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Core Entrustable Professional Activities for Entering Residency

Core Entrustable Professional Activities for Entering Residency: Toolkits for the 13 Core EPAs - Abridged

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Core Entrustable Professional Activities for Entering Residency



The Full Toolkit is Available on AAMC's Website:

Obeso V, Brown D, Aiyer M, Barron B, Bull J, Carter T, Emery M, Gillespie C, Hormann M, Hyderi A, Lupi C, Schwartz M, Uthman M, Vasilevskis EE, Yingling S, Phillipi C, eds.; for Core EPAs for Entering Residency Pilot Program. *Toolkits for the 13 Core Entrustable Professional Activities for Entering Residency*. Washington, DC: Association of American Medical Colleges; 2017.

aamc.org/initiatives/coreepas/publicationsandpresentations.

Senior Editors

Vivian Obeso, MD, Florida International University

David Brown, MD, Florida International University

Carrie Phillipi, MD, PhD, Oregon Health & Science University

Editors

Meenakshy Aiyer, MD, University of Illinois

Beth Barron, MD, Columbia University

Jan Bull, MA, Association of American Medical Colleges

Teresa J. Carter, EdD, Virginia Commonwealth University

Matthew Emery, MD, MSc, Michigan State University

Colleen Gillespie, PhD, New York University

Mark Hormann, MD, The University of Texas Health Science Center at Houston

Abbas Hyderi, MD, MPH, University of Illinois

Carla Lupi, MD, Florida International University

Michael L. Schwartz, PhD, Yale University

Margaret Uthman, MD, The University of Texas Health Science Center at Houston

Eduard E. Vasilevskis, MD, MPH, Vanderbilt University

Sandra Yingling, PhD, University of Illinois at Chicago

AAMC Staff

Alison Whelan, MD

Chief Medical Education Officer

Chris Hanley, MBA

Project Manager

Lynn Shaull, MA

Senior Research Specialist

For inquiries and correspondence, contact Dr. Vivian Obeso at vobeso@fiu.edu, Carrie Phillipi at phillica@ohsu.edu, or Dr. Alison Whelan at awhelan@aamc.org.

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Core Entrustable Professional Activities for Entering Residency



User Guide

This toolkit is for medical schools interested in implementing the Core Entrustable Professional Activities (EPAs) for Entering Residency. Written by the AAMC Core EPA Pilot Group, the toolkit expands on the EPA framework outlined in the *EPA Developer's Guide* (AAMC 2014). The Pilot Group identified progressive sequences of student behavior that medical educators may encounter as students engage in the medical school curriculum and became proficient in integrating their clinical skills. These sequences of behavior are articulated for each of the 13 EPAs in one-page schematics to provide a framework for understanding EPAs; additional resources follow.

This toolkit includes:

- One-page schematic of each EPA
- Core EPA Pilot supervision and coactivity scales

One-Page Schematics

In 2014, the AAMC launched a pilot project with 10 institutions to address the feasibility of implementing 13 EPAs for entering residency in undergraduate medical education. To standardize our approach as a pilot and promote a shared mental model, the Core EPA Pilot Group developed one-page schematics for each of the 13 EPAs.

These schematics were developed to translate the rich and detailed content within *The Core Entrustable Professional Activities for Entering Residency Curriculum Developers' Guide* published in 2014 by the AAMC into a one-page, easy-to-use format (AAMC 2014). These one-page schematics of developmental progression to entrustment provide user-friendly descriptions of each EPA. We sought fidelity to the original ideas and concepts created by the expert drafting panel that developed the *Core EPA Guide*.

We envision the one-page schematics as a resource for:

- Development of curriculum and assessment tools
- Faculty development
- Student understanding
- Entrustment committees, portfolio advisors, and others tracking longitudinal student progress

Understanding the One-Page Schematic

Performance of an EPA requires integration of multiple competencies (Englander and Carraccio 2014). Each EPA schematic begins with its list of key functions and related competencies. The functions are followed by observable behaviors of increasing ability describing a medical student's development toward readiness for indirect supervision. The column following the functions lists those behaviors requiring immediate correction or remediation. The last column lists expected behaviors of an entrustable learner.

The members of the Curriculum and Assessment Team of the Core EPA Pilot Group led this initiative. Thirteen EPA groups, each comprising representatives from four to five institutions, were tasked with creating each EPA schematic. Development of the schematics involved an explicit, standardized process to reduce variation and ensure consistency with functions,



Core Entrustable Professional Activities for Entering Residency



competencies, and the behaviors explicit in the *Core EPA Guide*. Behaviors listed were carefully gathered from the *Core EPA Guide* and reorganized by function and competency and listed in a developmental progression. The Curriculum and Assessment Team promoted content validity by carrying out iterative reviews by telephone conference call with the members of the Core EPA Pilot Group assigned to each EPA.

EPA Curriculum and Assessment

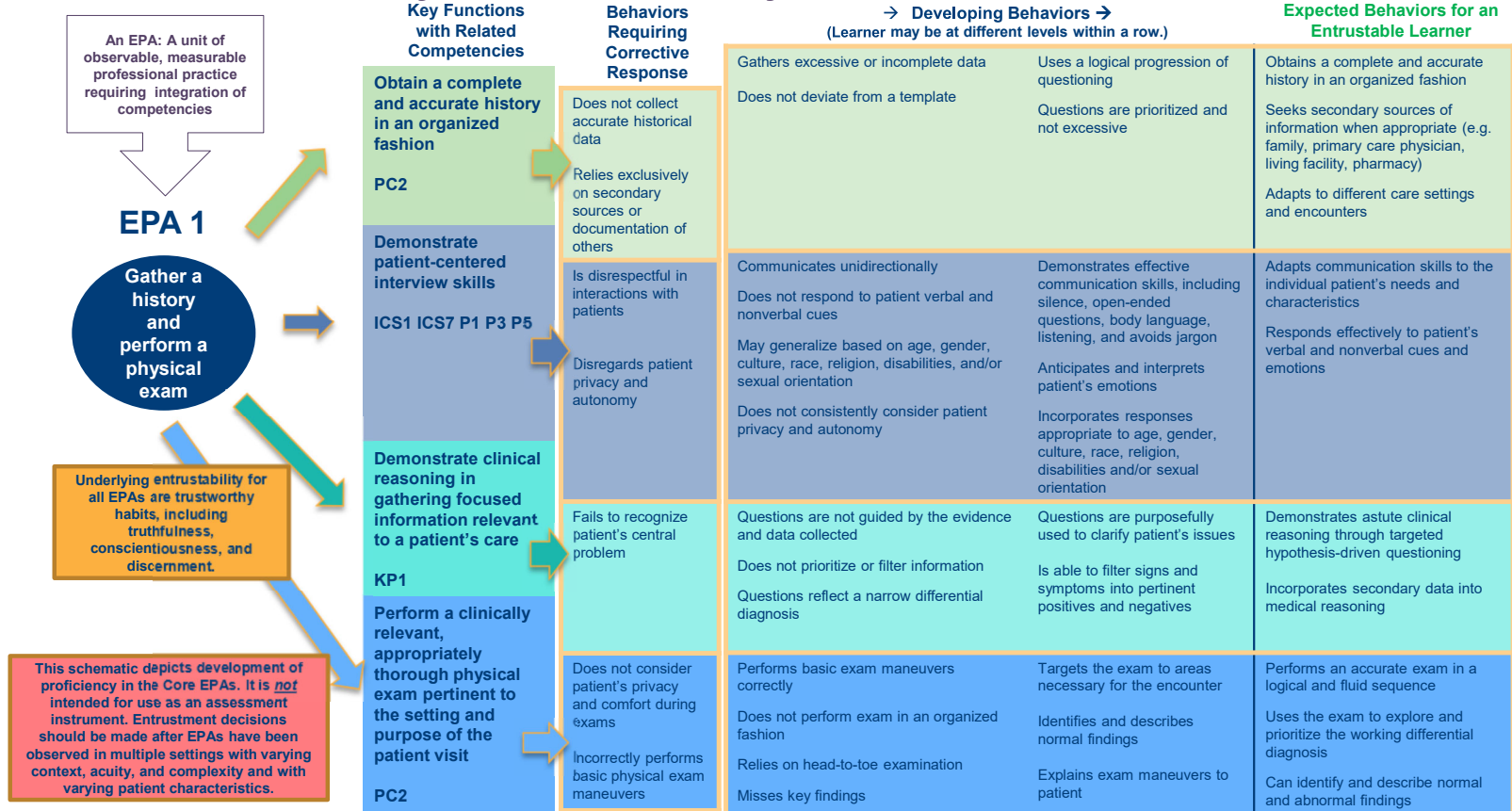
Multiple methods of teaching and assessing EPAs throughout the curriculum will be required to make a summative entrustment decision about residency readiness. The schematics can help to systematically identify and map curricular elements required to prepare students to perform EPAs. Specific prerequisite curricula may be needed to develop knowledge, skills, and attitudes before the learner engages in practice of the EPA.

To implement EPAs, medical schools should identify where in the curriculum EPAs will be taught, practiced, and assessed. Among other modalities, simulation, reflection, and standardized and structured experiences will all provide data about student competence. However, central to the concept of entrustment is the global performance of EPAs in authentic clinical settings, where the EPA is taught and assessed holistically, not as the sum of its parts.

Workplace-Based Assessments: Supervision and Coactivity Scales

On a day-to-day basis, clinical supervisors make and communicate judgments about how much help (coactivity) or supervision a student or resident needs. “Will I let the student go in the room without me? How much will I let the student do versus observe? Because I wasn’t present to observe, how much do I need to double-check?” Scales for clinical supervisors to determine how much help or supervision a student needs for a specific activity have been proposed (Chen et al 2015; Rekman et al 2016). There is limited validity evidence for these scales, and no published data comparing them. Given our initial experience, the Core EPA Pilot Group has agreed on a trial using modified versions of these scales (Appendix 1).

EPA 1: Gather a History and Perform a Physical Examination



EPA 2: Prioritize a Differential Diagnosis Following a Clinical Encounter

An EPA: A unit of observable, measurable professional practice requiring integration of competencies

EPA 2

Prioritize a differential diagnosis

Underlying entrustability for all EPAs are trustworthy habits, including truthfulness, conscientiousness, and discernment.

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Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
<p>Synthesize essential information from previous records, history, physical exam, and initial diagnostic evaluations to propose a scientifically supported differential diagnosis</p> <p>PC2 KP3 KP4 KP2</p>	<p>Cannot gather or synthesize data to inform an acceptable diagnosis</p> <p>Lacks basic medical knowledge to reason effectively</p>	<p>Approaches assessment from a rigid template</p> <p>Struggles to filter, prioritize, and make connections between sources of information</p> <p>Proposes a differential diagnosis that is too narrow, is too broad, or contains inaccuracies</p> <p>Demonstrates difficulty retrieving knowledge for effective reasoning</p>	<p>Gathers pertinent data based on initial diagnostic hypotheses</p> <p>Proposes a reasonable differential diagnosis but may neglect important diagnostic information</p> <p>Is beginning to organize knowledge by illness scripts (patterns) to generate and support a diagnosis</p>	<p>Gathers pertinent information from many sources in a hypothesis-driven fashion</p> <p>Filters, prioritizes, and makes connections between sources of information</p> <p>Proposes a relevant differential diagnosis that is neither too broad nor too narrow</p> <p>Organizes knowledge into illness scripts (patterns) that generate and support a diagnosis</p>
<p>Prioritize and continue to integrate information as it emerges to update differential diagnosis, while managing ambiguity</p> <p>PC4 KP3 KP4 PPD8 PBL1</p>	<p>Disregards emerging diagnostic information</p> <p>Becomes defensive and/or belligerent when questioned on differential diagnosis</p>	<p>Does not integrate emerging information to update the differential diagnosis</p> <p>Displays discomfort with ambiguity</p>	<p>Considers emerging information but does not completely integrate to update the differential diagnosis</p> <p>Acknowledges ambiguity and is open to questions and challenges</p>	<p>Seeks and integrates emerging information to update the differential diagnosis</p> <p>Encourages questions and challenges from patients and team</p>
<p>Engage and communicate with team members for endorsement and verification of the working diagnosis that will inform management plans</p> <p>KP3 KP4 ICS2</p>	<p>Ignores team's recommendations</p> <p>Develops and acts on a management plan before receiving team's endorsement</p> <p>Cannot explain or document clinical reasoning</p>	<p>Recommends a broad range of untailored diagnostic evaluations</p> <p>Depends on team for all management plans</p> <p>Does not completely explain and document reasoning</p>	<p>Recommends diagnostic evaluations tailored to the evolving differential diagnosis after having consulted with team</p> <p>Explains and documents clinical reasoning</p>	<p>Proposes diagnostic and management plans reflecting team's input</p> <p>Seeks assistance from team members</p> <p>Provides complete and succinct documentation explaining clinical reasoning</p>



EPA 3: Recommend and Interpret Common Diagnostic and Screening Tests

An EPA: A unit of observable, measurable professional practice requiring integration of competencies

EPA 3

Diagnostic and screening tests

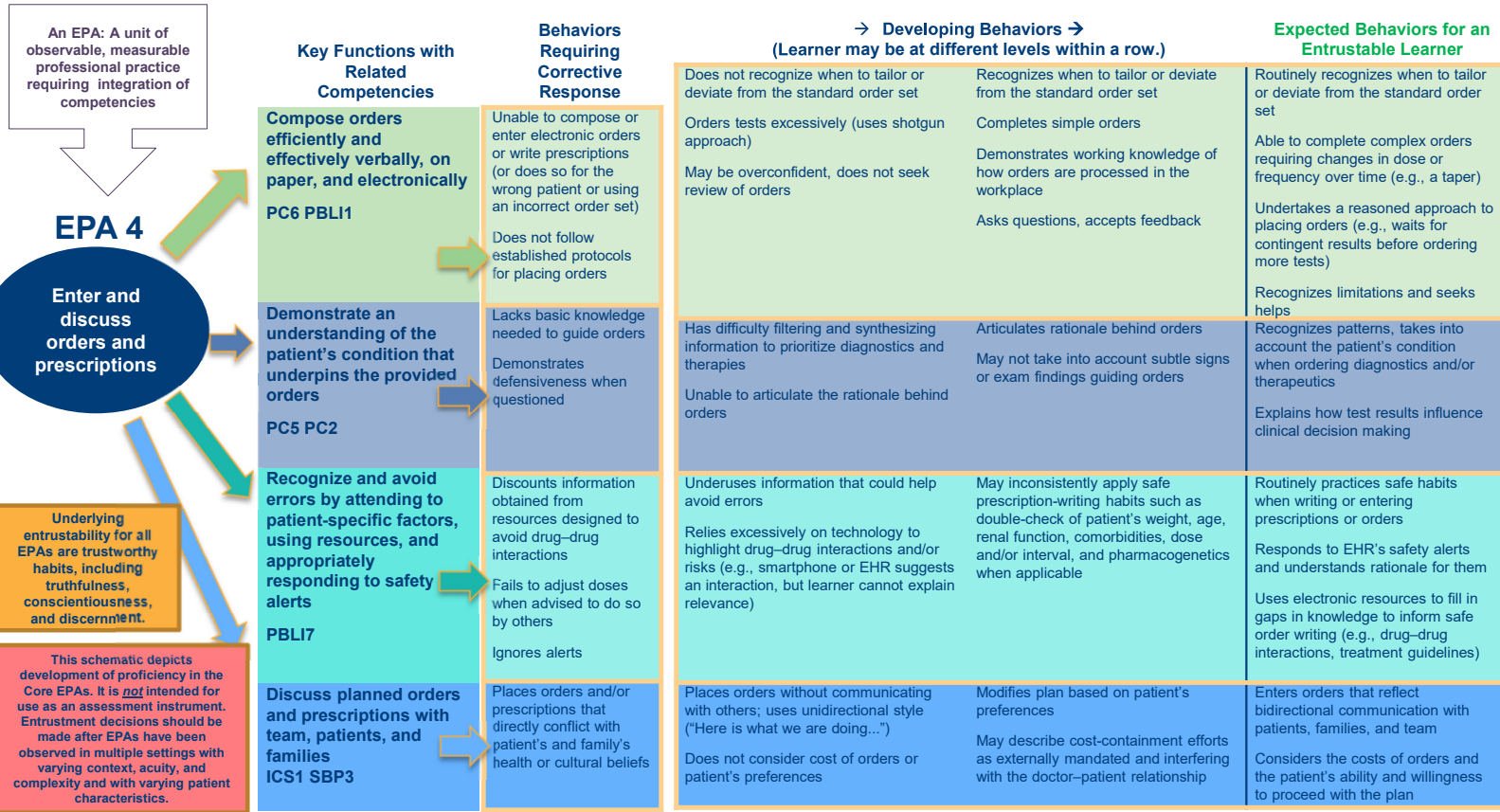
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Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
<p>Recommend first-line cost-effective screening and diagnostic tests for routine health maintenance and common disorders</p> <p>PC5 PC9 SBP3 PBLI9 KP1 KP4</p>	<p>Unable to recommend a standard set of screening or diagnostic tests</p> <p>Demonstrates frustration at cost-containment efforts</p>	<p>Recommends tests for common conditions</p> <p>Does not consider harm, costs, guidelines, or patient resources</p> <p>Does not consider patient-specific screening unless instructed</p>	<p>Considers costs</p> <p>Identifies guidelines for standard tests</p> <p>Repeats diagnostic tests at intervals that are too frequent or too lengthy</p>	<p>Recommends key, reliable, cost-effective screening and diagnostic tests</p> <p>Applies patient-specific guidelines</p>
<p>Provide rationale for decision to order tests, taking into account pre- and posttest probability and patient preference</p> <p>PC5 PC7 KP1 KP4 SBP3 PBLI9</p>	<p>Cannot provide a rationale for ordering tests</p>	<p>Recommends unnecessary tests or tests with low pretest probability</p> <p>Neglects patient's preferences</p>	<p>Understands pre- and posttest probability</p> <p>Neglects impact of false positive or negative results</p> <p>Aware of patient's preferences</p>	<p>Provides individual rationale based on patient's preferences, demographics, and risk factors</p> <p>Incorporates sensitivity, specificity, and prevalence in recommending and interpreting tests</p> <p>Explains how results will influence diagnosis and evaluation</p>
<p>Interpret results of basic studies and understand the implication and urgency of the results</p> <p>PC4 PC5 PC7 KP1</p>	<p>Can only interpret results based on normal values from the lab</p> <p>Does not discern urgent from nonurgent results</p>	<p>Misinterprets insignificant or explainable abnormalities</p> <p>Does not know how to respond to urgent test results</p> <p>Requires supervisor to discuss results with patient</p>	<p>Recognizes need for assistance to evaluate urgency of results and communicate these to patient</p>	<p>Distinguishes common, insignificant abnormalities from clinically important findings</p> <p>Discerns urgent from nonurgent results and responds correctly</p> <p>Seeks help for interpretation of tests beyond scope of knowledge</p>



EPA 4: Enter and Discuss Orders and Prescriptions



EPA 5: Document a Clinical Encounter in the Patient Record

An EPA: A unit of observable, measurable professional practice requiring integration of competencies

EPA 5

Document a clinical encounter

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Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
<p>Prioritize and synthesize information into a cogent narrative for a variety of clinical encounters (e.g., admission, progress, pre- and post-op, and procedure notes; informed consent; discharge summary)</p> <p>P4 ICS1</p>	<p>Provides incoherent documentation</p>	<p>Misses key information</p> <p>Uses a template with limited ability to adjust or adapt based on audience, context, or purpose</p>	<p>Provides key information but may include unnecessary details or redundancies</p> <p>Demonstrates ability to adjust or adapt to audience, context, or purpose</p>	<p>Provides a verifiable cogent narrative without unnecessary details or redundancies</p> <p>Adjusts and adapts documentation based on audience, context, or purpose (e.g., admission, progress, pre- and post-op, and procedure notes; informed consent; discharge summary)</p>
<p>Follow documentation requirements to meet regulations and professional expectations</p> <p>ICS5 P4 SBP1</p>	<p>Copies and pastes information without verification or attribution</p> <p>Does not provide documentation when required</p> <p>Provides illegible documentation</p>	<p>Produces documentation that has errors or does not fulfill institutional requirements (e.g., date, time, signature, avoidance of prohibited abbreviations)</p> <p>Has difficulty meeting turnaround expectations, resulting in team members' lack of access to documentation</p>	<p>Recognizes and corrects errors related to required elements of documentation</p> <p>Meets needed turnaround time for standard documentation</p> <p>May not document the pursuit of primary or secondary sources important to the encounter</p>	<p>Provides accurate, legible, timely documentation that includes institutionally required elements</p> <p>Documents in the patient's record role in team-care activities</p> <p>Documents use of primary and secondary sources necessary to fill in gaps</p>
<p>Document a problem list, differential diagnosis, and plan supported through clinical reasoning that reflects patient's preferences</p> <p>PC4 PC6 ICS1 ICS2</p>	<p>Includes inappropriate judgmental language</p> <p>Documents potentially damaging information without attribution</p>	<p>Does not document a problem list, differential diagnosis, plan, clinical reasoning, or patient's preferences</p> <p>Interprets laboratories by relying on norms rather than context</p> <p>Does not include a rationale for ordering studies or treatment plans</p> <p>Demonstrates limited help-seeking behavior to fill gaps in knowledge, skill, and experience</p>	<p>Documents a problem list, differential diagnosis, plan, and clinical reasoning</p> <p>Is inconsistent in interpreting basic tests accurately</p> <p>Engages in help-seeking behavior resulting in improved ability to develop and document management plans</p> <p>Solicits patient's preferences and records them in a note</p>	<p>Documents a problem list, differential diagnosis, and plan, reflecting a combination of thought processes and input from other providers</p> <p>Interprets laboratory values accurately</p> <p>Identifies key problems, documenting engagement of those who can help resolve them</p> <p>Communicates bidirectionally to develop and record management plans aligned with patient's preferences</p>



EPA 6: Provide an Oral Presentation of a Clinical Encounter

An EPA: A unit of observable, measurable professional practice requiring integration of competencies

EPA 6
Provide an oral presentation of a clinical encounter

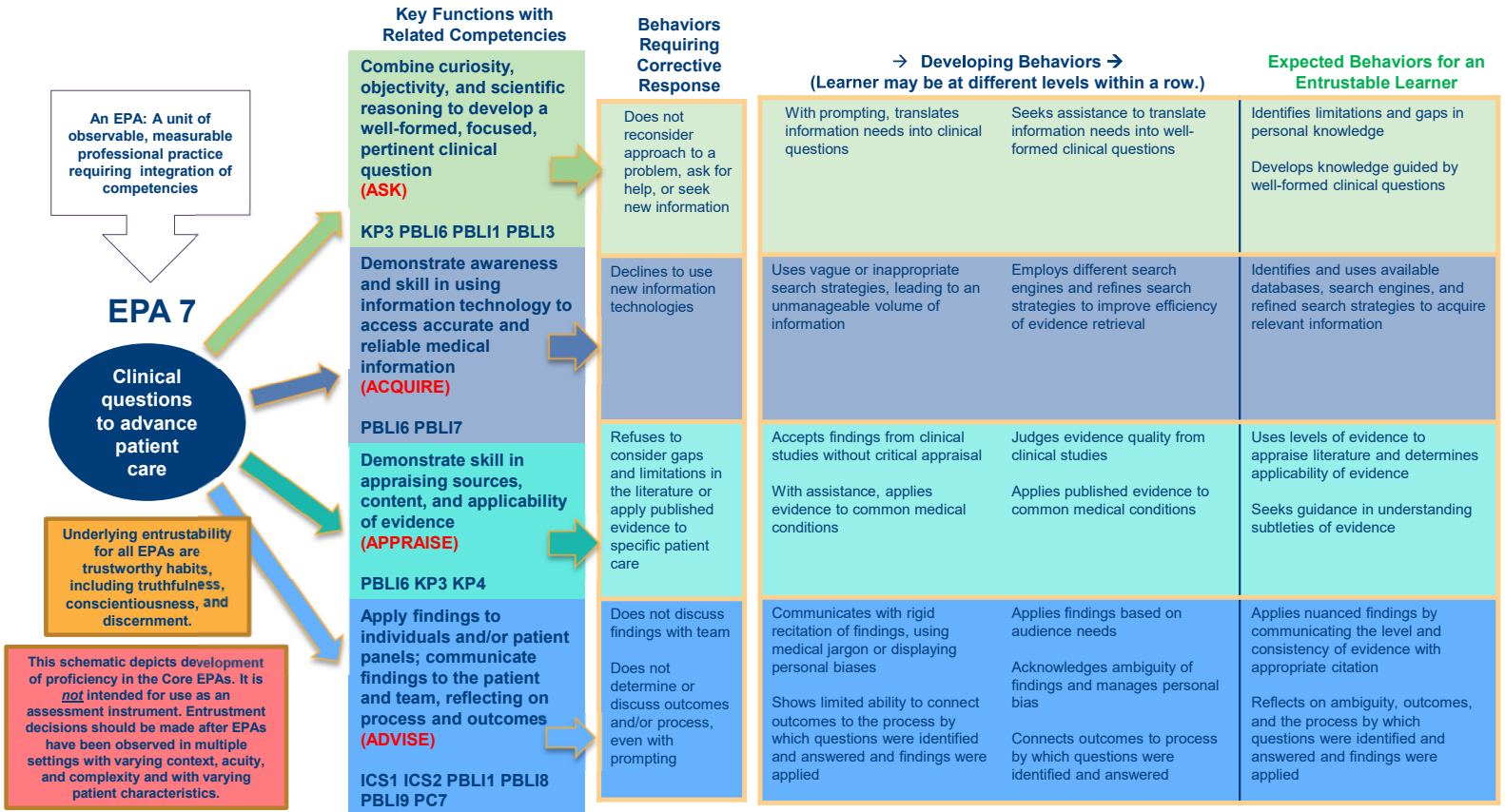
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Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
Present personally gathered and verified information, acknowledging areas of uncertainty PC2 PBL1 PPD4 P1	Fabricates information when unable to respond to questions Reacts defensively when queried	Gathers evidence incompletely or exhaustively Fails to verify information Does not obtain sensitive information	Acknowledges gaps in knowledge, adjusts to feedback, and then obtains additional information	Presents personally verified and accurate information, even when sensitive Acknowledges gaps in knowledge, reflects on areas of uncertainty, and seeks additional information to clarify or refine presentation
Provide an accurate, concise, well-organized oral presentation ICS2 PC6	Presents in a disorganized and incoherent fashion	Delivers a presentation that is not concise or that wanders Presents a story that is imprecise because of omitted or extraneous information	Delivers a presentation organized around the chief concern When asked, can identify pertinent positives and negatives that support hypothesis Supports management plans with limited information	Filters, synthesizes, and prioritizes information into a concise and well-organized presentation Integrates pertinent positives and negatives to support hypothesis Provides sound arguments to support the plan
Adjust the oral presentation to meet the needs of the receiver ICS1 ICS2 PBL1 PPD7	Presents information in a manner that frightens family	Follows a template Uses acronyms and medical jargon Projects too much or too little confidence	When prompted, can adjust presentation in length and complexity to match situation and receiver of information	Tailors length and complexity of presentation to situation and receiver of information Conveys appropriate self-assurance to put patient and family at ease
Demonstrate respect for patient's privacy and autonomy P3 P1 PPD4	Disregards patient's privacy and autonomy	Lacks situational awareness when presenting sensitive patient information Does not engage patients and families in discussions of care	Incorporates patient's preferences and privacy needs	Respects patients' privacy and confidentiality by demonstrating situational awareness when discussing patients Engages in shared decision making by actively soliciting patient's preferences



EPA 7: Form Clinical Questions and Retrieve Evidence to Advance Patient Care





EPA 8: Give or Receive a Patient Handover to Transition Care Responsibility

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EPA 8

Give or receive a patient handover

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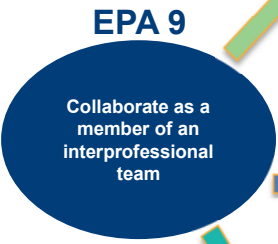
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* Functions are designated as "transmitter" or "transmitter and receiver."

Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
<p>Document and update an electronic handover tool and apply this to deliver a structured verbal handover</p> <p>PBL17 ICS2 ICS3 P3</p> <p>*Transmitter</p>	<p>Inconsistently uses standardized format or uses alternative tool</p> <p>Provides information that is incomplete and/or includes multiple errors in patient information</p>	<p>Uses electronic handover tool</p> <p>Inconsistently updates tool</p> <p>Requires clarification and additional relevant information from others to prioritize information</p> <p>Provides patient information that is disorganized, too detailed, and/or too brief</p>	<p>Consistently updates electronic handover tool with mostly relevant information, applying a standardized template</p> <p>Adjusts patient information for context and audience</p> <p>May omit relevant information or present irrelevant information</p>	<p>Consistently updates electronic handover tool with clear, relevant, and succinct documentation</p> <p>Adapts and applies all elements of a standardized template</p> <p>Presents a verbal handover that is prioritized, relevant, and succinct</p>
<p>Conduct handover using communication strategies known to minimize threats to transition of care</p> <p>ICS2 ICS3</p> <p>*Transmitter</p>	<p>Is frequently distracted</p> <p>Carries out handover with inappropriate timing and context</p>	<p>Requires assistance to minimize interruptions and distractions</p> <p>Demonstrates minimal situational awareness</p>	<p>Requires assistance with time management</p> <p>Focuses on own handover tasks with some awareness of other's needs</p>	<p>Avoids interruptions and distractions</p> <p>Manages time effectively</p> <p>Demonstrates situational awareness</p>
<p>Provide succinct verbal communication conveying illness severity, situational awareness, action planning, and contingency planning</p> <p>ICS2 PC8</p> <p>*Transmitter</p>	<p>Communication lacks all key components of standardized handover</p>	<p>Inconsistently communicates key components of the standardized tool</p> <p>Does not provide action plan and contingency plan</p>	<p>Identifies illness severity</p> <p>Provides incomplete action list and contingency planning</p> <p>Creates a contingency plan that lacks clarity</p>	<p>Highlights illness severity accurately</p> <p>Provides complete action plans and appropriate contingency plans</p>
<p>Give or elicit feedback about handover communication and ensure closed-loop communication</p> <p>PBL15 ICS2 ICS3</p> <p>*Transmitter and Receiver</p>	<p>Withholds or is defensive with feedback</p> <p>Displays lack of insight on the role of feedback</p> <p>Does not summarize (or repeat) key points for effective closed-loop communication</p>	<p>Delivers incomplete feedback; accepts feedback when given</p> <p>Does not encourage other team members to express their ideas or opinions</p> <p>Inconsistently uses summary statements and/or asks clarifying questions</p>	<p>Accepts feedback and adjusts</p> <p>Summary statements are too elaborate</p> <p>Inconsistently uses repeat-back technique</p>	<p>Provides and solicits feedback regularly, listens actively, and engages in reflection</p> <p>Identifies areas of improvement</p> <p>Asks mutually clarifying questions, provides succinct summaries, and uses repeat-back techniques</p>
<p>Demonstrate respect for patient's privacy and confidentiality</p> <p>P3</p> <p>*Transmitter and Receiver</p>	<p>Is unaware of HIPAA policies</p> <p>Breaches patient confidentiality and privacy</p>	<p>Is aware of HIPAA policies</p>	<p>Is cognizant of and attempts to minimize breaches in privacy and confidentiality</p>	<p>Consistently considers patient privacy and confidentiality</p> <p>Highlights and respects patient's preferences</p>

EPA 9: Collaborate as a Member of an Interprofessional Team

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Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
Identify team members' roles and responsibilities and seek help from other members of the team to optimize health care delivery IPC2 SBP2 ICS3	Does not acknowledge other members of the interdisciplinary team as important Displays little initiative to interact with team members	Identifies roles of other team members but does not know how or when to use them Acts independently of input from team members, patients, and families	Interacts with other team members, seeks their counsel, actively listens to their recommendations, and incorporates these recommendations into practice	Effectively partners as an integrated member of the team Articulates the unique contributions and roles of other health care professionals Actively engages with the patient and other team members to coordinate care and provide for seamless care transition
Include team members, listen attentively, and adjust communication content and style to align with team-member needs ICS2/IPC3 IPC1 ICS7 P1	Dismisses input from professionals other than physicians	Communication is largely unidirectional, in response to prompts, or template driven Has limited participation in team discussion	Listens actively and elicits ideas and opinions from other team members	Communicates bidirectionally; keeps team members informed and up to date Tailors communication strategy to the situation
Establish and maintain a climate of mutual respect, dignity, integrity, and trust Prioritize team needs over personal needs to optimize delivery of care Help team members in need P1 ICS7 IPC1 SBP2	Has disrespectful interactions or does not tell the truth Is unable to modify behavior Puts others in position of reminding, enforcing, and resolving interprofessional conflicts	Is typically a more passive member of the team Prioritizes own goals over those of the team	Integrates into team function, prioritizing team goals Demonstrates respectful interactions and tells the truth Remains professional and anticipates and manages emotional triggers	Supports other team members and communicates their value to the patient and family Anticipates, reads, and reacts to emotions to gain and maintain therapeutic alliances with others Prioritizes team's needs over personal needs



EPA 10: Recognize a Patient Requiring Urgent or Emergent Care and Initiate Evaluation and Management

- Chest pain
- Mental status change
- Shortness of breath and hypoxemia
- Fever
- Hypotension or hypertension
- Tachycardia or arrhythmia
- Oliguria, anuria, or urinary retention
- Electrolyte abnormalities
- Hypoglycemia or hyperglycemia

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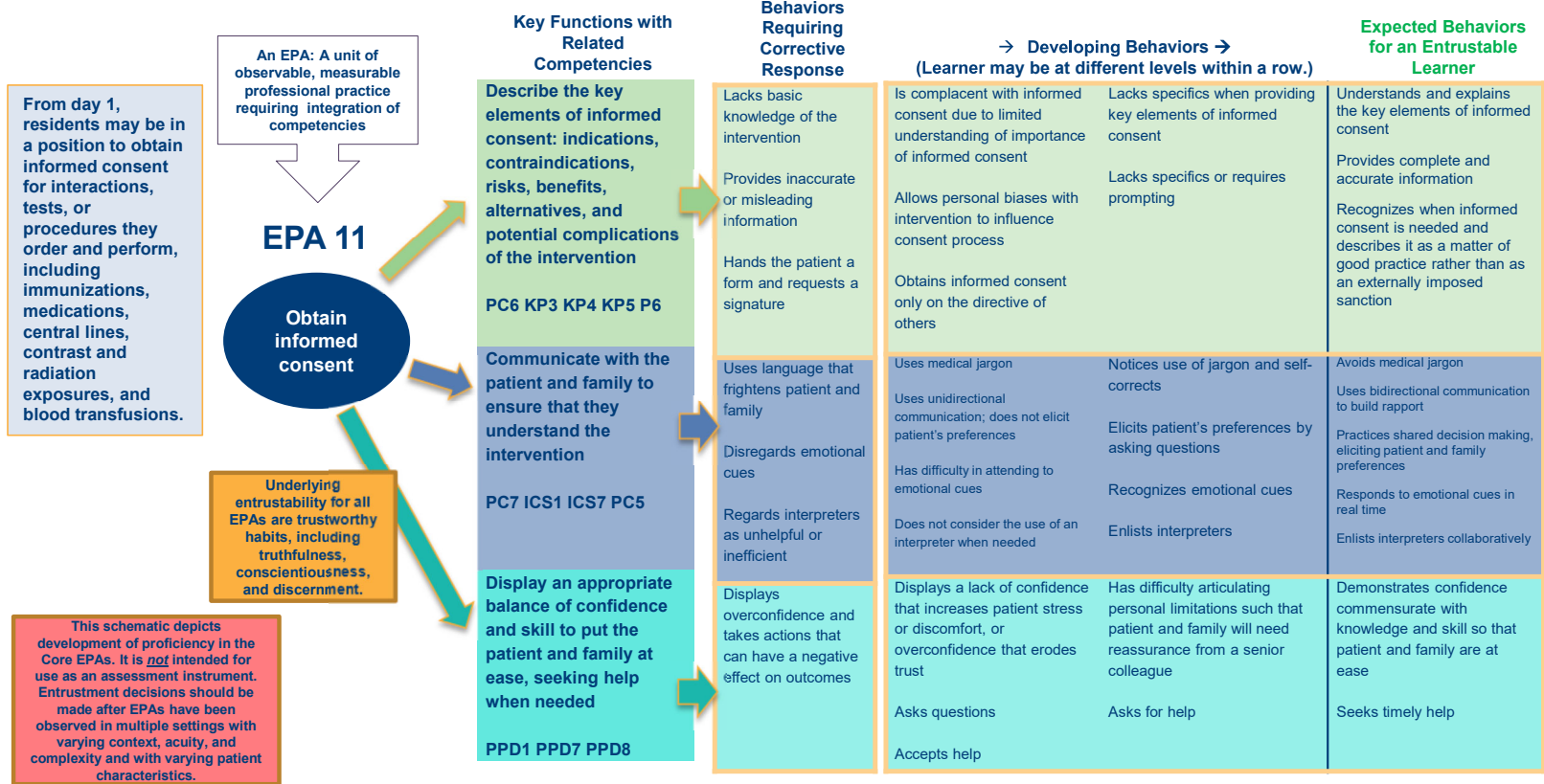
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Key Functions with Related Competencies	Behaviors Requiring Corrective Response	→ Developing Behaviors → (Learner may be at different levels within a row.)		Expected Behaviors for an Entrustable Learner
<p>Recognize normal and abnormal vital signs as they relate to patient- and disease-specific factors as potential etiologies of a patient's decompensation</p> <p>PC2 PC4 PC5</p>	<p>Fails to recognize trends or variations of vital signs in a decompensating patient</p>	<p>Demonstrates limited ability to gather, filter, prioritize, and connect pieces of information to form a patient-specific differential diagnosis in an urgent or emergent setting</p>	<p>Recognizes outliers or unexpected results or data and seeks out an explanation</p>	<p>Recognizes variations of patient's vital signs based on patient- and disease-specific factors</p> <p>Gathers, filters, and prioritizes information related to a patient's decompensation in an urgent or emergent setting</p>
<p>Recognize severity of a patient's illness and indications for escalating care and initiate interventions and management</p> <p>PC4 PC3 PC2 PC5 PC6 PPD1</p>	<p>Does not recognize change in patient's clinical status or seek help when a patient requires urgent or emergent care</p>	<p>Misses abnormalities in patient's clinical status or does not anticipate next steps</p> <p>May be distracted by multiple problems or have difficulty prioritizing</p> <p>Accepts help</p>	<p>Recognizes concerning clinical symptoms or unexpected results or data</p> <p>Asks for help</p>	<p>Responds to early clinical deterioration and seeks timely help</p> <p>Prioritizes patients who need immediate care and initiates critical interventions</p>
<p>Initiate and participate in a code response and apply basic and advanced life support</p> <p>PC1 PPD1 SBP2 IPC4</p>	<p>Responds to a decompensated patient in a manner that detracts from or harms team's ability to intervene</p>	<p>Requires prompting to perform basic procedural or life support skills correctly</p> <p>Does not engage with other team members</p>	<p>Demonstrates appropriate airway and basic life support (BLS) skills</p> <p>Initiates basic management plans</p> <p>Seeks input or guidance from other members of the health care team</p>	<p>Initiates and applies effective airway management, BLS, and advanced cardiovascular life support (ACLS) skills</p> <p>Monitors response to initial interventions and adjusts plan accordingly</p> <p>Adheres to institutional procedures and protocols for escalation of patient care</p> <p>Uses the health care team members according to their roles and responsibilities to increase task efficiency in an emergent patient condition</p>
<p>Upon recognition of a patient's deterioration, communicate situation, clarify patient's goals of care, and update family members</p> <p>ICS2 ICS6 PPD1</p>	<p>Dismisses concerns of team members (nurses, family members, etc.) about patient deterioration</p> <p>Disregards patient's goals of care or code status</p>	<p>Communicates in a unidirectional manner with family and health care team</p> <p>Provides superfluous or incomplete information to health care team members</p> <p>Does not consider patient's wishes if they differ from those of the provider</p>	<p>Tailors communication and message to the audience, purpose, and context in most situations</p> <p>Actively listens and encourages idea sharing from the team (including patient and family)</p> <p>Confirms goals of care</p>	<p>Communicates bidirectionally with the health care team and family about goals of care and treatment plan while keeping them up to date</p> <p>Actively listens to and elicits feedback from team members (e.g., patient, nurses, family members) regarding concerns about patient deterioration to determine next steps</p>

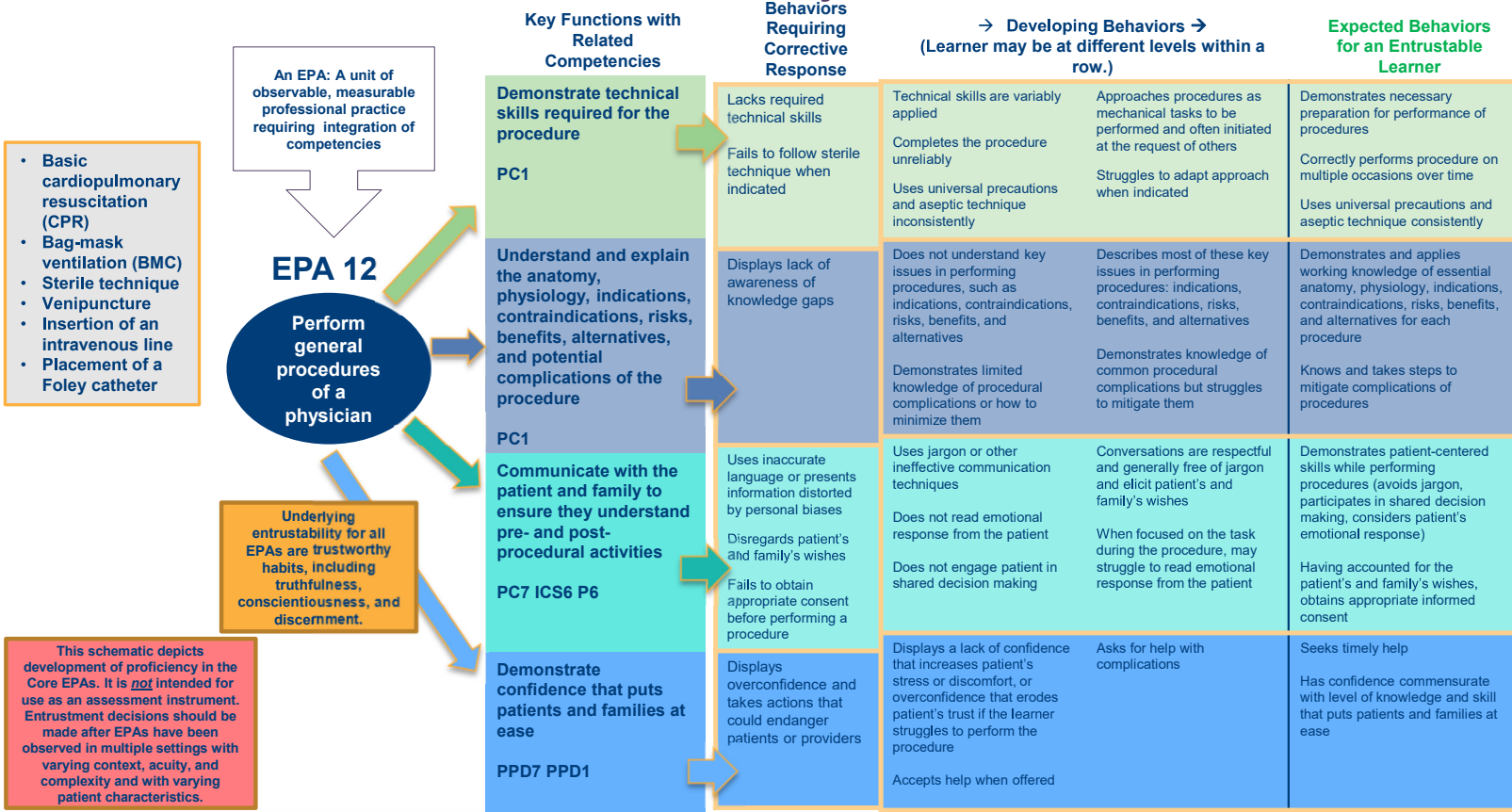


EPA 11: Obtain Informed Consent for Tests and/or Procedures



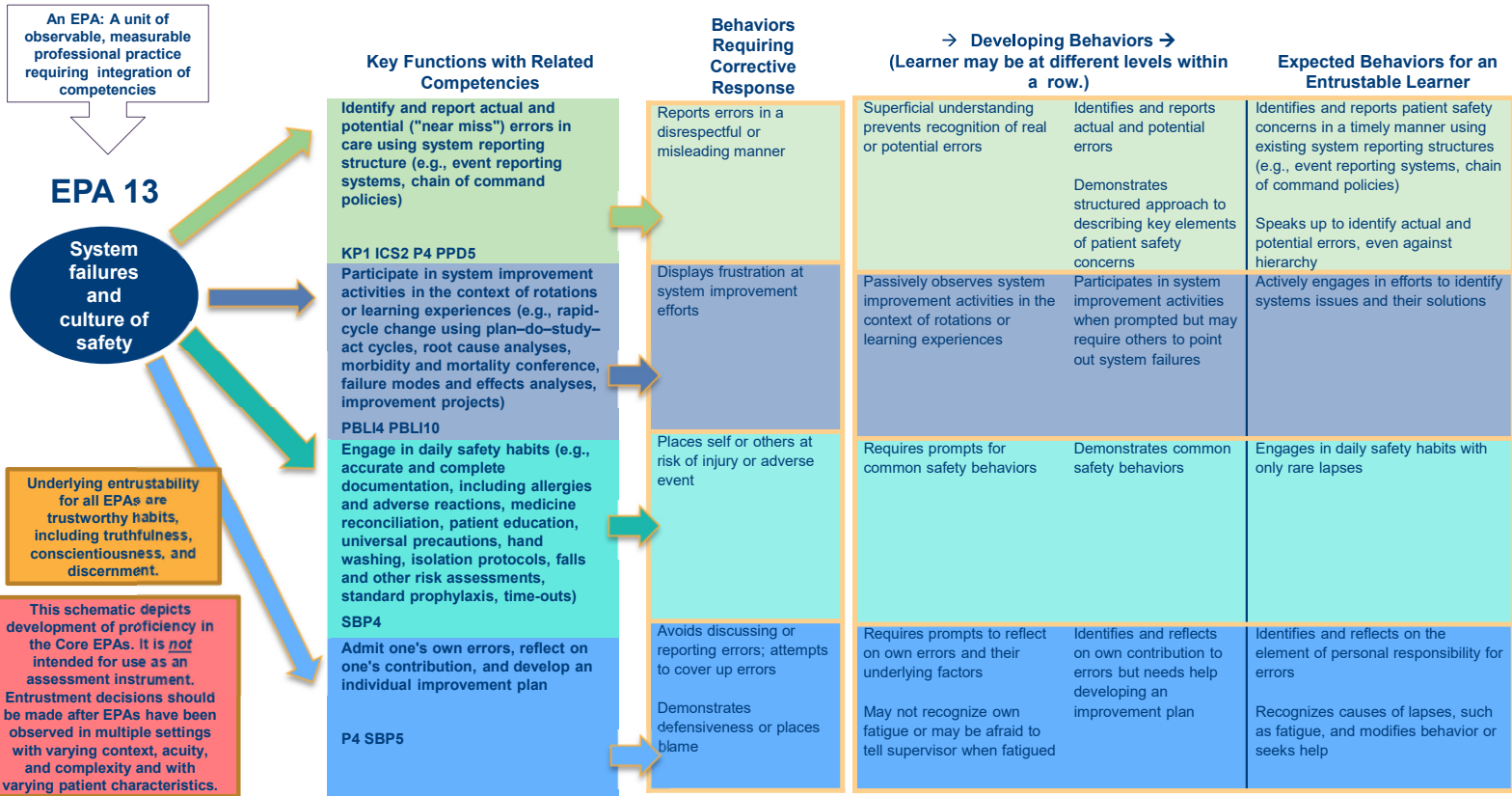


EPA 12: Perform General Procedures of a Physician





EPA 13: Identify System Failures and Contribute to a Culture of Safety and Improvement





Core Entrustable Professional Activities for Entering Residency



Appendix 1: Core EPA Pilot Supervision and Coactivity Scales

Scales for clinical supervisors to determine how much help (coactivity) or supervision they judge a student needs for a specific activity have been proposed—the Chen entrustment scale and the Ottawa scale (Chen et al 2015; Rekman et al 2016). There is limited validity evidence for these scales and no published data comparing them. We include these published tools here for your reference. The Core EPA Pilot Group has agreed on a trial using modified versions of these scales (described below). A description of how the pilot is working with these scales is available on the [Core EPA website](#).

Modified Chen entrustment scale: If you were to supervise this student again in a similar situation, which of the following statements aligns with how you would assign the task?	Corresponding excerpt from original Chen entrustment scale (Chen et al 2015)
1b. “Watch me do this.”	1b. Not allowed to practice EPA; allowed to observe
2a. “Let’s do this together.”	2a. Allowed to practice EPA only under proactive, full supervision as coactivity with supervisor
2b. “I’ll watch you.”	2b. Allowed to practice EPA only under proactive, full supervision with supervisor in room ready to step in as needed
3a. “You go ahead, and I’ll double-check all of your findings.”	3a. Allowed to practice EPA only under reactive/on-demand supervision with supervisor immediately available, all findings double-checked
3b. “You go ahead, and I’ll double-check key findings.”	3b. Allowed to practice EPA only under reactive/on demand supervision with supervisor immediately available, key findings double-checked



Core Entrustable Professional Activities for Entering Residency



Modified Ottawa scale: In supervising this student, how much did you participate in the task?	Original Ottawa scale (Rekman et al 2016)
1. “I did it.” Student required complete guidance or was unprepared; I had to do most of the work myself.	1. “I had to do.” (i.e., requires complete hands-on guidance, did not do, or was not given the opportunity to do)
2. “I talked them through it.” Student was able to perform some tasks but required repeated directions.	2. “I had to talk them through.” (i.e., able to perform tasks but requires constant direction)
3. “I directed them from time to time.” Student demonstrated some independence and only required intermittent prompting.	3. “I had to prompt them from time to time.” (i.e., demonstrates some independence, but requires intermittent direction)
4. “I was available just in case.” Student functioned fairly independently and only needed assistance with nuances or complex situations.	4. “I needed to be there in the room just in case.” (i.e., independence but unaware of risks and still requires supervision for safe practice)
5. (No level 5: Students are ineligible for complete independence in our systems.)	5. “I did not need to be there.” (i.e., complete independence, understands risks and performs safely, practice ready)

