Center for Public Health Systems Science

Brown School

Validating and enhancing the clinical sustainability assessment tool:

A quick assessment for researchers and practitioners

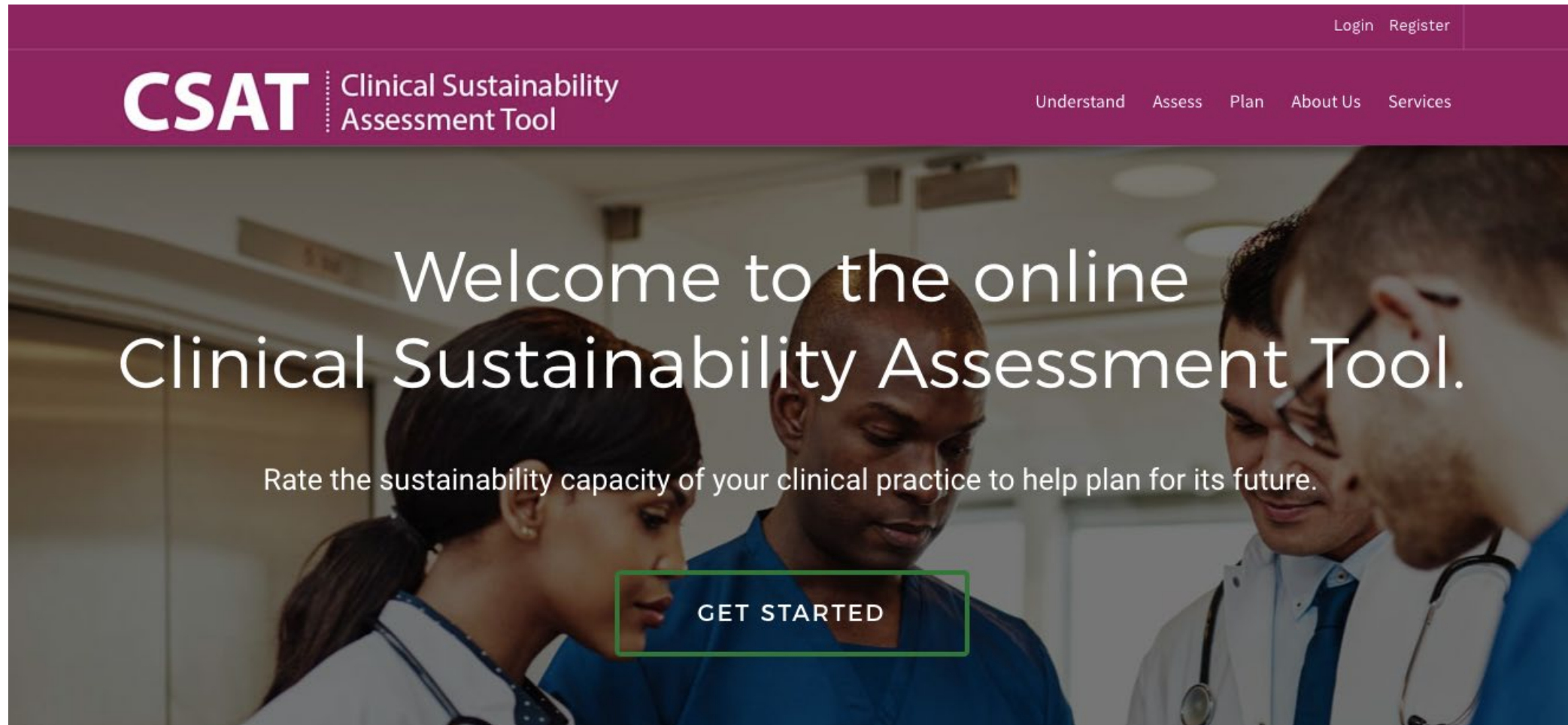Sara Malone, Virginia McKay, Kim Prewitt, JD Smith, Asya Agulnik, and Douglas Luke

Washington University in St. Louis

Outline

- Clinical Sustainability
- Explore the CSAT
- Psychometric Properties
- Explore Adaptations

Why sustainability?

Sustaintool.org

CSAT development process

» Initial review
  ▪ Literature
  ▪ Review of existing PSAT framework and instrument domains

» Concept Mapping
  ▪ Expert input
  ▪ Domain and potential item identification

» Draft instrument development

» Draft instrument pilot

» Psychometric analyses

» Final instrument development and dissemination

Explore the clinical sustainability assessment tool (CSAT)

CSAT design

» 7 domains

» 5 items in each domain

» Quick and easy to use

» Usable by evaluators, researchers *and* clinicians

Engaged Staff & Leadership

Workflow Integration

Engaged Stakeholders

Implementation & Training

Organizational Readiness

Monitoring & Evaluation

Outcomes & Effectiveness

Engaged Staff & Leadership

Having supportive frontline staff and management within the organization

LESS EXTENT

MORE EXTENT

The practice engages leadership and staff throughout the process.

① ② ③ ④ ⑤ ⑥ ⑦

NA

Please Select Your Assessment

Clinical champions of the practice are recognized and respected.

① ② ③ ④ ⑤ ⑥ ⑦

NA

Please Select Your Assessment

The practice has engaged, ongoing champions.

① ② ③ ④ ⑤ ⑥ ⑦

NA

Please Select Your Assessment

The practice has a leadership team made of multiprofessional partnerships.

① ② ③ ④ ⑤ ⑥ ⑦

NA

Please Select Your Assessment

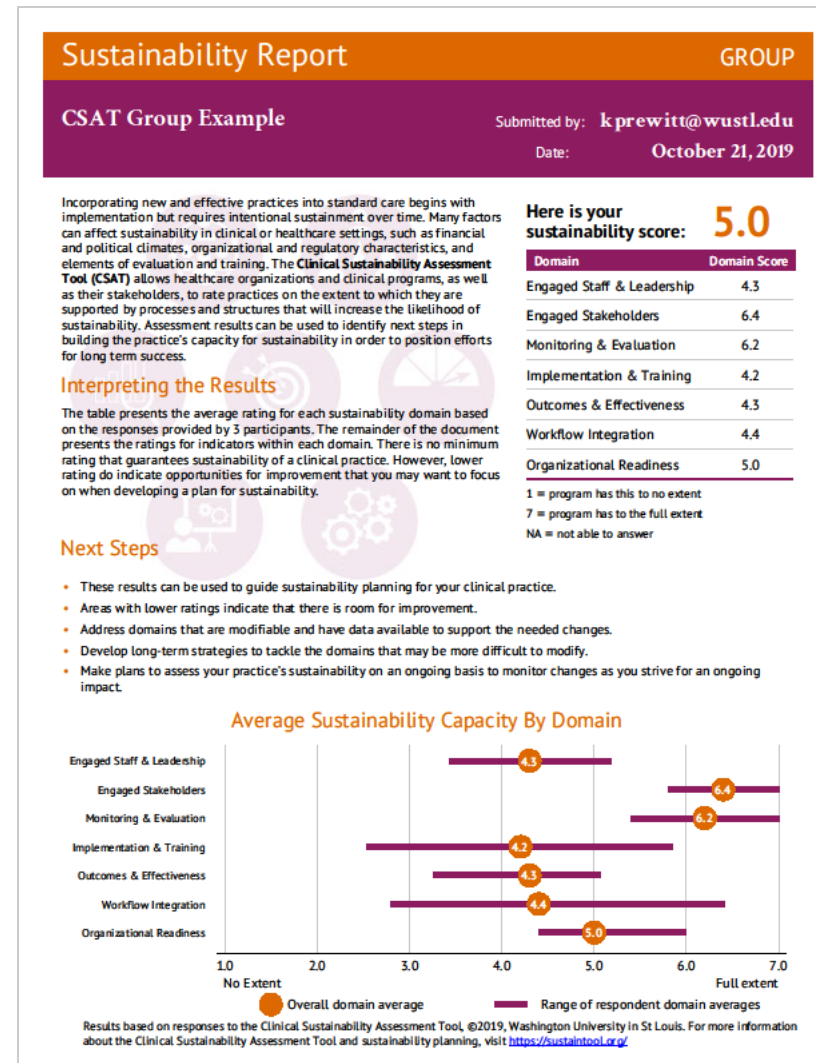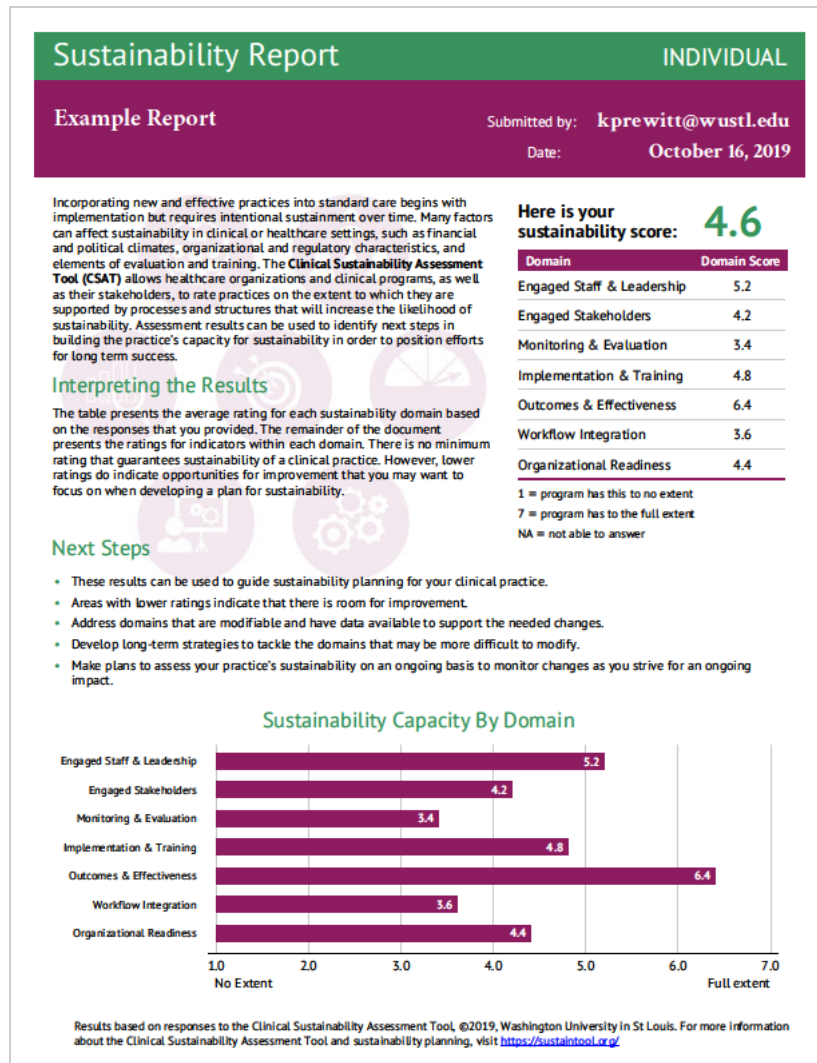The practice has team-based collaboration and infrastructure.

① ② ③ ④ ⑤ ⑥ ⑦

NA

Please Select Your Assessment

Tailored reports

Sustainability Report — INDIVIDUAL

Example Report — Submitted by: kprewitt@wustl.edu — Date: October 16, 2019

Here is your sustainability score: 4.6

Domain	Domain Score
Engaged Staff & Leadership	5.2
Engaged Stakeholders	4.2
Monitoring & Evaluation	3.4
Implementation & Training	4.8
Outcomes & Effectiveness	6.4
Workflow Integration	3.6
Organizational Readiness	4.4

Sustainability Report — GROUP

CSAT Group Example — Submitted by: kprewitt@wustl.edu — Date: October 21, 2019

Here is your sustainability score: 5.0

Domain	Domain Score
Engaged Staff & Leadership	4.3
Engaged Stakeholders	6.4
Monitoring & Evaluation	6.2
Implementation & Training	4.2
Outcomes & Effectiveness	4.3
Workflow Integration	4.4
Organizational Readiness	5.0

Pilot Testing

Excellent reliability for 5 items/scale

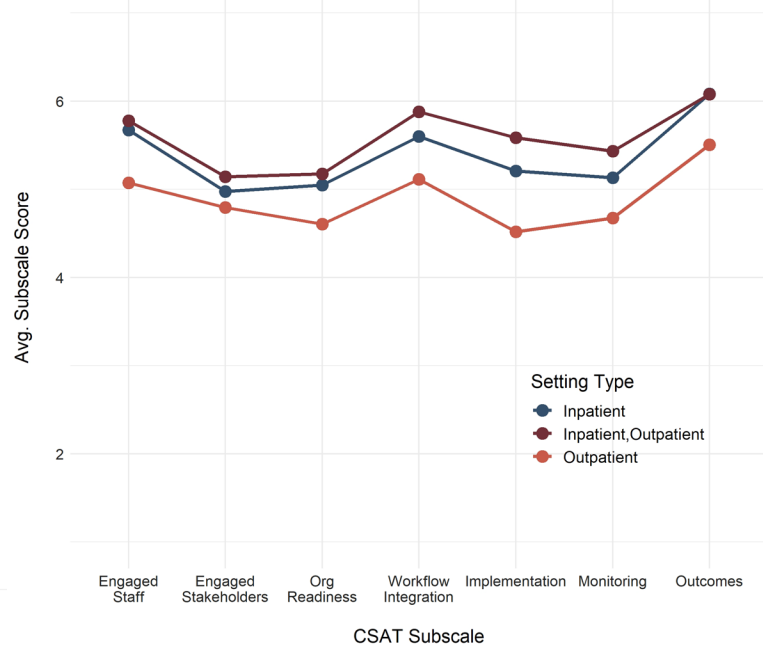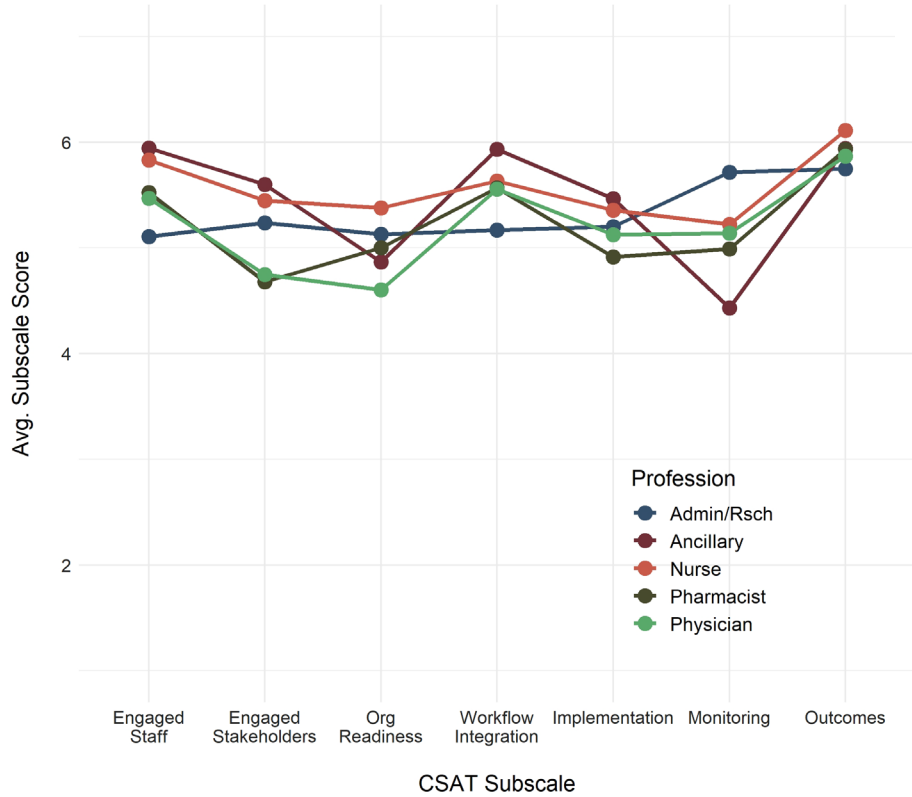| Domain	# of Items	Scale Mean	Scale SD	Alpha
Engaged Staff & Leadership	5	5.50	1.03	0.85
Engaged Stakeholders	5	5.02	1.18	0.82
Organizational Readiness	5	4.97	1.23	0.87
Workflow Integration	5	5.49	1.13	0.89
Implementation & Training	5	5.14	1.25	0.90
Monitoring & Evaluation	5	5.12	1.41	0.94
Outcomes & Effectiveness	5	5.95	1.01	0.90

Validity

- Preliminary results suggested CSAT is
  able to distinguish setting type more than person type

- Ongoing data collection

- Collecting data on:
  - Intervention: Strength of evidence, Feasibility to implement
  - Organization: Quality improvement work, Size, Type
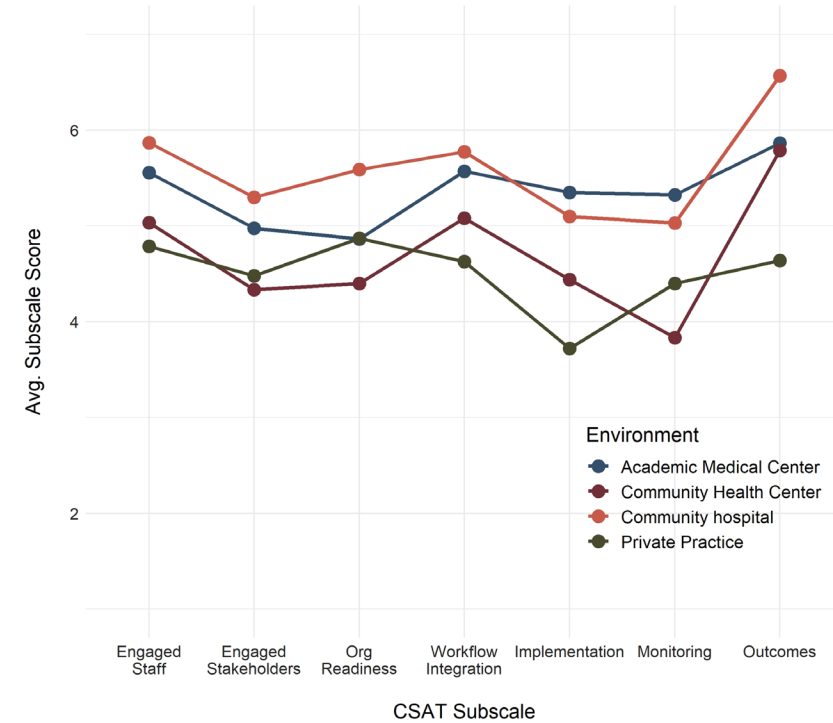 - Individual: Profession, position

CSAT by Setting Type

CSAT by Profession

CSAT by Environment

Adaptations

Translation into Spanish

» In conjunction with St. Jude

Organizational Readiness

1. Organizational systems are in place to support the various practice needs.
2. The practice fits in well with the culture of the team.
3. The practice has feasible and sufficient resources (e.g., time, space, funding) to achieve its goals.
4. The practice has adequate staff to achieve its goals.
5. The practice is well integrated into the operations of the organization

Preparación Organizacional

1. Los sistemas organizacionales están colocados para apoyar las diferentes necesidades de la práctica.
2. La práctica encaja bien en la cultura del equipo.
3. La práctica tiene recursos suficientes y factibles (ej. tiempo, espacio, financiamiento) para lograr sus objetivos.
4. La práctica tiene personal adecuado para alcanzar sus metas.
5. La práctica esta bien integrada dentro de las operaciones de la organización.

Short Version

» Concerns about length of completion

» Assessed 5 item version vs. 3 item version

Internal consistencies (Cronbach's alpha) for long (35-item) and short (21-item) versions of the CSAT

Subscale	5 items	3 items
Engaged Staff & Leadership	0.85	0.78
Engaged Stakeholders	0.82	0.83
Organizational Readiness	0.87	0.86
Workflow Integration	0.89	0.82
Implementation & Training	0.90	0.86
Monitoring & Evaluation	0.94	0.89
Outcomes & Effectiveness	0.90	0.84

Conclusion

» Ensuring sustainment of effective and feasible interventions is integral to achieving long-term improvement

» Freely available, usable tool with psychometric properties
   www.sustaintool.org

» Unique to a clinical setting – for researchers, clinicians

» Provides a tangible way to advance the impact of quality improvement work in clinical settings

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