

# Marshall University Joan C. Edwards School of Medicine Core Competencies with Milestones

## Practice-Based Learning and Improvement (PB)

Students must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their practice of medicine, specifically:

Enabling Competency	Milestones students should achieve			
	Year 1	Year 2	Year 3	Year 4
<b>A.</b> Demonstrate skills in retrieving, critically assessing, and integrating biomedical information into clinical decision-making.	<p><b>PB1A1.</b> Retrieve pertinent biomedical information from electronic databases.</p> <p><b>PB1A2.</b> Obtain, analyze, and synthesize information from the medical literature.</p>	<p><b>PB2A1.</b> Critically assess and apply biomedical information to address diagnostic, prognostic and/or treatment questions in clinical care setting.</p> <p><b>PB2A2.</b> Define internal and external validity.</p> <p><b>PB2A3.</b> Formally assess the internal and external validity of original clinical research.</p>	<p><b>PB3A1.</b> Critically assess and apply biomedical information to develop a plan of care for core patient types.</p>	<p><b>PB4A1.</b> Critically assess and apply biomedical information to address diagnostic, prognostic and/or treatment question in area(s) of specialty/disciplinary interest.</p>
<b>B.</b> Discuss the basic principles of basic, clinical, and translational research and how this research is applied to patient care.	<p><b>PB1B1.</b> Describe the fundamental components of basic, clinical and translational research.</p> <p><b>PB1B2.</b> Discuss the fundamental principles underlying the conduct and application of clinical trials in patient care.</p> <p><b>PB1B3.</b> Describe the role of the Institutional Review Board.</p>	<p><b>PB2B1.</b> Discuss how research findings are incorporated into clinical decision making and identify barriers to this incorporation.</p>	<p><b>PB3B1.</b> Develop a clinical question based on a real patient, identify relevant research findings, critically evaluate the validity and reliability of that research, and discuss the application of these findings to the care of this patient.</p> <p><b>PB3B2.</b> Discuss how clinical and research roles may conflict, and how processes of consent may differ.</p> <p><b>PB3B3.</b> Describe the process of obtaining appropriate informed consent for</p>	<p><b>PB4B1.</b> Describe the application of research findings to patient care in area of specialty/disciplinary interest.</p> <p><b>PB4B2.</b> Explain research findings to patients.</p>

<p><b>C.</b> Apply principles of patient safety and quality improvement to enhance patient care</p>	<p><b>PB1C1.</b> Discuss the importance of patient safety and describe the basic elements of patient safety programs.</p> <p><b>PB1C2.</b> Define medical error and discuss the incidence of medical error in the United States and the impact of medical error on patient outcomes.</p> <p><b>PB1C3.</b> Identify quality measures and describe how these measures are validated.</p> <p><b>PB1C4.</b> Discuss the principles of quality improvement and describe the basic elements of quality improvement programs.</p>	<p><b>PB2C1.</b> Identify clinical situations in which patient safety may be jeopardized.</p>	<p>participation in research.</p> <p><b>PB3C1.</b> Identify potential patient safety issues and identify strategies to improve outcomes in the clinical setting.</p> <p><b>PB3C2.</b> Identify a change or changes in patient care at MUJCESOM that have resulted from a quality improvement project</p>	<p><b>PB4C1.</b> Describe lessons learned from participation in a project to improve patient safety and present findings and recommendations.</p> <p><b>PB4C2.</b> Incorporate the principles of quality improvement to improve the care of patients with core medical problems.</p>
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