# Shaping Clinicians beyond the Textbook: An Interactive, Novel Format For Case-Based Learning

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## Background

- Case-based learning (CBL) is widely used in medical programs with 31% of Physician Assistant (PA) programs using CBL as the primary mode of teaching clinical decision-making.<sup>3</sup>
- To bridge learning gaps identified in the novel Colorado Curriculum at the University of Colorado Child Health Associate/Physician Assistant (CHA/PA) Program, a case development team was tasked with creating a standardized case format to be utilized across the curriculum.

<u>Summer</u>	Heme/IIM	<u>GGR</u>	CVP	Fall CAPE Cases	Derm/HEENT	MSK/Neuro	Endo/Repro	Psych 5
	Practice Taking a Focused Histo	ry						Psychosocial history
Intro to History Taking								
	Practice Communication - inclu	ıding verbal an	d nonverbal skills					
Intro to Comm Skills								
Intro to Documentation	Practice SOAP note documentation							
	Practice Basic Lab Interpretation	n (when to ord	ler; identifiying normal/abr	ormal/critical findings)				
Intro to Basic Lab Interpretation								
	Intro to Oral Presentations and practice							
	Use of Diagnostic Imaging (when to order; recognizing normal/abnormal/critical findings)							
Intro to Radiology								
	Practice Physical Exam (via organ specific checklists)							
Intro to Physical Exam								
Intro to Clinical Reasoning/Assessment		Practice deve	lopment of Differential Dia	gnosis/Clinical Decision I	Making			

Timeline showing Colorado Curriculum blocks as they intersect with developmental milestones and introduction of new skills during case time.

#### **Novel PPOR Case Format**

- This novel case format is called Patient, Provider, Observer, Reporter (PPOR) and it utilizes role-playing with designated tasks for each role to achieve integration and practice of clinical concepts and skills spanning the curriculum.
- Cases are tied to the program's developmental competencies and milestones, ensuring learners are practicing skills appropriate for their level of knowledge.
- This novel approach is modifiable for any health professions program and can also be used in a virtual setting.
- The format also includes a standardized yet adaptable debrief PowerPoint, to guide case time with learners during their didactic training.

### **Future Plans**

- The PPOR format and developmental timeline was introduced in the 2021-2022 academic year.
- In the 2022-2023 academic year, the team plans to explain the PPOR format and developmental timeline to learners at the start of the program to encourage their investment in the format.
- In future years, the team plans to query learners about this format, and assess the success of implementation on learners' performance in standardized assessments.

#### References

- Case-Based Learning and its Application in Medical and Health-Care Fields: A Review of Worldwide Literature - doi: 10.4137/JMECD.S20377
- 2. iCBLS: An Interactive Case-Based Learning System for Medical Education <a href="https://doi.org/10.1016/j.ijmedinf.2017.11.004">https://doi.org/10.1016/j.ijmedinf.2017.11.004</a>
- 3. The Association Between Deep Learning Approach and Case-Based Learning <a href="https://doi.org/10.1186/s12909-019-1516-z">https://doi.org/10.1186/s12909-019-1516-z</a>

