# continued

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## continued

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### **Learning Objectives:**

- Define and apply the critical components of simulationbased education to clinical education in speech-language pathology.
- pathology.

  2. Facilitate an effective prebrief and debrief exercises with students utilizing simulation tools and technologies.
- Define, apply and facilitate simulation-based learning activities that support critical thinking, collaborative learning, and interprofessional education.

## SimuCase

### Allied Health Media

1. Simulation-Based Education: Key Terms



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Allied Health Media	
Clinical Competency:	
"The <b>habitual</b> and <b>judicious</b> use of communication,	
knowledge, technical skills, clinical reasoning, emotion,	
values, and reflection on daily practice for the benefit of	
the individual and community being served."	
The marviadar and community being served.	
(Fastein & Hundart 2000 a 200)	
(Epstein & Hundert, 2002, p.226) SimuCase	
	•
Allied Health Media	
Clinical Decision Making:	
The integrated application of knowledge, skills, and	
professional judgment to assess, diagnose and	
manage a patient.	
	-
(Kneebone, et al., 2004)	
Allied Health Media	
Allieu nealth iviedia	
Critical Thinking:	
The use of those cognitive skills or strategies that	
increase the probability of a desirable outcome. Critical	
thinking is purposeful, reasoned and goal directed.	
difficulty is purposerui, reasoned and goar directed.	
(Halpern, 2013) SimuCase	



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Problem-Based Learning:	
A <b>learner-centered</b> approach to learning where a	
<b>problem</b> is the organizing <b>focus</b> and stimulus for	
learning. Learning occurs in small groups and the	
teacher serves as a facilitator. New information is	
obtained through <b>self-direction</b> , while the <b>problem</b>	
drives <b>development</b> of clinical problem-solving skills.	
(Barrows, 1996) SimuCase	
Allied Health Media	
/ uncar rearrivedia	
Reflective Thinking:	
The <b>meta-cognitive</b> process of self-monitoring relative	
to the simulation experience to promote the <b>discovery</b>	
and future application of new knowledge. The	
reflective thinking process can potentially minimize the	
gap between theory and practice.	
(Meakim, et al., 2013) SimuCase	
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Allied Health Media	
Simulation:	
Students experience authentic, relevant scenarios and	
are confronted with different <b>problems</b> , <b>issues</b> , or	
events reflected by their previous choices and actions.	
, .	
(Gredler, 1996) SimuCase	



Allied Health Media	
Standardized Patient:	
An experience that provides student clinicians a simulated patient encounter where an <b>actor</b> is trained to	
provide consistent verbal and behavioral patient	
responses.	
(Adamo, 2003) SimuCasë	
SillidCase	
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Allied Health Media	
	-
Virtual Patient:	
An experience that reflects a realistic encounter with a	
clinical scenario portrayed on a computer requiring learner interaction and decision making.	
(Cook & Triola, 2009) SimuCase	
Allied Health Media	
References: Adamo, G. (2003). Simulated and standardized patients in OSCEs: achievements and	
challenges 19922003. <i>Medical Teacher</i> , 25(3), 262.  Barrows, H.S. (1996). Problem-based learning in medicine and beyond: A brief	
overview. New Directions for Teaching and Learning, 1996(68), 3-12. Cook, D. A., & Triola, M. M. (2009). Virtual patients: a critical literature review and proposed next steps. [Article]. Medical Education, 43(4),	
Epstein, R. M., & Hundert, E. M. (2002). Defining and assessing professional competence. JAMA: The Journal Of The American Medical Association, 287(2), 226-235.	
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SimuCase	



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References (continued):	
Gredler, M. E. (1996). Educational games and simulations: A technology in search of a (research) paradigm. In D. H. Jonassen (Ed.), Handbook of research on educational	
communications and technology (pp. 521-539). New York: MacMillian Library Reference.	
Halpern, D. (2013). Though and knowledge: An introduction to critical thinking (5th ed.)	-
New York: Psychology Press.  Kneebone, R. L., Scott, W., Darzi, A., & Horrocks, M. (2004). Simulation and clinical	
practice: strengthening the relationship. <i>Medical Education, 38</i> (10), 1095-1102.  Meakim, C., Boese, T., Decker, S., Franklin, A., Gloe, D., Lioce, L., Borum, J. (2013).	
Standards of Best Practice: Simulation. Standard I: Terminology. Clinical Simulation in Nursing, 9(6), S3-S11.	
SimuCasë	
Allied Health Media	
Additional Learning Resources:	
Wiser Minutes: Simulation Means Many Things to Many People: https://www.youtube.com/watch?v=iDHqRum2LTE	
SimuCasë	
JillidCase	
Allied Health Media	
Questions to think about	
1. How would you implement problem-based	
learning in speech-language pathology	
education? 2. How have you facilitated reflective thinking in	
your classes? What has worked well?	
	-
SimuCasë	







# SinuCase: Success with SimuCase: Top 10 Tidbits for Teaching and Learning Leigha J. Jansen, EdD, CCC-A Director, Educational Technology

	Sim	uCasë

2. The Benefits of Simulation-Based Education

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	Repeated practice
	SimuCase



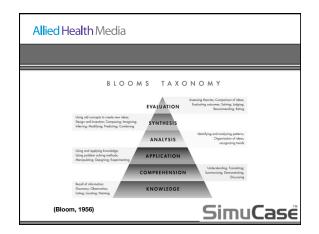
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Experience across the scope of practice	
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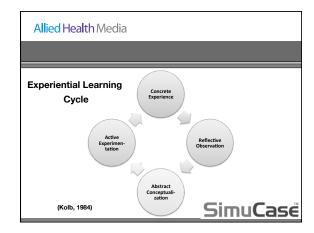


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Promotes higher level thinking
SimuCasë

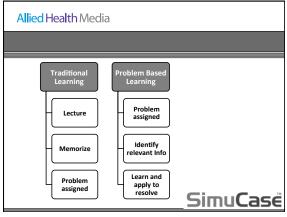


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Experi	iential learning	
	SimuCasë	





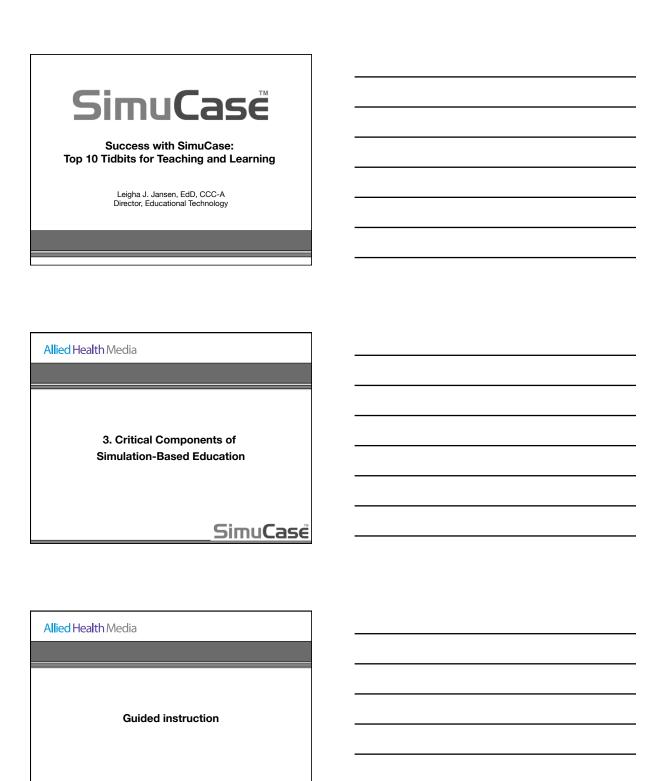
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Problem-b	pased learning
	SimuCasë





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Defenses	
References: Bloom, B.S. (1956). Taxonomy of education objectives: the classification of educational	
goals (1st ed.). New York: Longmans Green. Kolb, D.A. (1984). Experiential learning: Experience as the source of learning and	
development. Englewood Cliffs, NJ: Prentice Hall.	
Additional Learning Resources:	
McGaghie, W.C., Issenberg, S.B., Petrusa, E.R., & Scalese, R. (2010). A critical review of simulation-based medical education research: 2003-2009. Medical Education,	_
44: 50-63. Problem Based Learning at Stenden University:	
https://www.youtube.com/watch?v=-5omNEmWicU	
SimuCasë	
Allied Health Media	
Questions to think about	
1. How would you implement problem-based	
learning with SimuCase?	
2. Which benefit of simulation-based education	
would have the greatest impact upon your students/clinic? Why?	
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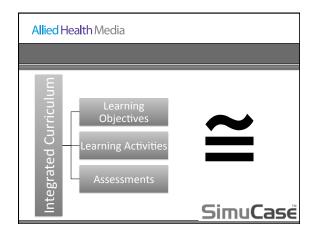


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Integrate evidence-based practice (EBP)	
SimuCase	



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	Client/Patient/Caregiver
(ASHA, 2004)	Simu <b>C</b> as€

Allied Health Media	
Aligned learning objectives, activities, and assessments.	
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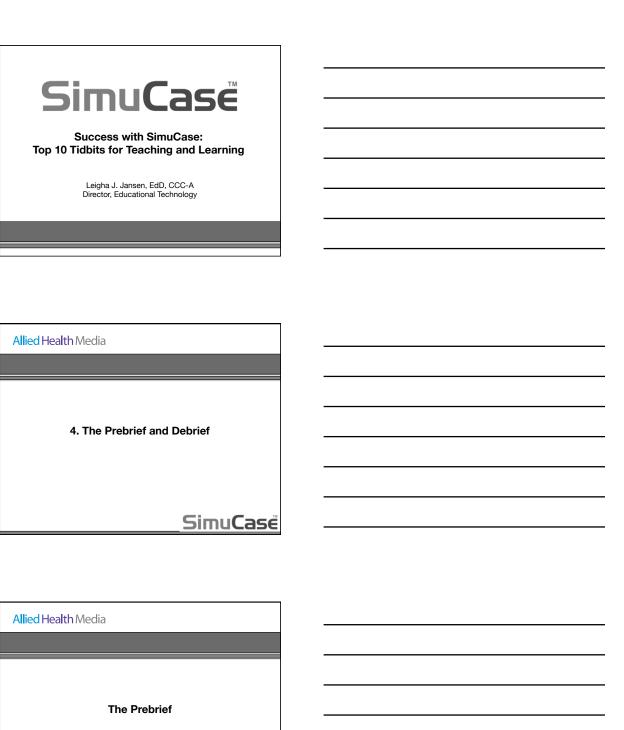


Allied Health Media	
Effective facilitation	
SimuCase	
Allied Health Media	
fa·cil·i·ta·tor	
one that facilitates; especially : one that helps to bring about an outcome (as learning,	
productivity, or communication) by providing indirect or unobtrusive assistance,	
guidance, or supervision.	
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Additional Learning Resources:  Allied Heads of Major J. (2012; Putting students on the path to learning the case for Major John Section American Educator 6+11.  More Cloud Creates:  Mitted/Inversity Agents on Compagn. Julian  Allied Health Media  Questions to think about  1. How is a facilitation the same thing as guided instruction? Why or why not?  SimuCase  SimuCase  SimuCase	All - dill - dal- AA - de-	
Allied Health Media  Questions to think about  I. How is a facilitator similar to a clinical instructor?  2. Is facilitation the same thing as guided instruction? Why or why not?	Allied Health Iviedia	
Allied Health Media  Questions to think about  I. How is a facilitator similar to a clinical instructor?  2. Is facilitation the same thing as guided instruction? Why or why not?	Additional Leaving Resources	
Clark, R.E., Krachner, P.A., & Sweller, J. (2012). Putting students on the path to learning: The case for fully guided instruction. <i>American Educator</i> , 6-11.  http://www.lagsedo.com/app.html  SimuCase  Allied Health Media  Questions to think about  1. How is a facilitator similar to a clinical instructor?  2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase  SimuCase	ASHA Evidence-Based Practice Maps:	
The case for fully guided instruction. American Educator, 6-11. http://www.dt.org/orfs/americaneducator/apring2012/Clark.pdf  Word Cloud Creator: http://www.laguedo.com/app.html  SimuCase  Allied Health Media  Questions to think about  1. How is a facilitator similar to a clinical instructor? 2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase		
Allied Health Media  Questions to think about  1. How is a facilitator similar to a clinical instructor?  2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase	The case for fully guided instruction. American Educator, 6-11.	
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Allied Health Media  Questions to think about  1. How is a facilitator similar to a clinical instructor? 2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase		
Allied Health Media  Questions to think about  1. How is a facilitator similar to a clinical instructor? 2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase		
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1. How is a facilitator similar to a clinical instructor? 2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase	Allied Health Media	
2. Is facilitation the same thing as guided instruction? Why or why not?  SimuCase	Questions to think about	
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	instruction? Why or why not?	
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Success with SimuCase: Top 10 Tidbits for Teaching and Learning		
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Allied Health Media
The Prebrief
<ul> <li>A planned activity prior to the simulation experience</li> <li>Designed to provide instructions and set learner expectations.</li> <li>Set the stage for the scenario</li> <li>Assist learners in achieving defined learning objectives.</li> </ul>
Allied Health Media
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Allied Health Media
The Debrief



### The Debrief

- · Learner-centered reflective discussion
- · Requires planned facilitation.
- · Safe, open environment
- · Promotes self-reflection and critique
- · Aligned with learning objectives



### Allied Health Media

### The Debrief

- · Three phases of the debrief
  - Reaction
  - Analysis
  - Summary



SimuCase

### Allied Health Media

### The Debrief

"Research provides evidence that the debrief is the most important component of the simulation-based learning experience."

(Decker, et al., 2013, p. S27)



Allied Health Media	
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References	
Decker, S., Fey, M., Sideras, S., Caballero, S., Rockstraw, L., Boese, T., Borum, J. (2013). Standards of Best Practice: Simulation. Standard VI: The Debriefing Process.	
Clinical Simulation in Nursing, 9(6), s26-s29.	
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Allied Health Media	
Additional Learning Resources: Cantrell, M.A. (2008). The importance of debriefing in clinical simulations. <i>Clinical</i>	
Simulation in Nursing, 4, e19-e23.	
Debriefing strategies and techniques for improved learning and process improvement. https://www.youtube.com/watch?v=P3sm-WtL98k	
Debriefing using the Advocacy-Inquiry Method (info-graphic). http://www.hserc.ualberta.ca/en/TeachingandLearning/VIPER/EducatorResources/-/	
media/hserc/Documents/VIPER/Advocacy Inquiry Method.pdf	
SimuCasë	
Jillacasc	
Allied Health Media	
Questions to think about	
How would you plan a prebrief and a debrief	
session for SimuCase?	
2. Would you change your debrief plan based on the level of your students? Why or why not? If yes,	
what would you change?	
SimuCasë	









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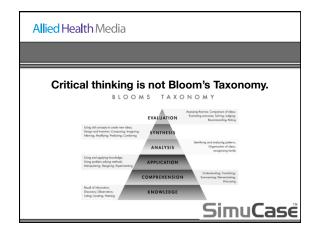
Allied Health M	edia	
	5. Critical Think	ing
		SimuCase
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"Critical thinking utilizes those cognitive skills or strategies that increase the probability of a desirable outcome."

Allied Health Media



# Critical thinking is: Purposeful Reasoned Goal-directed (Halpern, 1998, p. 450)







### Halpern 4-step Model:

- 1. Explicitly learn the skills of critical thinking
- Develop the disposition for effortful thinking and learning
- Direct learning activities in ways that increase the probability of contextual transfer.
- 4. Make metacognitive monitoring explicit and overt.

(Halpern, 2013, p. 18)



# Allied Health Media Translate, please? SimuCase

### Allied Health Media

### Think of it this way ...

- 1. Develop a critical thinking attitude
- 2. Critical thinking skills training
- 3. Critical thinking in NEW contexts
- 4. Metacognition

(University of Texas, n.d.)



Allied Health Media			
Developing a Critical Critical Thinking Attitude Skills Train		Metacognition	
Property Contention Co	y Solutions Ethios	Refection  Feedback	Teacher to Teacher: Critical Thinking in the Classroom (University of Texas)  • FREE!  • Modular based, online learning  • Based on the Halpern model
Discussion Synthesis Willing	Case Studies	Learning Portfolios	SimuCase

### References

Halpern, D.F. (1998). Teaching critical thinking for transfer across the domains: Disposition, skills, structure training, and metacognitive monitoring. *American Psychologist*, 53(4), 449-455.

Halpern, D.F. (2013). Thought and Knowledge: An Introduction to Critical Thinking (5th ed.). New York: Psychology Press.

University of Texas (n.d.). Teacher to teacher: Critical thinking in the classroom. Retrieved July 2, 2014.

### Additional Learning Resources:

Teacher to Teacher: Critical Thinking in the Classroom (University of Texas) http://www.utexas.edu/academic/ctl/criticalthinking/accessible.php?section=1



### Allied Health Media

Questions to think about ...

- 1. How does Bloom's taxonomy contribute to critical thinking when considering the Halpern model?
- 2. How would you apply the Halpern model in one of your own SLP courses with SimuCase?









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Allied Health Media		
6. Collaborative Learning		

SimuCase

### Allied Health Media

"Collaborative learning occurs when students and faculty work together to create knowledge ... It is a pedagogy that has at its center the assumption that people make meaning together and that process enriches and enlarges them."

(Matthews, 1996, p. 101)



### Collaborative activities are defined by four characteristics:

- 1. Learner centered
- 2. Experiential
- 3. Social learning
- 4. Realistic scenarios



(Cornell University, 2014)

### Allied Health Media

### **Collaborative Learning Outcomes:**

- 1. Development of higher-level thinking skills
- 2. Promotion of student-faculty interaction
- 3. Increased retention
- 4. Exposure to and understanding of diverse perspectives
- 5. Preparation for real life employment situations

(Cornell University, 2014)

# SimuCase

### Allied Health Media





Allied Health Media
Work the case in small groups (2-3) and present
the evidence-based rationale for clinical
decisions.
2. Work the case in small groups (2-3) and debrief
with the full class.  3. Compete!
Work the case as a class. Write – Pair – Share
(Cornell University, 2014)
Allied Health Media
Allied Health Media
References Cornell University Center for Teaching Excellence (2014). Collaborative Learning: Group
Work. Retrieved July 3, 2014.  Matthews, R. (1996). Learning Communities: A Retention Strategy that Serves Students
and Faculty. Washington, DC: American Association of State Colleges and Universities.
Additional Learning Resources:
Barkley, E.F., Cross, K.P., & Major, C.H. (2014). Collaborative Learning Techniques: A Handbook for College Faculty (5th ed.). San Francisco, CA: Jossey-Bass.
Collaborative Learning Activities (University of Manitoba Teaching Services) http://intranet.umanitoba.ca/academic_support/catl/media/collaborative.pdf
SimuCasë
Allied Health Media
Questions to think about
How would you implement SimuCase as a
collaborative learning activity with undergraduate
CDIS students compared to graduate SLP
students?









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Allied Health Media
7. Interprofessional Education
SimuCase

"When students from two or more professions learn about, from and with each other to enable effective collaboration and improve health outcomes"

(WHO, 2010)



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IP Collaborative Practice Competency Domains	
Values/Ethics for Interprofessional Practice	
2. Roles/Responsibilities	
3. Interprofessional Communication	
4. Teams and Teamwork	
(IPE Collaborative Expert Panel, 2011)	
(IPE Collaborative Expert Panel, 2011)  SimuCase	
Allied Health Media	
Ailled Fleati Tivledia	
#TI	
"These issues are resulting in innovations in clinical education and new ways to work	
together through an increased use of technology	
(e.g., simulations, Web-based learning/e-health practices) to foster the exchange, synthesis,	
and ethically sound application of knowledge."	



(ASHA, 2008)

Alli	i <mark>ed Health</mark> Media	
	Medical  Dental Professional  Pedatrician	₫ COLLABORATORS
	Allied Professions  Art Therapiat  Art Therapiat  Art Private OT Private PT Private :	Simu <b>Cas</b> ë

### **Interprofessional Education Activities**

- Roles and responsibilities
  - Define
  - · Compare and contrast
- Report writing
  - Audience
  - "The 3 C's"
- Case coordination
  - Future care and IP collaboration



### Allied Health Media

### References

American Speech-Language Hearing Association (2008). Why is greater emphasis being placed on interprofessional education in healthcare? What impact will it have on the education of audiologists and speech-language pathologists? Access Academics and Research, June, 2008.

Interprofessional Education Collaborative Expert Panel (2011). Core competencies for interprofessional collaborative practice: Report of an expert panel. Washington, D.C.: Interprofessional Education Collaborative

World Health Organization (WHO) (2010). Framework for action on interprofessional education & collaborative practice. Geneva: World Health Organization.



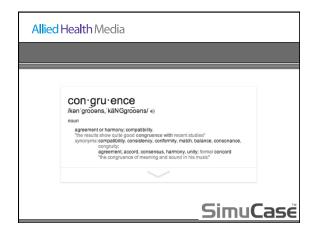
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Additional Learning Resources:	
IPE Teaching Materials (Office of IPE Health Education and Research, University of Western Ontario):	
http://www.ipe.uwo.ca/Administration/teaching.html  Interprofessional Education: What is it and Why do we do it? (University of Arizona):	
https://www.youtube.com/watch?v=Q-83eDYIFP4	
National Center for Interprofessional Practice and Education Resource Exchange: https://nexusipe.org/resource-exchange	
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Questions to think about	
1. Can you identify the four core IP competencies in	
your current teaching practices? If not, how would you integrate these competencies?	
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Success with SimuCase:	
Top 10 Tidbits for Teaching and Learning	



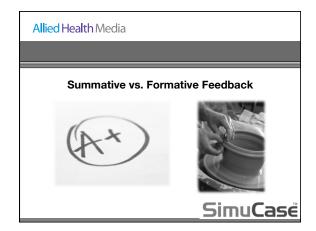


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Allied Health Media
8. SimuCase Learning and Assessment Modes
SimuCasë









Al	llied Health Media
	Learning Mode
1. 8	Specific, real-time feedback to the learner
2. F	Reward positive decisions
3. F	Redirect poor decisions
4. F	Resources for help
5. P	Provide practice
	SimuCasë











Allied Health Media	
Assessment Mode	
Alignment of learning objectives, learning activities	
and assessment	
<ul><li>2. Does NOT provide specific, real-time feedback</li><li>3. Assess learning and performance</li></ul>	
of Added learning and performance	
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Additional Learning Resources:	
Radak, C. (2012). Formative and summative feedback and its impact on learner motivation.	
http://blogs.nd.edu/kaneb/2012/09/24/formative-and-summative-feedback-and-its-impact-on-learner-motivation/	
inpact on barrot montacts.	
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## Allied Health Media

## Questions to think about ...

- 1. Would you demonstrate SimuCase to your students in learning or assessment mode? Why?
- 2. Provide an example of congruence between a learning objective, a learning activity and assessment, and incorporate SimuCase.

SimuCase

## SimuCase

Success with SimuCase:
Top 10 Tidbits for Teaching and Learning

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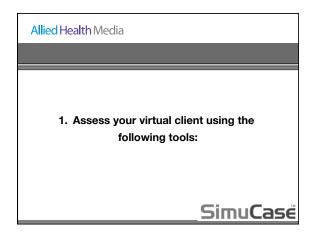
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9. SimuCase Quick Guide

SimuCase









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2. The interactive clipboard saves all decisions for review

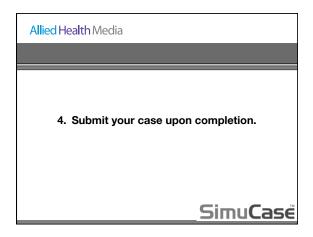














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Questions?	
Call 800-242-5183	
Email help@simucase.com	
SimuCasë	





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10. Curriculum Integration

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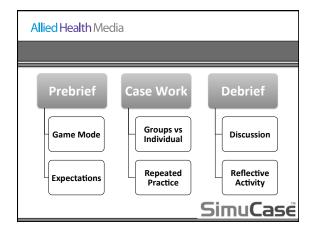
	Review course goals
	Review course goals
3. AA 4.	and objectives Review SimuCase Choose instructional methods Plan for feedback Evaluate outcomes SimuCase







Allied Health Media	
	Review course goals     and objectives     Review SimuCase
	3. Choose instructional methods
	4. Plan for feedback
	5. Evaluate outcomes
	SimuCase



Allied Health Media	
	1. Review course goals and objectives 2. Review SimuCase 3. Choose instructional methods 4. Plan for feedback 5. Evaluate outcomes  SimuCase



Allied Health Media	
1. Review course goals	
and objectives	
2. Review SimuCase 3. Choose instructional	
methods	
4. Plan for feedback 5. Evaluate outcomes	
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Additional Learning Resources: Olson, S.K. (n.d.). Debriefing: From Basic to Advanced.	
http://www.med.wisc.edu/files/smph/docs/clinical_simulation_program/simulation_ debriefing.pdf	
Metola, M., Device, L., Chung, H., Sullivan, J., & Issenberg, S.B. (2013). Simulation in healthcare education: A best evidence practical guide. AMEE guide No. 82. <i>Medical</i>	
Teacher, 35, e1511-e1530. http://informahealthcare.com/doi/pdfplus/10.3109/0142159X.2013.818632	
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Allied Health Media	
Questions to think about	
How would you plan simulation based education	
curriculum integration for graduate students versus undergraduate students?	
2. Using a course you have taught, design a	



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simulation integration plan.



