Welcome!

Before we start, please feel free to visit this link to see the module for yourself.

https://sites.google.com/a/hawaii.edu/uni

Programing Manikins:

A Video Training Module for the Gaumard UNI Software

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Where I work…

UNIVERSITY OF HAWAI'I
Translational Health Science
Simulation Center

Audience Poll

Are you familiar with nursing simulation or know what it involves?

a. Yes. I know about nursing simulation.
b. Maybe. I've heard of it before, but don't really know.
c. No. I've never heard of nursing simulation.

What is nursing simulation?

- Realistic environment
- High-tech, life-like manikins to replicate physiology
- Learn by doing
- Replace clinical hrs.

Check out our Sim Center!

http://thssc.nursing.hawaii.edu

- Hover over “About Us” at the top
- Click on “Virtual Tour”
- Watch the first 40 sec. of the intro video

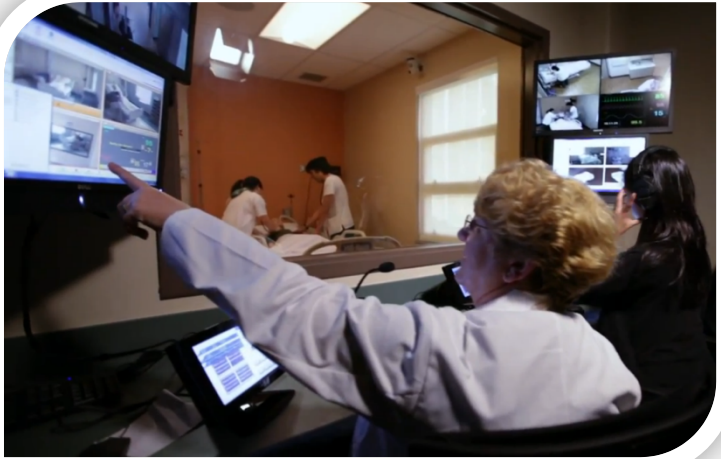
Background

- Staff training expensive; Mastery difficult
- Reliance on staff training each other
- Our Center = 6 types of manikins on 3 platforms

Project

Instructional Design:

- Training module to be used anytime.
- Supports staff turnover.
- Refresher tool.



Project Description

- Online video-based training module for the Gaumard UNI software.
  - New upgrade.
  - Discontinued support and training.
  - Staff doesn’t know programing.

Problem Statement

The purpose of this instructional design project is to develop and evaluate the effectiveness of an online video-based instructional module for training simulation staff on the use and programming of the Gaumard UNI software at the University of Hawaii at Manoa's Nursing Simulation Center.

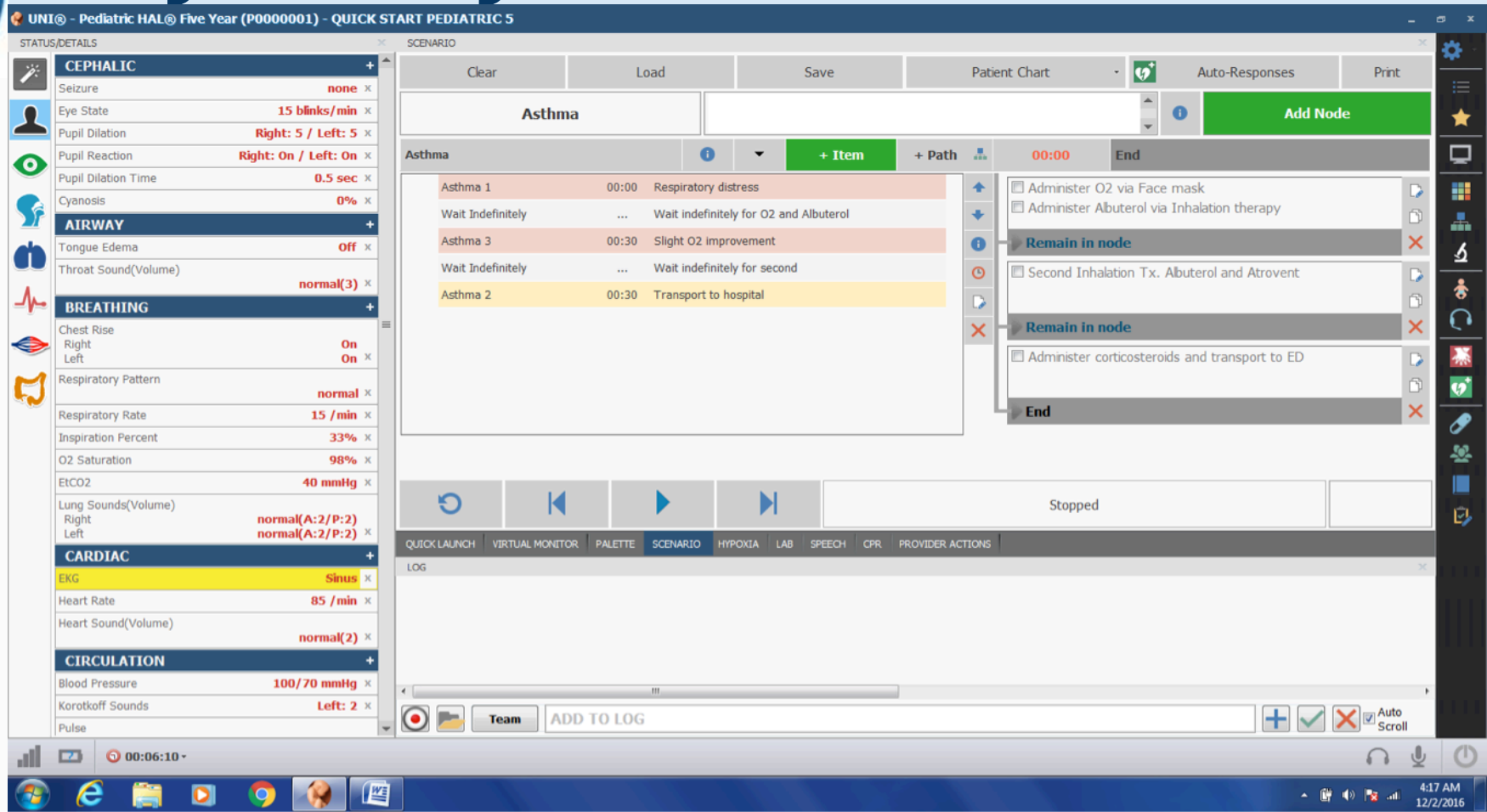
Project Design

- Dick & Carey Model
- Gagne’s 9 Events of Instruction
- Meij's 8 guidelines for software training
- Camtasia screen capture
- Online text to speech

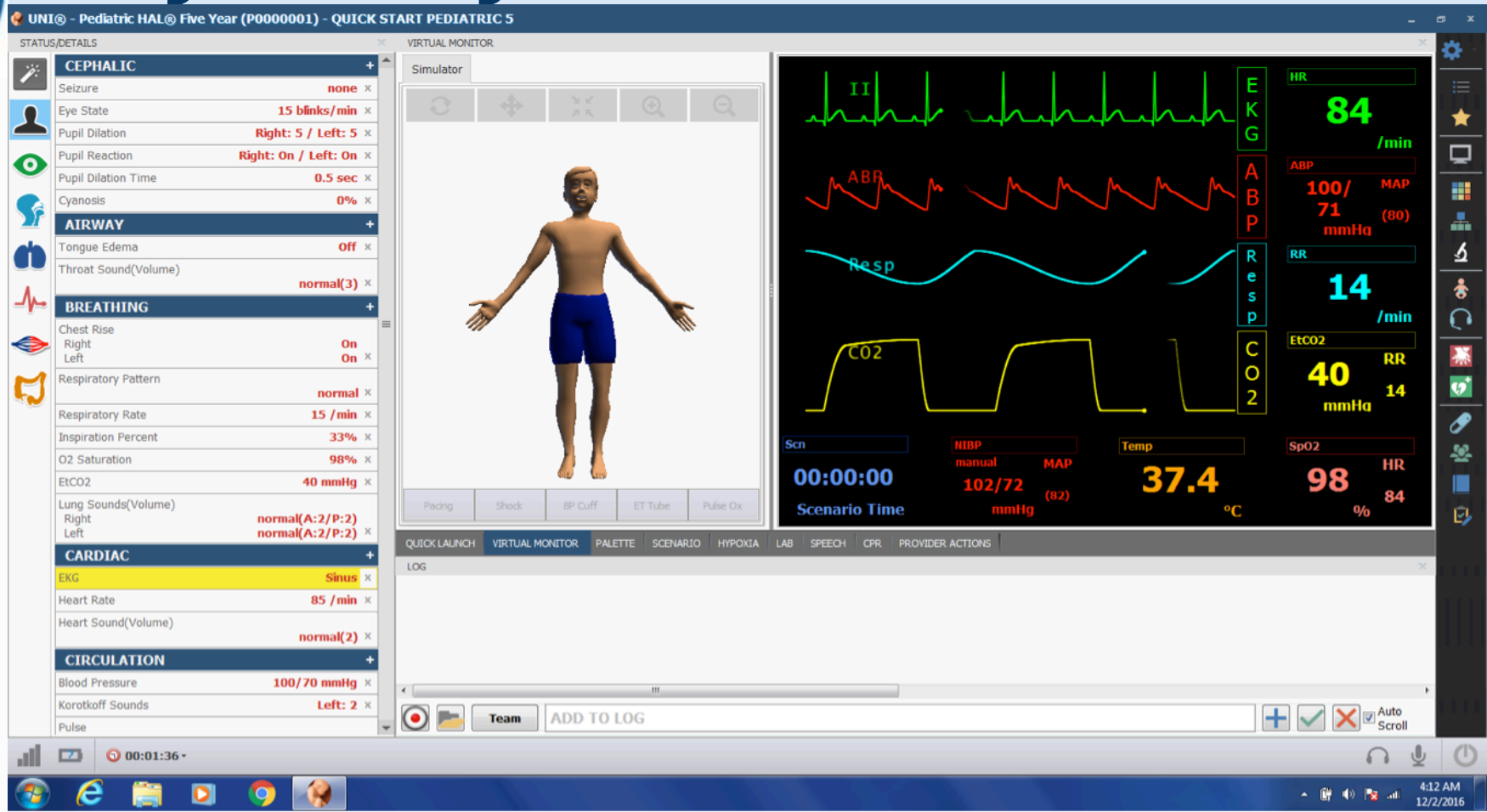
Project Goals

1. Load and run a scenario.
2. Run the manikin on-the-fly.
3. Program scenarios.

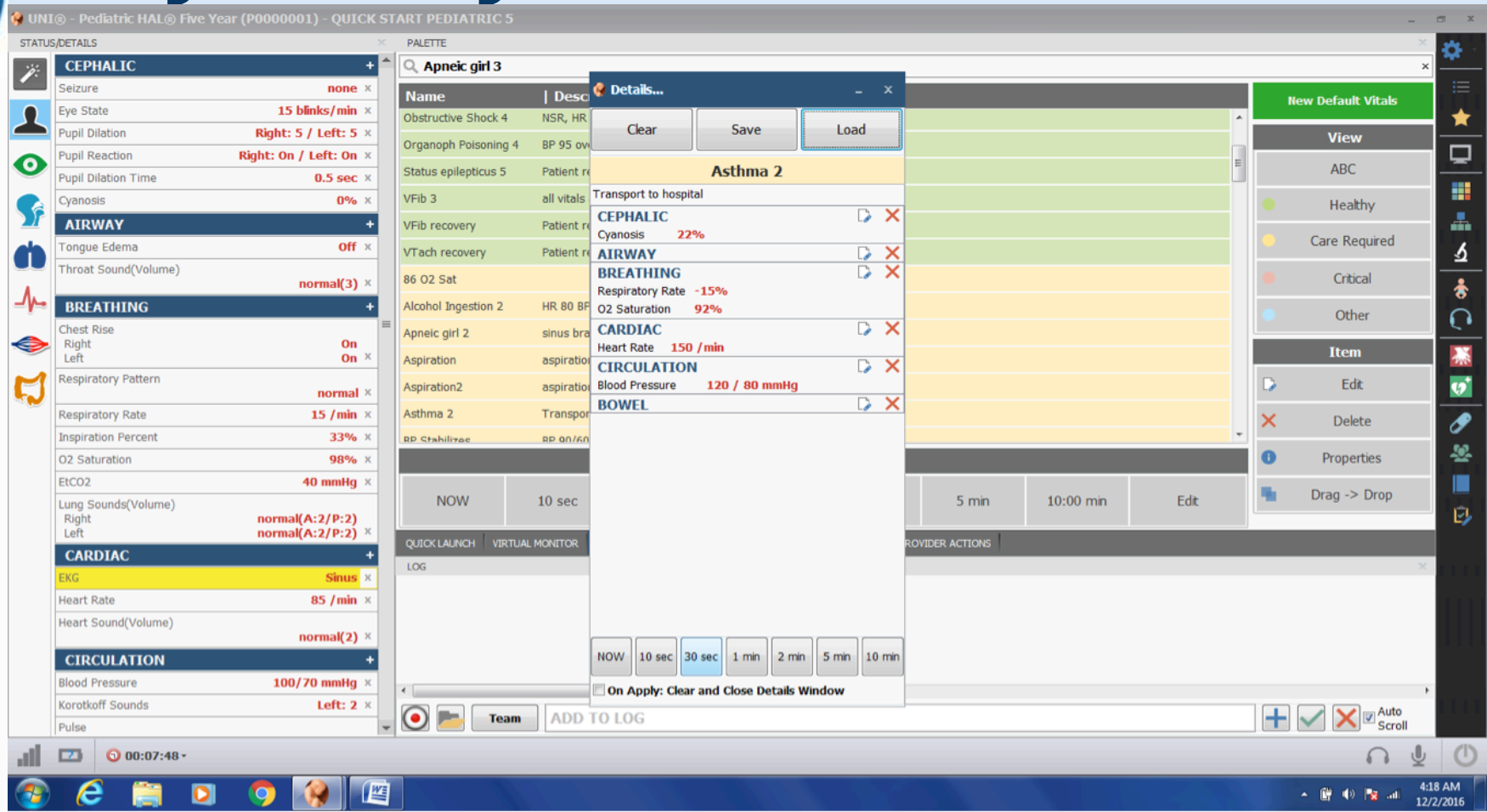
Project Objectives



Project Objectives



Project Objectives



Project Planning

- Email recruitment
- Demographics pre-survey
- Pre-Test
- Module and post-test
- Attitudinal post-survey

Project Planning

UNI Training

HOME
PART 1
1.1 Opening the Software
1.2 Quick Launch and Scenario Tab
1.3 Transition Time in Scenario Tab
Part 1 Review
PART 2
2.1 Virtual Monitor and Palette Tab
2.2 Hypoxia, Speech, CPR, and Provider Actions Tab
2.3 Lab Results and Templates
2.4 Tool Gear and Right Side Icons
2.5 Left Side Manikin Controls
2.6 Manikin Control Display

PART 1: Loading and Running a Pre-existing Programmed Scenario

Objectives

By the end of this section, the learning objectives are as follows:

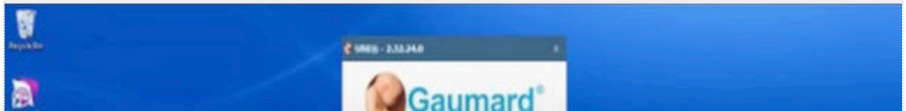
1. Given four choices, you will be able to correctly identify where to find pre-programmed scenarios in the software.
2. Given four options, you will be able to correctly determine how to start running a pre-programmed scenario.
3. Given four choices, you will be able to correctly indicate what happens to built-in transition times of programmed scenarios.

1.1 Opening the Software

Let's take a look first at how to open the software and where to find pre-programmed scenarios by watching the following clip.

- **EXAMPLE: Where to find pre-programmed scenarios**

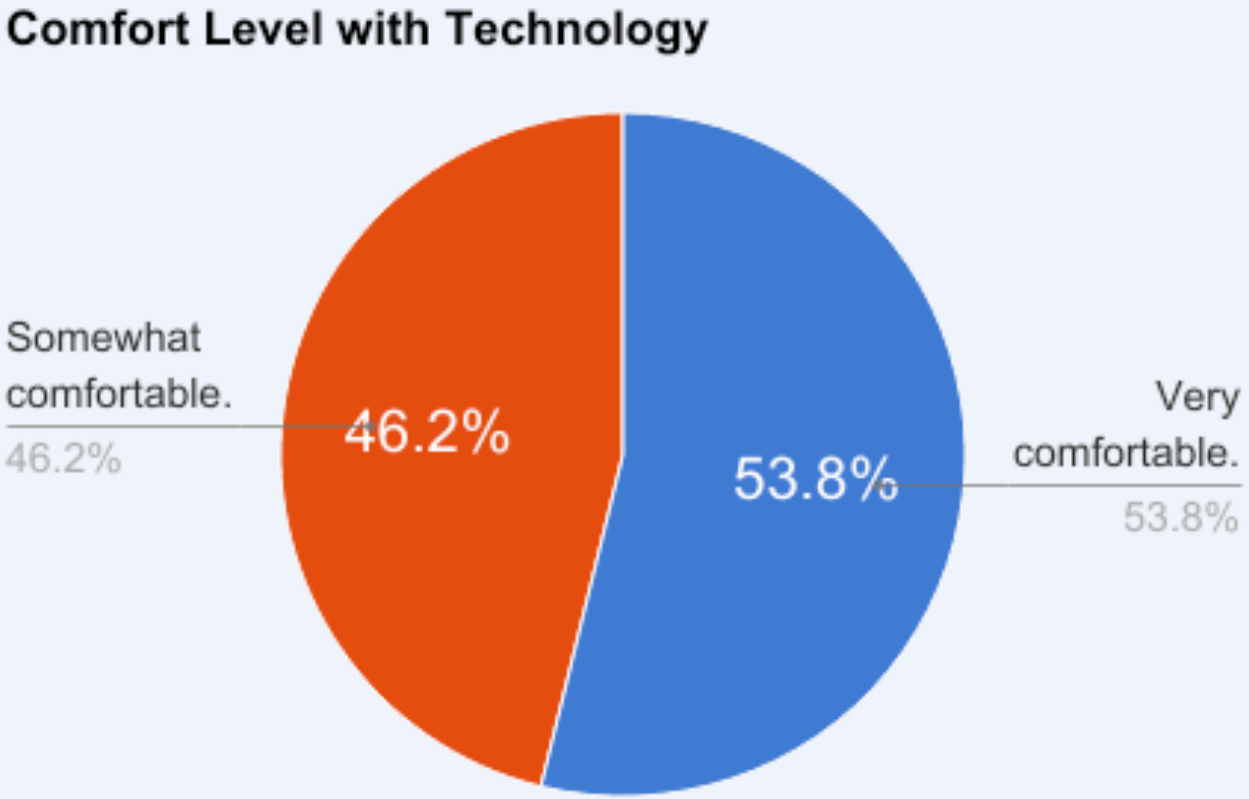
Opening the Software.mp4



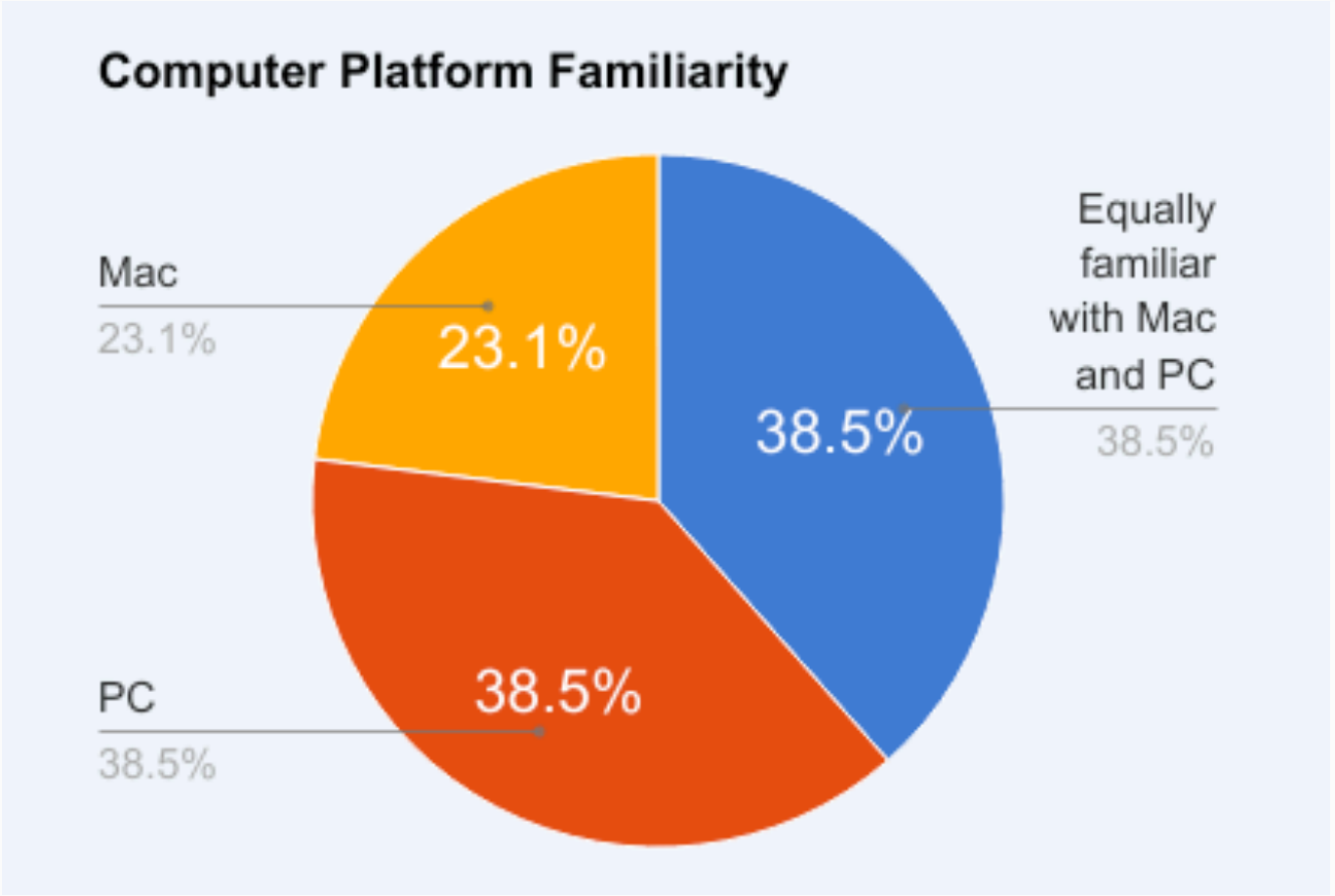
Results

Characteristic	Number	Percent
Gender		
Male	4	27%
Female	**11**	**73%**
Age		
20-29	1	7%
30-39	2	13%
40-49	**7**	**47%**
50-59	4	26%
60+	1	7%
Education		
Associates Degree	1	7%
Bachelor's Degree	**9**	**60%**
Master's Degree	4	26%
Doctorate Degree	1	7%

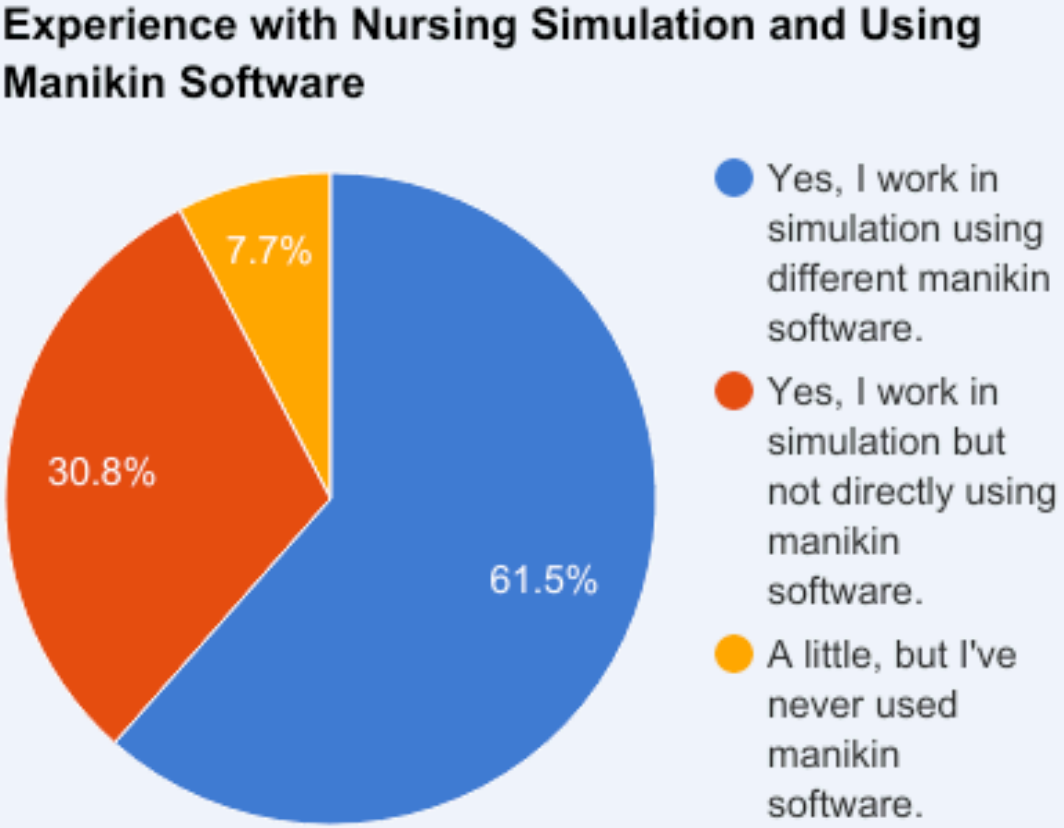
Results


Comfort Level with Technology
Somewhat comfortable.
46.2%
46.2%
53.8%
Very comfortable.
53.8%

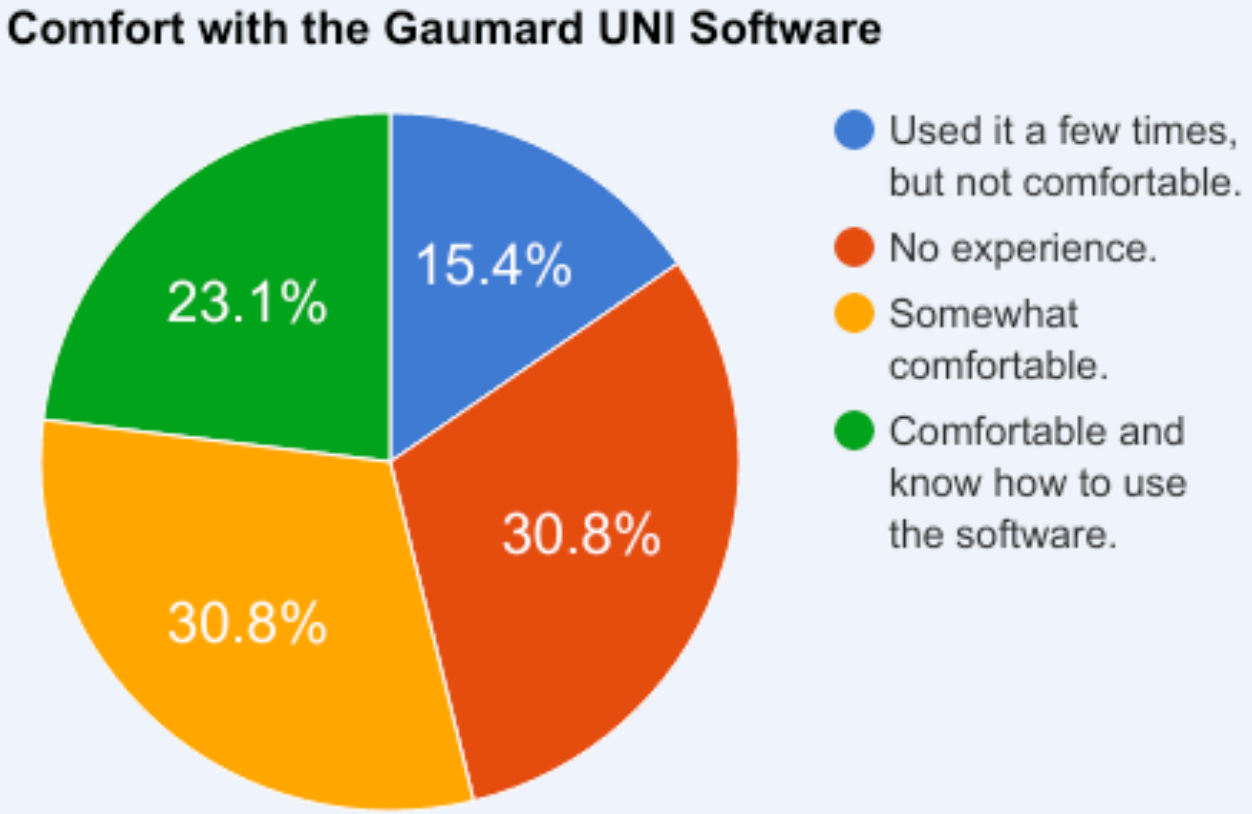
Results


Computer Platform Familiarity
Mac
23.1%
23.1%
Equally familiar with Mac and PC
38.5%
38.5%
PC
38.5%
38.5%

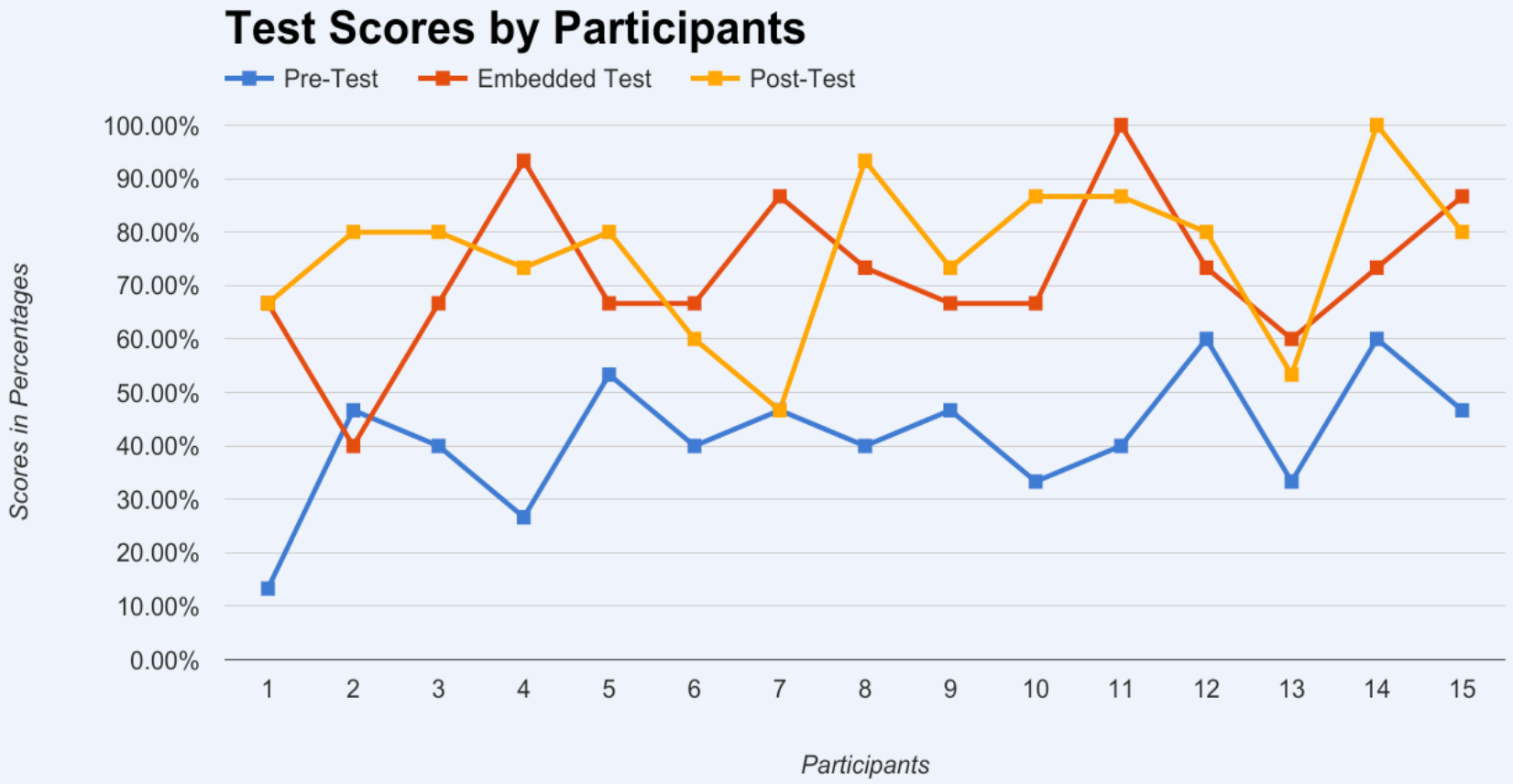
Results


Experience with Nursing Simulation and Using Manikin Software
7.7%
30.8%
61.5%
Yes, I work in simulation using different manikin software.
Yes, I work in simulation but not directly using manikin software.
A little, but I've never used manikin software.

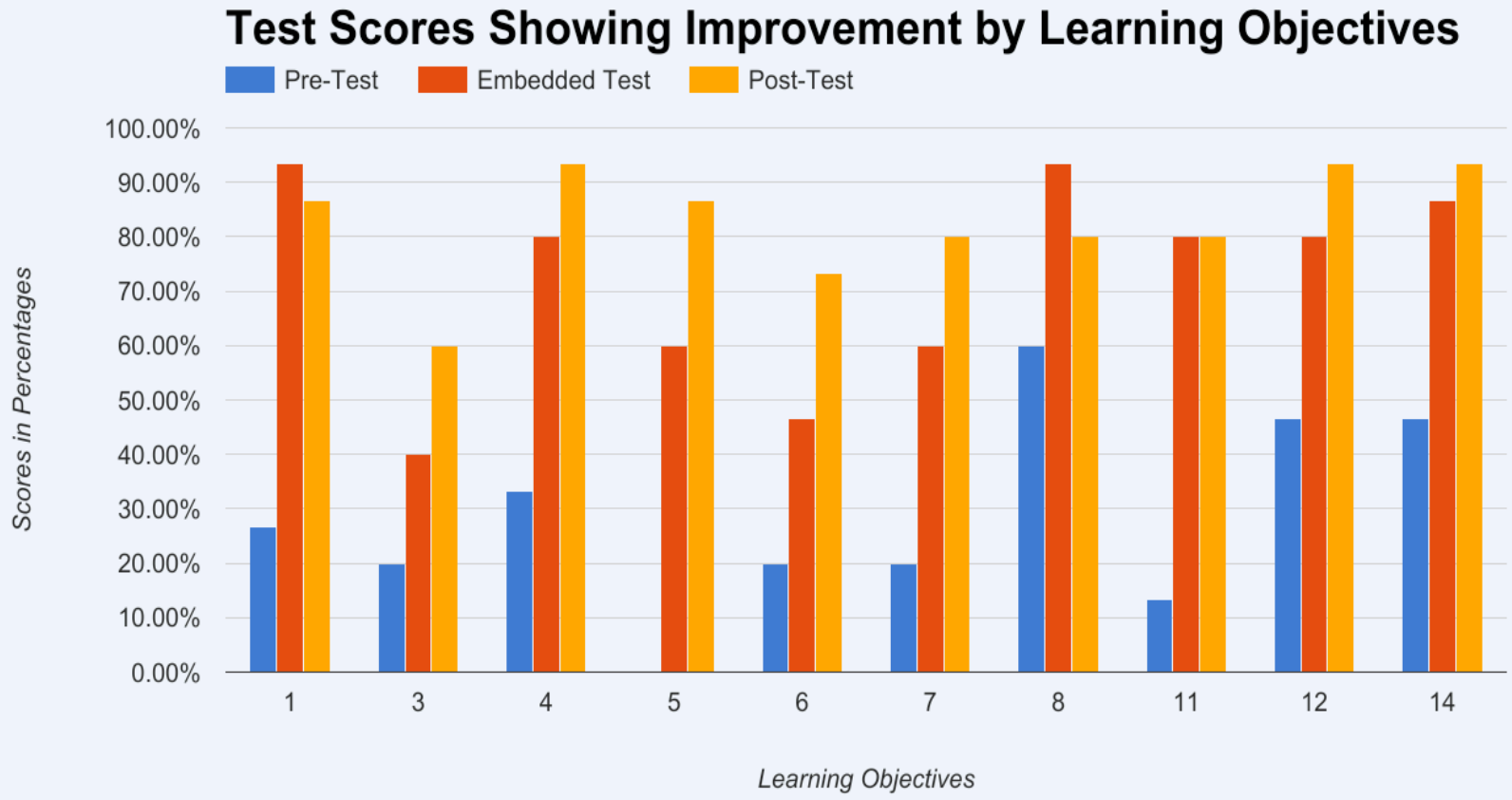
Results


Comfort with the Gaumard UNI Software
15.4%
30.8%
30.8%
23.1%
Used it a few times, but not comfortable.
No experience.
Somewhat comfortable.
Comfortable and know how to use the software.

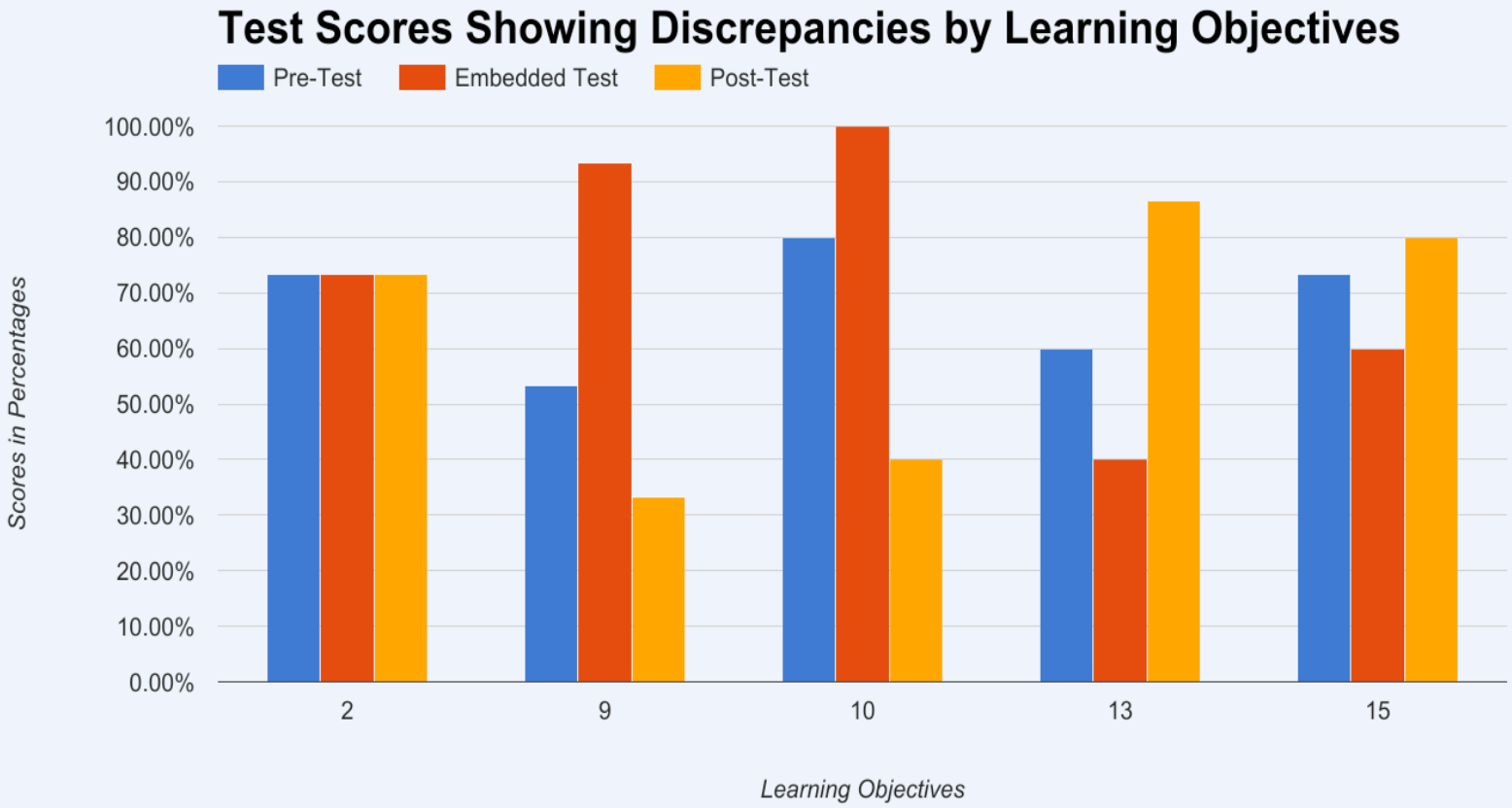
Results


Test Scores by Participants
Pre-Test
Embedded Test
Post-Test
100.00%
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Scores in Percentages
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Participants

Results

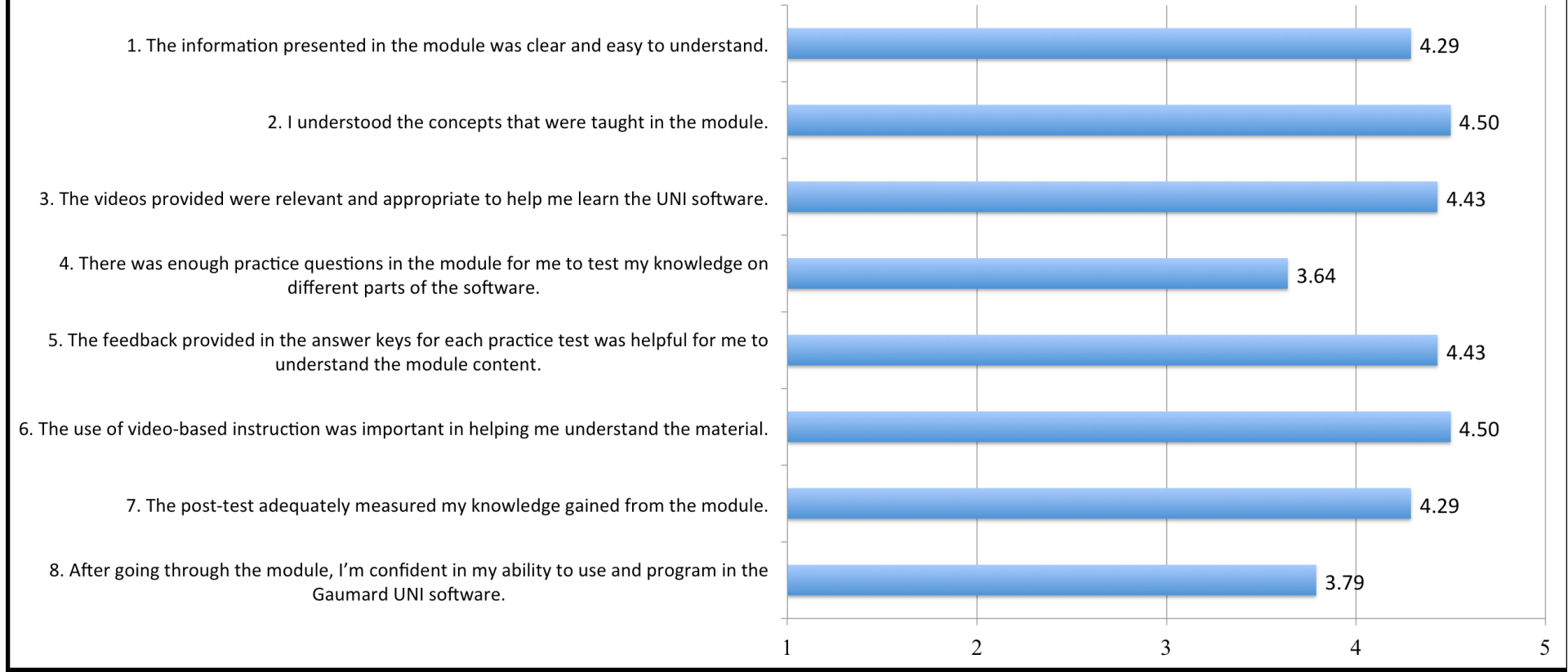

Test Scores Showing Improvement by Learning Objectives
Pre-Test
Embedded Test
Post-Test
100.00%
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Scores in Percentages
1
3
4
5
6
7
8
11
12
14
Learning Objectives

Results


Test Scores Showing Discrepancies by Learning Objectives
Pre-Test
Embedded Test
Post-Test
100.00%
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Scores in Percentages
2
9
10
13
15
Learning Objectives

Results

Post Attitudinal Survey



Comments on the module

Comments on the website

Conclusion

Challenge:

- Creating and matching objectives
- Text to speech narration

What worked:

- Google Sites
- Google Form
- Camtasia screen capture

Conclusion

Future Plans:

- Refresher training for staff
- Resource tool for other simulation programs
- Possible modules for other manikin platforms

Questions?

https://sites.google.com/a/hawaii.edu/uni

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