

Foreword

The resource book *Optimizing Medical Education With Instructional Technology* provides a broad perspective of changes in the medical field as the growth of integration in new technologies in education.

The chapters develop core themes relevant to understanding the changing nature of medical education. There are chapters that provide research-based discussions of specific transformative technologies including the integration of mobile devices in medical education and clinical settings. Mobile devices offer opportunities to provide access to medical data such as monitoring atrial fibrillation that change the level and quality of interaction among patients and medical personnel.

Several chapters are devoted to developing comprehensive research-based responses to the changing nature of medical classrooms and the interactions among learners and educators as a result of the integration of instructional technologies. There are chapters about simulations to teach anesthesia, flipping classrooms to blended forums and the development of collaborative mentoring learning forums instead of the traditional lecture-based classroom.

Additionally, there are chapters written from the perspective of the learners as new technologies are integrated into a more constructivist learning program such as a competency-based learning program.

Finally, there are chapters that deal with overarching social issues that are discussed in chapters on the integration of instructional technologies to reduce health disparities. The issue of the ethical integration of new technologies into medical education is discussed including both the potential and the problems inherent in the integration of instructional technologies into medical education.

In summary, this resource book develops a broad and comprehensive research-based review of the current state of integration of instructional technologies in medical education that provides the reader with a coherent perspective on the state of change in medical education resulting from the integration of transformative new technologies.

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