



Development of a Core Outcome Set for Evaluating Type 1 Diabetes Screening:

A Rapid Review



Ella Cohen¹, Celine Chen¹, Abigail Hansen¹, Stephanie Luca¹, Jessie Cunningham², Robin Z. Hayeems^{1,3}

[1] Program in Child Health Evaluative Sciences, The Hospital for Sick Children, Toronto, Ontario

[2] Health Sciences Library, The Hospital for Sick Children, Toronto, Ontario

[3] Institute of Health Policy Management and Evaluation, University of Toronto, Toronto, Ontario



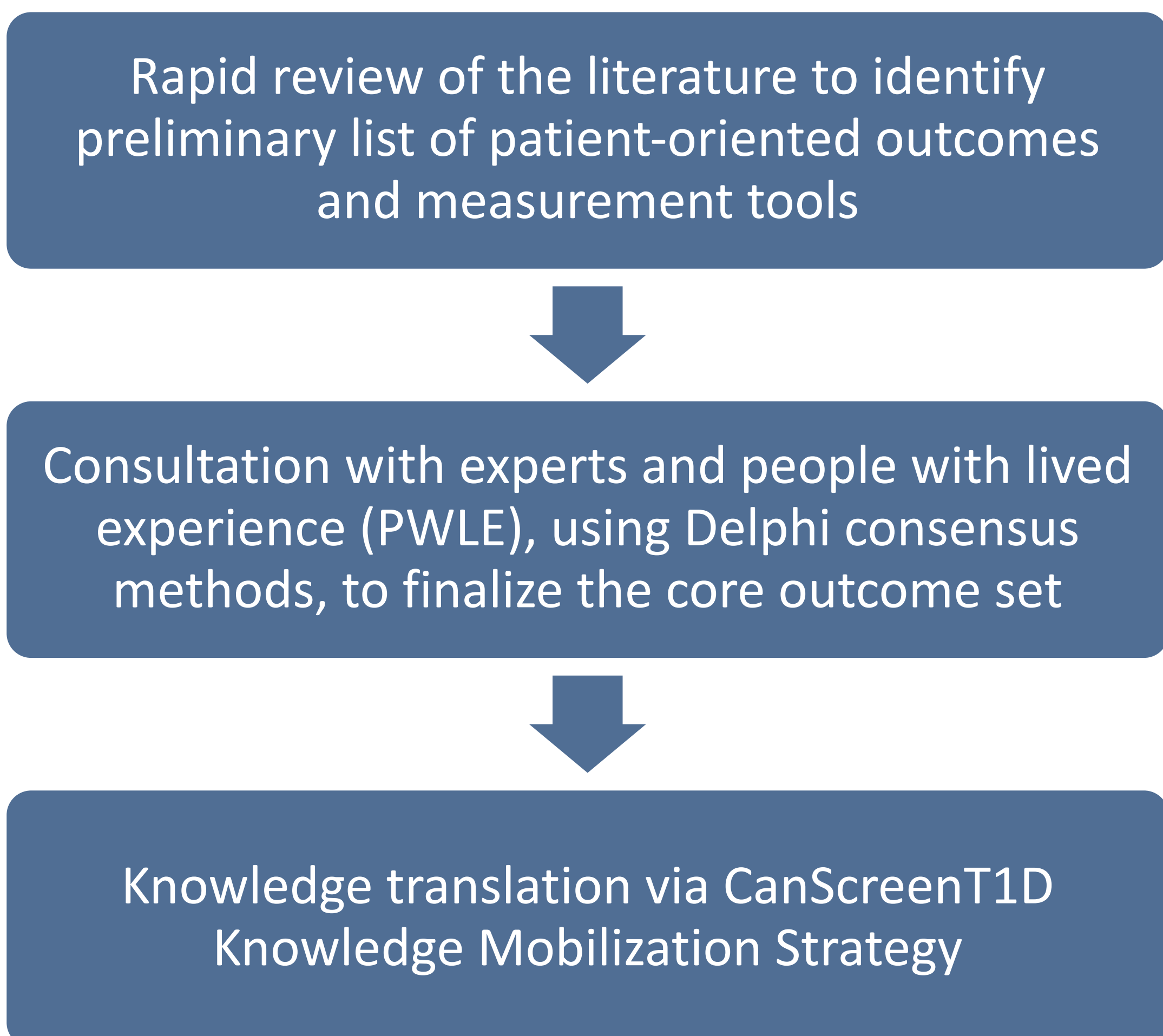
Introduction

- Type 1 Diabetes (T1D) is a metabolic disease associated with abnormal tolerance of glucose
- Screening for T1D may reduce symptom burden or delay symptom onset but can be associated with cognitive and emotional effects, such as confusion and anxiety, for parents of at-risk children
- Mitigating burdensome effects of screening is imperative for optimizing parents' understanding of and experience with screening protocols

Objective

- The Canadian Population Screening for Risk of T1D Research Consortium (CanScreen T1D) aims to evaluate the acceptability and feasibility of T1D screening for the general population
- Development of a core outcome set (COS) will aid in generating and adjudicating evidence on the acceptability of T1D screening for healthy children

Methods



PRISMA Diagram

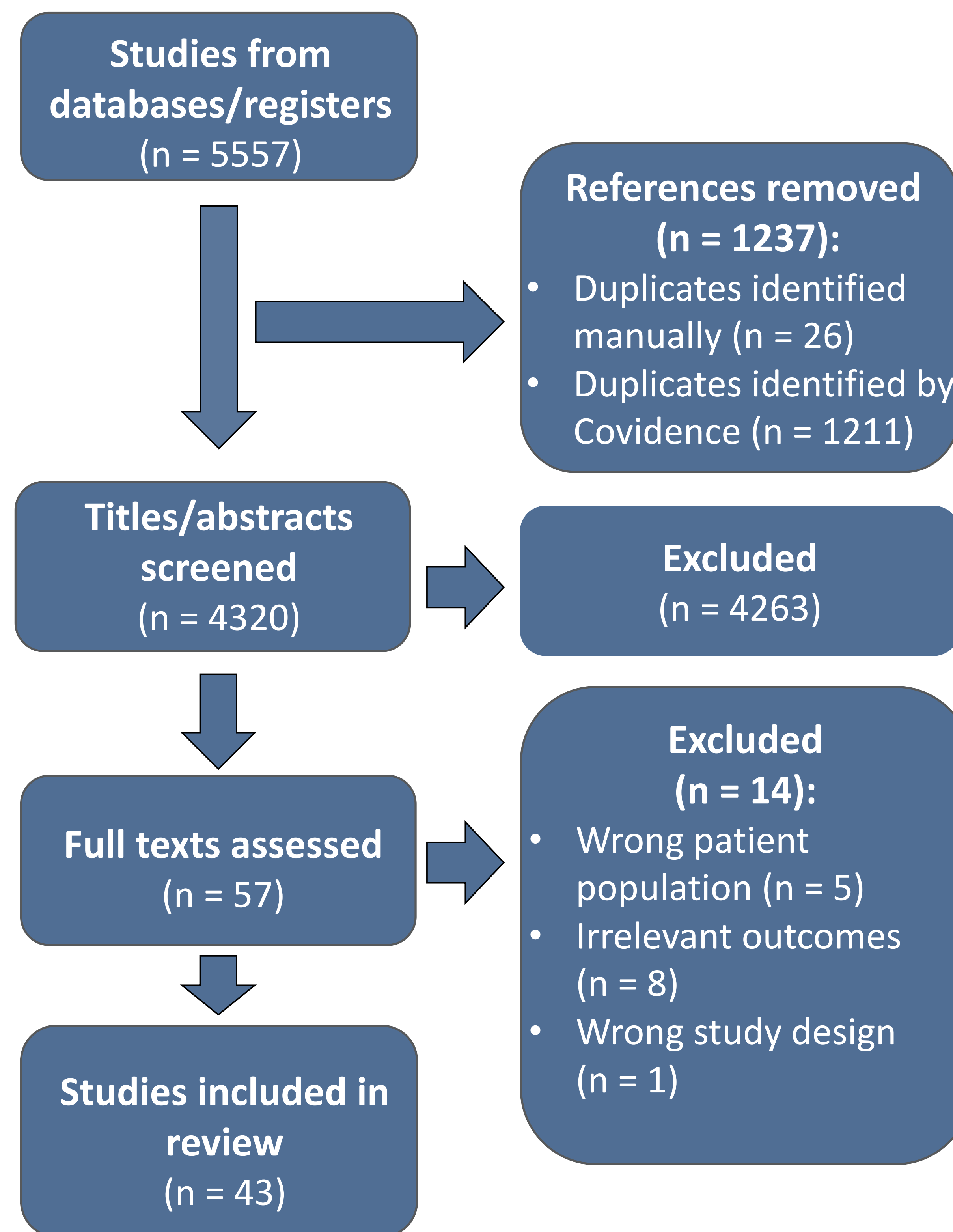


Figure 1. PRISMA Diagram

Preliminary Results (from 23/43 articles)

Populations of Interest		
Individuals Screened	Newborns (0-12 months)	n = 17
	Toddlers (1-3 years)	n = 13
	School age (4-9 years)	n = 8
	Adolescents (10-17 years)	n = 3
	Adults (18+ years)	n = 3
Participants Reporting Outcomes	School age (4-9 years)	n = 2
	Adolescents (10-17 years)	n = 3
	Adults (18+ years)	n = 3
	Parents of individuals screened	n = 22
	Providers	n = 1
	Other	n = 2

Table 1. Characteristics of studies reviewed. Not mutually exclusive.

Country in which study was conducted: (not mutually exclusive)

Type of Test/Assay: (not mutually exclusive)

Emerging Constructs

- Satisfaction with screening procedures
- Worry about child's T1D risk
- Panic-related anxiety from screening process
- T1D risk perception accuracy
- Acceptability of genomic screening

Conclusions

- Article extraction will focus on identifying family-centered outcomes and associated measurement tools
- Outcomes will be used in the development of a COS, which is representative of attitudes of those implicated in T1D screening
- The COS will be disseminated to end users and implemented into the CanScreen T1D Pilot Project