

Launching a Neonatal Resuscitation Escape Room to Combat High Infant Mortality in South India: A Quality Improvement Project

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PROBLEM

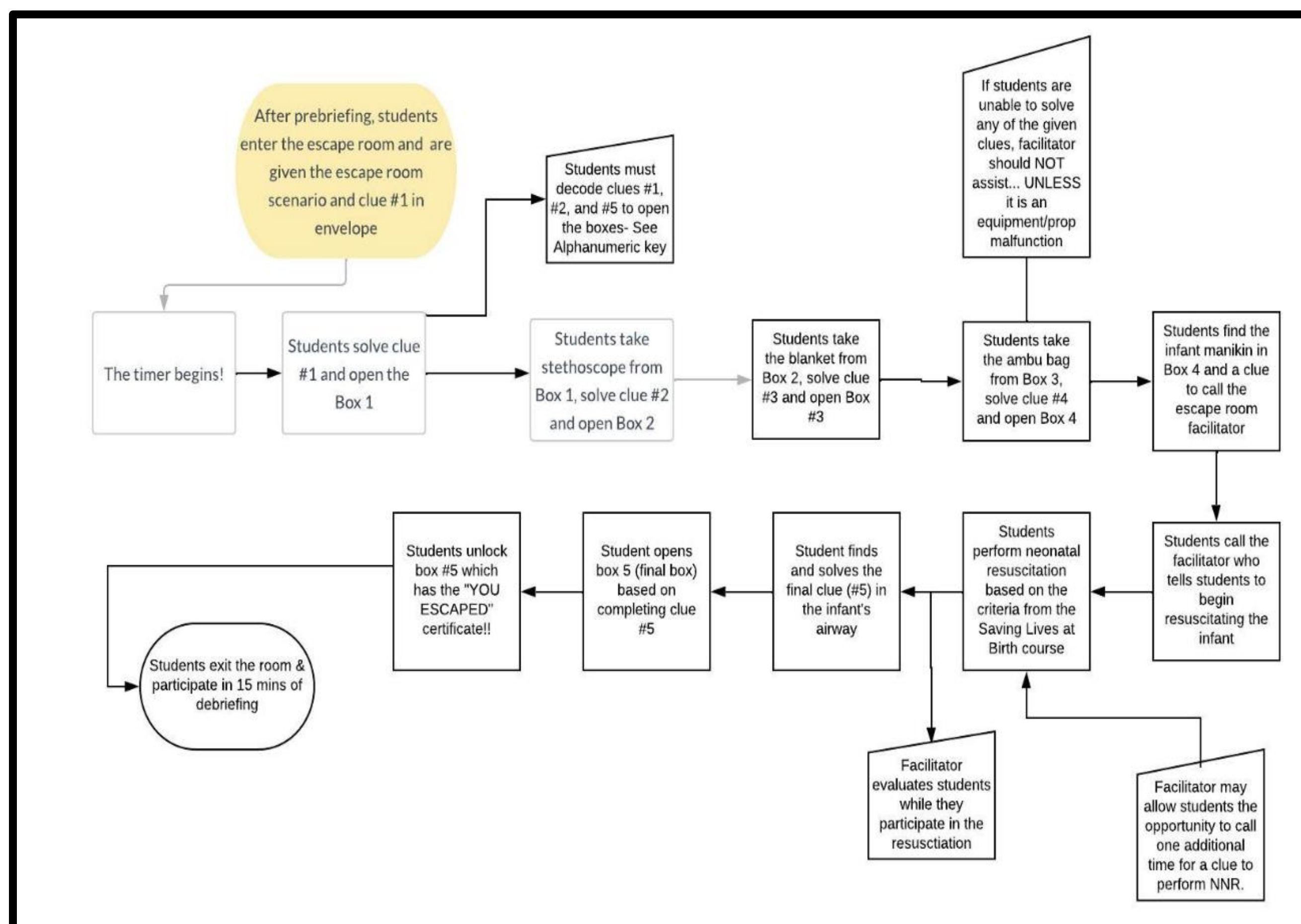
- In South India, high infant mortality rates necessitate advanced neonatal resuscitation training for nurses.
- Improved nurse competency and student recognition of distressed infants have been shown to reduce neonatal mortality rates.

PURPOSE / AIM

The primary aim of this project was threefold: By July 1, 2024, 90% of nursing students in the neonatal resuscitation escape room will **complete the NNR sequence, identify distressed infants, and collaborate effectively on a clinical team.**

PROJECT DESIGN

A quantitative descriptive design was used. N=310 undergraduate nursing students from six schools in India participated in a simulated neonatal resuscitation (NNR) escape room in a simulation lab in South India, following the completion of an asynchronous maternal/fetal nursing course.

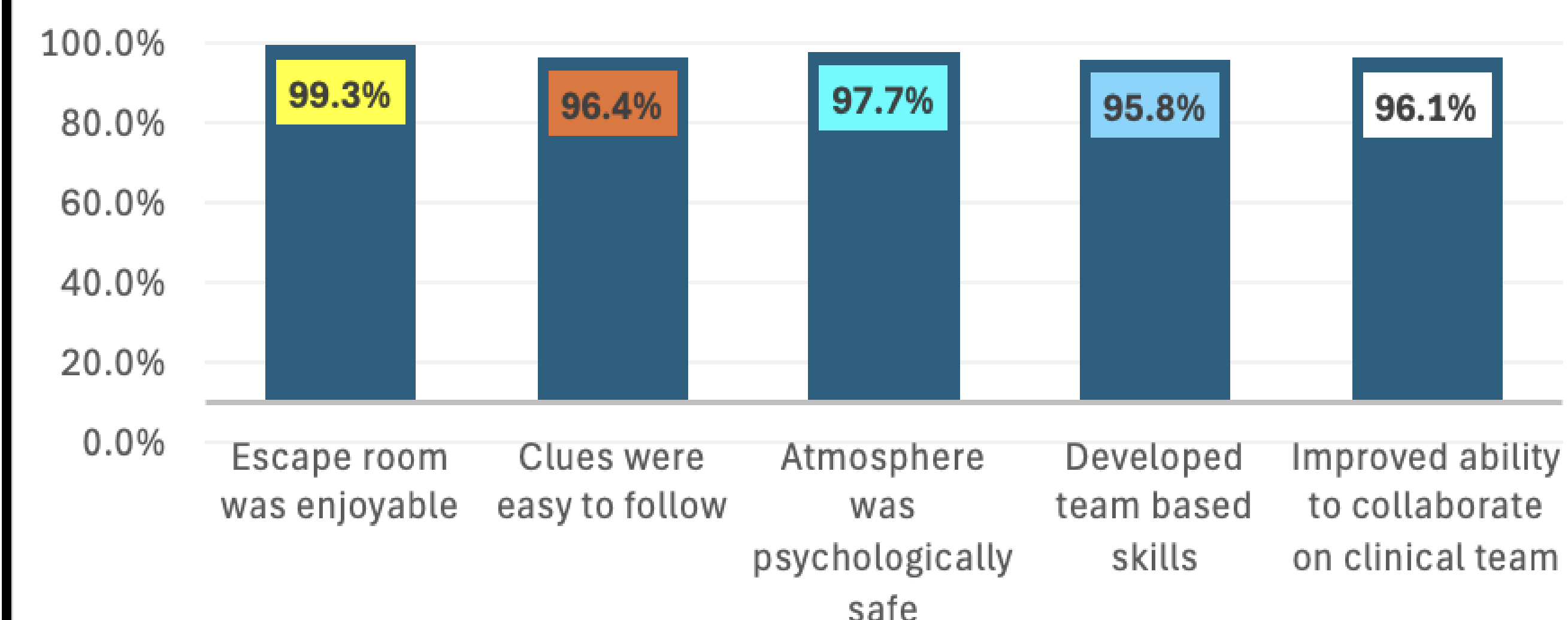


OUTCOMES

Data analysis confirms the neonatal resuscitation escape room was an effective learning modality.

- Post-intervention, skills improved significantly ($p < .001$).
- Facilitator evaluations showed 77.5% of students completed neonatal resuscitation with minimal clues.
- 95.8% of students reported enhanced teamwork and collaboration.

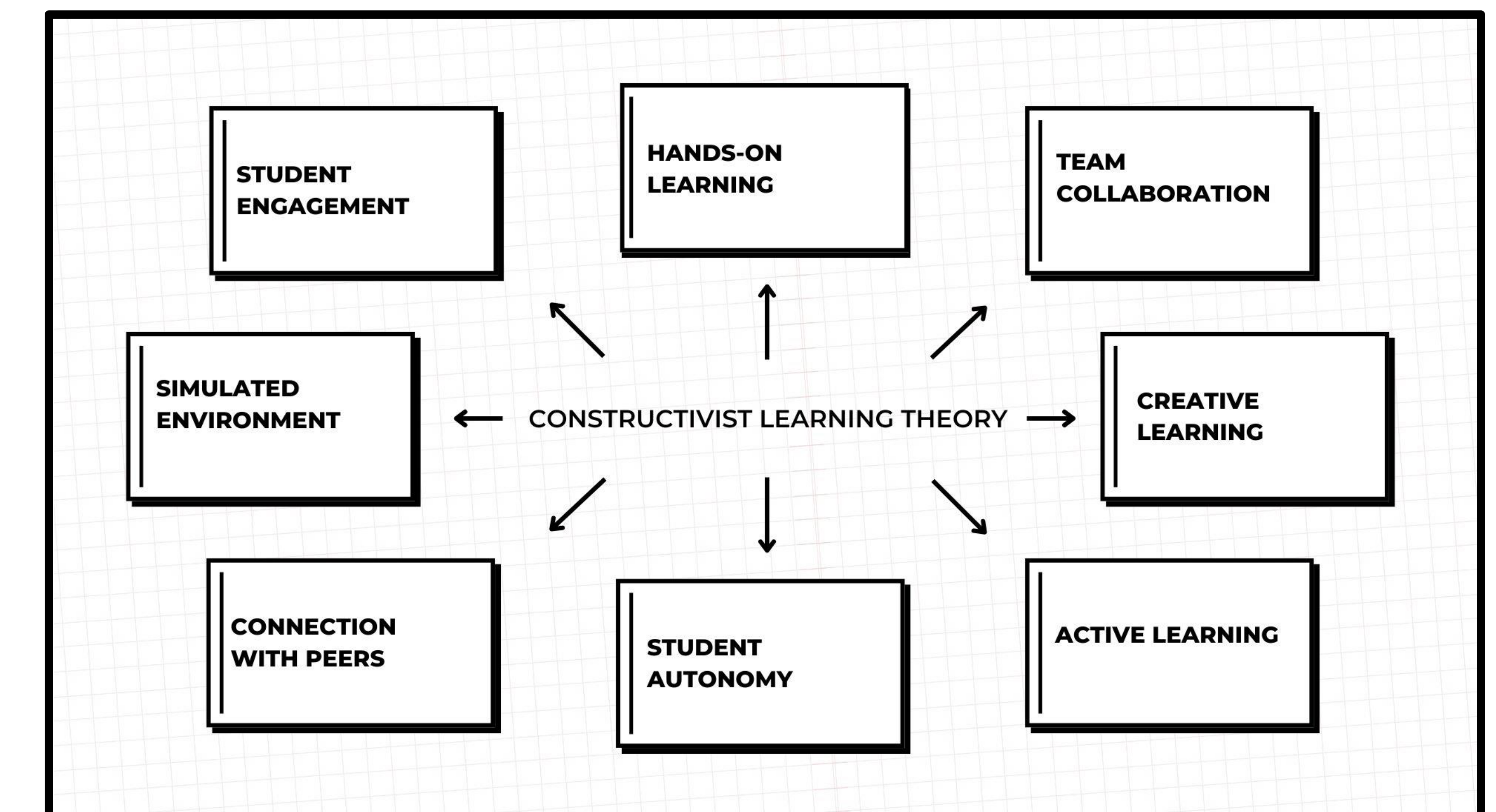
Responses to Likert Scale Statements in the Student Evaluation Form



The percentage of groups of students who were able to successfully complete each step of the escape room Groups of Students (N = 53)

[Skill]	[Groups of Students]	
	n	%
Warm & Dry the Infant	51	96.2%
Assess Equal Rise & Fall of Chest	43	81.1%
Open & Stabilize Airway	41	77.4%
Give 5 Initial Breaths & Reassess Airway	40	75.5%
3:1 Compression to Breath CPR	51	96.2%
2 Finger/Thumb CPR Method	52	98.1%

CONCEPTUAL FRAMEWORK



PRACTICE IMPLICATIONS

The next steps for this project are to investigate launching escape rooms within different nursing schools in different countries to measure if escape rooms are beneficial learning modalities in various healthcare educational settings



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