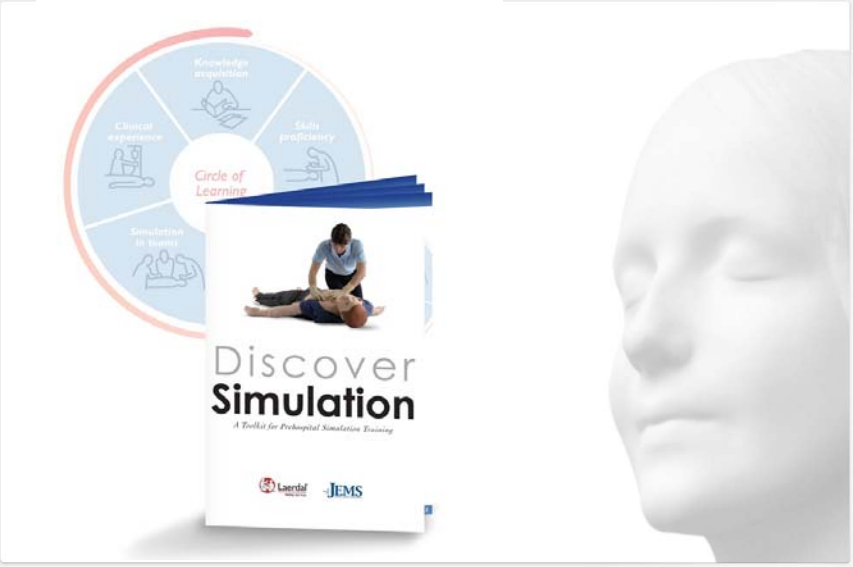
Laerdal helping save lives

Discover Simulation Webinar Slides



Tuesday, March 20, 2012

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Agenda

- Overview of Discover Simulation Toolkit
- Features that Lead to Effective Learning
- Toolkit Components
- Implementation Approach
- Support
- Q and A

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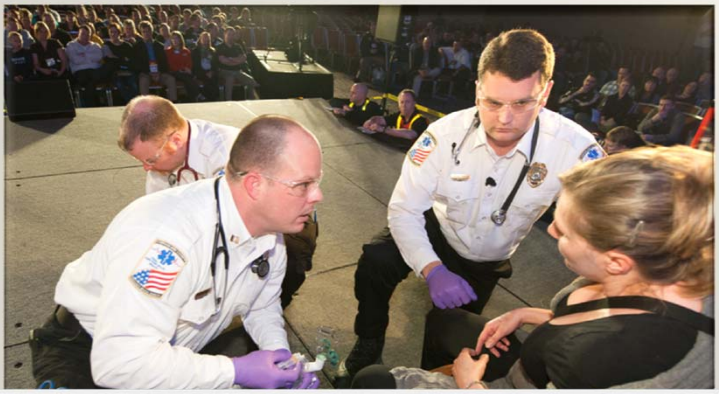
Overview



Laerdal and JEMS provide comprehensive approach to teaching using blended learning methodology

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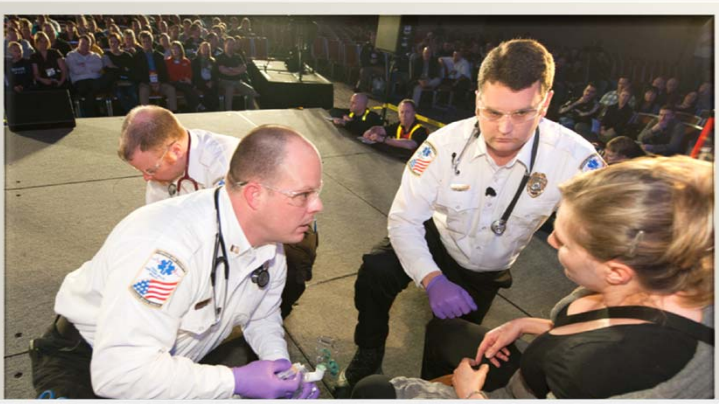
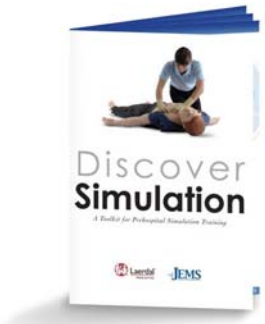
Overview

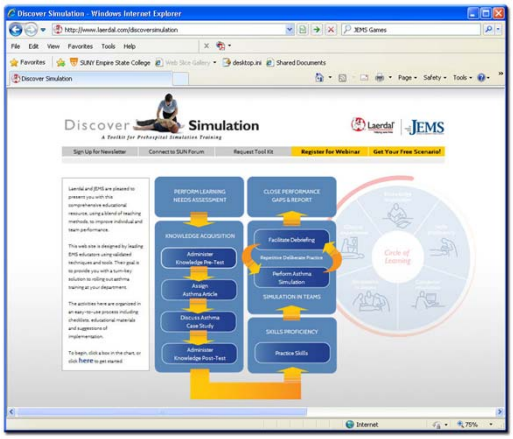


Goal: Help make simulation training easy

Overview

Turn-key education system…



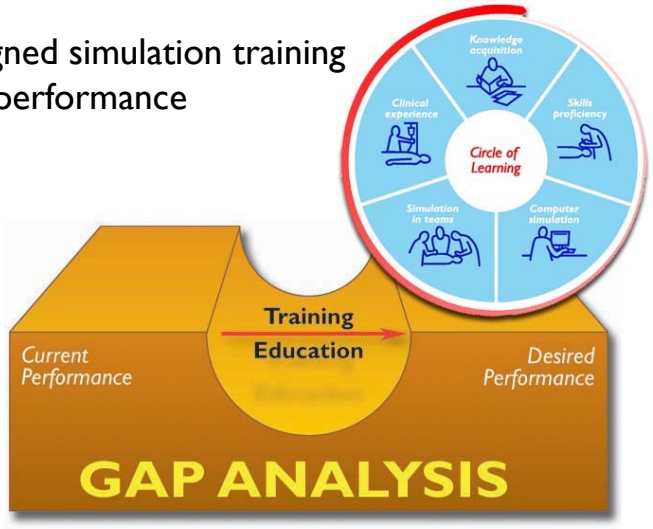


Benefits

- Relevant
- Efficient
- Total Solution
- Support

What Leads to Effective Learning?

Well-designed simulation training improves performance



What Leads to Effective Learning?

Well-designed simulation training improves performance…but how do I implement?

What Leads to Effective Learning?

Medical Teacher, Vol. 27, No. 1, 2005, pp. 10–28

Taylor & Francis

Features and uses of high-fidelity medical simulations that lead to effective learning: a BEME systematic review*

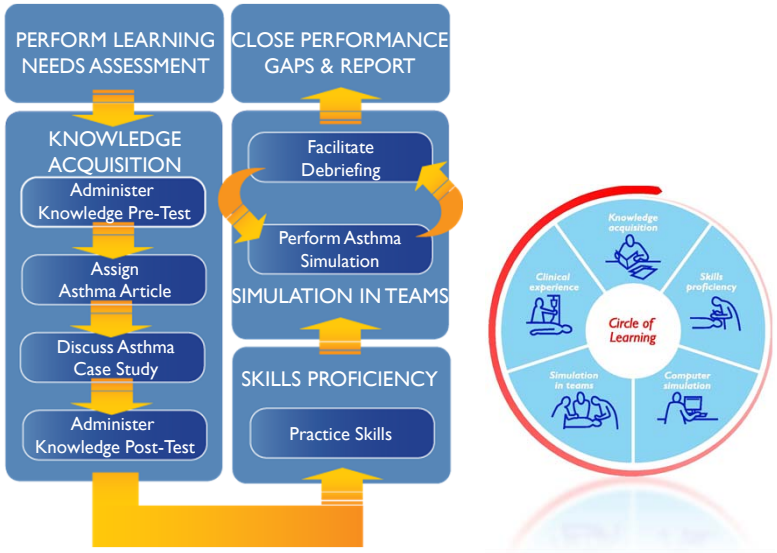
S. BARRY ISSENBERG[1], WILLIAM C. McGAGHIE[2], EMIL R. PETRUSA[3], DAVID LEE GORDON[1] & ROSS J. SCALESE[1]

[1]*Center for Research in Medical Education, University of Miami School of Medicine, USA;* [2]*Northwestern University Feinberg School of Medicine, USA;* [3]*Duke University Medical Center, USA*

Provide feedback / Repetitive practice

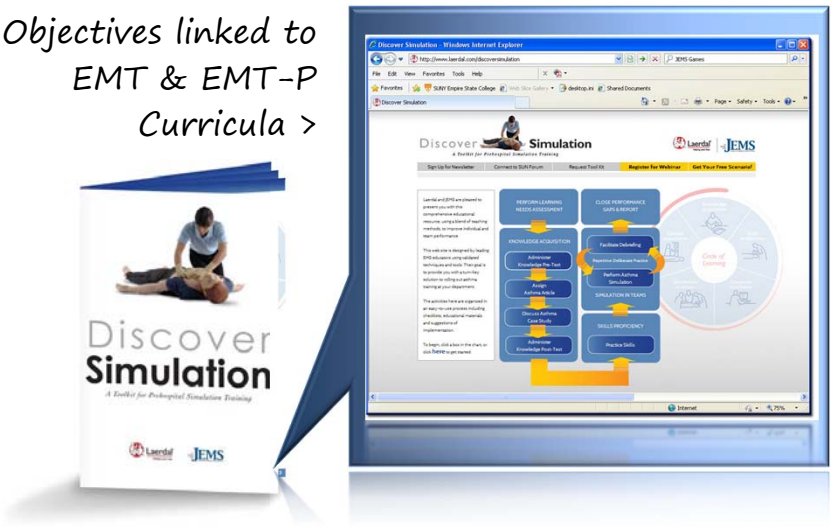
Multiple learning strategies / Controlled environment

What Leads to Effective Learning?



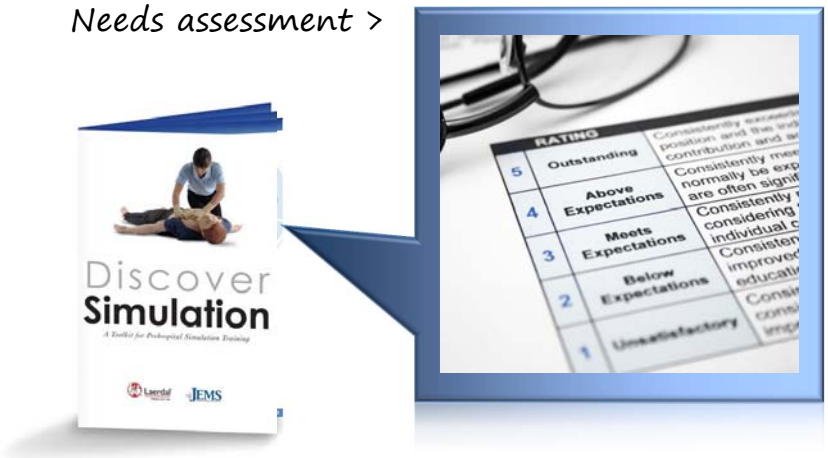
Discover Simulation Components

Objectives linked to EMT & EMT-P Curricula >



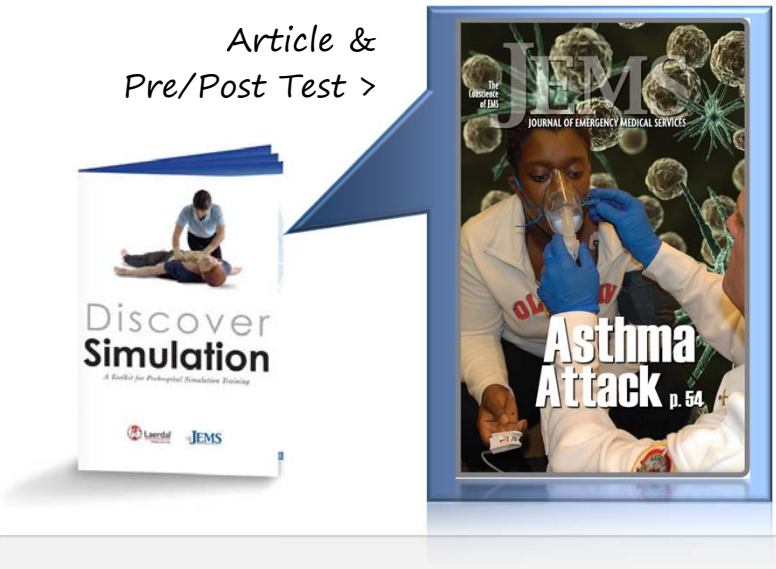
Discover Simulation Components

Needs assessment >



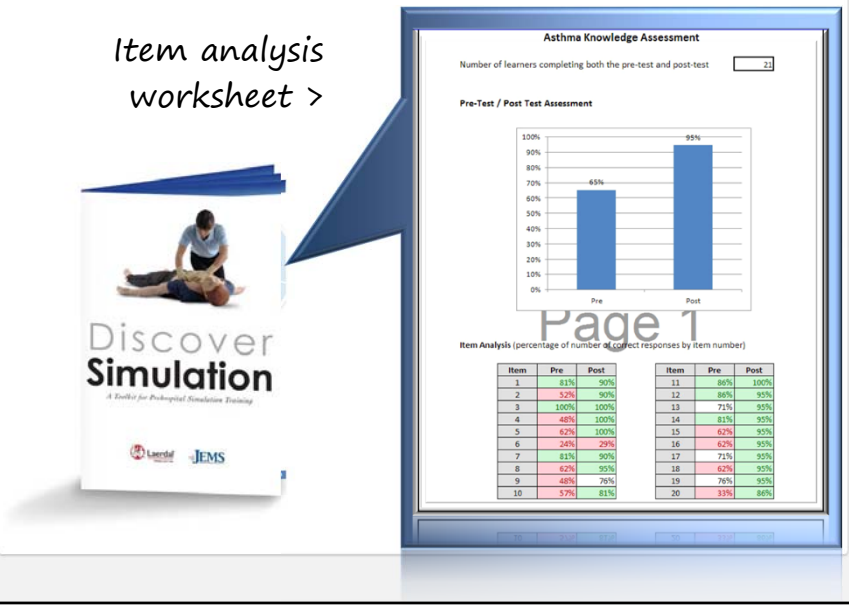
Discover Simulation Components

Article & Pre/Post Test >



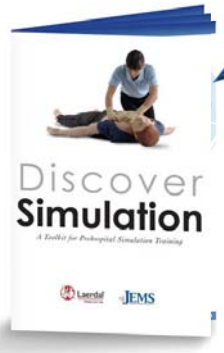
Discover Simulation Components

Item analysis worksheet >



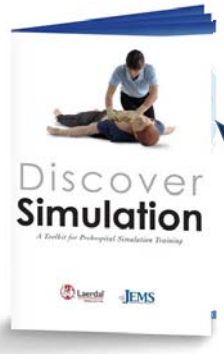
Discover Simulation Components

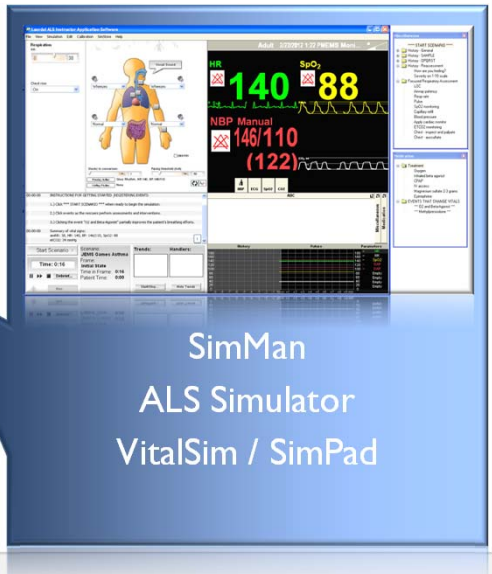
Psychomotor Skills >



Discover Simulation Components

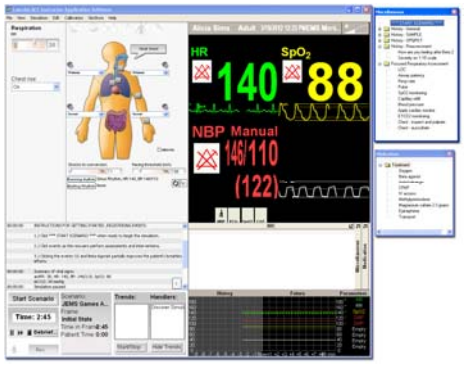
Scenario file >

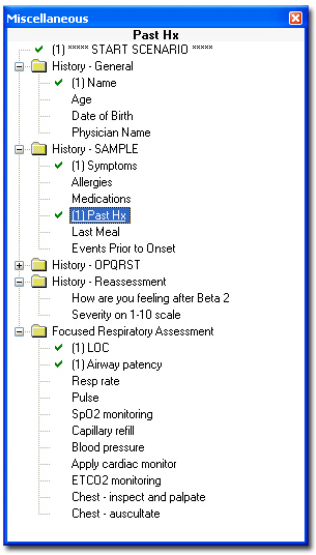




SimMan
ALS Simulator
VitalSim / SimPad

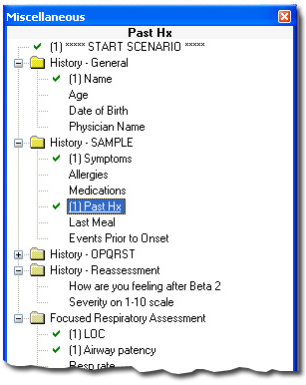
Discover Simulation Components

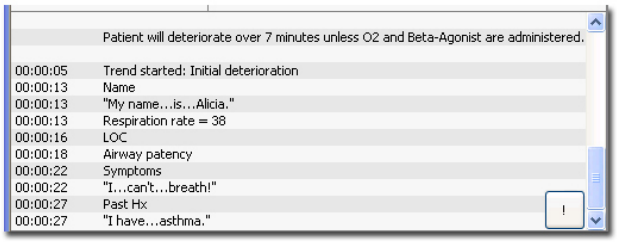


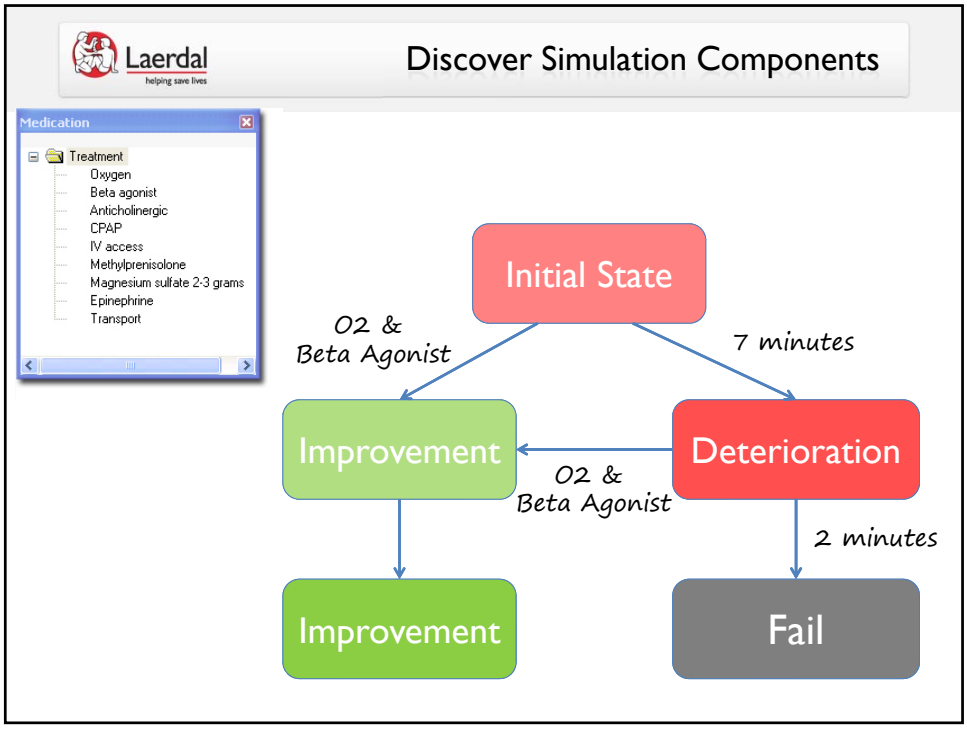


Discover Simulation Components

1. Watch learner's performance
2. Click events
3. Performance is registered in the debriefing log



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Discover Simulation Components
Medication
Treatment
Oxygen
Beta agonist
Anticholinergic
CPAP
IV access
Methylprenisolone
Magnesium sulfate 2-3 grams
Epinephrine
Transport
Initial State
O2 & Beta Agonist
7 minutes
Improvement
Deterioration
O2 & Beta Agonist
2 minutes
Improvement
Fail


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Discover Simulation Components
Prepare for Simulation >
Prepare...
1. the learners
2. the instructors
3. the simulator
4. the learning environment
Discover
Simulation
JEMS

Discover Simulation Components

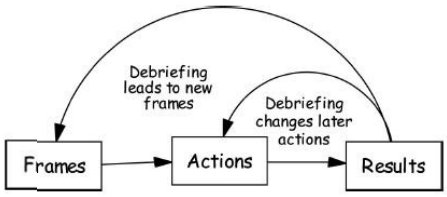
Debriefing can make or break a simulation session

Discover Simulation Components

CONCEPTS AND COMMENTARY

There's No Such Thing as "Nonjudgmental" Debriefing: A Theory and Method for Debriefing with Good Judgment

Jenny W. Rudolph, PhD; Robert Simon, EdD; Ronald L. Dufresne, MS; and Daniel B. Raemer, PhD



You can see actions, but never frames

Rudolph J, et al. There's no such thing as "nonjudgmental" debriefing" A theory and method for debriefing with good judgment. Simul Healthcare 2006;1: 49–55

Discover Simulation Components

Advocacy

- My perspective
- Use first person
- Make perspective clear
- I observed _____
- I'm concerned / pleased because _____

Inquiry

- Short, open ended questions
- "I wonder what happened…"
- I'm curious how you see it?"

Discover Simulation Components

Beginning – Reactions Phase
Allow participants to express their initial reactions (emotion OK)
Discusses facts as necessary to eliminate confusion
Avoid ridiculing or shifting right to analysis

Middle – Analysis Phase
Ask questions that prompt the learner to discuss and reflect
Listen with genuine curiosity – seek to understand their "frames"
Avoid telling the participants what to do without getting them to reflect first

End – Summary Phase
Ask participants to summarize what they learned
"what went well?"
"Given a similar situation, what would you do differently?"

Evaluate the Program

Level I	Level II	Level III	Level IV
			
Reaction	Learning	Behavior	Outcome / ROI Return on Expectations

Kirkpatrick, D.L., Evaluating Training Programs: The Four Levels. San Francisco, CA: Berret-Koehler Publishers, 1998.

Implementation

Next Actions

1. Register for follow-up webinar: April 24, 2012, 11:30 AM – 12:30 PM EST
2. Request toolkit and scenario
3. Join the Discover Simulation forum

www.laerdal.com/discoversimulation