Appendix B. Survey (Round 2)
Description

CASPR (Critical Appraisal of Studies on Prediction of Readmission) is a tool which is being developed to evaluate predictive models for hospital readmission risk.

The tool's criteria will fall into the following three broad categories:

1) **Intrinsic criteria**: refers to internal model quality
2) **Extrinsic criteria**: can the model improve clinical practice?
3) **Implementation**: can a specific healthcare organization implement this model?

In this survey, we will ask for your input on each of the 48 proposed criterion in the tool.

The deadline to complete this survey is April 24th, 2017. We greatly appreciate your input. Please contact Lisa at lvg2104@columbia.edu with any questions or concerns.

General Comments

The entire proposed tool is shown below. Please provide general comments here. You will have the opportunity to provide feedback on specific items later.
Intrinsic Criteria

Overall Quality

1. Does the model have a c-statistic above 0.7?
2. Does the model keep continuous variables continuous, rather than binning them?
3. Does the model account for non-linear relationships between variables?
4. Does the model avoid simple scoring?
   (an example of simple scoring is CHA2DS2-VASc)

Predictors

1. Does the model account for disease-related factors?
   (ICD codes, comorbidities, mental illness, illness severity, age of diagnoses, years with condition, etc.)
2. Does the model include social determinants of health, beyond socioeconomic status, as predictors?
   (Socioeconomic status is defined through education, income, and occupation. Social determinants of health beyond socioeconomic status include sociocultural traditions, caregiver presence, caregiver ability, social support/isolation, financial support, healthcare resources, transportation access, phone access, geography and distance from hospital, housing status, health literacy, language barriers, chronicity of social situation, insurance status, etc.)
3. Does the model account for institution-related factors?
(quality of care, quality of primary care, reimbursement model, pressure to discharge, quality of case management, out-of-hospital interventions, etc.)

4. Does the model account for healthcare use patterns?
(long term readmission, scope of service access, frequency of service access, sequence of service access, missed clinic visits, length of stay, access to PCP, access to palliative care)

5. Does the model account for overall health and function?
(frailty, functional status / ADLs, sedentary lifestyle, cognitive impairment, gait speed, mobility, self-rated health, exercise tolerance)

6. Does the model account for medication-related factors?
(medication compliance, pharmacy data, polypharmacy)

7. Does the model account for post-discharge mortality?

8. Does the model account for lack of relationship between the index admission and readmission?

9. Does the model distinguish between avoidable and unavoidable readmissions?

10. Does the predicted chance of readmission change throughout the admission as appropriate?
(based on effectiveness of clinical interventions, changes in the patient's condition, hospital-acquired illnesses, etc.)

11. Does the model account for discharge planning?
(discharge location, medication education, disease education, education about warning signs, follow-up appointments, family involvement)

**Timeframe**

1. Has the model been optimized to determine the best timeframe for predicting readmission risk accurately?
(7 days, 14 days, 30 days, or another timeframe)

**Data Availability**

1. Does the model rely on measures that use data available during the admission?
2. Does the model utilize all available sources of data? (not only claims data, but also health record data or patient data)
3. Does the model rely on data for which most institutions likely have access to, rather than data that only few institutions gather?
4. Does the model avoid using a separate and manual data entry procedure to calculate model parameters?
5. Does the model rely on data that most institutions have access to in sufficient amounts and good quality?

Extrinsic Criteria

Heterogeneity

1. Could domain experts tailor the model to patients with different types of diseases?
2. Could domain experts tailor the model to patients with different subtypes of a disease?
3. Could domain experts tailor the model to patients with different stages of disease?

Clinical Relevance

1. Does the model indicate specific domains where the provider can intervene to prevent readmissions?
2. Does the model stratify readmission risks relative to the population at hand? (Prevents classifying all patients as either high risk or low risk)

Implementation

Data Availability

1. Does the institution collect the data necessary to implement the model?
2. Is the data necessary to implement the model high-quality and available in an electronic format?
3. Can the model be updated frequently with available data, to accurately represent the patient's situation on the ground?
4. Does the institution utilize all possible sources of data in implementing the model?
5. Does the institution avoid using a separate and manual data entry procedure by clinicians to calculate model parameters?

**Validation**

1. Is the model validated in the institution’s clinical setting?
2. Is the model generalizable to the patient population in which the institution intends to use it?

**Resources**

1. Does the institution have the necessary expertise to implement the model?
2. Does the institution have the finances required to implement the model?

**Vision**

1. Does the institution’s administration support and prioritize model implementation?
2. Does the institution have a clear vision for how the model will be used once developed?
3. Does the institution have a clear vision for how the model results will be integrated into the clinical workflow?
   (see workflow integration)
Workflow Integration

1. Who will see the model results?
2. At what time will that person see the model results?
3. Through what channel will that person see the model results?
4. Are the model results easily accessible to the clinician through that channel?
5. Does the plan to display the model results to the clinician account for alert fatigue?

Clinical Relevance

1. Do clinicians perceive the model results as accurate and actionable in their population?
2. Do clinicians support and prioritize model implementation?
3. Do clinicians have the appropriate resources and time to act on the model results?

Continuous Improvement

1. Does the institution have a plan to monitor, evaluate, and improve model implementation?
2. Does the institution have the capacity to refresh or update the model itself as needed?

Criterion 1

Criterion 1: Does the model have a c-statistic above 0.7?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - overall quality

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 2

Criterion 2: Does the model keep continuous variables continuous, rather than binning them?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - overall quality

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 3

Criterion 3: Does the model account for non-linear relationships between variables?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - overall quality

Optional: please offer suggestions for rewriting this criterion or additional comments.
Criterion 4

Criterion 4: Does the model avoid simple scoring?
(an example of simple scoring is CHA2DS2-VASc)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - overall quality

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 5
Criterion 5: Does the model account for disease-related factors?

(ICD codes, comorbidities, mental illness, illness severity, age of diagnoses, years with condition, etc.)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 6

Criterion 6: Does the model include social determinants of health, beyond socioeconomic status, as predictors?

(Socioeconomic status is defined through education, income, and occupation. Social determinants of health beyond socioeconomic status include sociocultural traditions, caregiver presence, caregiver ability, social

support/isolation, financial support, healthcare resources, transportation access, phone access, geography and distance from hospital, housing status, health literacy, language barriers, chronicity of social situation, insurance status, etc.)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 7

Criterion 7: Does the model account for institution-related factors?
(quality of care, quality of primary care, reimbursement model, pressure to discharge, quality of case management, out-of-hospital interventions, etc.)

On a scale of 1-7, please indicate whether you feel this criterion should be kept
in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 8

Criterion 8: Does the model account for healthcare use patterns?
(long term readmission, scope of service access, frequency of service access, sequence of service access, missed clinic visits, length of stay, access to PCP, access to palliative care)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 9

Criterion 9: Does the model account for overall health and function?  
(frailty, functional status / ADLs, sedentary lifestyle, cognitive impairment, gait speed, mobility, self-rated health, exercise tolerance)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.  
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 10

Criterion 10: Does the model account for medication-related factors? (medication compliance, pharmacy data, polypharmacy)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors
Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 11

Criterion 11: Does the model account for post-discharge mortality?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 12

Criterion 12: Does the model account for lack of relationship between the index admission and readmission?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 13

Criterion 13: Does the model distinguish between avoidable and unavoidable readmissions?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors ▼

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 14

Criterion 14: Does the predicted chance of readmission change throughout the admission as appropriate? (based on effectiveness of clinical interventions, changes in the patient's condition, hospital-acquired illnesses, etc.)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 15

Criterion 15: Does the model account for discharge planning? (discharge location, medication education, disease education, education about warning signs, follow-up appointments, family involvement)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - predictors
Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 16

Criterion 16: Has the model been optimized to determine the best timeframe for predicting readmission risk accurately?
(7 days, 14 days, 30 days, or another timeframe)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - timeframe

Optional: please offer suggestions for rewriting this criterion or additional comments.
Criterion 17

Criterion 17: Does the model rely on measures that use data available during the admission?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool. 
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 18

Criterion 18: Does the model utilize all available sources of data? 
(not only claims data, but also health record data or patient data)
On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 19

Criterion 19: Does the model rely on data for which most institutions likely have access to, rather than data that only few institution gather?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Intrinsic criteria - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 20

Criterion 20: Does the model avoid using a separate and manual data entry procedure to calculate model parameters?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 21

Criterion 21: Does the model rely on data that most institutions have access to in sufficient amounts and good quality?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Optional: please offer suggestions for rewriting this criterion or additional comments.
Criterion 22

Criterion 22: Could domain experts tailor the model to patients with different types of diseases?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Extrinsic criteria - heterogeneity

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 23
Criterion 23: Could domain experts tailor the model to patients with different subtypes of a disease?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Extrinsic criteria - heterogeneity

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 24

Criterion 24: Could domain experts tailor the model to patients with different stages of disease?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Extrinsic criteria - heterogeneity

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 25

Criterion 25: Does the model indicate specific domains where the provider can intervene to prevent readmissions?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Extrinsic criteria - clinical relevance

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 26

Criterion 26: Does the model stratify readmission risks relative to the population at hand? (Prevents classifying all patients as either high risk or low risk)

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Extrinsic criteria - clinical relevance
Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 27

Criterion 27: Does the institution collect the data necessary to implement the model?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 28
Criterion 28: Is the data necessary to implement the model high-quality and available in an electronic format?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 29

Criterion 29: Can the model be updated frequently with available data, to accurately represent the patient’s situation on the ground?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 30

Criterion 30: Does the institution utilize all possible sources of data in implementing the model?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - data availability

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 31

Criterion 31: Does the institution avoid using a separate and manual data entry procedure by clinicians to calculate model parameters?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - data availability
Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 32

Criterion 32: Is the model validated in the institution’s clinical setting?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - validation

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 33
Criterion 33: Is the model generalizable to the patient population in which the institution intends to use it?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Impelementation - validation

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 34

Criterion 34: Does the institution have the necessary expertise to implement the model?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - resources ▼

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 35

Criterion 35: Does the institution have the finances required to implement the model?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - resources

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 36

Criterion 36: Does the institution’s administration support and prioritize model implementation?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - vision
Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 37

Criterion 37: Does the institution have a clear vision for how the model will be used once developed?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - vision

Optional: please offer suggestions for rewriting this criterion or additional comments.
Criterion 38

Criterion 38: Does the institution have a clear vision for how the model results will be integrated into the clinical workflow?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - vision

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 39

Criterion 39: Who will see the model results?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - workflow integration

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 40

Criterion 40: At what time will that person see the model results?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - workflow integration

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 41

Criterion 41: Through what channel will that person see the model results?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - workflow integration

Optional: please offer suggestions for rewriting this criterion or additional comments.
Criterion 42

Criterion 42: Are the model results easily accessible to the clinician through that channel?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - workflow integration

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 43
Criterion 43: Does the plan to display the model results to the clinician account for alert fatigue?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - workflow integration

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 44

Criterion 44: Do clinicians perceive the model results as accurate and actionable in their population?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

[Implementation - clinical relevance]

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 45

Criterion 45: Do clinicians support and prioritize model implementation?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)
Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - clinical relevance

Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 46

Criterion 46: Do clinicians have the appropriate resources and time to act on the model results?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - clinical relevance
Optional: please offer suggestions for rewriting this criterion or additional comments.

Criterion 47

Criterion 47: Does the institution have a plan to monitor, evaluate, and improve model implementation?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.
(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

Implementation - continuous improvement

Optional: please offer suggestions for rewriting this criterion or additional comments.
**Criterion 48**

Criterion 48: Does the institution have the capacity to refresh or update the model itself as needed?

On a scale of 1-7, please indicate whether you feel this criterion should be kept in the tool.

(7 = definitely keep, 4 = uncertain, 1 = definitely remove)

Optional: please change the category if you feel the criterion belongs in a different category.

*Implementation - continuous improvement*

Optional: please offer suggestions for rewriting this criterion or additional comments.

**Final comments**

Optional: finally, please tell us if the tool is missing any important criteria, and what those criteria are.
Optional: please provide any other general comments.

Thank you for your input.

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