

The Michigan Standard Simulation Experience Scale (MiSSES) Template
working document available from: <http://www.med.umich.edu/umcsc/research/MiSSES.doc>]

This document contains a preliminary template including the six components of the MiSSES toolkit. It is designed to provide a framework for assessment, providing the option of assessing entire range of domains identified through a review of simulation literature.

The template was designed to be manually adapted by investigators to specific use scenarios. Investigators can select relevant sections of the template to use, based on their own needs.

Refinement of the toolkit is ongoing, and additional user testing will result in iterative improvements to the MiSSES.

Users are free to adapt this template for their own use. Please use the following citation in published work:
"Assessment was adapted from the MiSSES template for evaluation of simulation."

With reference:

Seagull FJ, Rooney DM. Filling a void: Developing a standard subjective assessment tool for surgical simulation through focused review of current practices. *Surgery*. 2014 Sep;156(3):718-22. doi: 10.1016/j.surg.2014.04.048. PubMed PMID: 25175506.

Instructions:

The following template contains six sections.

- Each section represents a domain for evaluation.
- Each section includes highlighted text. This text should be personalized to reflect the type of activity to be evaluated.
- Preserve the five-point response scale. It is widely used in simulation research, and provides a degree of standardization.

Notes:

Demographics: Collect demographics only to the extent that is needed. For example, in a session with only 2nd year medical students, no indication of "training year" would be needed. Previous experience may include clinical or simulated experience, and can be expanded to any relevant activities (e.g. video game use for laparoscopic surgery).

Self-efficacy: These questions address issues of knowledge, confidence, and ability to work independently. As written, they address the experience as a whole. These questions can be expanded to address individual aspects of the simulation, simulator, or curriculum.

Fidelity: Simulator characteristics can be assessed globally, or additionally include specific subcomponents. These can be assessed in the dimensions of fidelity of an array of characteristics within the simulator or simulation setting. Aspects of fidelity to assess could include suspension of disbelief, visual characteristics, tactile characteristics, procedural authenticity, etc.

Educational value: Knowledge and skills are two components of educational value. They can be assessed globally, or for the individual components of the activity, such as the individual learning objectives

Teaching quality: These questions assess the quality of instructors and resources that support the activity. They can additionally include adequacy of resources such as time allotted, space provided, and ease of access to simulation.

Overall: It has been noted in the literature that often times, a simple global rating is more highly correlated with objective measures of assessment than the individual sub-components of a scale. We have included it to align with best practices in assessment literature.

Versions of this instrument are available online through Qualtrics and Survey Monkey. For more information, validation data, and collaboration, please contact:

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DEMOGRAPHICS

Training Year (please circle): M1 2 3 4 PGY 1 2 3 4 5 6 7 Fellow Attending

Specialty (please fill in blank or Circle N/A): _____ N/A

Age: _____

Gender (please circle): Male Female Other

Previous experience: Approximately how many **XYZ procedures** have you performed? _____

Please take a moment to complete the rating below. Your feedback will guide improvements to **the XYZ session/curriculum / simulator.**

	Don't know (.)	Strongly disagree (1)	Somewhat disagree (2)	Neutral (3)	Somewhat agree (4)	Strongly agree (5)
SELF-EFFICACY						
The session/curriculum / simulator helped improve my knowledge						
The session/curriculum / simulator helped improve my confidence at performing XYZ						
The session/curriculum / simulator helped improve my ability to XYZ						
The session/curriculum / simulator helped improve my ability to XYZ independently						
Comments/suggestions regarding the session/curriculum / simulator that may improve your self-efficacy:						
FIDELITY						
The simulator used has adequately realistic characteristics/features						
The simulation environment is adequately realistic						
Realism of feature 1 was adequate						
Realism of feature 2 was adequate						
Comments/suggestions regarding the simulator /simulation to improve the fidelity during the training session.						

PLEASE CONTINUE ON THE NEXT PAGE →

	Don't know (.)	Strongly disagree (1)	Somewhat disagree (2)	Neutral (3)	Somewhat agree (4)	Strongly agree (5)
EDUCATIONAL VALUE						
The simula(tor/tion) is a good training tool for knowledge in XYZ						
The simula(tor/tion) is a good training tool for skills in XYZ						
The simula(tor/tion) was critical at addressing learning objective 1						
The simula(tor/tion) was critical at addressing learning objective 2						
Comments regarding educational value						
TEACHING QUALITY						
Instructor(s) were knowledgeable about the topic						
Instructor(s) were able to convey material in a way that was understandable to me						
The learning materials (readings, presentations) improved my understanding of topic/procedure						
The resources we used improved my understanding of topic/procedure						
Comments regarding teaching quality:						
OVERALL RATING						
Overall, this simulation experience was						

Global- Please check the *one* statement below with which you most agree.

For evaluation of simulator:

- This** simula(tor/tion) requires **extensive improvements** before it can be considered for use in training.
- This simula(tor/tion) requires **minor adjustments** before it can be considered for use in training.
- This simula(tor/tion) can be used in training, but **should be improved slightly**.
- This simula(tor/tion) **can be used in training** with no improvements made.

Please suggest any changes you would make to the simulator.

What specific changes would you suggest to improve your learning experience? Please use the space provided below to describe if needed.

Thank you for your help. Your feedback is critical and will be used to make improvements to your learning experience.