GuideLine
Implementability Appraisal
With GLIA

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In a well written recommendation, it is clear...

- **WHEN** {under what circumstances}
- **WHO** should
- Do **WHAT**
- To **WHOM**
- **HOW**
- **WHY**
An easily implementable recommendation...

- Is decidable
- Is executable
- Minimally impedes workflow
- Is identifiable
- Has measurable effects
- Is valid
- Is not terribly innovative (unconventional)
- Incorporates some degree of flexibility
Goals of GLIA

- To identify obstacles to implementation
- To provide feedback to guideline authors to anticipate and address these obstacles before a draft guideline is finalized
- To assist implementers in guideline selection and to target attention toward anticipated obstacles
Performing GLIA

- Choose version of guideline & recommendations to consider
- Distribute copies and GLIA forms
- Review guideline individually
- Discuss appraisal as a group and develop consensus
  - Reasons for disagreement
    - Oops - didn’t see it
    - Duh - didn’t know that - differences in clinical expertise
    - True disagreement
- Generate report
e-GLIA:
A Computerized System for Appraisal of Guideline Implementability
Problems with paper version

• Appraiser
  – Lots of paper flipping
  – No standardized reporting format

• Leader
  – Only sees appraisals at end of process -->
  – Meeting discussion is unfocused
  – Collating results is a tedious manual process
Features

- Web-based -> supports appraisal of guideline implementability by geographically separated team members
- Displays progress of individuals and the appraisal team
- Prioritizes controversial areas for group discussion
- Facilitates report generation
# Screening for gonorrhea, version 2

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<th>Workflow</th>
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**Review your GLIA global dimension evaluation**

YaCy, 2005

Log out
Meeting

• Focus on divergent ratings and attempt to achieve consensus

• Number of items to appraise:
  – 24 GLIA items X number of recommendations + 7 globals
  – A medium-sized GL with 10 recommendations requires 247 assessments per appraiser
Number of complete appraisals

Pin color:
• Blue = discuss
• Green = no need for discussion
• Pink = No completed appraisals

Generate report for Screening for gonorrhea, version 2

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### Generate report for Screening for gonorrhea, version 2

**Generate GLIA report for global dimension**

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**Clinician's attitude towards the need for systemic antibiotic is unknown.**
Leader Pastes Recommendations
Allocates Privileges
Automatic Notification

Individual Appraisal
Individual Appraisal
Individual Appraisal

Focused, Synchronous Interaction

Leader Annotates Report
Preparing a GLIA Report

- For items scored “No”
  - Indicate barrier in summary
  - Describe why the recommendation failed the criterion
- Work load
  - Number of ratings X number of appraisers
  - A GL with 10 recommendations and 4 appraisers requires review of 988 ratings
<table>
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<th>Criterion failed / Barrier</th>
<th>Specifics</th>
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<tr>
<td>11) The recommended action (what to do) is vague or ambiguous.</td>
<td>some vagueness remains over when to do both aural toilet and wick placement.</td>
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<td>21) The recommendation can not be performed by the guideline's intended users without the acquisition of new competence (knowledge, skills).</td>
<td>Primary care physicians may not have skills in wick placement/aural toilet.</td>
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<td>24) The recommendation does not specify patient or practice characteristics (clinical and non-clinical) that require (or permit) individualization.</td>
<td>Not clear about when to use which technique.</td>
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10) The logical relationship among all conditions (ANDs and ORs) is not clear.

Recommendation 2: PAIN MANAGEMENT: The management of diffuse AOE should include an assessment of pain. The clinician should
e-GLIA

- Allows distributed appraisal of guideline implementability by a geographically dispersed team
- Enables efficient manipulation and display of the large dataset created during guideline appraisal
- Creates views customized for appraisal leader, appraisers, and reportees
- Facilitates synthesis of a summary report
Thank you!

- [http://gem.med.yale.edu/glia](http://gem.med.yale.edu/glia)
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