

BACKGROUND

- Transitioning from pediatric to adult care settings for adolescents and young adults living with chronic conditions can be challenging.^{1,2}
- Transition has also been associated with declines in health and access to care.^{1,2}
- Well-validated measures of patients' transition readiness are critical for use in both:
 1. The clinical setting
 2. To rigorously evaluate transition support programs for the purposes of research and health care quality improvement.

OBJECTIVE

This review aimed to build off existing reviews and:

- 1) identify and describe all newly developed and validated measures for the assessment of transition readiness for youth with chronic illness from the period of 2018-2022.
- 2) evaluate their measurement properties and identify gaps in measurement testing.

METHODS

- Two reviewers independently selected articles for review and assessed quality of measurement properties.



- The COnsensus-based Standards for the selection of health Measurement INstruments (COSMIN) updated criteria for good measurement properties was applied to rate the sufficiency of each measurement property.
- COSMIN taxonomy used to classify the various psychometric testing completed in each study (i.e. if a study reported completing "face validity" this was translated to "content validity" as per the COSMIN taxonomy).

RESULTS

Study Characteristics

Figure 2. Location of Studies



Figure 3. Settings

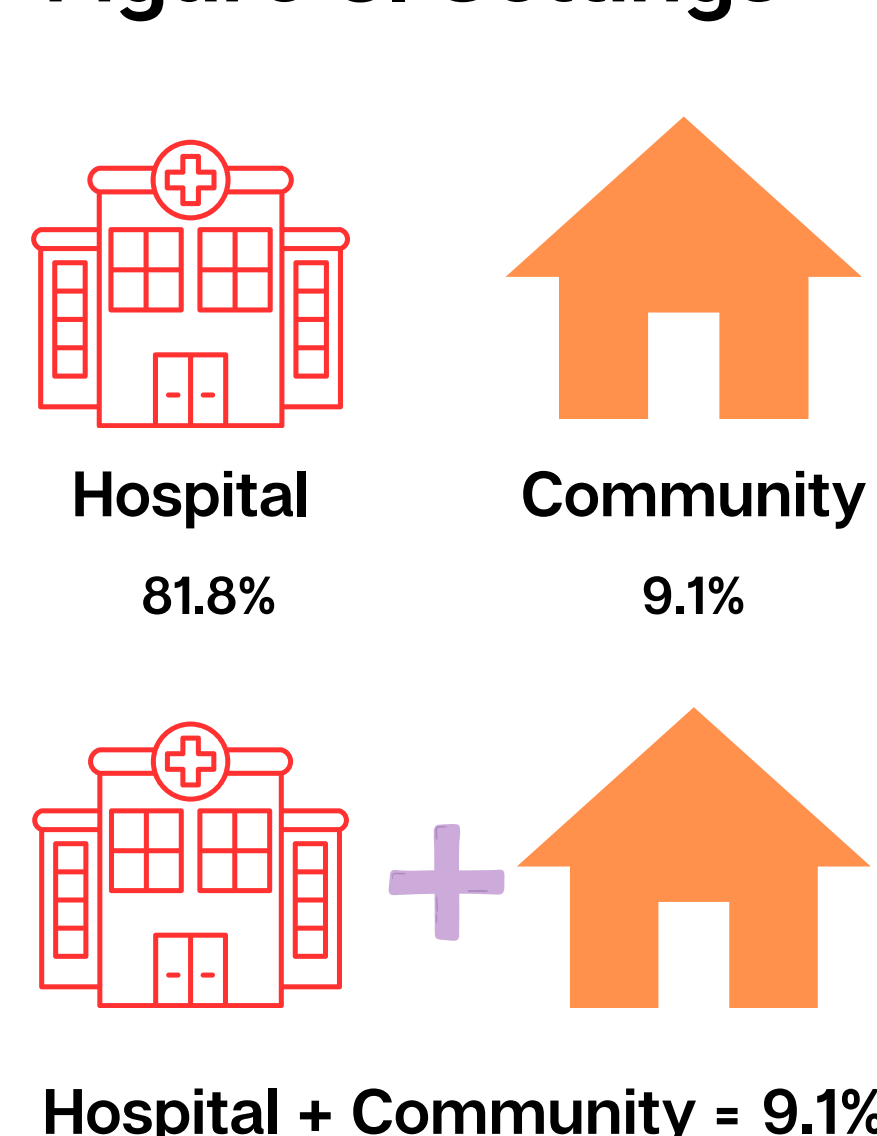
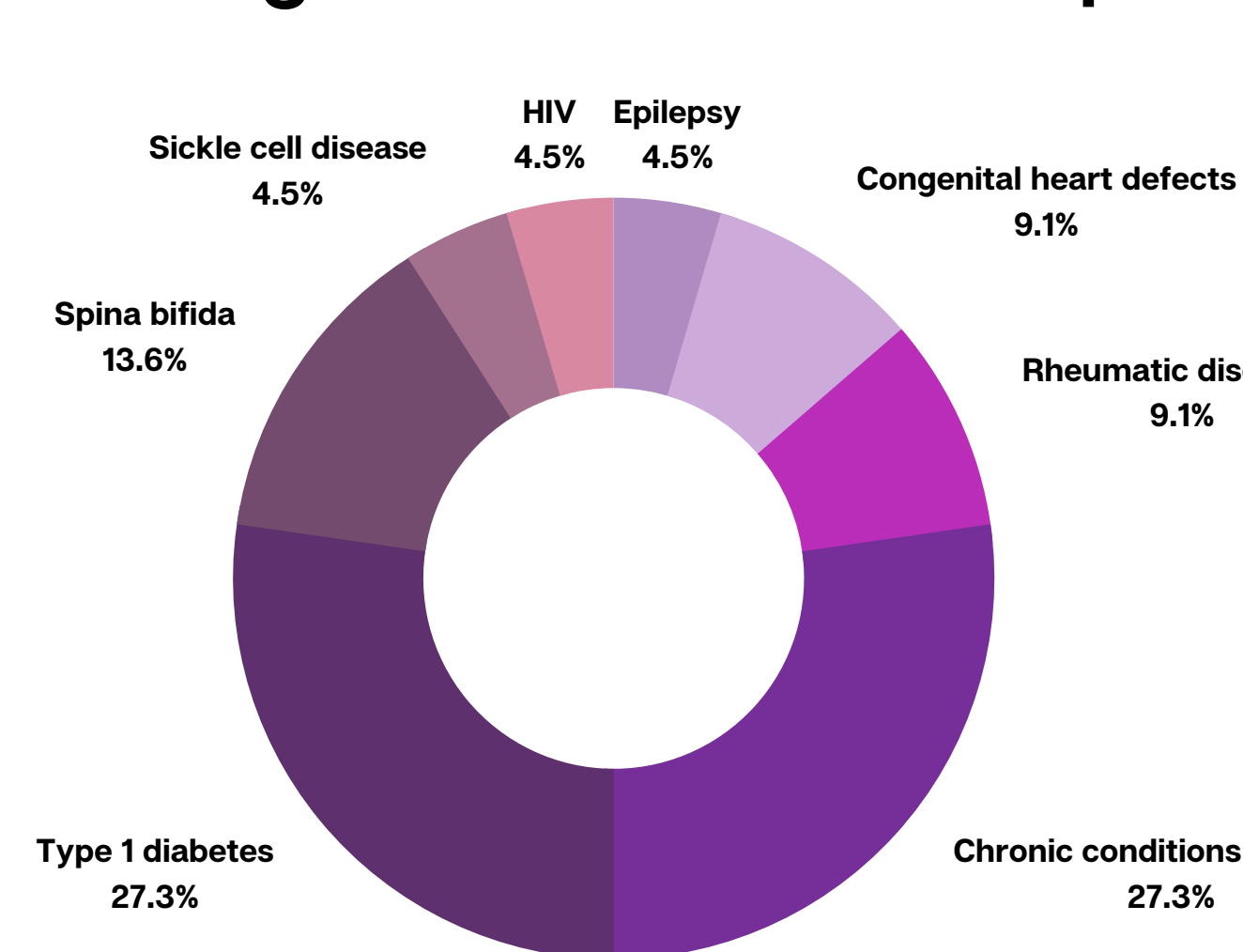
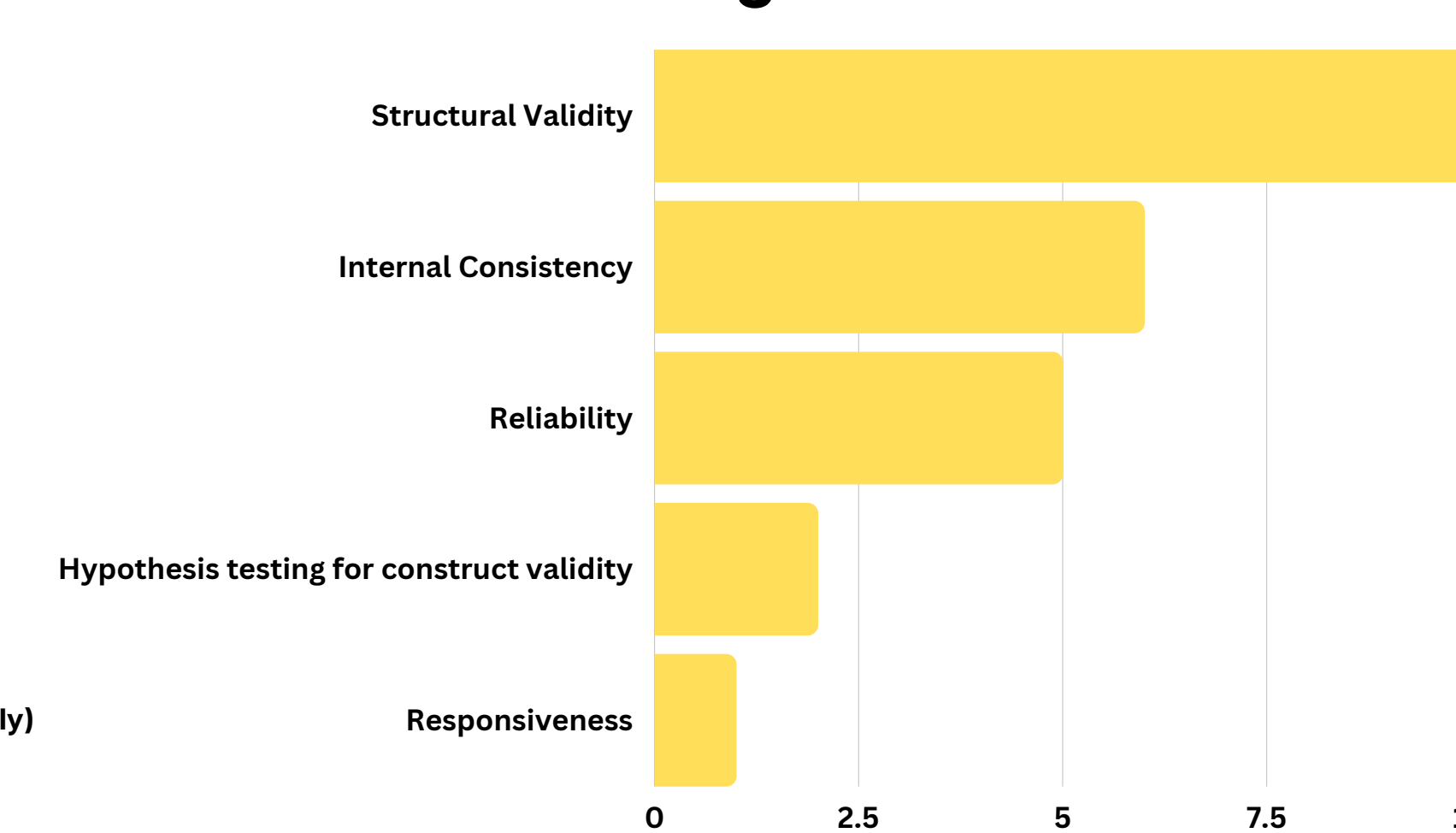


Figure 4. Disease Groups

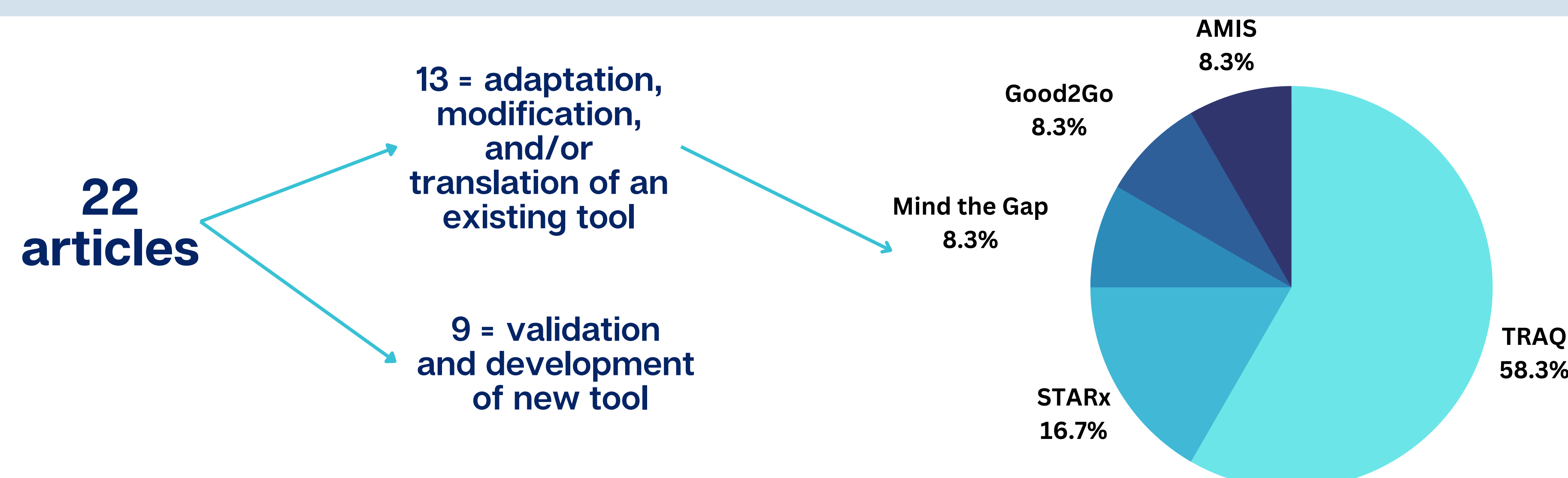


Summary of COSMIN Results

Figure 5. Number of studies rated as "sufficient" according to COSMIN criteria



Characteristics of Transition Readiness Measures



Key Highlights

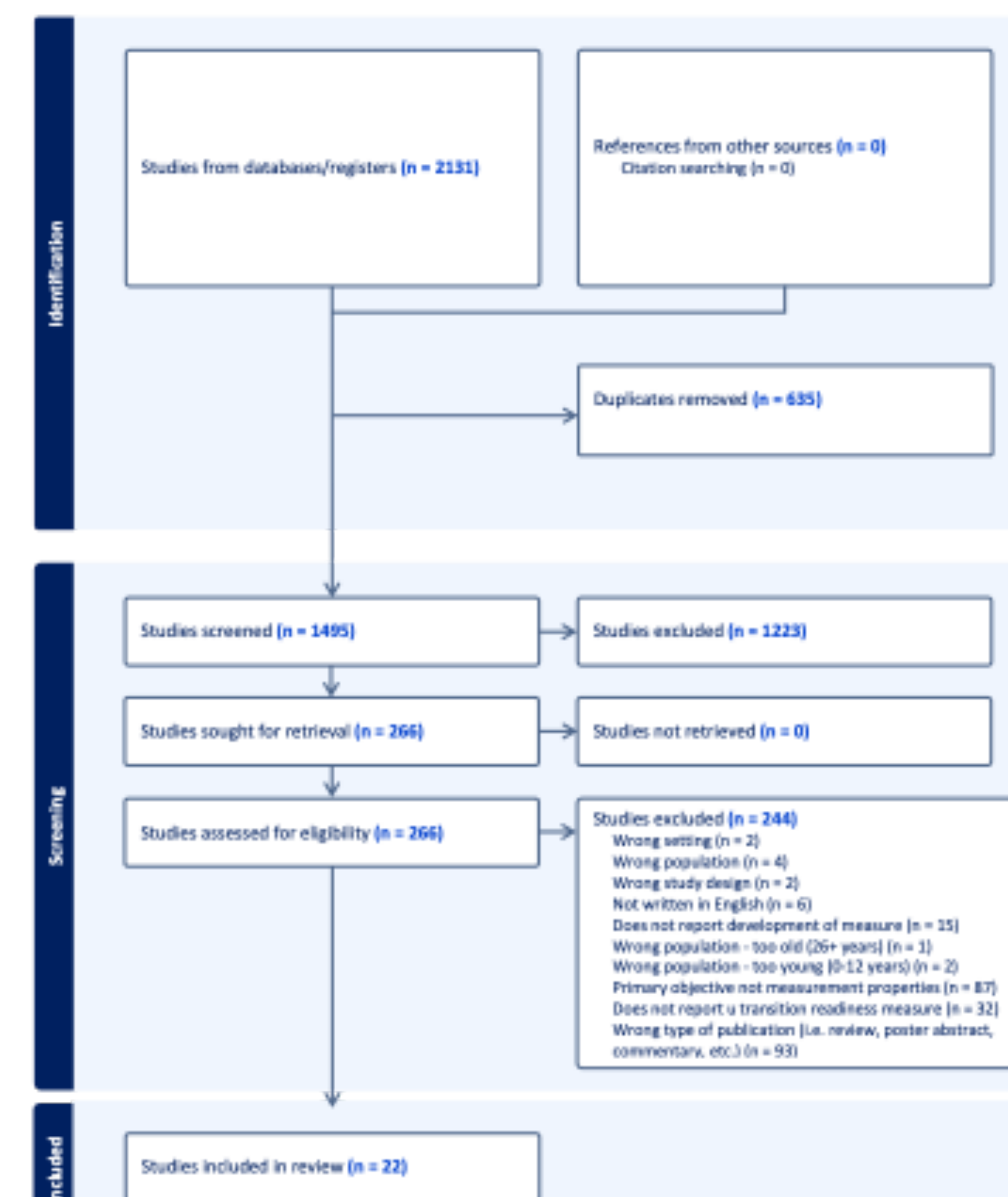
- Strongest tools: AMIS-II, the TRAQ-SB and the RACER (sufficiency in 3/6 criteria)
- Most studies focused on structural validity and internal consistency
- Only **2 out of 21 measures included adolescents in the development of the measure**

2 ✓ 19 ✗

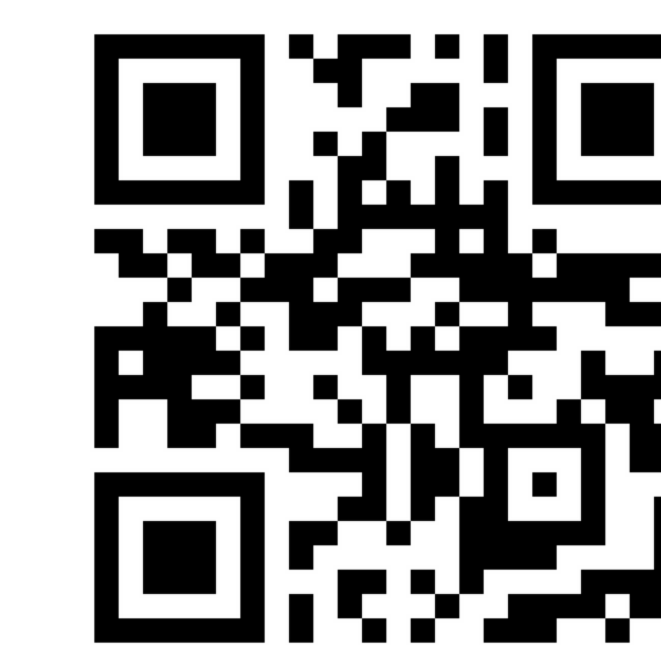
SEARCH PROCESS

- Electronic searches were conducted in 4 databases **MEDLINE, EMBASE, CINAHL** and **PsychINFO** from April 1st, 2018 to June 6th, 2022 producing **2131 studies** (see **Figure 1 PRISMA Flow Diagram**)
- After removing duplicates, **1495 articles were screened** in duplicate using Covidence to identify articles developing and validating transition readiness using the following criteria:
 - Published in a peer-reviewed journal.
 - Report on a measure developed for or assessed in individuals with a chronic illness aged 12–26 years, during or following the transfer from pediatric to adult care.
 - Report on the development and/or validation of the measure
 - Provide sufficient measurement data to facilitate application of the Consensus-based Standards for the selection of health Measurement INstruments (COSMIN) updated criteria for good measurement properties checklist.

Figure 1. PRISMA Flow Diagram



SUPPLEMENTARY MATERIALS



Tables



Supplementary Files

CONCLUSION

- 21 new transition readiness measures have been developed since 2018, yet **none meet COSMIN standards for sufficient measurement properties**
- The **TRAQ** was the existing measure most often used as a model for developing new or modified tools.
- There is a clear **need for further validation of existing measures** of patients' readiness to transition as opposed to continuing to develop new measures.

IMPLICATIONS FOR PRACTICE

- Assessment of transition readiness in order to identify patients at risk for poor transition is key.
- Validated measures are needed to prepare patients for adult-oriented care in the clinical setting, and to rigorously assess transition programs.
- **Future development of transition readiness measures should incorporate a strong emphasis on including youth and caregiver perspectives in the measure development process.**

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