QUADAS-2 (adapted version)

Phase 1: State the review question:

Patients (setting, intended use of index test, presentation, prior testing): • Critically ill patients with AKI needing RRT • Intended use of index test is to predict the necessity of RRT
Index test(s): • Every biomarker evaluated in the identified studies
Reference standard and target condition: • (Since there is no reference standard for determination of necessity of RRT, we excluded this question in our adapted version of the QUADAS-2) • The target condition is the initiation of RRT

Phase 2: Draw a flow diagram for the primary study

DOMAIN 1: PATIENT SELECTION

A. Risk of Bias

Describe methods of patient selection:	
• Was a consecutive or random sample of patients enrolled?	Yes/No/Unclear
• Was a case-control design avoided	Yes/No/Unclear
• Did the study avoid inappropriate exclusions?	Yes/No/Unclear
Could the selection of patients have introduced bias?	**RISK: LOW/HIGH/UNCLEAR**

B. Concerns regarding applicability

Describe included patients (prior testing, presentation, intended use of index test and setting)**:**	
Is there concern that the included patients do not match the review question?	**CONCERN: LOW/HIGH/UNCLEAR**

DOMAIN 2: INDEX TEST(S)

If more than one index test was used, please complete for each test.

A. Risk of Bias

Describe the index test and how it was conducted and interpreted:	
• Was the laboratory personal blinded to the patient's condition?	Yes/No/Unclear
• If a threshold was used, was it pre-specified?	Yes/No/Unclear
Could the conduct or interpretation of the index test have introduced bias?	**RISK: LOW/HIGH/UNCLEAR**

B. Concerns regarding applicability

Is there concern that the index test, its conduct, or interpretation differ from the review question?	**CONCERN: LOW/HIGH/UNCLEAR**

DOMAIN 3: RRT INITIATION

A. Risk of Bias

Describe the criteria used for RRT initiation:	
• Are the criteria likely to correctly classify the need for RRT initiation?	Yes/No/Unclear
• Was the decision to initiate RRT made without knowledge of the results of the index test(s)?	Yes/No/Unclear
Could the criteria used for RRT initiation or their interpretation have introduced bias?	**RISK: LOW/HIGH/UNCLEAR**

B. Concerns regarding applicability

Is there concern that the target condition as defined by the initiation of RRT does not match the review question?	**CONCERN: LOW/HIGH/UNCLEAR**

DOMAIN 4: FLOW AND TIMING

A. Risk of Bias

Describe any patients who did not receive the index test(s) or who were excluded from the 2x2 table (refer to flow diagram):	
• Was there an appropriate interval between critical illness and RRT?	Yes/No/Unclear
• Did all patients needing RRT receive it?	Yes/No/Unclear
• Were all patients included in the analysis?	Yes/No/Unclear
Could the patient flow have introduced bias?	**RISK: LOW/HIGH/UNCLEAR**