IMSH 2021

Learners' Perceptions Of Simulation As A Clinical Learning Approach On SimLEARN Courses (Retrospective Study)

presented by: Nancy Wong, PhD

Veteran Health Affairs

Simulation Learning Education and Research Network (SimLEARN, 14HIL2)
Orlando, FL

Disclaimer: I have no financial relationship related to the content being presented





Learning Overview

Research Elements

- Retrospective Study-Hybrid (quantitative and qualitative)
- 11 VA National Simulation Center (SimLEARN) courses
- Period: January 2016 December 2019
- Data
 - -Participants registration information
 - Evaluation assessments (Kirkpatrick L1-L2)
 - Repository
 - VA Talent Management System (TMS) and
 - SimLEARN Tracking Activity Repository (STAR).





Learning Overview

VA Research Guidelines

- Submitted research request IRB Exemption through the VA Orlando Research Committees
- SimLEARN as the main site for Principal Investigator
- SimLEARN stored and safeguarded research data
- Learners are VA wide employees; some DoD employees
- Data
 - Aggregate data
 - No personal identifiable information
 - Compliant with VA research, privacy and information security guidelines





Study Objectives

- Identify learners' simulation participation satisfaction with the learning content, activities, and the learning environment to support knowledge, technical and non- technical skills development
- Identify learners' simulation use immediately following their introductory to simulation learning
- 3) Assess the impact of pre-course assessment, if conducted, for those SimLEARN courses that provide the assessment.





National SimLEARN Center (SimLEARN)

https://myees.lrn.va.gov/SimLEARN/default.aspx





U.S. Department of Veterans Affairs















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LATEST NEWS

Simulation Exchange

Newsletter



The latest issue of Simulation Exchange is brought to you by VHA's SimLEARN program. Each issue highlights stories and current initiatives in simulation-based clinical education.

Please share this publication and the stories with simulation, education, frontline clinical staff, support staff and others at your facility with an interest in

QUICK LINKS

- Contact the NSC
- STAR SimChamp Use Only
- Connect With Us
- How Do I..
- Simulation Data Sheet
- SimLEARN Data Sheet
- NSC Flyover Video
- SimLEARN Community of Practice
- Certified Simulation Facilities
- OPS Manual (document library)
- SimLEARN Resources
- Point of Care Ultrasound (POCUS)





SimLEARN Courses

- 1) Fundamentals of Clinical Care Support (FCCS)
- 2) Maintenance of Certification in Anesthesiology (MOCA)
- 3) Introduction to Clinical Simulation (ICS)
- 4) Musculoskeletal Master Educator (MSK-ME)
- 5) Musculoskeletal Clinician (MSK-C)
- 6) Peripherally Inserted Central Catheter Course (PICC)
- 7) Point of Care Ultra Sound (POCUS)
- 8) Simulations for Clinical Excellence in Nursing Services (SCENS)
- 9) SimLEARN Faculty Instructor Course (SFIC)
- 10) Trauma Nursing Core Course Instructor (TNCC-I)
- 11)Trauma Nursing Core Course Clinician (TNCC-C)





Talent Management System (TMS)



Custom Item Evaluation

Survey: RS-Musculoskeletal Clinician Training Program (EES-18.NSC.MS.TRG.MSKC.A)

Survey Mean Score 4.6

41 / 41

Total Surveys:

Date Range: 1/1/2016 - 12/31/2019

Item: Musculoskeletal Clinician (MSK C), (VA, 33865,7/5/2017 09:45 AM America/New York)

Scheduled 8

Item Mean Score 4.6 Total Surveys:

Offerings:

Pagel: Participant Satisfaction (Standard Questions)

Resource Type: None Section Mean Score 4.7

Question Mean

Question 1:

Overall, I was satisfied with this learning activity.

Score 4.7

Answer

5 - Strongly Agree

31 () 75.6%

41 / 41

3 - Neither Disagree nor Agree

1 02.4%

4 - Agree

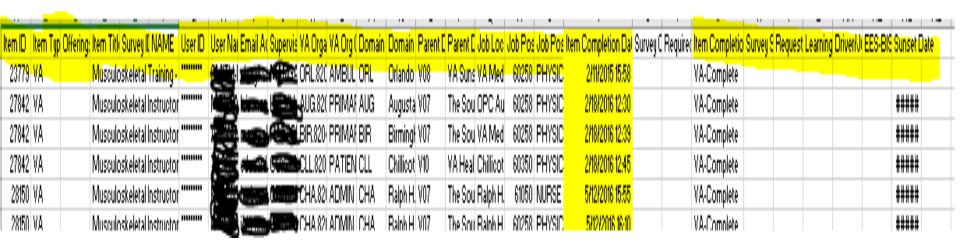
9 22%

Total Respondents: 41





SimLEARN Tracking Activity Report (STAR)



Name Email Organization Location Department Occupation Etc.





Evaluation: Rating Scale

A) NUMERICAL

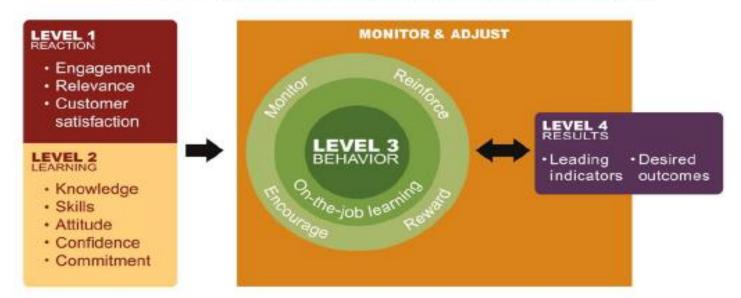
Strongly	Agree	Neither	Agree	Strongly
Disagree		Disagree nor Agree		Agree
1	2	3	4	5

B) Yes, No, N/A



Kirkpatrick Model

THE NEW WORLD KIRKPATRICK MODEL



LEVEL 1: The degree to which participants find the training favorable, engaging and REACTION relevant to their jobs LEVEL 2: The degree to which participants acquire the intended knowledge, skills, LEARNING attitude, confidence and commitment based on their participation in the training LEVEL 3: The degree to which participants apply what they learned during training when BEHAVIOR they are back on the job LEVEL 4: The degree to which targeted outcomes occur as a result of the training and the RESULTS support and accountability package



Evaluation Questions: Participant Satisfaction

- 1) Overall, I was satisfied with this learning activity.
- 2) I learned new knowledge and skills from this learning activity.
- 3) I will be able to apply the knowledge and skills learned to improve my job performance.
- 4) The scope of the learning activity was appropriate to my professional needs.
- 5) The training environment (face to face, video conference, webbased training) was effective for my learning.



Evaluation Questions: Participant Satisfaction

- 6) I would recommend this training course to others
- 7) The learning activities and / or materials were effective in helping me learn the content (i.e., handouts, assessment tools, etc.).
- 8) The content presented in a manner that was fair and unbiased.
- 9) Was the content presented in a manner that was fair and unbiased; and if not, please explain.
- 10) What about this learning activity was most useful to you?
- 11) What about this learning activity was least useful to you?



Evaluation Questions: Program Specific (examples)

- manage common musculoskeletal conditions which present to primary care, enhancing stewardship of limited resources and increasing access to appropriate care
- conduct a detailed and efficient examination of the shoulder, distinguishing between arthritis, bicipital tendonitis, adhesive capsulitis, and rotator cuff tendinopathies as per stated guidelines
- conduct a detailed and efficient examination of the knee, determining the presence of effusions, and identifying findings suggestive of meniscal tear, ligamentous injury, tendinopathy, bursitis, and patellofemoral disease as per stated guidelines
- 4) demonstrate the procedural skill on task-trainers of joint aspiration and joint and soft tissue injection to diagnose and manage these conditions appropriately





Evaluation Questions: Faculty

- 1) The instructor was effective in conveying subject matter knowledge using this learning method.
- 2) The instructor was knowledgeable about the subject.
- 3) The instructor was responsive and kept me actively engaged.
- 4) Session/Faculty Comments



STUDY RESULTS

Preliminary

- Most learners did not complete evaluation.
- Sample size consideration for statistical significance
- Pre-test is not provided for all courses.
 - Lack validity on learners' knowledge prior to course when compared to posttest
 - Pre-test and post-test questions the same, potential bias; may not accurately measure post knowledge
- Course contents challenged with several revisions over time
 - Did the revisions significantly impact learning or no impact
 - If impact is identified, correlation between revised/unrevised contents with simulation (other confounding factors-faculty, learners' prior knowledge, etc.)

TBD





THANK YOU

Nancy Wong, PhD

Office: (407) 531-6147

VA Mobile: (407) 492-7971

Personal Mobile: (786) 777-8767

Email Address: Nancy.Wong1@va.gov



