

# Enhancing Learning Through Understanding Your Medical Learner.

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## Published In/Presented At

Valavanis, K. C., Brohm, V. (2017, May 01). *Enhancing Learning Through Understanding Your Medical Learner*. Presentation Presented at: [Faculty Focus Week](#), Lehigh Valley Health Network, Allentown, PA.

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# ENHANCING LEARNING THROUGH UNDERSTANDING YOUR MEDICAL LEARNER

May 01, 2017

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# DISCLOSURE STATEMENTS

- Katerina Valavanis, MD
- Veronica Brohm, DO

Nothing to Disclose

Nothing to Disclose



# OBJECTIVES

- To identify barriers to learning
- To understand how life stage, professional development, learning stage, and metacognitive knowledge are all utilized in developmental learning
- To identify fixed versus growth mindsets

# BARRIERS TO LEARNING



# BARRIERS TO LEARNING

- Time constraints
- Preceptor is being pulled in multiple directions
- Clinical setting is not always comfortable environment for learning
- Issues with feedback
- Other learners present
- External stressors / overwhelmed
- Patients too sick or unwilling to participate in a teaching encounter
- Do not always see outcome of visit or hospitalization
- Clinical content does not always match curriculum content
- Personality – teacher / learner
- Preceptor unaware of learner's knowledge or interest
- Competing personal or professional priorities
- Difficulty with knowledge base / application of knowledge



# BARRIERS TO LEARNING



# UNDERSTANDING OUR LEARNER





# UNDERSTANDING OUR LEARNER

<b>Life Stage</b>	<b>Learning Stage</b>
<b>Metacognitive Knowledge</b>	<b>Professional Development</b>

# UNDERSTANDING OUR LEARNER

<b>Life Stage</b>	<b>Learning Stage</b>
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# LIFE STAGE

- Your learner's story
- Competing priorities
- Prior work/education and life events
- Experiences impact perspectives

# UNDERSTANDING OUR LEARNER

<b>Life Stage</b>	<b>Learning Stage</b>
<b>Metacognitive Knowledge</b>	<b>Professional Development</b>

# LEARNING STAGE

Stage	Context	Emotional Attachment	Confidence	Time Management
Novice	Removed	Low	Low	Slow
Advanced Beginner	Starting to recognize	Low	Too high	Faster but gaps
Competent	Understanding	Present and overwhelming; exhausted	Low	Slower – choices are frightening
Proficient	Fully understands	Present	Higher	Slow – still developing
Expert	Fully understands	Present	Appropriate; has intuition	Faster and appropriate

The Five Stage Model of Adult Skill Acquisition



# UNDERSTANDING OUR LEARNER

<b>Life Stage</b>	<b>Learning Stage</b>
<b>Metacognitive Knowledge</b>	<b>Professional Development</b>

# METACOGNITIVE KNOWLEDGE

- Awareness, understanding, and regulation of one's own thought processes
  - Develop skills to plan, monitor, evaluate one's learning
  - Adapt to change and uncertainty in clinical setting
  - Identify personal goals, self-monitor, choose behaviors, and self-assess
- We help our students by thinking out loud and asking them to describe their thinking processes to us

# UNDERSTANDING OUR LEARNER

<b>Life Stage</b>	<b>Learning Stage</b>
<b>Metacognitive Knowledge</b>	<b>Professional Development</b>

# PROFESSIONAL DEVELOPMENT

- Continuing development of knowledge, skills, and attitudes while developing a professional identity in one's medical career
- Includes professionalism
- Encompasses life stage, learning stage, metacognitive knowledge
  
- Understanding your students' professional goals
- Give direct feedback

# UNDERSTANDING OUR LEARNER

## FIXED VS GROWTH MINDSET

- Applies across each concept
- Preceptor response is key
  - help re-frame
  - encourage continued growth

<b>Life Stage</b>	<b>Learning Stage</b>
<b>Metacognitive Knowledge</b>	<b>Professional Development</b>



# UNDERSTANDING OUR LEARNER



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- **Difficulty** with knowledge base / **application of knowledge**

# UNDERSTANDING OUR LEARNER

<b>Life Stage</b> Difficulty with application of knowledge	<b>Learning Stage</b> Difficulty with application of knowledge
<b>Metacognitive Knowledge</b> Tools for assessing student's application of knowledge	<b>Professional Development</b> Tools for application of knowledge

**FIXED OR GROWTH MINDSET?**

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# UNDERSTANDING OUR LEARNER

<p><b>Life Stage</b></p> <p>Cannot see connection curriculum-clinical content</p>	<p><b>Learning Stage</b></p> <p>Cannot see connection: curriculum-clinical content</p>
<p><b>Metacognitive Knowledge</b></p> <p>Can we help the learner see connection curriculum – clinical content</p>	<p><b>Professional Development</b></p> <p>Can we help learner see connection curriculum – clinical content</p>

**FIXED OR GROWTH MINDSET?**



# BARRIERS TO LEARNING

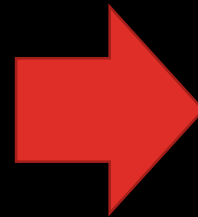
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# UNDERSTANDING OUR LEARNER

<b>Life Stage</b> Stressed/overwhelmed	<b>Learning Stage</b> Stressed/overwhelmed
<b>Metacognitive Knowledge</b> Stressed/overwhelmed	<b>Professional Development</b> Stressed/overwhelmed

**FIXED OR GROWTH MINDSET?**

# UNDERSTANDING OUR LEARNER



<b>Life Stage</b>	<b>Learning Stage</b>
<b>Metacognitive Knowledge</b>	<b>Professional Development</b>

FIXED VS GROWTH MINDSET

# UNDERSTANDING YOUR LEARNER



**ROAD OPEN**



**THANK YOU!**



# THANK YOU!

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