

Expanding Screening to Support Youth

Developing a School-Based Screener: Maximizing Usability and Positive Consequences

Kimmia Lyon, M.Ed., NCSP Amy Briesch, PhD, NCSP Jacqueline Caemmerer, PhD, NCSP Brittany Melo, PhD, NCSP



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Project ESSY Team





Sandra Chafouleas **BOT Professor** UConn



Jacqueline Caemmerer Assistant Professor UConn



Amy Briesch Professor Northeastern



Jessica Koslouski Assistant Research Professor UConn



Brittany Melo Postdoctoral Fellow Northeastern





Audrey Scudder Research Assistant Research Assistant UConn



Lucie Lopez **Research Assistant** UConn



Kevin Melecio

Research Assistant

UConn

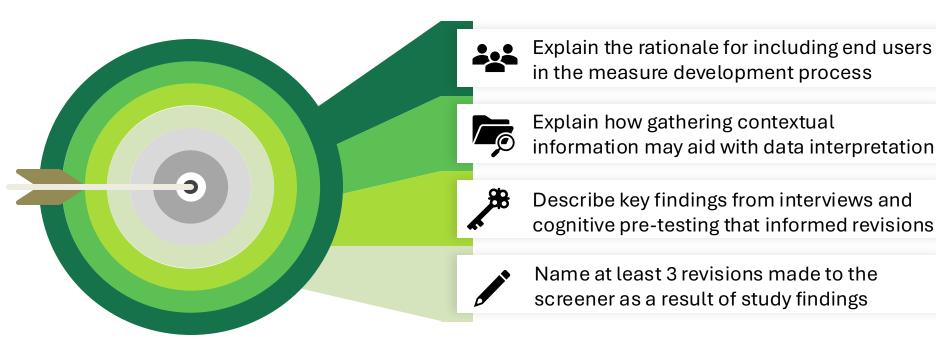
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David Gertz Research Assistant Northeastern

Today's Session

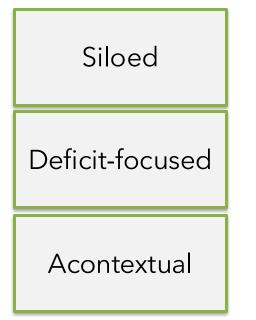




Shortcomings of Current School-Based Screeners



Many school screeners are...





Integrated Theory: Whole Child, School, & Community Approach

Chafouleas, S. M., & Iovino, E. A. (2021). Engaging a whole child, school, and community lens in positive education to advance equity in schools. *Frontiers in Psychology*. <u>https://doi.org/10.3389/fpsyg.2021.758788</u>.

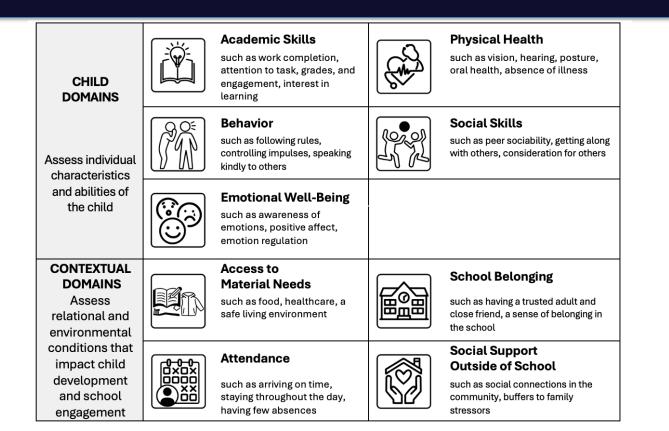
Project ESSY



4-year measurement project

Funded by IES, the goal of Project ESSY is to expand options in school screening. We are developing the Expanding Screening to Support Youth (ESSY)
Whole Child Screener, an efficient assessment for providing information across important child-focused domains as well as contextual factors that can affect a student's school success.

ESSY Whole Child Screener



Project

ESSY Gated Procedures



ESSY Screener: GATE 1 (Broad Screen)

ACADEMIC SKILLS

BEHAVIOR

EMOTIONAL WELL-BEING

SOCIAL SKILLS

PHYSICAL HEALTH

ACCESS TO MATERIAL NEEDS

ATTENDANCE

SCHOOL INCLUSION AND BELONGING

SOCIAL SUPPORT OUTSIDE OF SCHOOL

ACCESS TO MATERIAL NEEDS can include examples such as food, healthcare, and a safe living environment.

ACCESS TO MATERIAL NEEDS can be described as:

An area in need of intensive support
An area in need of moderate support
Neither an area in need of support or an area of strength
An area of some strength
An area of substantial strength

After selecting an option... Check here if **NOT** confident in rating

Shortcomings of Traditional Measure Development Approach





Voices of those who will use the measure, or those affected by measure use, are not included



Measures might be irrelevant or not feasible for implementation



By the time end users can give feedback, it's too late – Measure has already been through validation process



No explicit attention to the potential consequences of measure use

Validity

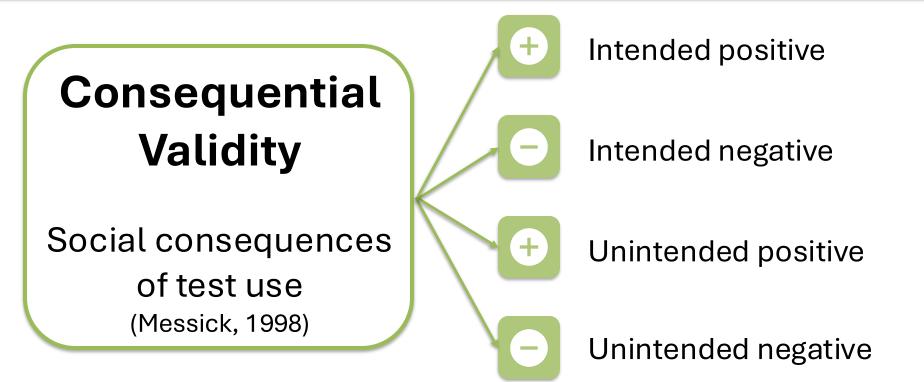


"If test developers and users want measures to have personal and social consequences and impact, then it is critical to consider the **consequences and side effects** of measurement **in the validation process itself**."

(Hubley & Zumbo, 2011, p. 219)

An Overlooked Source of Validity Evidence





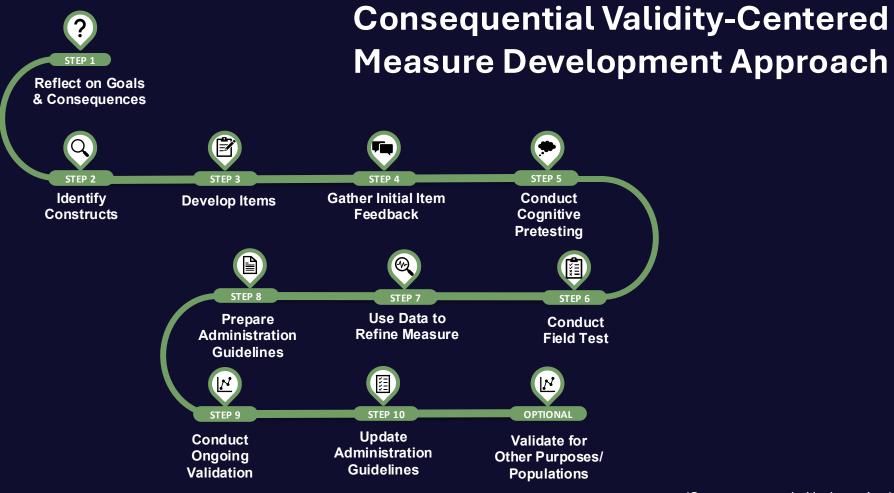


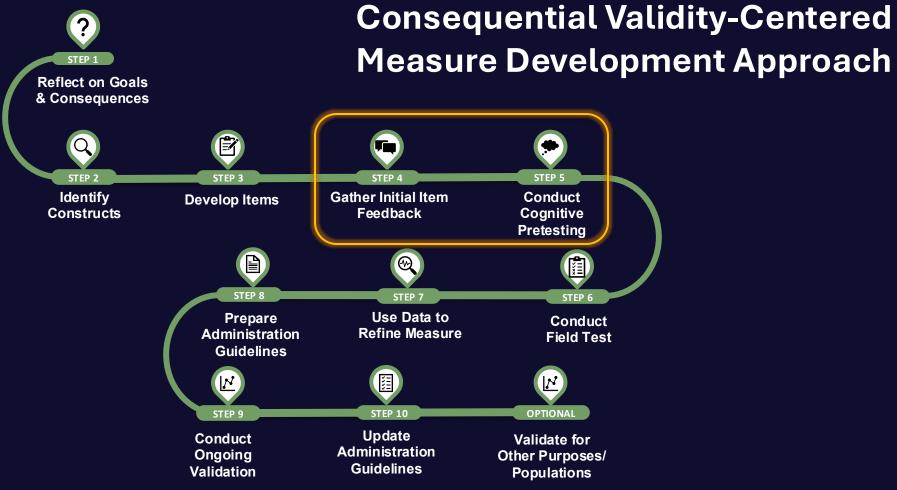
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Methods







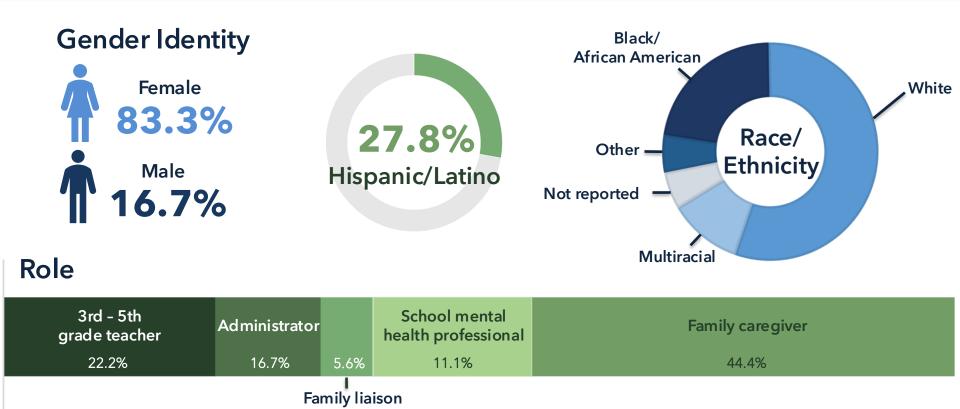


Step 4: Semi-structured interviews with educators, administrators, and family caregivers





Interview Participant Demographics



Project

Interview Procedures



ESSY Screener: Gate 2 (Specific Level – Social Skills)

1. Student has friends/social connections (e.g., plays with friends, able to talk about things with others).

2. Student demonstrates social skills (e.g., sharing, cooperating, helping others, demonstrating empathy).

3. Student is accepted by peers (e.g., included by other children, well-liked by others, not picked on/bullied by others).

4. Student interacts appropriately with adults (e.g., included by adults, valued by adults).

5. Student is able to communicate with peers (e.g., has appropriate language skills, understood by peers).

💬 What are your reactions to these items?

💬 Are these relevant to a school setting?

- Are any items overly ethnocentric or could any induce bias or stereotyping?
- 💬 Can school personnel accurately report on these?
- Would these items capture students in need of support?
- How long to complete for 1 student?

💬 Are there any missing topics or items?

Interview Procedures



Additional questions

- Reactions to whole child screening, assessing for contextual assets and barriers in schools
- Recommendations for data reporting, interpretation, and use
- Positive or negative consequences that could result from the measure

Interviews were conducted via WebEx, lasted 52-101minutes (M = 70 min), were audio recorded, and transcribed verbatim.

Thematic Analysis of Feedback

Research questions:

- 1. How do school personnel and family caregivers perceive the usability of the drafted screener?
- 2. How can the screener be improved?
- 3. How can implementation of the screener be strengthened?

Two coders independently completed reflexive thematic analysis (Braun & Clarke, 2006, 2021)

Met weekly to discuss data and combine codes Created project maps to explore relations between themes Used Usage Rating Profile-Assessment framework of usability

Project

Step 4: Semi-structured interviews with 3rd – 5th grade students





Interview Procedures



PART I

Students were first asked to identify the parts of their day that are most important to them

- Interviewer matched the participant's responses to the corresponding screener domain
- Asked follow-up questions

PART II

For domains not addressed by participants, a visual was shown...



Participants were asked:

(a) If they perceived the domain as impacting their school success

- (b) Their preferences for sharing the information with teachers
- (c) Their preferences for receiving support

Thematic Analysis

Research questions:

- 1. What are the various areas that students perceive as affecting their success in school?
- 2. Do students endorse sharing the information captured in the screener with their teachers?
- 3. Would students want their teachers to provide support if they were having difficulty in one or more of the areas assessed by the screener?

Two coders independently completed reflexive thematic analysis (Braun & Clarke, 2006, 2021)

Met weekly to discuss data and combine codes Created project maps to explore relations between themes Project

Measure Iteration



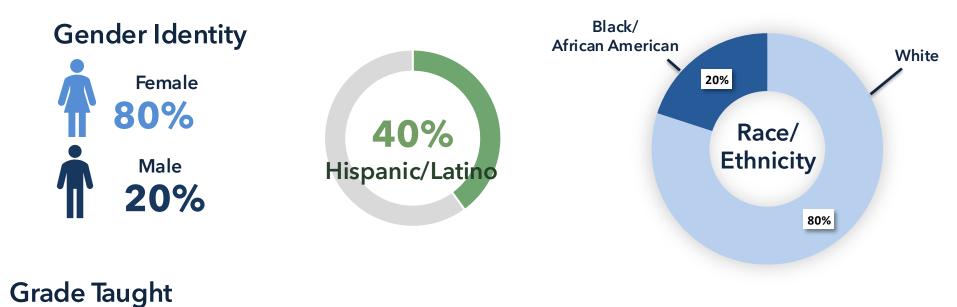
Used interview feedback to refine measure for pre-cognitive testing

Step 5: Cognitive pre-testing with 3rd – 5th grade teachers





Interview Participant Demographics



Project

3 rd Grade	4 th Grade	Multiple Grades
(40%)	(40%)	(20%)

Interview Procedures

Participants were asked to...

- Use the think-aloud procedure
- Complete Gate 1 and half of Gate 2 for one student
- Complete Gate 1 and other half of Gate 2 for another student

Interviews were conducted via Zoom, lasted 37-88 minutes (M = 57 min), were audio recorded, and transcribed verbatim.

Research question:

How did educators interpret and respond to the items on the ESSY Whole Child Screener?







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Findings





Step 4: Educator & Caregiver Interview Themes



Paving the Road for Usability

Potential Roadblocks to Usability





Recommended Paths Forward



Paving the Road for Usability

- Alignment with existing initiatives
- Comprehensive yet efficient design
- Perceived benefits of assessing the whole child

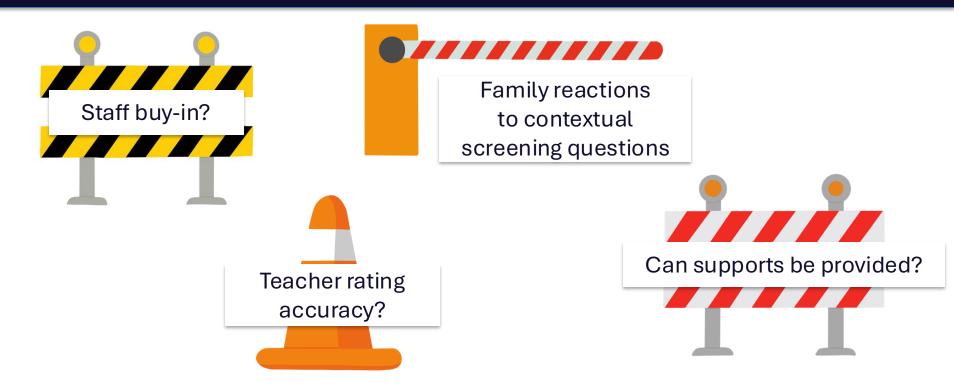


"We're not only supporting the academic side, but we're also addressing barriers that families face, whether it's food, homelessness, any number of barriers. [...] We address all those questions on a daily basis with families." -District Administrator

Project

Potential Roadblocks





Recommended Paths Forward



Optimizing Instrumentation and Data Collection Procedures

Clear and specific messaging with staff & families



Strengthening Connections to Data Interpretation and Use

Step 4: Student Interview Themes



	Impacts School Success	Would Share with Teachers	Would Want Support	
Academics				
Access to Material Needs				
Behavior				
Emotional Well-Being				
Physical Health				
Social Support Outside of School			\bigcirc	Do
Social Skills] <mark> </mark>
School Inclusion & Belonging				d d

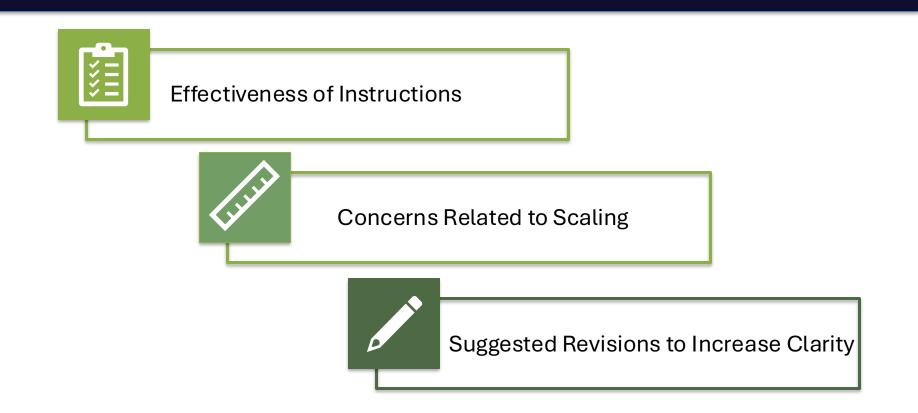
Domains where others may be impacted by disclosing and receiving support







Step 5: Cognitive Pre-Testing



Project

Sample Revisions

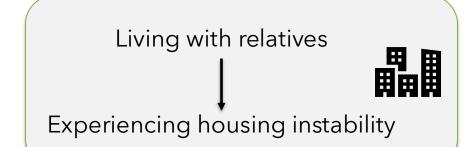


Revising or removing specific words: aggressive, malicious intent, overactive behaviors, risky rule breaking behavior, excessive talking

Adding items regarding IEP, ELL disability/chronic health condition status



"Access to basic needs"





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Discussion





Iterations

Project

Polishing process that has occurred across phases

Student demonstrates somatic complains ↓ Students complains of pain and/or health ↓ Student complains of headaches, stomachaches,

or bodyaches

If you have feedback on any of the questions on this page, please specify which item and explain why (e.g., had trouble answering this question, wording was unclear)



Challenges



- Informants do not always agree!
 - Ex. Educators/caregivers expressed concern about some contextual items relating to resources whereas students more hesitant about relational questions









Studies conducted with small samples of convenience

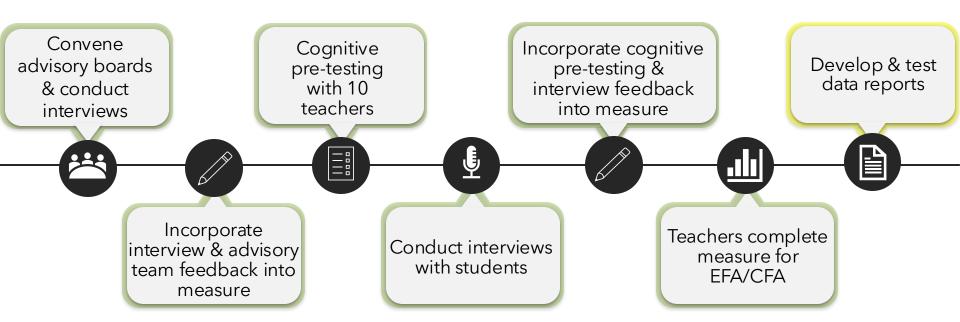
Only able to assess perceived (not actual) usability



Students only presented with subset of domains

Future Directions





Other ESSY Presentations

- Initial Psychometric Findings:
 - PA134: Whole Child Screener Reliability and Validity Evidence (Th 8-8:50am)

Project

- Data Report:
 - PO184: Optimizing ESSY Whole Child Screener Data Reporting Through Expert Feedback (Wed 3-4:30pm)
 - PO679: Understanding Educators' Perceptions of a Novel Universal Screener Data Report (Wed 3-4:30pm)

Open Access Article



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Developing a Whole Child School Screening Instrument: Evaluating Perceived Usability as an Initial Step in Planning for Consequential Validity

Original Paper | Open access | Published: 24 May 2024

Volume 16, pages 370–386, (2024) <u>Cite this article</u>

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Jessica B. Koslouski, Sandra M. Chafouleas, Amy Briesch 🖂, Jacqueline M. Caemmerer & Brittany

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SCHOOL MENTAL

HEALTH

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https://doi.org/10.1007/s12310-024-09670-w

Melo

Questions and Comments





We are looking for elementary schools interested in piloting a new screening instrument in the 2025-26 school year.



For a school to participate, we are asking that:

- At least 2 teachers per grade (3rd, 4th, 5th) participate by completing the ESSY Whole Child Screener for each of their students, once in Fall 2025 and again in Spring 2026
- Participating teachers provide basic information about themselves (e.g., years teaching, grade level taught), and share their thoughts on usability of the screener
- School staff provide de-identified demographic information and educational data for those students involved in the screening

If you choose to participate, Project ESSY will provide:

- Schools with all family informational letters, training in administration, and student-level data reports (including interpretation guidance)
- Each participating building with \$800 to defray the costs related to administrative data assistance
- Each participating teacher \$25 each time (fall, spring) that they complete the ESSY Screener for their class



Contact our Project Manager Brittany Melo at <u>b.melo@northeastern.edu</u> to learn more.



Thank you!

https://expanding-school-screening.education.uconn.edu/