

Engaging All Learning Styles:

Using Learning Theory To Improve Teaching

Ken Peterson, PhD, FNP-BC

Nicole Cerda, MSN-Ed, RN



Objectives

- Define (4) major learning theories and (5) modalities for learning styles
- Apply learning theory and styles to specific clinical situations
- Describe 2-3 strategies and skills to accommodate and overcome barriers to learning

Discussion

- Why would/should we look at learning theory?
- What do you know about learning theory - or how knowledge is built?



Discussion

What methods do you use to engage learners?

- How do you decide what to use?

- What strategies have you used or seen recently to engage learners?

Deep Versus Surface Learning

Surface learning is a tenuous understanding

The learner:

- Focuses on discrete bits of information
- Memorizes, but cannot explain concepts
- Has difficulty ordering material into an organized presentation (or re-ordering it)
- Has difficulty using the information in new ways

Deep Versus Surface Learning

Deep learning is real understanding; the learner “owns” the material.



The learner can:

Explain the
information

Focus on what is
important

Relate the concepts
to previous
knowledge

Organize the content
in meaningful ways

Use the information
in new ways

Learning Theory Brief

Theory

1. Behaviorism
2. Constructivism
3. Social learning
4. Socio-cultural learning

“Learning”

1. Demonstrated change in behavior
2. Integration of new knowledge into what is know
3. Learn by imitating a model behavior
4. Participating in a specific culture in the “correct” way



Summary

Learning theories include concepts of:

- Behavior acquisition through stimulus/response

- Observation and modeling the behaviors of others

- Acquisition and meaningful use of the professional language

- Active integration of new knowledge with old



Adult Learning Theory

Principles for Educating and
Learning

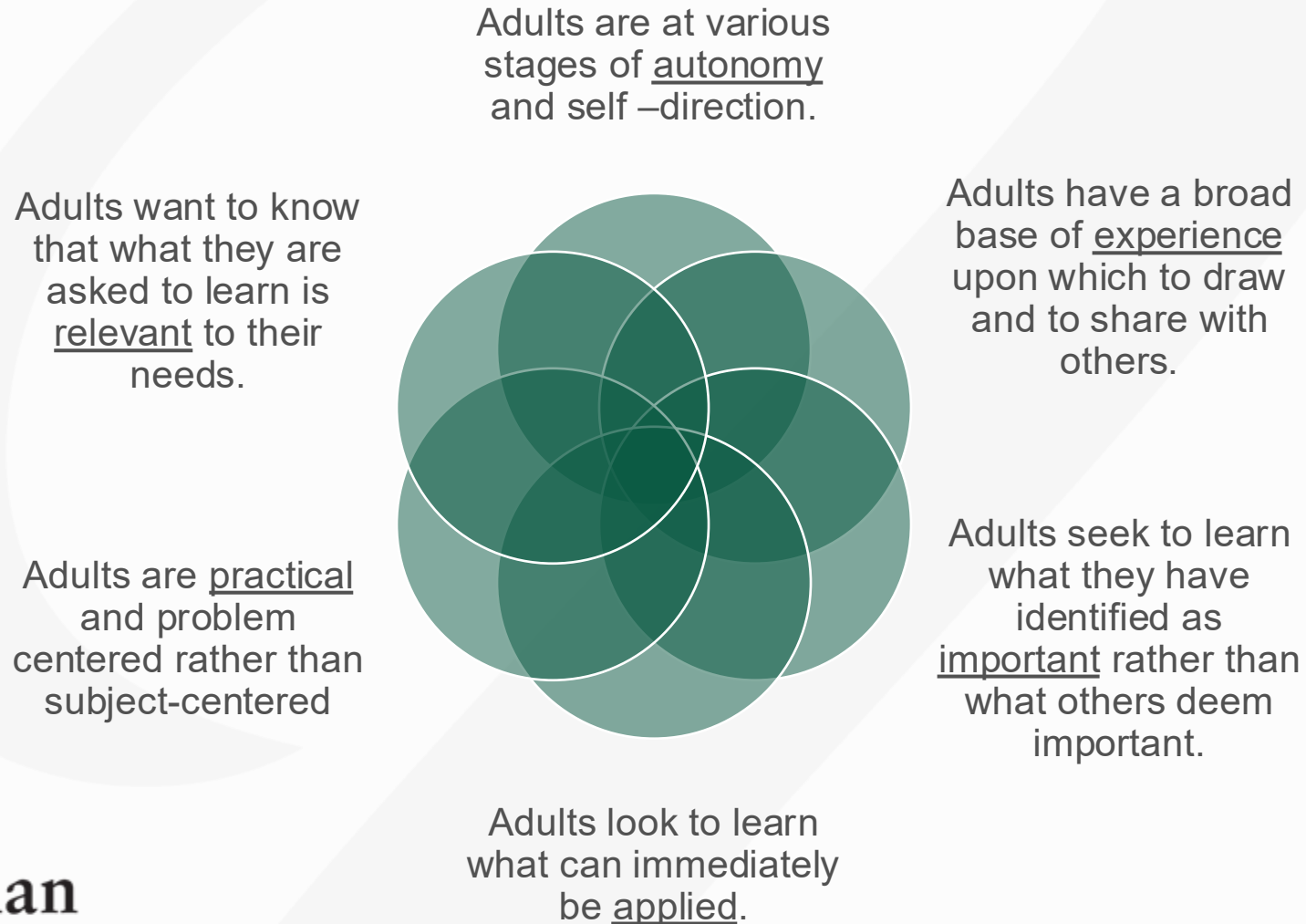
Adults and Learning

We're all adults – how do you learn best?

What techniques or methods support your learning?

Inhibit your learning?

Characteristics of Adult Learners



**KNOWLEDGE
IS POWER**



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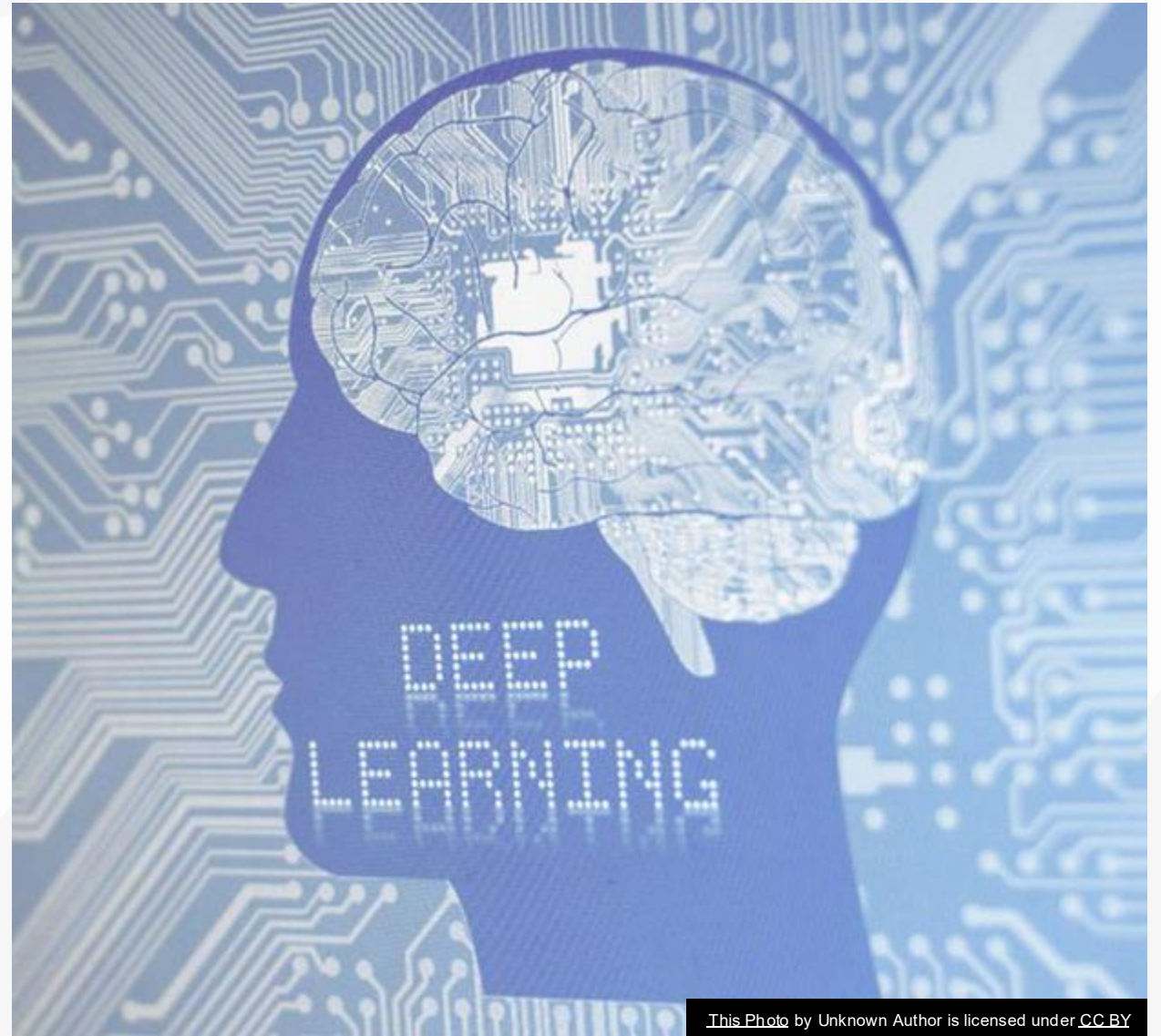
Implications for Teaching

Adults look to learn what can immediately be applied.

As clinical teachers, you have a real advantage here - how can/do you do this?

Summary

1. Learners come with **prior knowledge**
2. Prior knowledge must be **activated** for the connections to happen
3. Learners must **actively construct** new meaning/knowledge
4. Deep learning takes **time**
5. Motivation has a **strong impact** on learning



Pause Procedure

- What was the muddiest or least clear point so far?
- Reflect on your own learning: how could this presentation be altered to improve?

Facilitating Learning

Learning Styles and Strategies

Learning Styles

- Learning theories provide an explanation for how different adults can learn differently and propose different definitions of what learning *is*
- Learning *styles*, however, refer to methods of teaching that align with learners' preferences
 - Though research shows that **all learners** benefit from varying “entry modes” into learning (Kaplan, 2013)

Learning Styles

Input mode: Visual, Auditory or Kinesthetic

Motivation: Extrinsic to Intrinsic

Content: Practical to Conceptual

Social Context: Independent to Interpersonal

Plan: Strategic to Spontaneous

Implications for Teaching

Acknowledge the usefulness of different styles

Help your learner identify his/her preferences

Accommodate your learner when appropriate

Varying the way that you teach will also make you a more flexible teacher

This is relevant for teaching patients as well



What if they don't get it?

Sometimes we encounter barriers to effective teaching

- Teachback
- Active reflection – you and learner
- Application
- GNOME (as a form of assessment)



Practice

Read each case.

On your own, strategize methods or modalities for engaging learners in the scenarios.

Share and discuss with shoulder partners.

Case: Physical/HT Assessment

- You have been tasked with teaching new learners how to conduct a comprehensive physical/head to toe assessment.
- Pick three learning styles and discuss how to incorporate them into your teaching plan for this skill.

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Case: Orientation Redesign

- You've been asked to redesign your clinical site's orientation for new learners. The current approach is a printed packet detailing elements like parking, lockers, the layout of the clinic, etc.
- Discuss three impactful changes that can be made.

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Case: Something isn't Clicking

- You have asked your student to see one of your patients with poorly controlled diabetes and hypertension.
- You **review** the patient's history and **discuss** potential treatment strategies. The learner doesn't say much and after seeing the patient says they are motivated to make changes in their exercise regimen.
- While this is great, the patient's A1C today was 13.1%, and you feel you need to start insulin. The learner hadn't considered this.
- What are possible ways to engage and teach this learner?

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