideline of the potential impact of the recommendations on resources.

# Where to Look:

Examine the paragraph(s) on the dissemination/implementation of the guideline or, if available, additional documents with specific plans or strategies for implementation of the guideline. Some guidelines present cost implications in the paragraphs that discuss the evidence or decisions behind the recommendations. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, cost utility, cost effectiveness, acquisition costs, and implications for budgets.

# How to Rate:

#### Item content includes the following CRITERIA:

• identification of the types of cost information that were considered (e.g., economic evaluations, drug acquisition costs)

• methods by which the cost information was sought (e.g., a health economist was part of the guideline development panel, use of health technology assessments for specific drugs, etc.)

• information/description of the cost information that emerged from the inquiry (e.g., specific drug acquisition costs per treatment course)

• description of how the information gathered was used to inform the guideline development process and/or formation of the recommendations

#### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?
- Were appropriate experts involved in finding and analyzing the cost information?

# APPLICABILITY 21. The guideline presents monitoring and/or auditing criteria. 1 2 3 4 5 6 7 Strongly Disagree 2 3 4 5 6 7 Comments Comments

# User's Manual Description:

Measuring the application of guideline recommendations can facilitate their ongoing use. This requires clearly defined criteria that are derived from the key recommendations in the guideline. The criteria may include process measures, behavioral measures, clinical or health outcome measures. Examples of monitoring and audit criteria are:

• The HbA1c should be < 8.0%.

The level of diastolic blood pressure should be < 95 mmHg.</li>

• 80% of the population aged 50 years should receive colorectal cancer screening rates using fecal occult blood tests.

• If complaints of acute otitis media last longer than three days, amoxicillin should be prescribed.

# Where to Look:

Examine the paragraph/chapter on auditing or monitoring the use of the guideline or, if available, additional documents with specific plans or strategies for evaluation of the guideline. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: recommendations, quality indicators, and audit criteria.

# How to Rate:

#### Item content includes the following CRITERIA:

· identification of criteria to assess guideline implementation or adherence to recommendations

- · criteria for assessing impact of implementing the recommendations
- · advice on the frequency and interval of measurement
- · descriptions or operational definitions of how the criteria should be measured

#### Additional CONSIDERATIONS:

• Is the item well written? Are the descriptions clear and concise?

· Is the item content easy to find in the guideline?

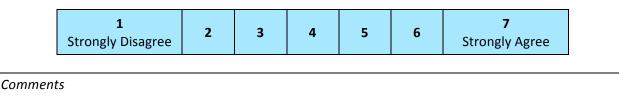
• Are a range of criteria provided including process measures, behavioural measures, and clinical or health outcomes?

# **DOMAIN 6. EDITORIAL INDEPENDENCE**

- 22. The views of the funding body have not influenced the content of the guideline.
- 23. Competing interests of guideline development group members have been recorded and addressed.

#### **EDITORIAL INDEPENDENCE**

# 22. The views of the funding body have not influenced the content of the guideline.



# **User's Manual Description:**

Many guidelines are developed with external funding (e.g., government, professional associations, charity organizations, pharmaceutical companies). Support may be in the form of financial contribution for the complete development, or for parts of it (e.g., printing of the guidelines). There should be an explicit statement that the views or interests of the funding body have not influenced the final recommendations.

# Where to Look:

Examine the paragraphs/chapters on the guideline development process or acknowledgements section. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: disclaimer and funding source.

# How to Rate:

#### Item content includes the following CRITERIA:

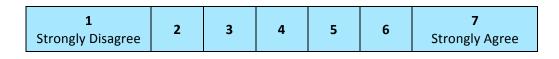
- the name of the funding body or source of funding (or explicit statement of no funding)
- a statement that the funding body did not influence the content of the guideline

#### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- · Is the item content easy to find in the guideline?
- How did the guideline development group address potential influence from the funding body?

#### EDITORIAL INDEPENDENCE

23. Competing interests of guideline development group members have been recorded and addressed.



Comments

# User's Manual Description:

There are circumstances when members of the development group may have competing interests. For example, this would apply to a member of the development group whose research on the topic covered by the guideline is also funded by a pharmaceutical company. There should be an explicit statement that all group members have declared whether they have any competing interests.

# Where to Look:

Examine the paragraphs/chapters describing the guideline development group or acknowledgements section. Examples of commonly labeled sections or chapters in a guideline where this information can be found include: methods, conflicts of interest, guideline panel, and appendix.

# How to Rate:

#### Item content includes the following CRITERIA:

- description of the types of competing interests considered
- methods by which potential competing interests were sought
- description of the competing interests
- description of how the competing interests influenced the guideline process and development of recommendations

#### Additional CONSIDERATIONS:

- Is the item well written? Are the descriptions clear and concise?
- Is the item content easy to find in the guideline?

• What measures were taken to minimize the influence of competing interests on guideline development or formulation of the recommendations?

# **OVERALL GUIDELINE ASSESSMENT**

# OVERALL GUIDELINE ASSESSMENT

For each question, please choose the response which best characterizes the guideline assessed:

### 1. Rate the overall quality of this guideline.

1						7
Lowest possible	2	3	4	5	6	Highest possible
quality						quality

#### 2. I would recommend this guideline for use.

Yes	
Yes, with modifications	
No	

#### NOTES



# User's Manual Description:

The overall assessment requires the AGREE II user to make a judgment as to the quality of the guideline, taking into account the appraisal items considered in the assessment process.

# **AGREE II INSTRUMENT**

# **DOMAIN 1. SCOPE AND PURPOSE**

1. The	overall objective(s	) of the	guideli	ne is (a	re) spec	cifically	described.
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Comme	nts						
2. The	health question(s)	covere	ed by the	e guide	line is (a	are) spe	cifically described.
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Comme	nts						
	population (patien cally described.	ts, publ	ic, etc.)	to who	m the g	uideline	e is meant to apply is
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Comme	nts						

### **DOMAIN 2. STAKEHOLDER INVOLVEMENT**

4. The groups.	- ·	nent gr	oup incl	ludes in	dividual	Is from	all relevant professi	onal
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commen	ts							
5. The sought.	views and prefere	nces of	the targ	get pop	ulation (	patients	s, public, etc.) have	been
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commen	ts							
6. The t	arget users of the	guideli	ne are o	clearly	defined.			
	1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commen	ts							

# **DOMAIN 3. RIGOUR OF DEVELOPMENT**

7. Syste	ematic methods w	ere use					
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Comment	ts						
B. The c	criteria for selectin	g the e	vidence	e are cle	arly de	scribed.	
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
L							
Commen	ts						
Comment	ts						
Comment	ts						
		ations	of the h	ody of c	widopor		
	<i>ts</i> strengths and limit	ations	of the b	ody of e	evidence	e are cl	early described.
		ations o	of the b	ody of e	evidence	e are clo 6	early described. 7 Strongly Agree
9. The s	strengths and limit 1 Strongly Disagree						7
	strengths and limit 1 Strongly Disagree						7
9. The s	strengths and limit 1 Strongly Disagree						7
9. The s	strengths and limit 1 Strongly Disagree						7
9. The s	strengths and limit 1 Strongly Disagree						7
9. The s	strengths and limit 1 Strongly Disagree						7

# **DOMAIN 3. RIGOUR OF DEVELOPMENT continued**

		ulating	the reco	ommen	dations	are clea	arly described.	
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Comme	nts							
	e health benefits, s mendations.	ide effe	ects, and	d risks f	nave be	en cons	sidered in formulat	ing th
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Comme	nis							
	ere is an explicit lin ce.	k betwe	een the	recomr	nendati	ons and	the supporting	
12. Th eviden		k betwe	een the	recomr 4	nendati 5	ons and	the supporting <b>7</b> Strongly Agree	

# **DOMAIN 3. RIGOUR OF DEVELOPMENT continued**

13. The	guideline has bee	en exter	nally re	viewed	by expe	erts pric	or to its publication.
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Commen	ts						
14. A pi	ocedure for updat	ing the	auidelir	ne is pro	ovided.		
	1	2	3	4	5	6	7
	Strongly Disagree	2	3	4	5	O	Strongly Agree

# **DOMAIN 4. CLARITY OF PRESENTATION**

15. The	e recommendation	s are s	pecific a	ind una	mbiguo	US.		
	1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Comme	nts							
16. The presen		for man	agemei	nt of the	e conditi	on or h	ealth issue are clearly	
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Comme	nts							
17. Key	recommendation	s are ea	asily ide	entifiable	9.			
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commer	nts							

# **DOMAIN 5. APPLICABILITY**

18. The	e guideline describ	es facil	itators a	and barr	riers to i	ts appli	cation.	
	1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commer	nts							
40 Th								
	e guideline provide practice.	s advic	e and/o	r toois (	on now	the reco	ommendations can	be
	1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commer	nts							
20. The conside		e implic	ations o	of apply	ing the	recomn	nendations have be	en
	1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree	
Commer	its							
				8				

# **DOMAIN 5. APPLICABILITY continued**

21. The	guideline present	is monit	toring a	nd/or au	uditing c	riteria.	
	1 Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Commen	ts						

# **DOMAIN 6. EDITORIAL INDEPENDENCE**

22. The views of the funding body have not influenced the content of the guideline.							
	<b>1</b> Strongly Disagree	2	3	4	5	6	<b>7</b> Strongly Agree
Commen	ts						
23. Cor and add	npeting interests o tressed.	of guide	line dev	elopme	ent grou	p memb	pers have been recorded
	1	2	3	4	5	6	7
	Strongly Disagree			_			Strongly Agree
Commen	ts						

# **OVERALL GUIDELINE ASSESSMENT**

For each question, please choose the response which best characterizes the guideline assessed:

# 1. Rate the overall quality of this guideline.

1						7
Lowest possible	2	3	4	5	6	Highest possible
quality						quality

# 2. I would recommend this guideline for use.

Yes	
Yes, with modifications	
No	

#### NOTES