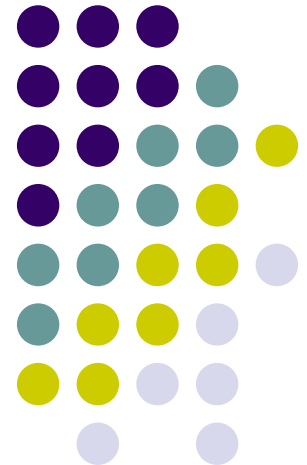


Guideline Adaptation: a New Approach to Guideline Development

Jako Burgers
11 October 2006
Budapest

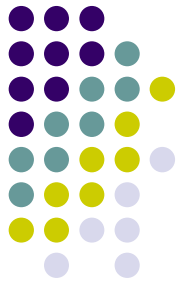




Background

- We live in a world of guidelines
→ we can't ignore them
- We still need new guidelines and updates of older ones
→ why don't we use existing guidelines in our process?

Different Levels of Guideline Use



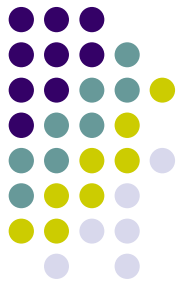
- Adopt the guideline (same language/format)
- Keep the text but change the format
- Translate the guideline
- Adapt the guideline (which may include an update of literature and/or addition of questions)
- Use the guideline as literature (review of evidence)

Different Levels of Guideline Use



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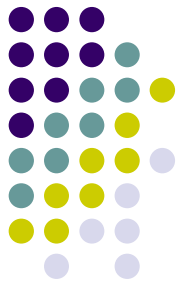
Definition of Adaptation



“Modification of guideline(s) produced for use in one cultural and organizational context to be used in a different cultural organizational context (including language, values, healthcare setting, and so on)”

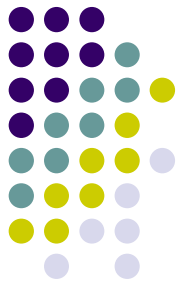
ADAPTE Group, 2006

Aims of Guideline Adaptation



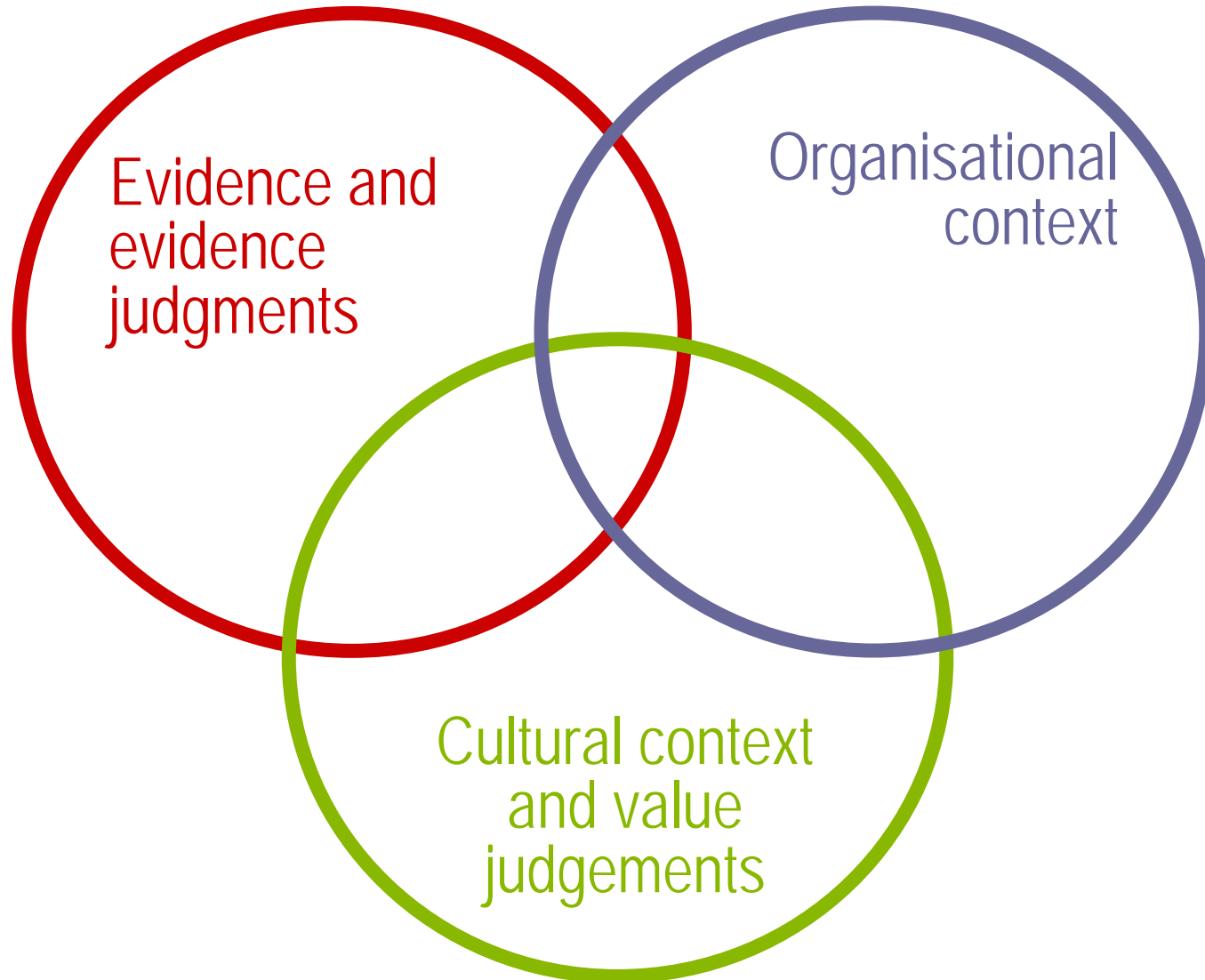
- Reduce duplication of effort, especially for the systematic review portion of guideline
- Potentially less time and fewer resources required than for de novo development
- Increase awareness of contextual factors in guideline development and implementation
- Educative process

Guideline Adaptation: the way forward?

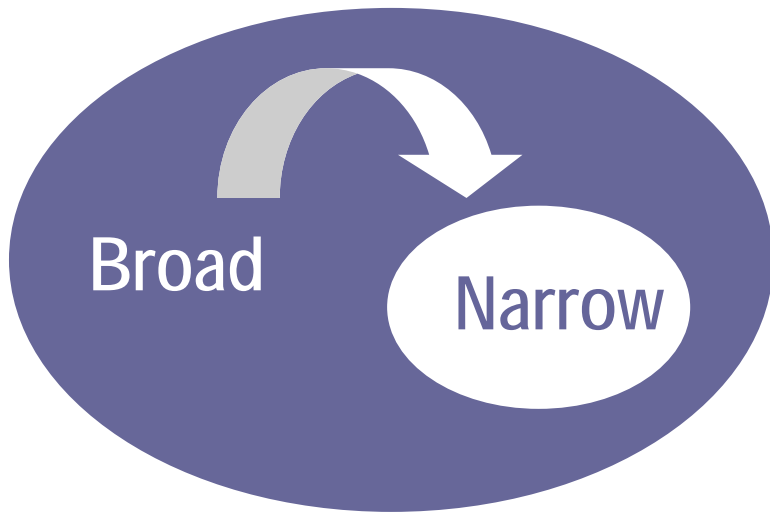
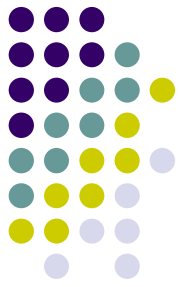


- Guidelines on the same topic vary in coverage and scope
- Inconsistency of search strategy and appraisal of evidence
- Inconsistency of recommendations with cited evidence
- Legitimate variations of guideline recommendations

Translation of Evidence into Practice Recommendations

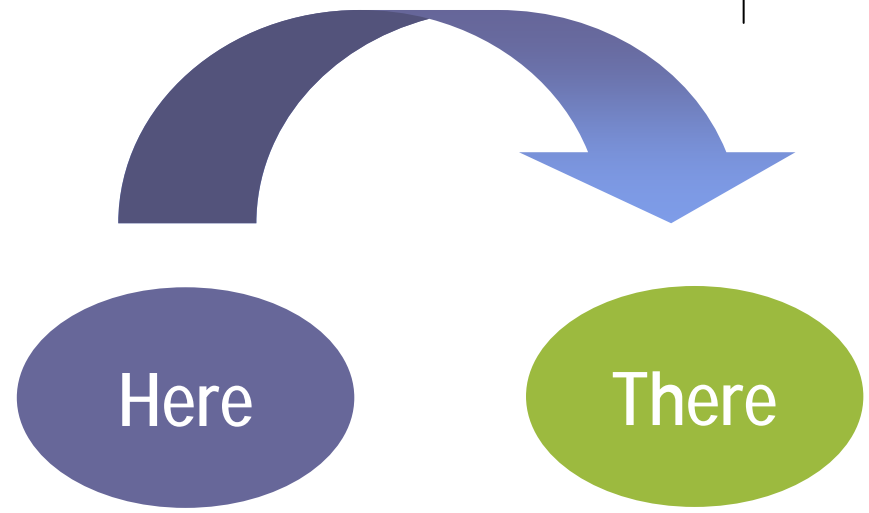


Different Forms of Guideline Adaptation



'Broad-narrow' adaptation

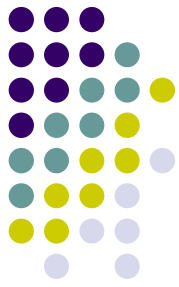
- From national level to local or regional context



'Transcontextual' adaptation

- Alternative to *de novo* guideline development
- Distinct cultural and organisational setting

Purposes of Guideline



Guideline development

- Take advantage of existing guidelines to reduce duplication of effort

De novo guideline development

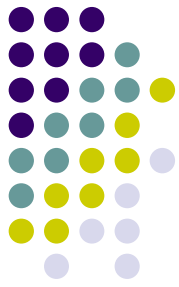
Transcontextual adaptation

Implementation

- Local tailoring of an international or national guideline

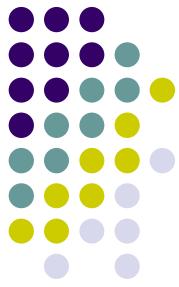
Broad-narrow adaptation

Guideline Adaptation: practical questions



- Where to find guidelines?
- How to assess pertinence and relevance of clinical questions covered?
- How to assess guideline quality?
- How to assess clinical content?
- How to assess applicability ?
- How to adapt the recommendations?
- How to ensure acceptance and ownership of adapted guideline?

Guideline Adaptation: a systematic approach

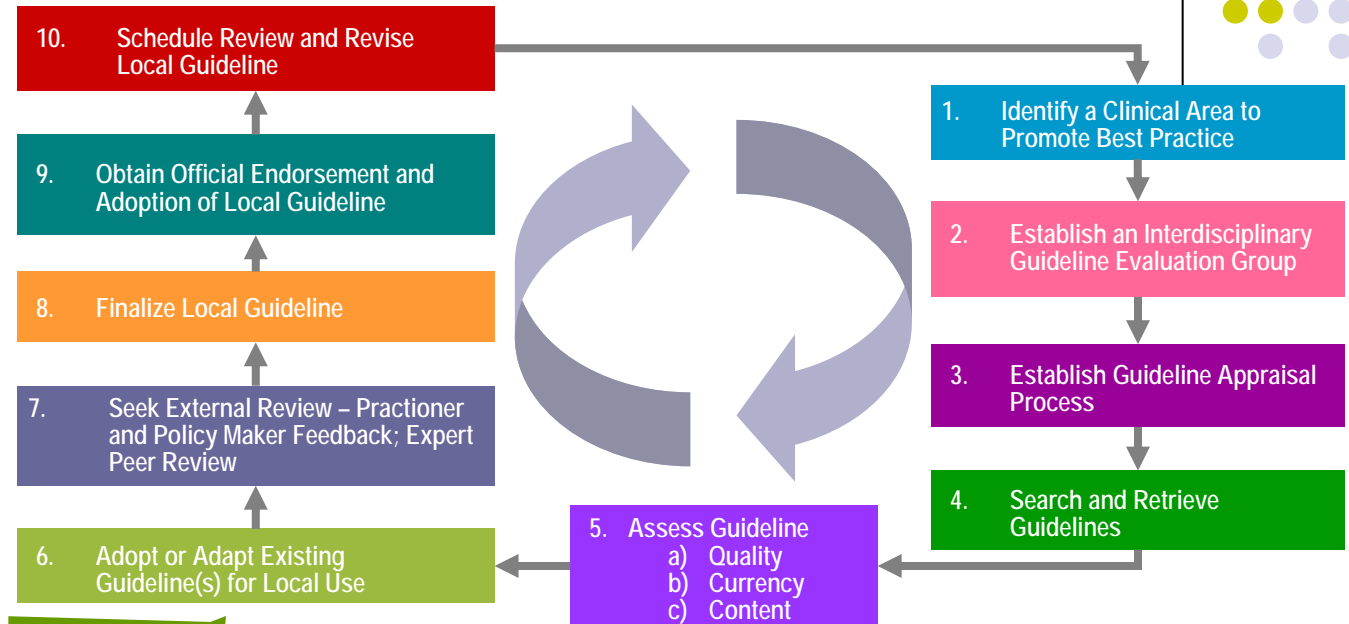


- Following a systematic approach will:
 - Help ensure the quality and validity of the adapted guideline
 - Encourage confidence in and acceptance of the guidelines by targeted users
 - Promote use of the adapted guideline by external groups

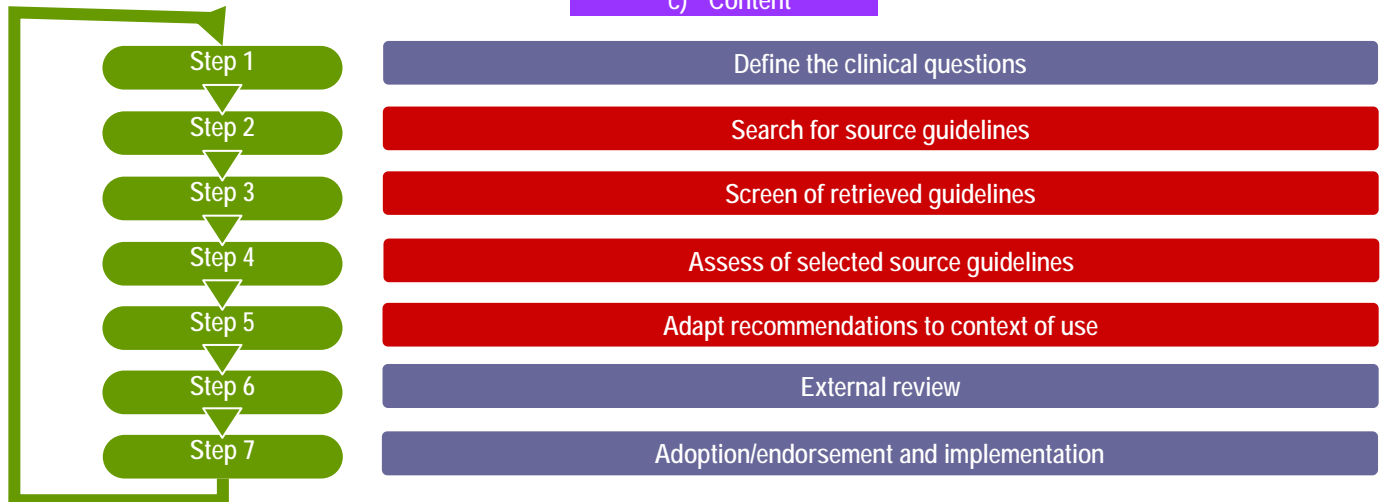
Two Original Approaches



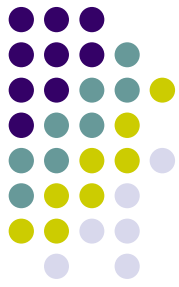
1. Practice Guidelines Evaluation and Adaptation Cycle (Graham et al, 2005)



2. Stepwise approach to guideline adaptation (Fervers et al, 2006)



**ADAPTE launched
in January 2006**



Current Members of the ADAPTE Group – in alphabetical order



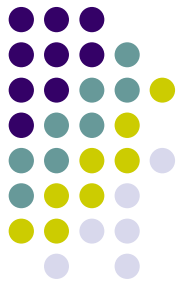
- Melissa Brouwers, Cancer Care Ontario, McMaster University, Canadian Strategy for Cancer Control, Canada
- George Browman, Alberta Cancer Board, Canadian Strategy for Cancer Control, Canada
- Jako Burgers, Dutch Institute for Healthcare Improvement CBO, Netherlands
- Bernard Burnand, Health Care Evaluation Unit and Clinical Epidemiology IUMSP, DUMSC Hospices, Université de Lausanne, Switzerland
- Béatrice Fervers, Fédération des centres de luttres contre le cancer (FNCLCC), Lyon, France
- Ian Graham, Ottawa Health Research Institute, University of Ottawa, Canadian Strategy for Cancer Control, Canada
- Margaret Harrison, Queen's University School of Nursing, University of Ottawa, Kingston, Canada
- Jean Latreille, Direction de la lutte contre le cancer, Ministère de la santé et des services sociaux, Québec Hôpital Charles Lemoyne, Canadian Strategy for Cancer Control, Montréal, Québec
- Najoua Mlika-Cabanne, Haute Autorité de Santé, Paris, France
- Louise Paquet, Direction de la lutte contre le cancer, Ministère de la santé et des services sociaux, Québec Hôpital Charles Lemoyne, Canadian Strategy for Cancer Control, Montréal, Canada
- Raghu Rajan, McGill University Hospital Centre, Comité d'évolution de la pratique en oncologie, Montréal, Canada
- Anita Simon, Alberta Cancer Board, Calgary, Alberta, Canada
- Joan Vlayen, Catholic University of Leuven, Belgium
- Louise Zitzelsberger, Ottawa Health Research Institute, Canadian Strategy for Cancer Control, Ottawa, Canada

Developing a Manual for Guideline Adaptation



- **Audience**
 - Groups from local to international level
 - Manual takes into account level of experience with guideline development and available resources
- **Applications**
 - Groups interested in selecting 1 guideline and adapting it to the local context
 - Groups wishing to identify all quality guidelines and customize one that meets their needs
 - Manual designed to be flexible
- **Scope**
 - Guidelines of any disease area
 - Screening, diagnosis, treatment, supportive care, health promotion

Principles Guiding the Process



- Respect of evidence-based principles for guideline development
- Reliable methods to ensure quality and validity of adapted guideline
- Participative approach involving all key stakeholders to foster acceptance and ownership
- Explicit consideration of context to ensure relevance for practice
- Transparent reporting to favour confidence
- Flexible format to accommodate specific needs and circumstances



3 Phases and Various Modules

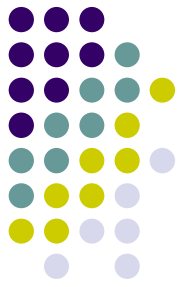
Set-Up Phase	Adaptation Phase	Finalization Phase
<ul style="list-style-type: none">• Preparation Module	<ul style="list-style-type: none">• Scope and Purpose Module• Search and Screen Module• Assessment Module• Decision and Selection Module• Customization Module	<ul style="list-style-type: none">• External Review, Consultation and Accountability Module• Final Production Module• Scheduled Review and Update Module



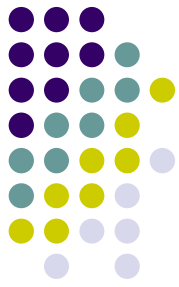
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Set-Up Phase – Preparation Module



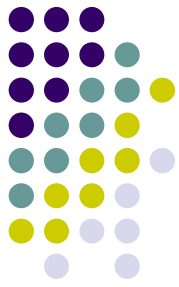
Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● Set up organizing committee● Select broad topic● Identify if adaptation is feasible● Identify skills and resources needed● Complete set-up tasks● Write protocol	<ul style="list-style-type: none">● Organizing committee established● Topic identified● Panel selected● Protocol written	<ul style="list-style-type: none">● Managerial and administrative skills● Clinical skills	<ul style="list-style-type: none">● Search Sources and Strategies● Consensus Process Resources● Sample Declaration of Conflict of Interest● Example Workplan



3 Phases and Various Modules

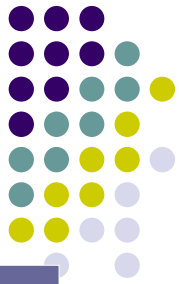
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Adaptation Phase – Scope and Purpose Module



Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● Determine the clinical questions	<ul style="list-style-type: none">● List of clinical questions to be included and those to be excluded● List of guideline specifics	<ul style="list-style-type: none">● Clinical expertise● Methodological expertise	<ul style="list-style-type: none">● PIPOH

PIPOH Tool



PIPOH

Patient population and disease characteristics

Intervention (s) of interest

Professionals targeted by the guideline

Outcomes and endpoints to be taken into consideration

Healthcare setting and context

Adaptation Phase – Search and Screen Module



Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none"> ● Search for all relevant guidelines and other relevant documentation ● Screen retrieved guidelines ● Reduce total number if a large number was retrieved 	<ul style="list-style-type: none"> ● Set of potential source guidelines ● List of excluded guidelines 	<ul style="list-style-type: none"> ● Search – information retrieval skills, clinical expertise ● Screen – methodological expertise, clinical expertise 	<ul style="list-style-type: none"> ● Search sources and strategies ● Example table for summarizing guideline characteristics ● Example table for recording clinical content of guidelines ● AGREE instrument ● AGREE inter-rater agreement spreadsheet

Adaptation Phase – Assessment Module

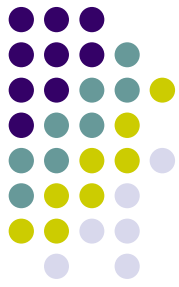


Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
Assess the <ul style="list-style-type: none"> ● quality ● consistency ● currency ● content ● applicability of source guidelines 	<ul style="list-style-type: none"> ● AGREE scores ● Search and selection evaluation ● Consistency of evidence and interpretations ● Consistency of interpretations and recommendations ● Summary of currency ● Recommendations Matrices ● Evaluation of applicability 	<ul style="list-style-type: none"> ● Methodological expertise ● Information retrieval skills ● Clinical expertise 	<ul style="list-style-type: none"> ● AGREE instrument ● AGREE inter-rater agreement and scored spreadsheets ● Evaluation – Search and selection of evidence ● Evaluation – Scientific validity of guidelines with respect to clinical questions ● Sample currency survey ● Sample recommendations matrices ● Worksheet - Applicability

Adaptation Phase – Assessment Module



Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
Assess the <ul style="list-style-type: none"> ● quality ● consistency ● currency ● content ● applicability of source guidelines 	<ul style="list-style-type: none"> ● AGREE scores ● Search and selection evaluation ● Consistency of evidence and interpretations ● Consistency of interpretations and recommendations ● Summary of currency ● Recommendations Matrices ● Evaluation of applicability 	<ul style="list-style-type: none"> ● Methodological expertise ● Information retrieval skills ● Clinical expertise 	<ul style="list-style-type: none"> ● AGREE instrument ● AGREE inter-rater agreement and scored spreadsheets ● Evaluation – Search and selection of evidence ● Evaluation – Scientific validity of guidelines with respect to clinical questions ● Sample currency survey ● Sample recommendations matrices ● Worksheet - Applicability



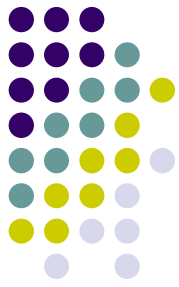
Example - Raw AGREE scores

Example – Presentation of Raw AGREE Scores
Responses to the 3 items of the Score and Purpose Dimension
5 appraisers

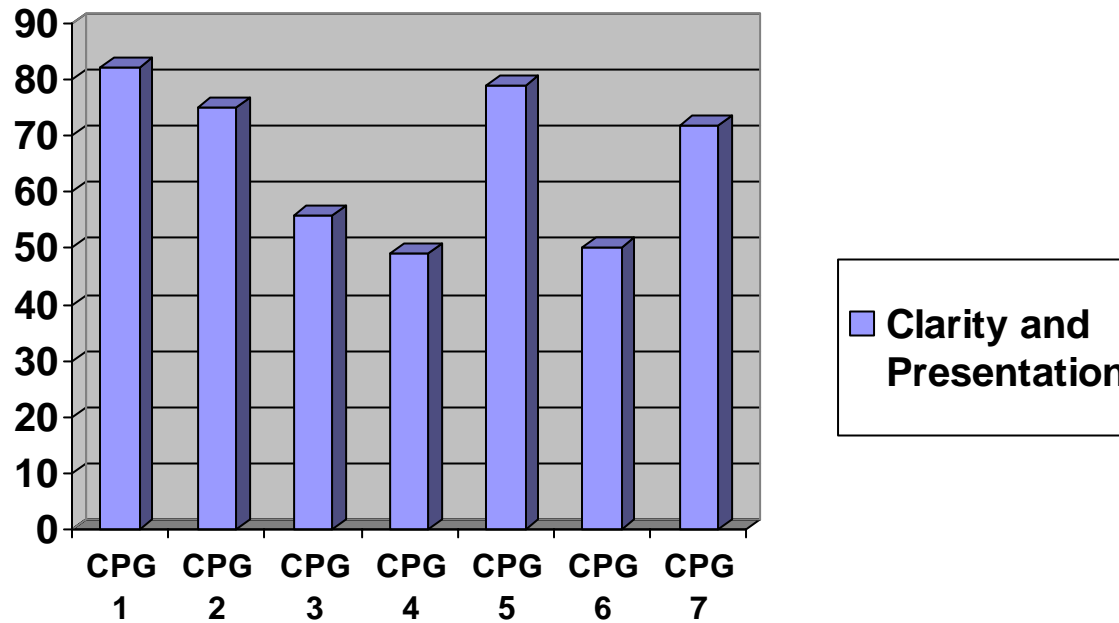
Rater	Item 1	Item 2	Item 3
A	1	1	1
B	3	4	4
C	2	1	2
D	3	1	2
E	4	3	4

For each of the three items, some of the appraisers have rated the item highly and others have rated it poorly. A discussion would help clarify these differences.

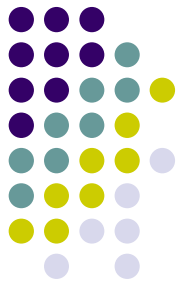
Example - Summary AGREE graphs



Example – Graphical Representation of Clarity and Presentation Scores for Cervical Cancer Screening Guidelines



Example – Overall Assessment



	Strongly Recommend	Recommend with alterations	Would not recommend	Unsure
CPG 1	4	1	0	0
CPG 2	3	2	0	0
CPG 3	4	7	1	0
CPG 4	1	2	3	1
CPG 5	0	1	3	1
CPG 6	5	0	1	0
CPG 7	0	4	1	0

Adaptation Phase – Assessment Module



Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
Assess the <ul style="list-style-type: none"> ● consistency ● quality ● currency ● content ● applicability of source guidelines 	<ul style="list-style-type: none"> ● AGREE scores ● Search and selection evaluation ● Consistency of evidence and interpretations ● Consistency of interpretations and recommendations ● Summary of currency ● Recommendations Matrices ● Evaluation of applicability 	<ul style="list-style-type: none"> ● Methodological expertise ● Information retrieval skills ● Clinical expertise 	<ul style="list-style-type: none"> ● AGREE instrument ● AGREE inter-rater agreement and scored spreadsheets ● Evaluation – Search and selection of evidence ● Evaluation – Scientific validity of guidelines with respect to clinical questions ● Sample currency survey ● Sample recommendations matrices ● Worksheet - Applicability

Example – Part of a Recommendations Matrix



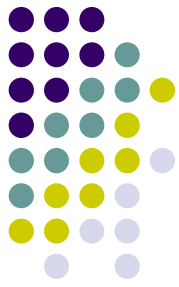
Cervical Cancer Screening Recommendation – Grouped by Recommendation	CPG 1 2003	CPG 2 2003	CPG 3 1993	CPG 4 1995	CPG 5 1998	CPG 6 2002
Rigour Scores	67.6	84.9	69.2	53.7	39.6	69.4
Screening onset						
<i>Begin screening with the onset of sexual activity</i>				*Level II Page 88 7		
<i>Begin screening three years after onset of vaginal intercourse and no later than 21 years of age</i>	Level II Page 2	Level II Page 34 5				
<i>Begin screening at age 18 or onset of sexually activity</i>						Level II Page 19
<i>Begin screening at age 20 for women who have had sexual intercourse</i>			Level III Page 2			

Adaptation Phase – Assessment Module



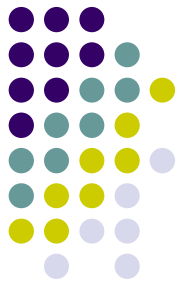
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Applicability – factors to be considered

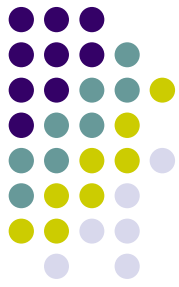


- Availability of interventions
- Availability of necessary expertise
- Organisational barriers
- Resources, costs
- Health care system context
- Cultural values and differences

Adaptation Phase – Decision and Selection Module



Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● Review assessments to aid in decision making● Select between guidelines and recommendations to create an adapted guideline	<ul style="list-style-type: none">● Draft guideline document including a record of the process or if consensus was not reached, a report on the process	<ul style="list-style-type: none">● Clinical expertise● Methodological expertise● Facilitation skills (Chair)	



3 Phases and Various Modules

Set-Up Phase	Adaptation Phase	Finalization Phase
<ul style="list-style-type: none">• Preparation Module	<ul style="list-style-type: none">• Scope and Purpose Module• Search and Screen Module• Assessment Module• Decision and Selection Module• Customization Module	<ul style="list-style-type: none">• External Review, Consultation and Accountability Module• Final Production Module• Scheduled Review and Update Module

Options – Decision and Selection Module



- **ACCEPT a guideline as a whole and all of its recommendations**
- **REJECT a guideline as a whole and all of its recommendations**
- **ADAPT - Accept single recommendations**
- **ADAPT - Modify single recommendations**
- **ACCEPT evidence summary of guideline**

Adaptation Phase – Customization Module

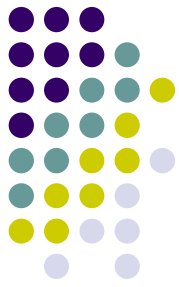


Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● Prepare a document that respects the needs of the end user and provides a detailed transparent explanation of the process	<ul style="list-style-type: none">● Draft guideline document	<ul style="list-style-type: none">● Editorial skills● Clinical expertise● Design skills	<ul style="list-style-type: none">● Checklist of adapted guideline content

Example – Customization Module



- Important sections of adapted guideline:
 - Transparency of all decision making (e.g., consensus process described, how decisions were arrived at/ resolved, if recommendations were modified – how and why they were modified)
 - Acknowledgement of source guideline developers and where necessary, permission granted by source developers



3 Phases and Various Modules

Set-Up Phase	Adaptation Phase	Finalization Phase
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Finalization Phase – Consultation and Accountability Module



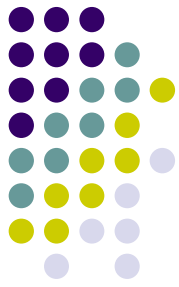
Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● External review by target users● Consult with source guideline developers● Encourage or organize endorsement by relevant professional bodies● Acknowledge source documents	<ul style="list-style-type: none">● Feedback from external review incorporated into guideline● Feedback from source guideline developers incorporated into guideline● Endorsement by approval body	<ul style="list-style-type: none">● Managerial and administrative skills	

Finalization Phase – Scheduled Review and Update Module

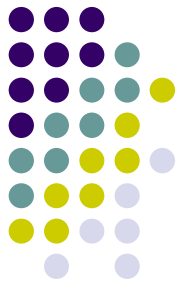


Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● Plan for aftercare of adapted guideline	<ul style="list-style-type: none">● Concrete plan for review and updates	<ul style="list-style-type: none">● Information retrieval skills● Methodological expertise● Clinical expertise	

Finalization Phase – Final Production Module



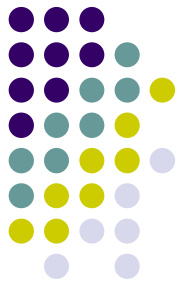
Aims/ Tasks	Products/ Deliverables	Skills/ Organizational Requirements	Helpful Tools
<ul style="list-style-type: none">● Produce a valid and high quality final adapted guideline	<ul style="list-style-type: none">● Final guideline document	<ul style="list-style-type: none">● Editorial skills● Design skills	



Example – Final Production Module

- Final version formatted to take into account preferences of family physicians (brief, patient material) – one page summary prefacing main document, patient brochure echoing recommendations (translated into different languages)

Next steps for ADAPTE Process/ Manual



- Evaluation study in process of being planned
- Looking for groups interested in adaptation to use the manual and provide feedback on the manual and process – international testing
- Investigator meeting in Toronto 2007

4th G-I-N Conference, Toronto 22-25 August 2007



Theme

Collaboration in Clinical
Practice Guidelines -
local, national and
international
cooperation in
synthesizing and
applying best evidence





More information is available on
www.adapte.org