Building Recommendations In a Developer’s Guideline Editor
Welcome to Bridgewiz

BridgeWiz aims to assist guideline authors to write more comprehensive guidelines and clearer, more actionable recommendations. BridgeWiz incorporates a number of features that are designed to safeguard against creating vague and underspecified recommendations.

The end-products of BridgeWiz include:
• A completed template that provides information required to be compliant with a guideline quality checklist, the COGS appraisal
• One or more skeleton IF-THEN statements that are expected to facilitate implementation in a computer-based decision support system
• A partially populated Evidence Profile for each Key Action Statement.

Begin by selecting an activity described below:

Create COGS Statement
Create Key Action Statement
Define Object for the Verb

RULE EDITOR

What type of activity do you propose? PRESCRIBE

Based on the PRESCRIBE action type, select a verb:

Start what?

metformin as first-line treatment

VERB | WHAT
---|---
start | metformin as first-line treatment

AND OR DEL
Add Conditions

RULE EDITOR

Under What Conditions will the action be performed?

Under What Conditions

newly diagnosed with type 2 diabetes

AND  OR
Judge Benefit-Harms Balance

Is there Equilibrium or a preponderance of Benefits or Risks, Harms, and Costs?

- Equilibrium
- Preponderance of Risks, Harms, Costs
- Preponderance of Benefit

Benefits
- Lower Hgb A1C
- Target A1C sustained longer
- Less early deterioration of blood glucose
- Lower chance of weight gain
- Improved insulin sensitivity
- Improved lipid profile

Risk, Harms, Costs
- GI side-effects
- Potential for lactic acidosis/ B12 deficiency
- Cost of medication and administration
- Need for additional teaching about medication
- SMBG
- Possible metabolic deterioration if Type 1 is misdiagnosed & treated as Type 2
- Potential risk of lactic acidosis in setting of ketosis or significant dehydration
Choose a Recommendation Style

If newly-diagnosed with type 2 diabetes (i.e., not previously treated) 
Then 
Clinicians should start metformin as first-line treatment AND 
recommend diet and exercise

Clinicians should start metformin as first-line treatment AND 
recommend diet and exercise 
if/when/whenever 
newly-diagnosed with type 2 diabetes (i.e., not previously treated)

The \{developer\} recommends that if 
newly-diagnosed with type 2 diabetes (i.e., not previously treated) 
Then 
Clinicians should start metformin as first-line treatment AND 
recommend diet and exercise

The \{developer\} recommends that 
Clinicians should start metformin as first-line treatment AND 
recommend diet and exercise 
if/when/whenever 
newly-diagnosed with type 2 diabetes (i.e., not previously treated)
BRIDGE-Wiz
Building Recommendations in a Developer’s Guideline Editor

• Formalizes a process for writing implementable recommendations
• Incorporates prompts based on COGS to improve guideline quality
• Controlled natural language
  – Offers verb choices based on action-type
  – Traps and disallows use of “consider”
  – Discourages “statement of fact” masquerading as recommendation
  – Limits boolean connectors to all ANDs or ORs in a statement
• Incorporates decidability and executability checks
• Requires systematic appraisal of evidence quality and benefit-harms
  – Suggests appropriate obligation term (deontic modal)
• Output includes a high-level “rule” and an evidence profile
• Runs on Mac OS and Windows OS