**Content - Overview**

- Motivation - Introduction
- Diagnostic-Therapeutic Cycle
- Medical Therapy Planning
- Guideline Repositories
- Guideline Development (CBO)
- Instruments for Quality of Guidelines
  - Agree Instrument
    - (e)GLIA
  - Planning / Plan Management

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**(e) GLIA**

**GuideLine Implementability Appraisal**

**Developed by**

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- and Ryan O'Connell
- Center for Medical Informatics, Yale University
- School of Medicine

**Objective**

To develop and validate a tool for appraisal of implementability of clinical guidelines.

**31 Items – arranged into 10 Dimensions**

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**GLIA**

**Whole Guideline vs. Recommendations**

**Definitions**

- **Conditional Recommendation**
  - One or more actions to be performed for members of the target population IF they fulfill one or more stated conditions
- **Conditions**
  - May include patient descriptors
- **Imperative Recommendation**
  - States one or more actions to be performed for all members of the target population

**Dimension 1: whole guideline document**

**Dimension 2-10: recommendations**

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**GLIA: 10 Dimensions**

**Global Considerations**

**Decidability**

Precisely under what circumstances to do something

**Executability**

Exactly what to do under the circumstances defined

**Effect On Process Of Care**

Degree to which the recommendation impacts upon the usual workflow in a typical care setting

**Presentation & Formatting**

Degree to which the recommendation is easily recognizable and succinct
GLIA: 10 Dimensions (2/3)

**Measurable Outcomes**
Degree to which the guideline identifies markers or endpoints to track the effects of implementation of this recommendation

**Apparent Validity**
Degree to which the recommendation reflects the intent of the developer and the strength of evidence

**Novelty/Innovation**
Degree to which the recommendation proposes behaviors considered unconventional by clinicians or patients

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GLIA: 10 Dimensions (3/3)

**Flexibility**
Degree to which a recommendation permits interpretation and allows for alternatives in its execution

**Computability**
Ease with which a recommendation can be operationalized in an electronic information system

Is only applicable when an electronic implementation is planned

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GLIA Response Options

**y**
The recommendation meets this criterion fully.

**n**
The recommendation does **not** meet this criterion.

**?**
Rater is unable to address this question because of insufficient knowledge or experience in this area.

**NA**
Criterion is not applicable to this recommendation.

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GLOBAL CONSIDERATIONS (entire guideline)

1) Do the organization(s) and author(s) who developed the guideline have credibility with the intended users of the guideline?

2) Is the patient population eligible for the guideline clearly defined?

3) Does the guideline document suggest possible strategies for dissemination and implementation?
## GLIA Dimension’s Examples

### DECIDABILITY

(precisely under what circumstances to do something)

<table>
<thead>
<tr>
<th>Statement Number</th>
<th>DECIDABILITY</th>
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<tbody>
<tr>
<td></td>
<td>6) Would the guideline’s intended audience consistently determine whether each condition in the recommendation has been satisfied? That is, is each and every condition described clearly enough so that reasonable practitioners would agree when the recommendation should be applied?</td>
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<td>9) Are all reasonable combinations of conditions accounted for, i.e., is the recommendation comprehensive?</td>
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<td>10) If there are more than one condition in the recommendation, is the logical relationship among all conditions (ANDs and ORs) clear?</td>
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</table>

Comments:

### COMPUTABILITY

(the ease with which a recommendation can be operationalized in an electronic information system)

<table>
<thead>
<tr>
<th>Statement Number</th>
<th>COMPUTABILITY</th>
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<tbody>
<tr>
<td></td>
<td>26) Are all patient data needed for this recommendation available electronically in the system in which it is to be implemented?</td>
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<td>29) Is each condition of the recommendation defined at a level of specificity suitable for electronic implementation?</td>
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<tr>
<td></td>
<td>30) Is each recommended action defined at a level of specificity suitable for electronic implementation?</td>
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<td></td>
<td>31) Is it clear by what means a recommended action can be executed in an electronic setting, e.g., creating a prescription, medical order, or referral, creating an electronic mail notification, or displaying a dialog box?</td>
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</tbody>
</table>

Comments:

*optional: only applicable when an electronic implementation is planned for a particular setting*