



Skill-Oriented Medical Education in Laboratory Sciences

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The evolving landscape of healthcare necessitates a deep dive into Competency-Based Medical Education (CBME) and its pivotal role in shaping the future of Medical Laboratory Science (MLS). This educational paradigm places a strong emphasis on mastering competencies crucial for effective practice, tailored to meet the specific demands of a dynamic healthcare setting. Future CBME models in MLS are expected to highlight a wide range of skills that go beyond the conventional laboratory techniques. A key focus area will be the seamless integration of cutting-edge technology into laboratory procedures. With the increasing prevalence of automation, artificial intelligence, and telemedicine, MLS professionals must be proficient in utilizing these technologies to enhance diagnostic precision and operational efficiency. This calls for not only technical expertise but also sharp critical thinking skills to analyse and decipher intricate data produced by advanced systems. Interdisciplinary collaboration is set to play a pivotal role in future CBME frameworks. In an era of integrated healthcare, MLS practitioners will be required to collaborate closely with other healthcare experts, necessitating robust communication and teamwork abilities. This collaborative approach is vital for ensuring holistic patient care, underscoring the significance of comprehending the roles and contributions of diverse team members. Moreover, as global health challenges like pandemics and health disparities loom large, future MLS education must encompass competencies related to public health, epidemiology, and cultural competence.



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Precision, Innovation, and Legacy in Laboratory Medicine



This will equip graduates to tackle the broader implications of laboratory science in the realm of community health. In essence, the future of CBME in Medical Laboratory Science must evolve in tandem with the evolving healthcare landscape by nurturing a skill set that encompasses technological prowess, interdisciplinary collaboration, and public health acumen. Through this approach, MLS education can guarantee that upcoming professionals are not only competent but also well-equipped to lead in an increasingly intricate healthcare environment.

