

**Brown School** 

# Validating and enhancing the clinical sustainability assessment tool:

A quick assessment for researchers and practitioners

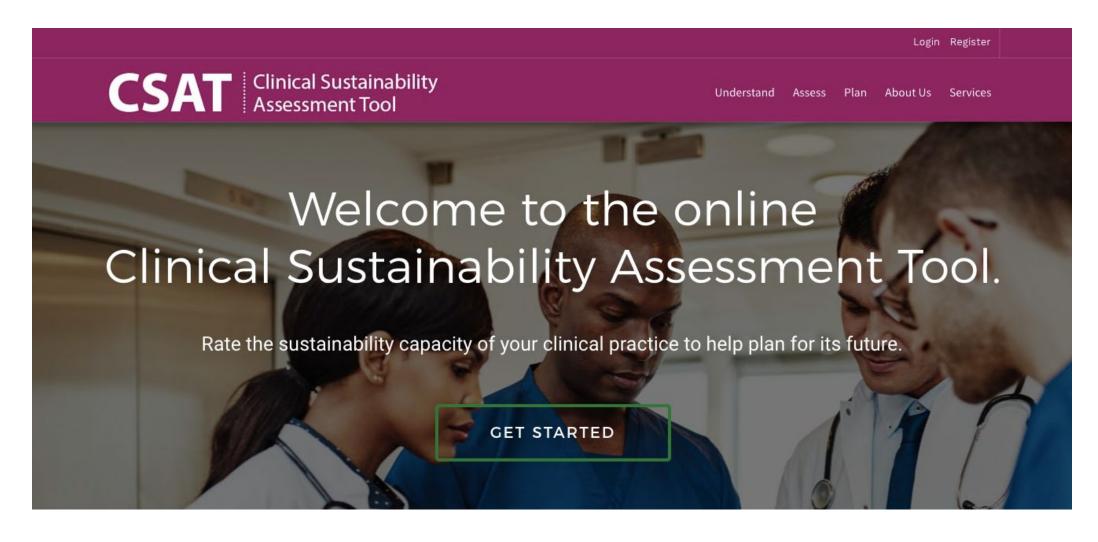
Sara Malone, Virginia McKay, Kim Prewitt, JD Smith, Asya Agulnik, and Douglas Luke

## 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

0	2	3	4	6	8	0	NA
	Please	Select	Your Ass	e s s m e n t			
0	2	3	4	6	8	Ø	NA
Please Select Your Assessment							
0	2	3	6	6	8	2	NA
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0	2	3	9	6	8	2	NA
	Please Select Your Assessment						
0	2	3	4	(5)	6	0	NA
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Please Select Your Assessment



## Tailored reports

## Sustainability Report INDIVIDUAL Example Report Submitted by: kprewitt@wustl.edu Date: October 16, 2019

Incorporating new and effective practices into standard care begins with implementation but requires intentional sustainment over time. Many factors can affect sustainability in clinical or healthcare settings, such as financial and political climates, organizational and regulatory characteristics, and elements of evaluation and training. The Clinical Sustainability Assessment Tool (CSAT) allows healthcare organizations and clinical programs, as well as their stakeholders, to rate practices on the extent to which they are supported by processes and structures that will increase the likelihood of sustainability. Assessment results can be used to identify next steps in building the practice's capacity for sustainability in order to position efforts for long term success.

#### Interpreting the Results

The table presents the average rating for each sustainability domain based on the responses that you provided. The remainder of the document presents the ratings for indicators within each domain. There is no minimum rating that guarantees sustainability of a clinical practice. However, lower ratings do indicate opportunities for improvement that you may want to focus on when developing a plan for sustainability.

Here is your sustainability score:

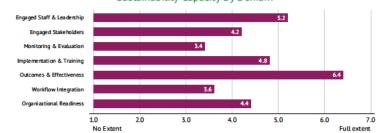
Domain Score
5.2
4.2
3.4
4.8
6.4
3.6
4.4

- 1 = program has this to no extent
- 7 = program has to the full extent
- NA = not able to answer

#### **Next Steps**

- . These results can be used to guide sustainability planning for your clinical practice.
- . Areas with lower ratings indicate that there is room for improvement.
- Address domains that are modifiable and have data available to support the needed changes.
- . Develop long-term strategies to tackle the domains that may be more difficult to modify
- Make plans to assess your practice's sustainability on an ongoing basis to monitor changes as you strive for an ongoing impact





Results based on responses to the Clinical Sustainability Assessment Tool, @2019, Washington University in St Louis. For more information about the Clinical Sustainability Assessment Tool and sustainability planning, visit <a href="https://sustaintool.or.gr">https://sustaintool.or.gr</a>/

#### Sustainability Report

**GROUP** 

**CSAT Group Example** 

Submitted by: kprewitt@wustl.edu

Date: October 21, 2019

Incorporating new and effective practices into standard care begins with implementation but requires intentional sustainment over time. Many factors can affect sustainability in clinical or healthcare settings, such as financial and political climates, organizational and regulatory characteristics, and elements of evaluation and training. The Clinical Sustainability Assessment Tool (CSAT) allows heathcare organizations and clinical programs, as well as their stakeholders, to rate practices on the extent to which they are supported by processes and structures that will increase the likelihood of sustainability. Assessment results can be used to identify next steps in building the practice's capacity for sustainability in order to position efforts for long term success.

#### Interpreting the Results

The table presents the average rating for each sustainability domain based on the responses provided by 3 participants. The remainder of the document presents the ratings for indicators within each domain. There is no minimum rating that guarantees sustainability of a clinical practice. However, tower rating do indicate opportunities for improvement that you may want to focus on when developing a plan for sustainability.

Here is your sustainability score: 5.

Domain	Domain Score
ngaged Staff & Leadership	4.3
ngaged Stakeholders	6.4
Monitoring & Evaluation	6.2
mplementation & Training	4.2
Outcomes & Effectiveness	4.3
Vorkflow Integration	4.4
Organizational Readiness	5.0

- 1 = program has this to no extent
- 7 = program has to the full extent
- NA = not able to answer

#### Next Steps

- . These results can be used to guide sustainability planning for your clinical practice.
- · Areas with lower ratings indicate that there is room for improvement.
- . Address domains that are modifiable and have data available to support the needed changes.
- . Develop long-term strategies to tackle the domains that may be more difficult to modify.
- Make plans to assess your practice's sustainability on an ongoing basis to monitor changes as you strive for an ongoing impact.

#### Average Sustainability Capacity By Domain



Results based on responses to the Clinical Sustainability Assessment Tool, ©2019, Washington University in St Louis. For more information about the Clinical Sustainability Assessment Tool and sustainability planning, visit <a href="https://sustainability.com/">https://sustainability.com/</a>



## Pilot Testing

## Excellent reliability for 5 items/scale

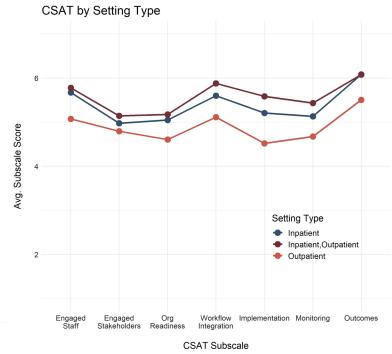
Domain	# of Items	Scale Mean	Scale SD	Alpha
Engaged Staff & Leadership	5	5.50	1.03	0.85
Engaged Stakeholders	5	5.02	1.18	0.82
Organizational Readiness	5	4.97	1.23	0.87
Workflow Integration	5	5.49	1.13	0.89
Implementation & Training	5	5.14	1.25	0.90
Monitoring & Evaluation	5	5.12	1.41	0.94
Outcomes &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

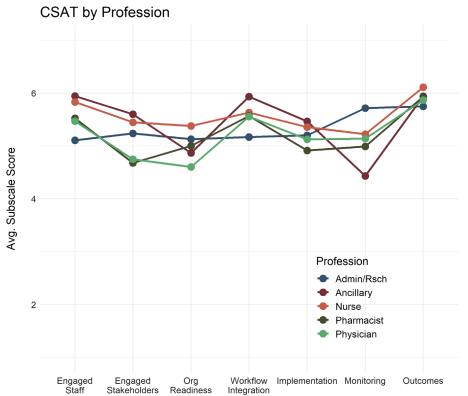


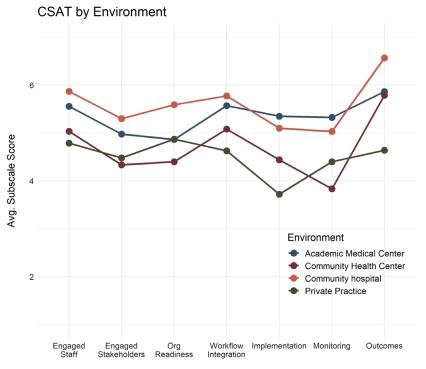
## **Validity**

- 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









## Adaptations

## Translation into Spanish

### » In conjunction with St. Jude

#### **Organizational Readiness**

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

#### **Preparación Organizacional**

- Los sistemas organizacionales están colocados para apoyar las diferentes necesidades de la práctica.
- La práctica encaja bien en la cultura del equipo.
- La práctica tiene recursos suficientes y factibles (ej. tiempo, espacio, financiamiento) para lograr sus objetivos.
- La práctica tiene personal adecuado para alcanzar sus metas.
- 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



## **Contact Us**

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