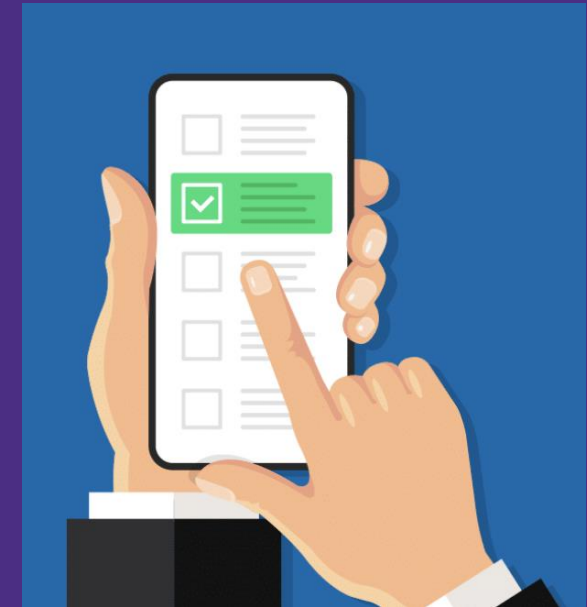


SMART-Wrap" Mobile Outcome Monitoring System Update and Information for Pilot Sites

**Short Message Assisted Responsive Treatment for
Wraparound**



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3C Institute

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Agenda

- Introduction
- What is SMART-Wrap?
- How was SMART-Wrap Informed by Wraparound experts?
- Results from pilot testing with caregivers and youth
- How to get involved in piloting SMART-Wrap
- Questions

Introductions

- Wraparound Evaluation and Research Team, University of Washington
- 3C Institute

SMART WRAP



Short Message Assisted Responsive Treatment
for Wraparound

What is SMART-Wrap?

- Text-based ‘Mobile Routine Outcomes Monitoring’ (mROM) system
- Aims to assess Wraparound quality, fidelity, satisfaction, and outcomes in an efficient, low burden way
- Sends caregivers and older youth participating in Wraparound single-item text-based outcome measures
- Project funded by National Institute of Mental Health 1R43MH126793-01A1 (Bruns, DeRosier, PIs)

Why SMART Wrap?



SMS addresses inconsistent or incomplete data collection

—Clients and providers find text-based data collection feasible and acceptable



SMS been found to be clinically useful

- enhancing MH service delivery by care providers



Integrating SMS messages has been shown to ***increase treatment adherence and engagement, and outcomes***

What does SMART-Wrap measure?

Caregiver Alliance:

E.g., "My care coordinator and I agree on the goals we are working toward"

Youth/Caregiver Engagement/ Satisfaction:

E.g., "I am satisfied with the help I am receiving"

Youth/Caregiver Outcomes:

E.g., "Wraparound has helped reduce my stress"

Caregiver Optimism/Stress:

E.g., "I feel confident I will be able to care for my child at home in the future"



SMART Wrap items were developed with feedback from a *Delphi* review process

Participating experts:

- Rated draft items for each intermediate outcome
- Proposed wording changes
- Defined benchmarks to trigger alerts and outreach messages

- > The process was repeated once to provide convergence.
- > We also gathered feedback on system functionality.

SMART Wrap items were developed with feedback from a *Delphi* review process

DOMAIN 1: ALLIANCE WITH CARE COORDINATOR/WRAPAROUND PROVIDERS

(Example rating scale: “How much do you agree with the following? – 0 = not at all, 1 = somewhat, 2 = very much”)

1. PROPOSED ITEM: My care coordinator and I agree on what we are working on together

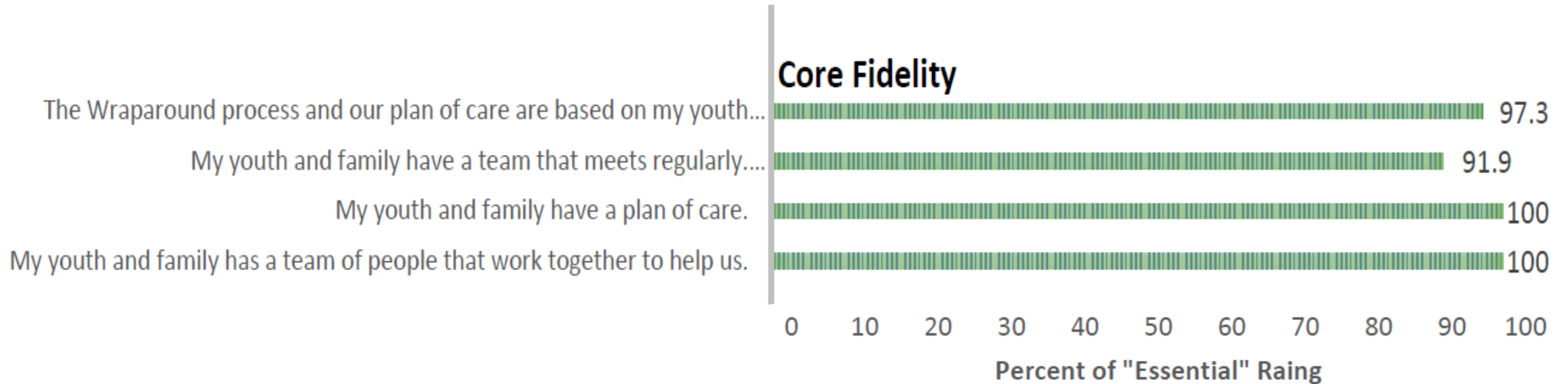
Overall rating:

- 35 (94.5%) Essential
- 2 (5.5%) Optional

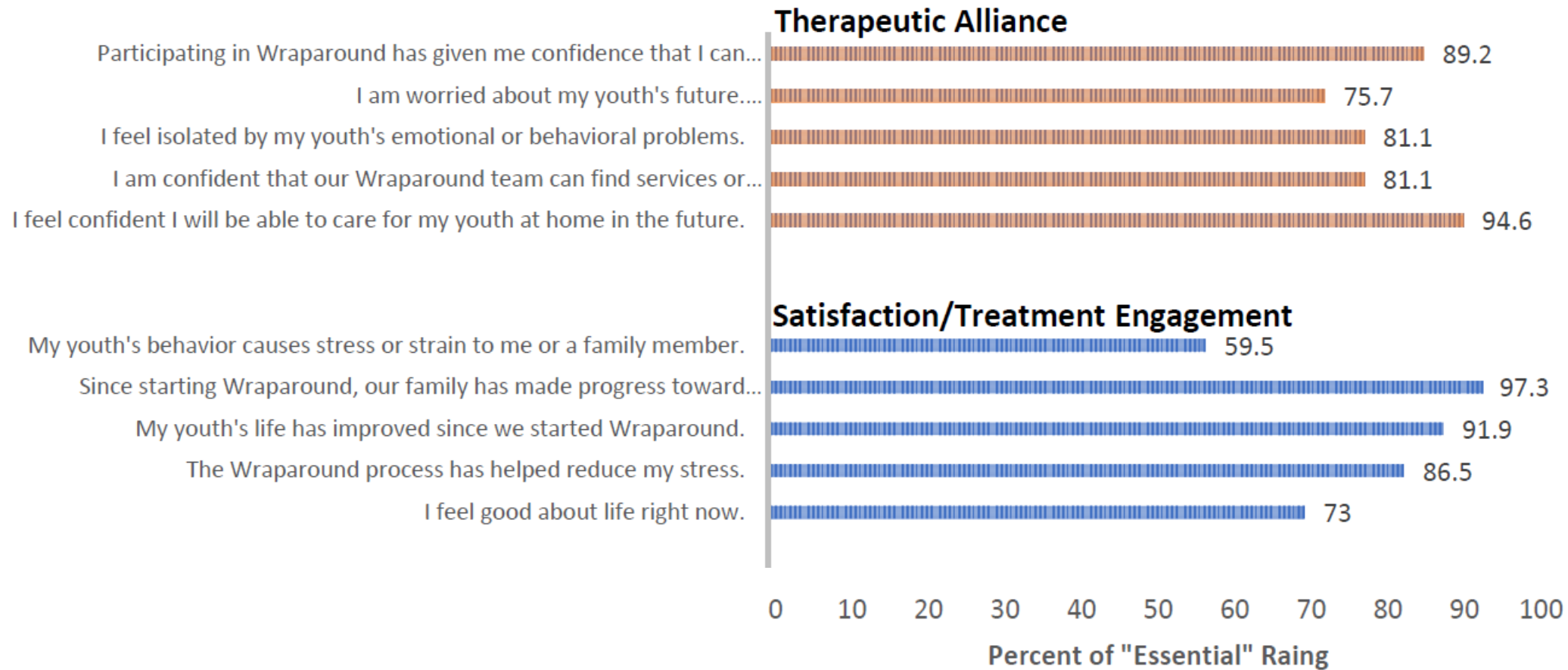
Please indicate if the wording of this item is:

- 21 (57%) Acceptable
- 15 (40.5) Acceptable with minor revisions
- 1 (2.5%) Unacceptable

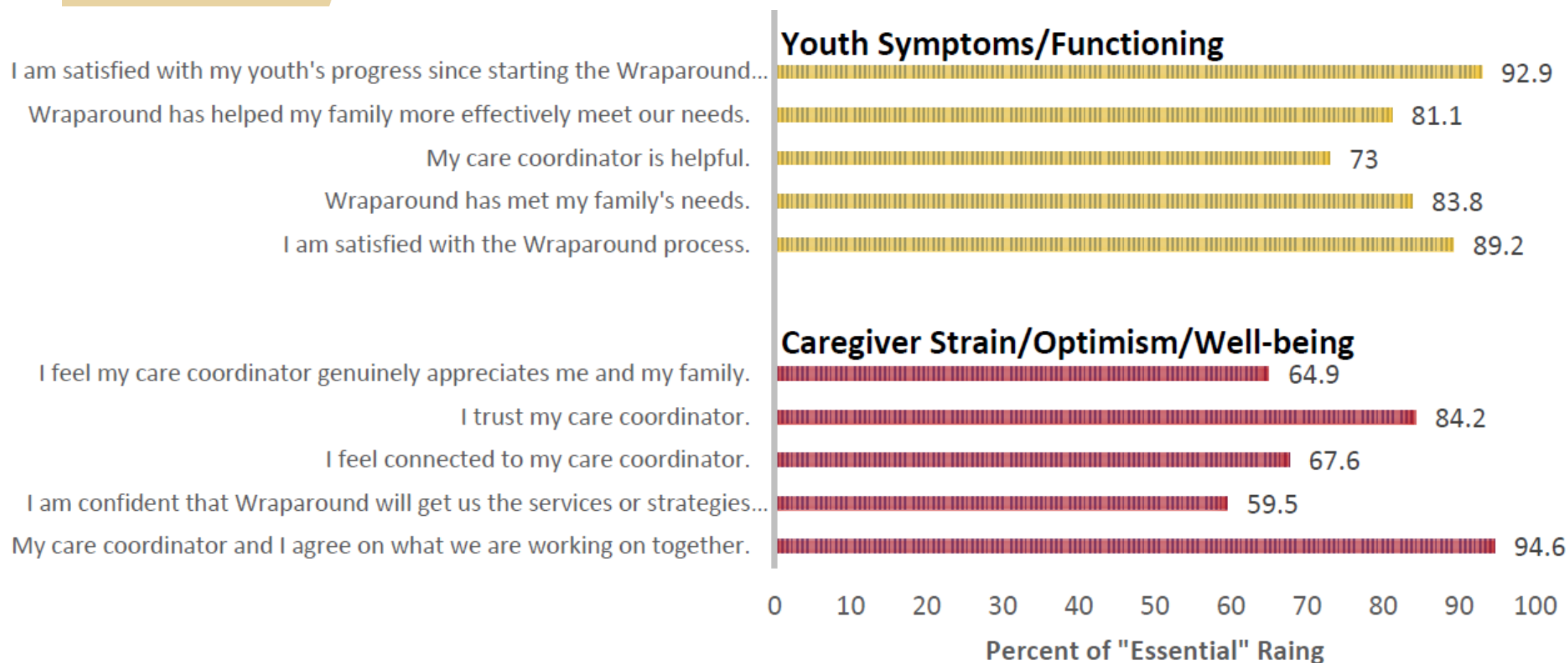
Experts rated proposed fidelity items "essential"...



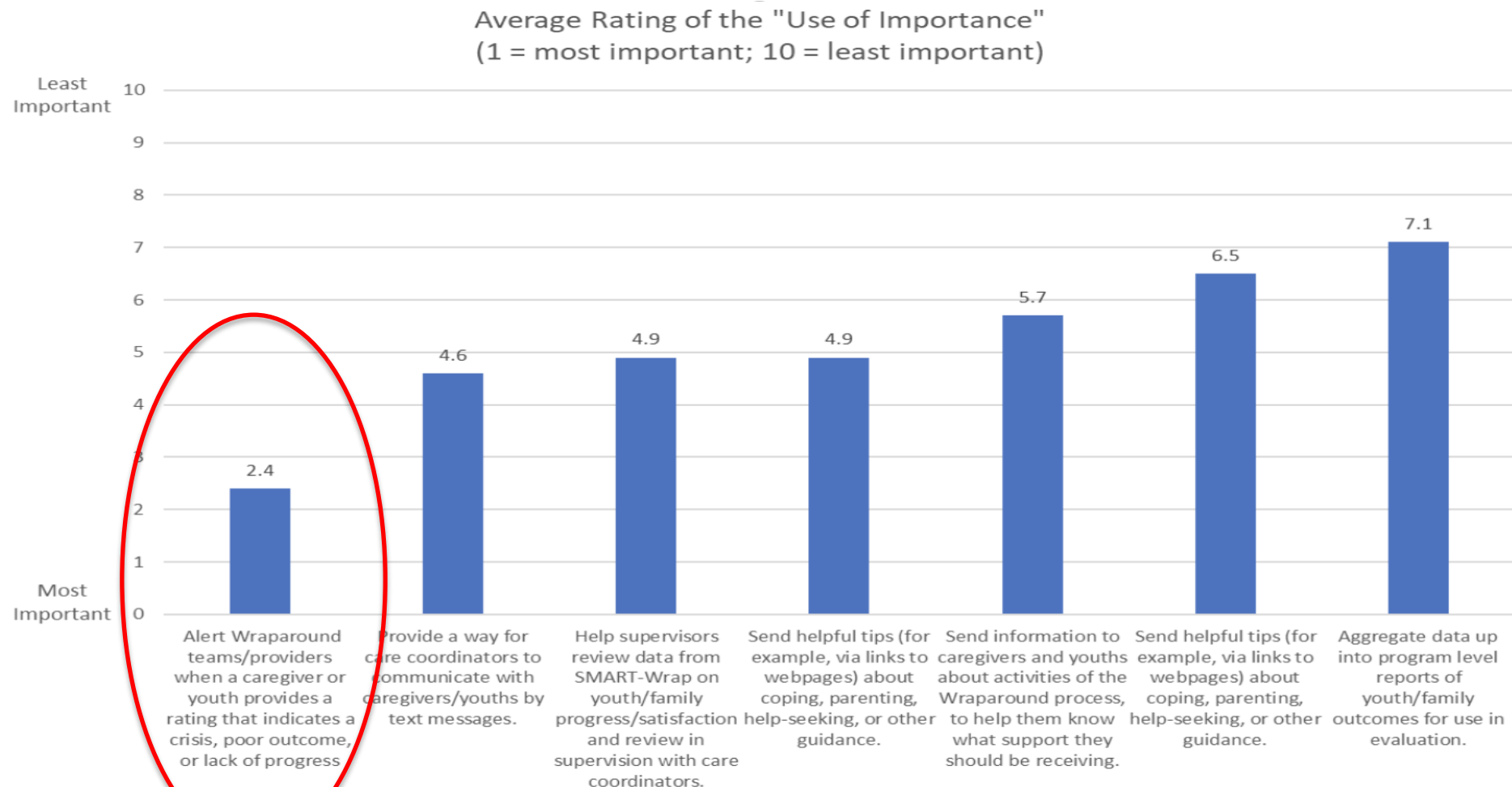
Experts were less unanimous about alliance and engagement items



Outcomes include well-being and caregiver strain/optimism



Wraparound Experts Also Gave Input on the Most Important Functions for the System



Delphi results helped in refining the items and SMART Wrap focus



- > Simplified the language of the assessment items to be developmentally appropriate for youth ages 14 – 17
- > Developed and refined automatic replies and outreach messages that the system will send participants following each SMS survey completion
- > Confirmed importance of the system from parent and youth advocates

Example feedback from parents and advocates

- > “I think this will be very helpful to care coordinators and family partners in the field. Real time feedback will improve wraparound and hopefully overall progress of youth/families.”
- > “I just want to say, thank you so much for considering my feedback as "parent with lived experience" – I appreciate this team’s willingness on trying your best to get it right for us... it means a lot and will go a long way.”

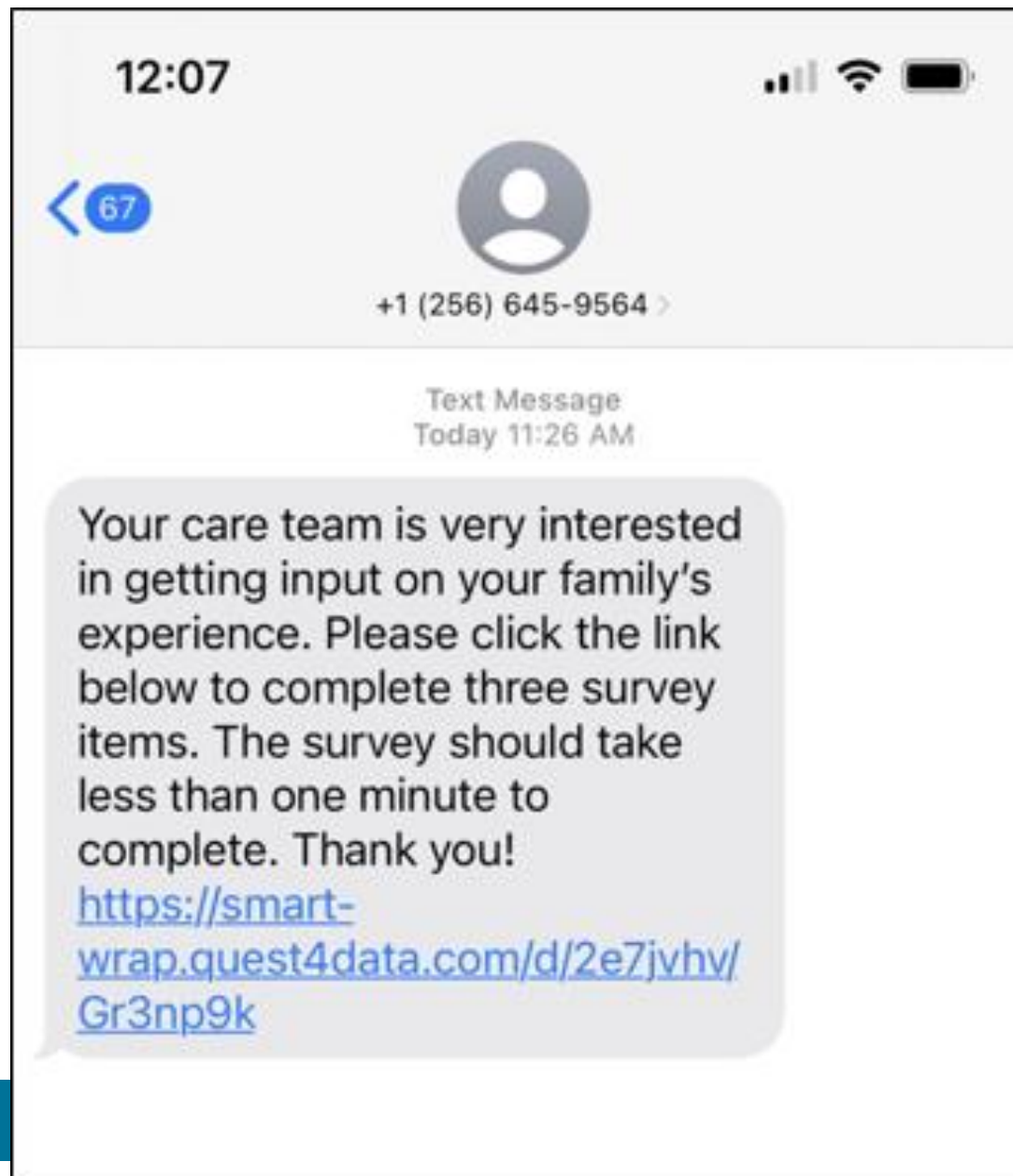


After “expert” input, we did Initial Usability Testing to improve SMART-Wrap



- > Round 1 included **16 participants**
 - > 10 caregivers, 3 young adults, and 3 youth
- > Caregivers and youths completed consent form and attended orientation
- > Caregivers and youth/young adults interacted with the system over a 2-week period
- > Participants completed survey evaluating usability, feasibility, and acceptability
- > We examined response times and responses

EXAMPLE SMS NOTIFICATION



EXAMPLE SURVEY VIEWED FROM PHONE

12:15

SMART Wrap

Wraparound Survey Items

How much do you agree with the following?

I am satisfied with how the Wraparound process is working for my family and me so far

☐ Not at all

☐ Sometimes

☐ Always

Next

AA smart-wrap.quest4data.com

TRYING OUT AUTOMATE D RESPONSES

Choosing the following:

Wraparound Survey Items

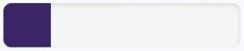
How much do you agree with the following?

I am satisfied with how the Wraparound process is working for my family and me so far

☐ Not at all

☐ Sometimes


☒ Always

 [Next](#)

Had the Associated Feedback:

Wraparound Survey Items

Hearing from you about your satisfaction is important to us. Wraparound care coordinators should regularly check in with you about your satisfaction with the process. Knowing about your level of satisfaction will help us improve in the future.

[Prev](#)  [Next](#)

TRYING OUT AUTOMATE D RESPONSES

Choosing the following:

Wraparound Survey Items

How much do you agree with the following?

I am satisfied with how the Wraparound process is working for my family and me so far

☒ Not at all

☐ Sometimes

☐ Always

Next

Had the Associated
Feedback:

Wraparound Survey Items

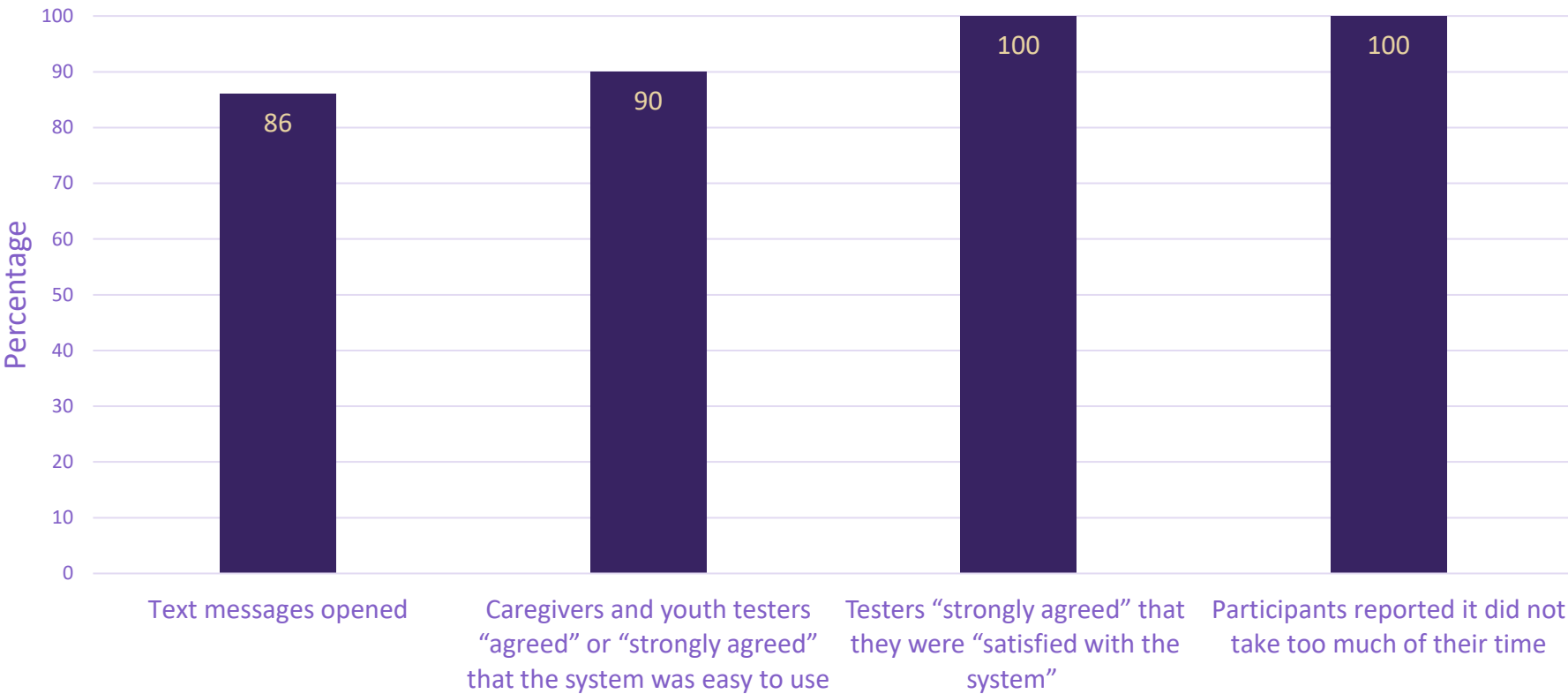
Hearing about your son is important for your coordination with you about the process. If you are feeling how well wraparound is working are not being regular satisfaction, you may have your care else a non pre Wraparound.

Prev

Next

Results of Initial Usability Testing were encouraging

- Surveys took an average of approx. 30 seconds to complete



Focus groups were instrumental to improving the system

- > **SMART-Wrap Items:** Parents said satisfaction and fidelity items should specify the time period for feedback
- > **Item wording:** Youth said to simplify items
- > **Response scales:** Youth suggested using emojis 😊
- > **Timing of sending surveys:** Parents and youth both suggested the system should send texts at more convenient times
- > **Setting up for success:** Parents and youth both recommended care coordinators should help families set the system up in their phone as part of the engagement phase



Next Steps for SMART-Wrap

- Based on results from user testing:
 - Survey items were revised to be more accessible, esp for youth
 - Adding reminder texts
 - Revised auto-generated response messages
- A dashboard and reporting system are now being developed for Wraparound providers and organizations
- **UW WERT and NWI are now seeking additional SMART-Wrap pilot testing sites for a second round of testing**



Second Round of SMART- Wrap Testing



Second round of SMART-Wrap testing will further refine the tool and test the provider “dashboard”

> We are seeking 10 Wraparound provider organizations (or sites within an organization) across the U.S.

> Sites will:

- Identify 3 Wraparound care coordinators (CC) to participate in the pilot
- One supervisor who oversees the work of the CCs
- One manager/administrator who oversees the supervisors and CCs.

Each CC will obtain consent for one family to participate in the study



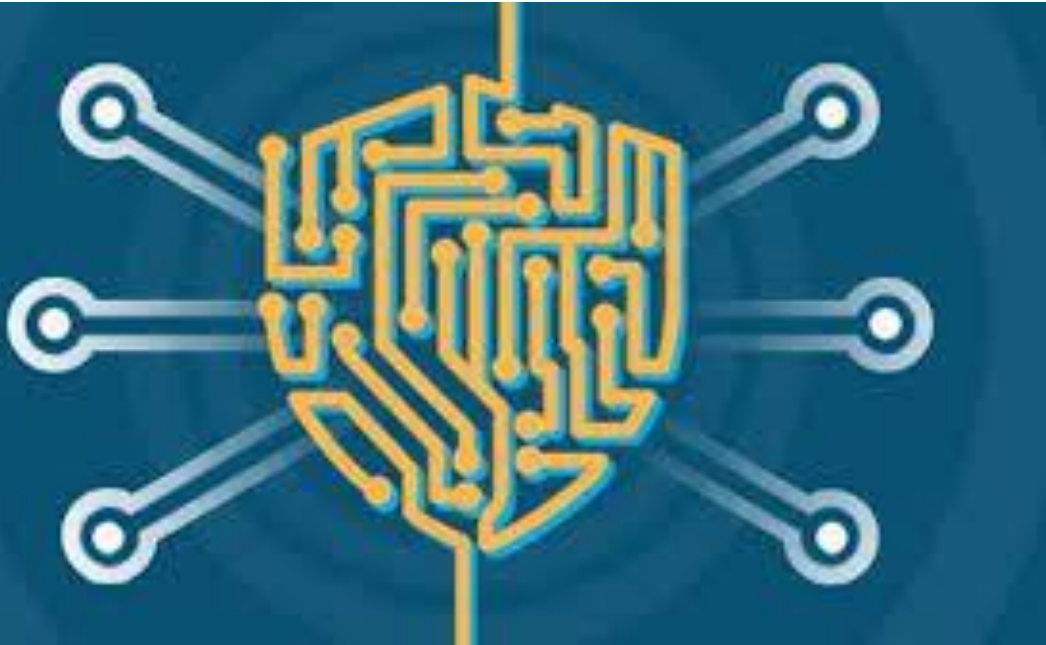
Caregivers, youths, care coordinators, and supervisors/managers will all participate in SMART-Wrap testing

- > **Parents/caregivers** (CGs) and **youths** will use the SMART-Wrap prototype for two months
- > **CCs and managers/supervisors** will use a web-based SMART-Wrap interface to monitor engagement, satisfaction, fidelity, and outcomes
- > **CGs, youth, CCs,** and **managers/supervisors** will complete a post-test online evaluation survey after 2 months
- > Selected **CGs, youth, CCs, and managers/supervisors** will participate in interviews or focus groups



SMART-Wrap and the data collection software is completed with strict security measures

- Rigorous security measures will be employed for:
 - Data transfer
 - Storage to protect privacy
 - Confidentiality of client data
- The research team will track use of the system by all users during the test period including:
 - Logins
 - Response time
 - Amount of time spent in system
 - Number/type of technical assistance requests



Pilot testers will rate the usability of the system

- > After the 2-month pilot period, all participants will evaluate experience with the components they used
- > Examples of ratings to be obtained include:
 - SMART-Wrap usability e.g., ease of use, navigation, technical problems
 - Acceptability e.g., satisfaction, motivation to use, worthwhileness
 - Feasibility e.g., time efficient, practical to use, doable in everyday life / care
 - Value e.g., valuable for improving care/outcomes, motivation to use after pilot
 - Compatibility of the SMART-Wrap product for integration with existing Wraparound systems (e.g., existing EMR/data system(s), existing evaluation methods)



All participants piloting SMART-Wrap will be compensated for their time



- > Caregivers and youth will receive **\$60 in incentives**
 - Testing the system by receiving text messages with links to surveys
 - Completing usability measures via online survey after pilot testing
 - Focus groups/interview participants will receive an additional \$100
- > Care Coordinators will receive **\$100**
 - referring CGs and youth
 - completion of summary survey
- > Each participating supervisor and manager will receive **\$100** for
 - Helping recruit and encourage the participation of their staff
 - Reviewing results via the site-level “dashboard”



Wraparound Evaluation & Research Team



How to get involved:

- > Email:
 - Lia Musumeci at UW WERT at Lrm94@uw.edu (Or wrapeval@uw.edu)
- > From each participating initiative or organization, we seek to identify those interested in participating
 - 2-3 care coordinators
 - A supervisor, a manager
- > First steps will be to convene with 3C Research staff to get oriented to
 - The SMART-Wrap system
 - Study procedures

Questions

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