



Preparing the Next Generation of Health Professionals: Advancing Competency-Based Education and Assessment

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American Board of Pediatrics

The Warren Alpert Medical School of Brown University
Symposium for Medical Education, Innovation, Equity, and Well-being
March 4, 2025

A young woman with red hair and freckles, wearing a white lab coat over a light blue collared shirt and a dark tie. She has clear safety goggles perched on her head. She is looking directly at the camera with a neutral expression. In the background, several other people in white lab coats are visible, but they are out of focus. The setting appears to be a laboratory or a classroom.

No disclosures

Overview

Describe the 5 core components of Competency-Based Education (CBE)

Discuss how CBE can be a driver for equity in education and assessment

Review how each individual involved in education and assessment can advance competency-based education and assessment


The American Board of Pediatrics

OUR VISION

Advancing the
health of all children.



The CBE journey began many years
(decades...) ago



CBE is Patient-Focused and Learner-Centered



Feb 09 - Feb 11

2025

Sun - Tue

[EVENT REGISTRATION](#) >

[2025 PROGRAM](#) >

[LIST OF PARTICIPANTS](#) >

Event Information

- Location
- Hotels
- Transportation
- Restaurants
- Airports
- Organizing Committee

Event



Forum 2025 Stanford

Building the Future of CBE

Core
Compo
of CBE

Defining the Outcomes
Many specialties and disciplines have come together to define their outcomes using the EPA framework



Defining the Outcomes Framework – Entrustable Professional Activities (EPAs) *(for pediatrics, also known as Everyday Pediatrician Activities)*

Outcomes
competency
framework

- Activities that **patients need**
- Expectations/outcomes for a specialty
- Integrate many different competencies
- Guide for *both* curriculum and assessment



A Non-Medical Example of an EPA

Competencies and Milestones

EPA

Can they control the steering wheel?

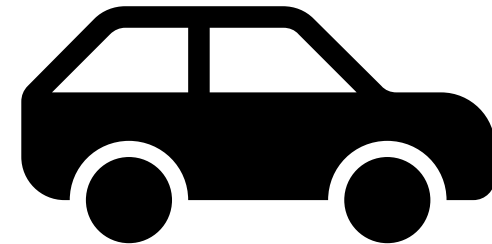
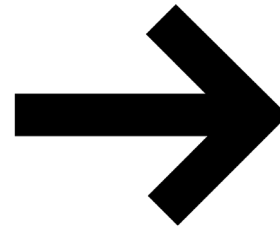


Can they use the gas pedal?

Are they able to maneuver road changes?



Can they use the turn signals?



Can they safely drive a car?



A Non-Medical Example of an EPA

Competencies and Milestones

Can they control the steering wheel?



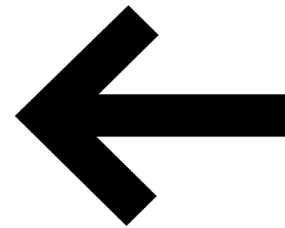
Are they able to maneuver road changes?



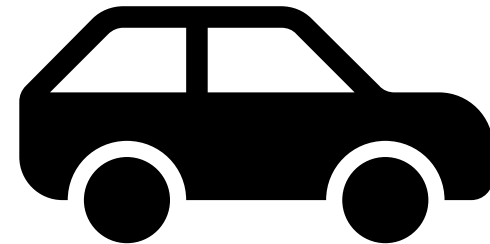
Can they use the gas pedal?



Can they use the turn signals?



EPA



Can they safely drive a car?

Examples of Outcomes Frameworks

Outcomes

Sample General Pediatrics EPAs

- Care for the Newborn
- Manage Common Pediatric Problems
- Manage Behavioral Health Problems
- Population Health Improvement

Sample Family Medicine Outcomes

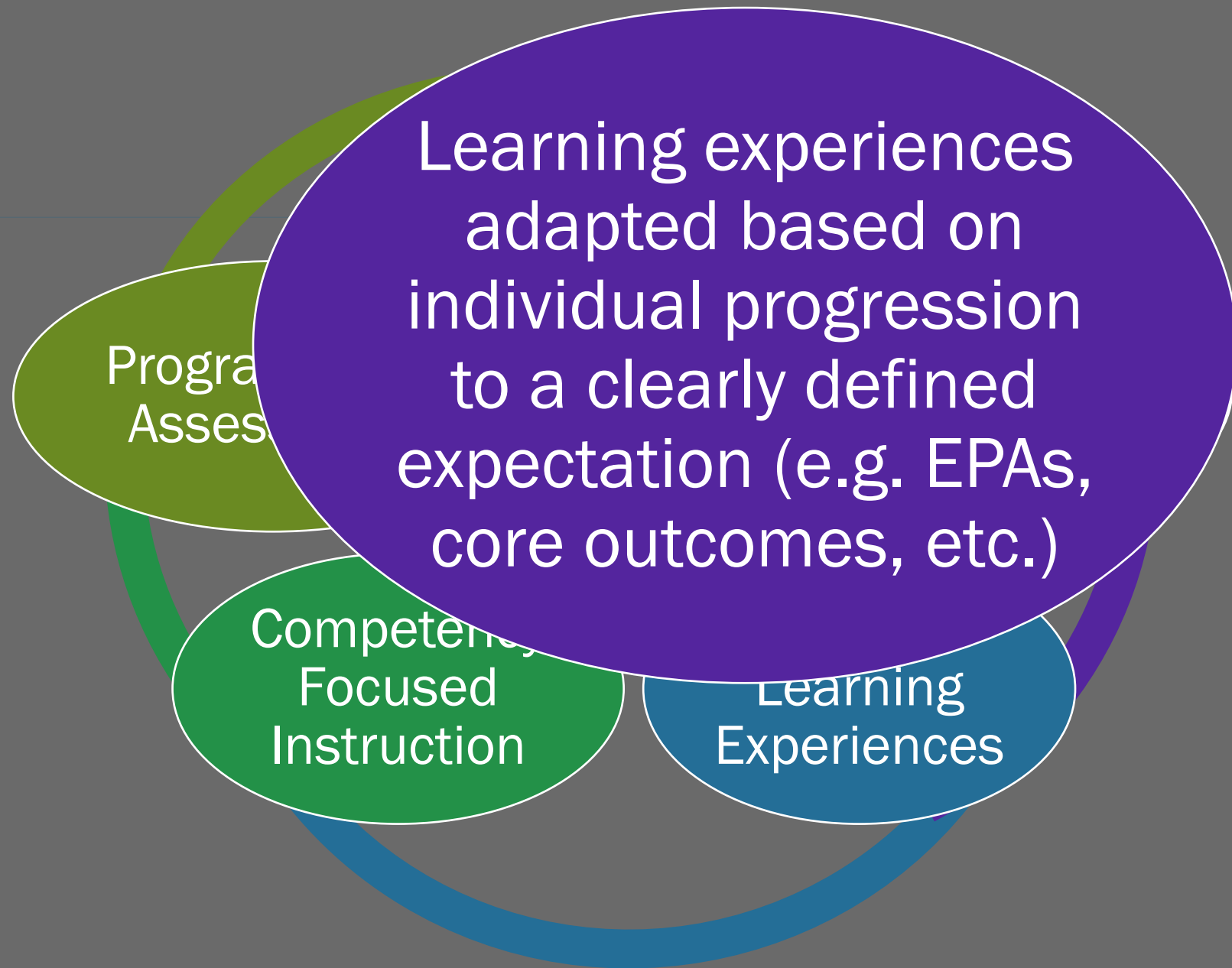
- Diagnose and manage acute conditions for people of

Sample General Surgery EPAs

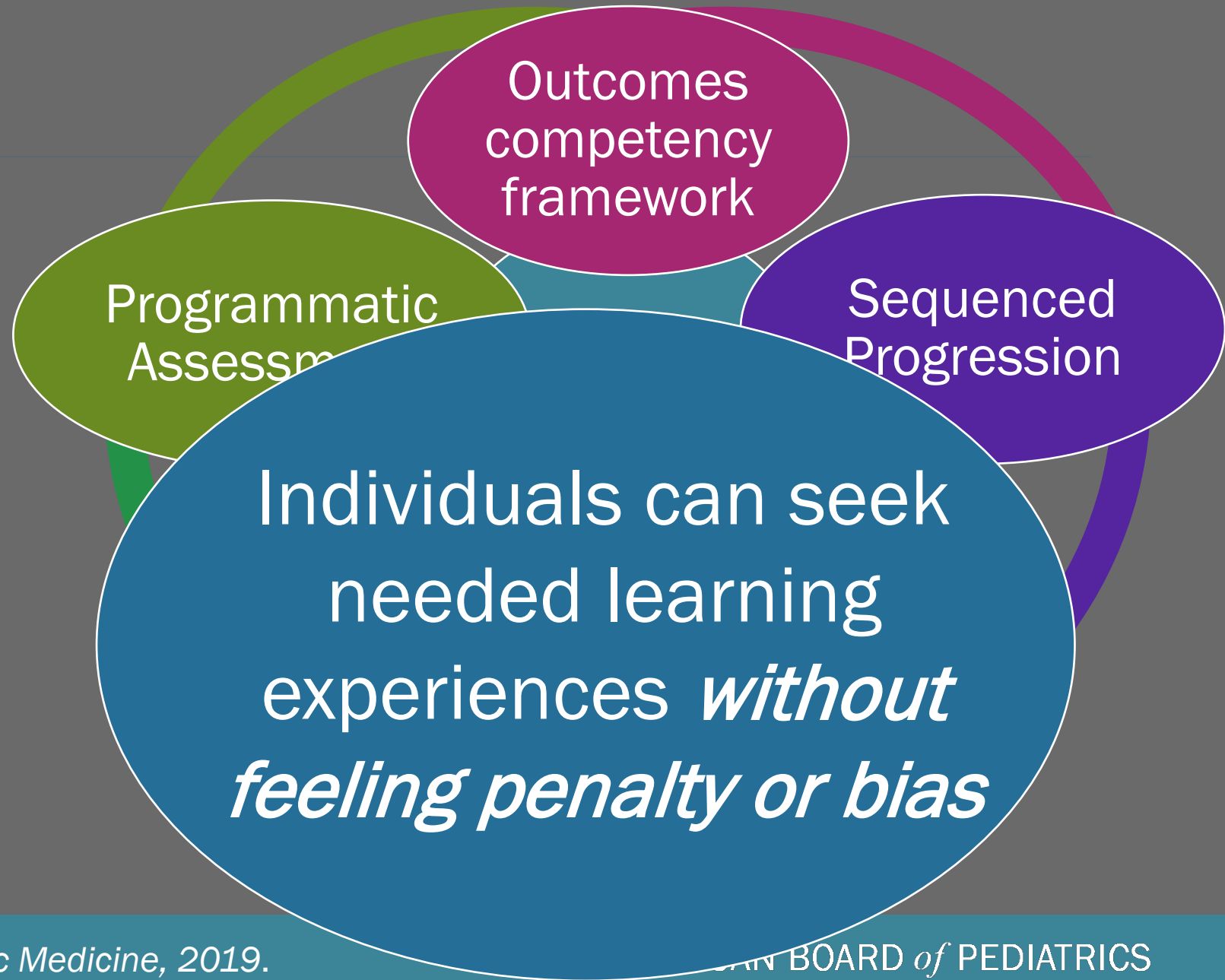
- Evaluation and Management of a Patient with Acute Abdomen
- Provide Surgical Consultation
- Evaluation and Management of a Patient with RLQ Pain and Appendicitis

- pregnancy care
- manage common problems

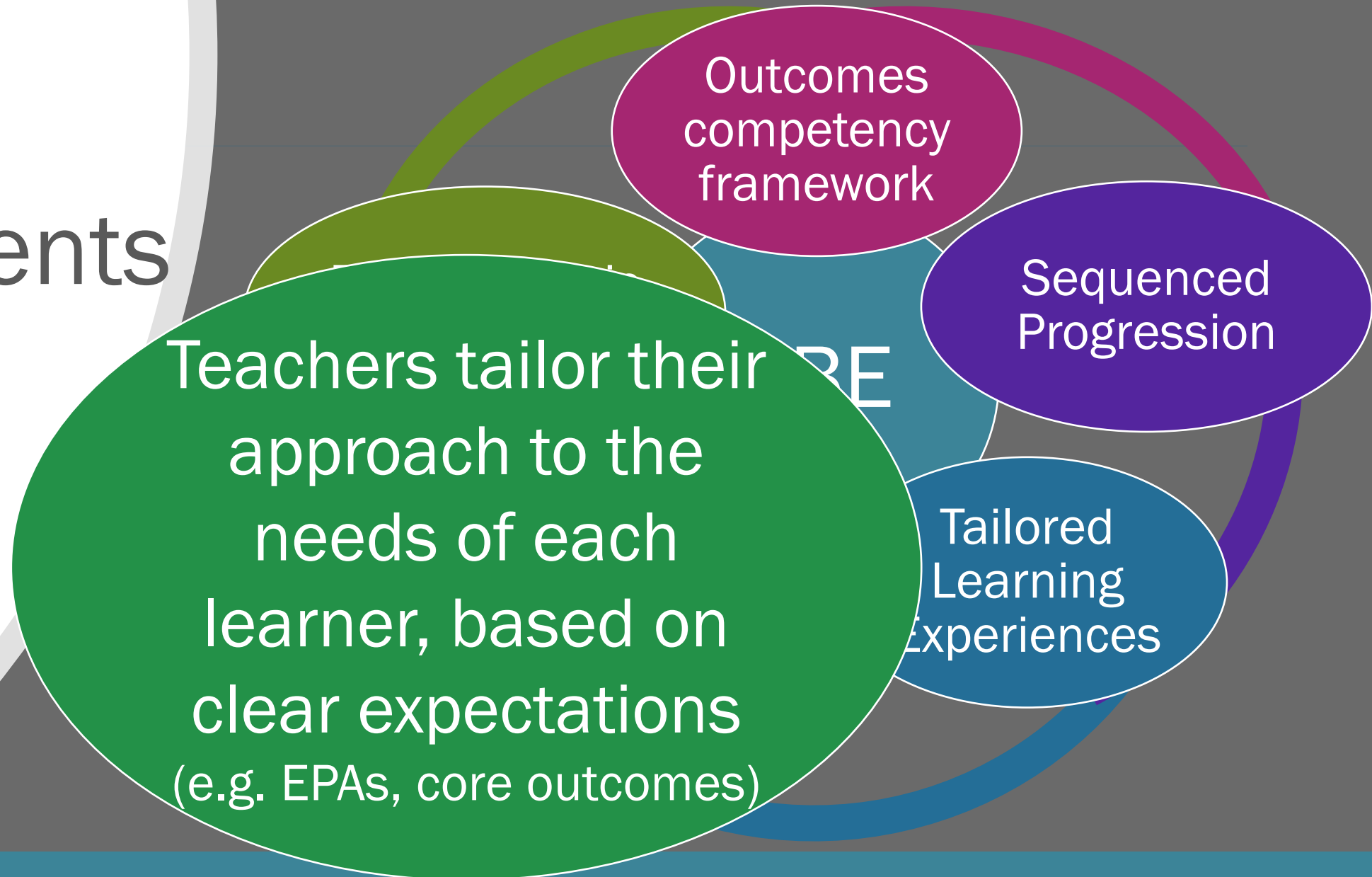
Core Components of CBE



Core Components of CBE



Core Components of CBE



Core Components of CBE





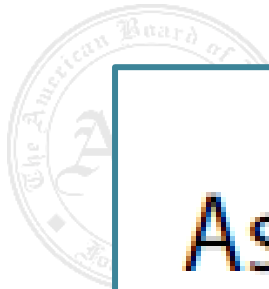
CBE moves
us toward a
more
equitable
assessment
system

- Intentionality in development and implementation of CBE is critical to advancing equity^{1,2}
- In Pediatrics, the EPA framework sets an expectation for all pediatricians to address inequities³

¹ Klein et al, *Acad Med* 2022

² Busari et al. *Med Teach*, 2024

³ Unaka et al. *Pediatrics*, 2022



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Assess
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Systematically review programmatic
assessment data for bias and respond
to any problems (group differences in
assessed performance, analysis of
language used in narrative comments
(program leaders)
Involve learners in creating and
implementing assessment plans
(learners, faculty, program leaders)

The background of the image is a complex financial chart. It features a central candlestick chart with green and red bars, overlaid with several moving average lines in blue, red, and purple. The chart is set against a dark blue background with a grid. The text "Why is this change important?" is centered in white, bold font.

Why is this change important?

The background of the image is a complex financial chart with a dark blue and black color scheme. It features multiple overlapping data series: a candlestick chart with green and red bars, several solid and dashed lines in various colors (blue, red, green), and a grid of horizontal and vertical lines. The overall appearance is that of a technical analysis chart, possibly a stock or commodity price chart, with various indicators and trends visible.

Data Demonstrate Variation in Education Outcomes at the Time of Program Completion



Decisions Being Made by Training Programs are Often Based on (Very) Limited Information



A common approach to decisions is to ‘default’ that trainees should progress unless there are specific concerns



Data from

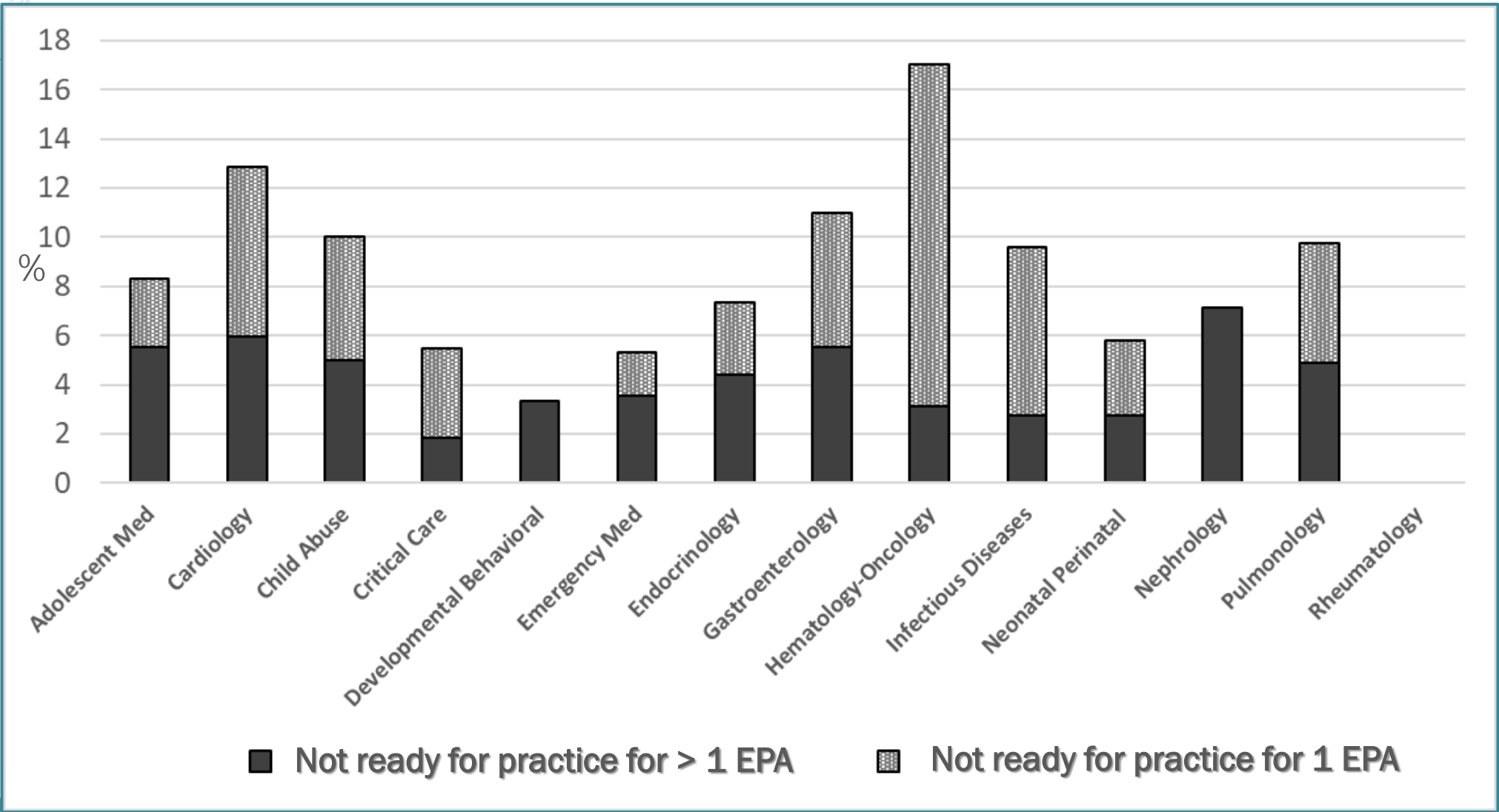
EPA

Table 2. Percentages of Graduating Residents Reaching Entrustment With Unsupervised Practice

		Level Associated With Entrustment	Graduating Residents Reaching Entrustment With	
	Prior Study – % Ready for Unsupervised Practice		Current Study – % Ready for Unsupervised Practice*	
Health Screening	98		89	
Newborn Care	93		88	
Acute Common Diagnosis	91		76	
Medical Home – Well Child	91		85	
16	Handovers	5	5	94 (90-96)
17	Procedures	Expanded 5	7	89 (84-93)



Graduating Pediatric Subspecialty Fellow Readiness for Practice is Variable



Readiness of Graduating General Surgery Residents to Perform Colorectal Procedures

[Jocelyn](#)

Nursing Graduates' Preparedness for Practice: Substantiating the Call for Competency-Evaluated Nursing Education

[Tamara](#)

Work readiness of pharmacy graduates: An exploratory study.

[Wei Jin Wong](#)^{a,1,*}, [Ronald FS Lee](#)^{a,1}, [Li Yun Chong](#)^a, [Shaun Wen Huey Lee](#)^a, [Wee Ming Lau](#)^b

Vu et al. J Surg Educ 2021

McGarity et al. Behav Sci 2023

Wong et al. Explor Res Clin Soc Pharm 2023



How do we move toward a more authentic approach to competency-based education and assessment?



Engaging everyone, *especially the learners*, in transforming the education and assessment process



General Pediatrics Pilot to Enhance Direct Observation with Smartphone-based Frontline Assessments

- Implementing an App for EPA- based frontline data collection
- Implementing a Dashboard for reporting and analytics
- Optimizing equity in assessment

Society for Improving Medical Professional Learning (SIMPL)
A 501(c)3, volunteer-led, collaborative network



400 residencies
10,000 physicians
20 specialties
7 countries

Funded by member programs + grants

Governed by over 40 medical educators organized in 6 committees

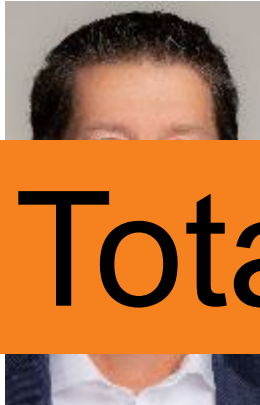
David (resident) works with Pat (preceptor) in which a patient presents with ADHD in Primary Care Clinic



Pat initiates an assessment by searching for and choosing

- David's Name
- Primary Care Setting
- The EPA entitled:

“Behavior/mental health problem”



Pat Answers question 1:

Total time: < 3 minutes

What most closely describes the patient most closely associated with the patient? (partially visible)

2. Patient complexity
3. Supervision
4. Practice Readiness
5. Narrative comments (*dictated into her phone*)

- A. ADHD
- B. Anxiety
- C. Depression
- D. Behavior Concern
- E. Learning difficulty/disorder
- F. Suicide or Self-Harm
- G. Autism/ASD
- H. Eating Disorder
- I. Other Mental Health Concern

Completed form appears in David's App

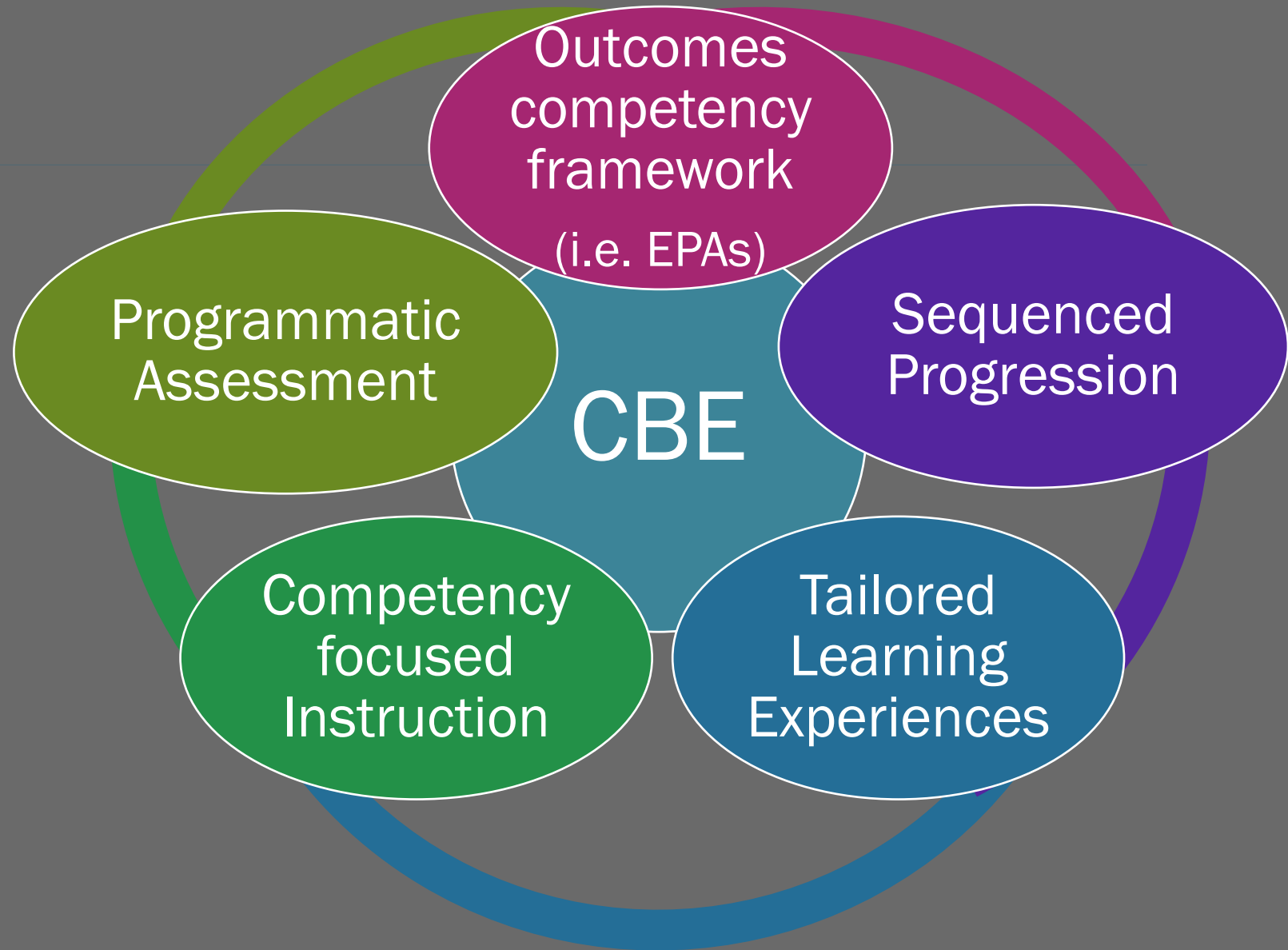
Data is incorporated into SIMPL database and informs reports and dashboards



Pilot experience to date...

- 15 Pilot Sites
 - Onboarding in phases
 - Nearly 3000 assessments in the first few months
- Forms are simple and easy to use
 - Less than 3 minutes to complete
 - All of the forms are being used
- Early qualitative feedback has been very positive

Goal is
Meaningful
Education
and
Assessment



Opportunities for the Future of Competency-Based Assessment

- Addressing imperfect and inequitable Clinical Learning Environments
- Breaking down silos across the continuum and facilitating transitions
- Shifting to a true growth-oriented mindset
- Navigating the need for both *assessment for learning* and *assessment of learning*

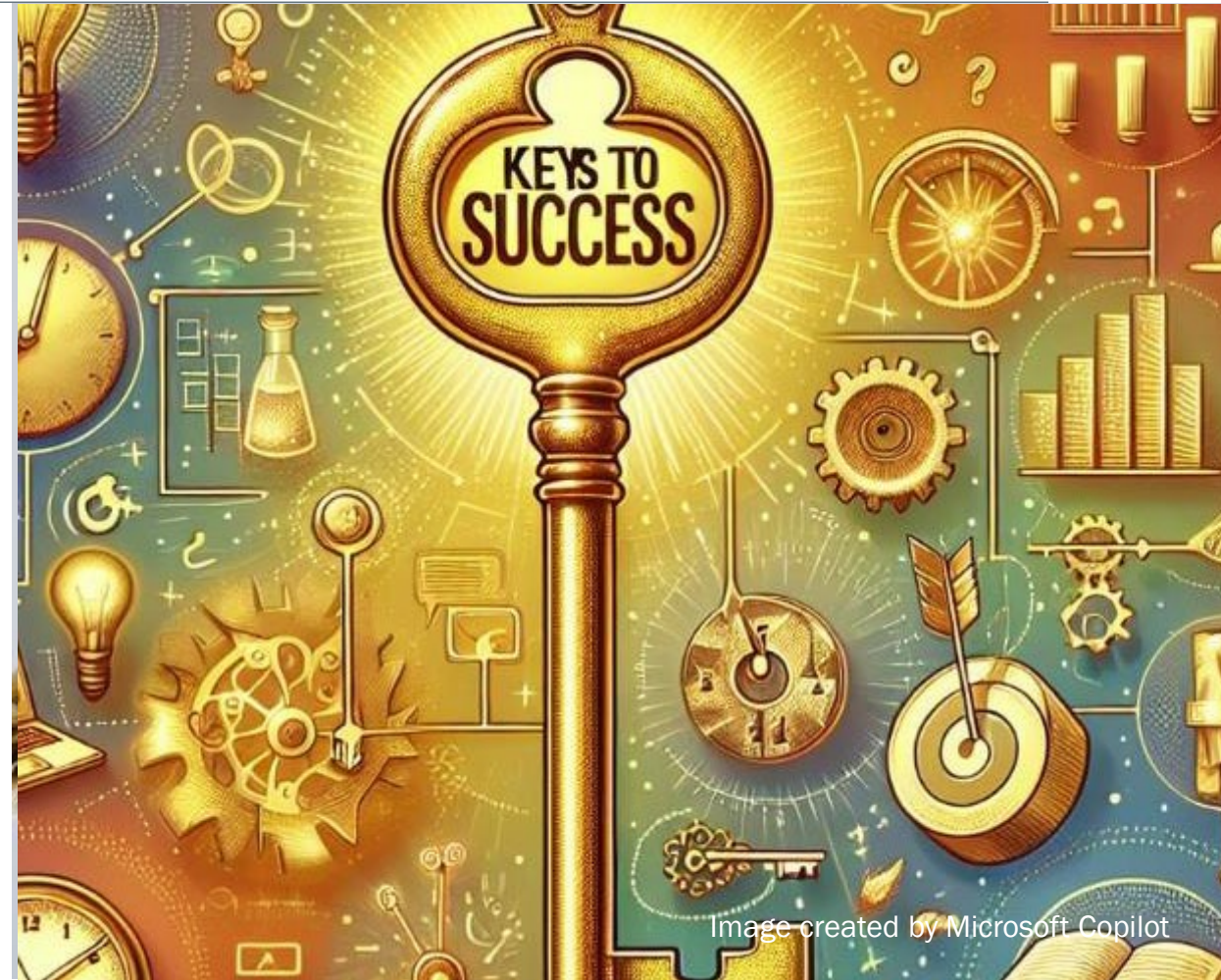


Image created by Microsoft Copilot



“Journey of a thousand miles
begins with a single step” *Laozi*

Thank You

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