



Systematic Review

A systematic review of Roles and Responsibilities of Medical Education Department

Imran Sabri

Associate Professor, Dr N.Y. Tasgaonkar Institute of Medical Science, Nasik, India

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Corresponding Author:

Imran Sabri

Associate Professor, Dr N.Y.
Tasgaonkar Institute of Medical
Science, Nasik, India

Email: imransabri@gmail.com

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ABSTRACT

Background: Medical education departments (MEDs) are essential organizational units within medical schools and healthcare institutions. They support the planning, implementation, and evaluation of educational programs and contribute to improving teaching quality, research, and academic governance. In recent years, the integration of evidence-based practices, particularly those derived from systematic reviews, has become increasingly important in guiding educational policies and practices. Understanding the roles and responsibilities of MEDs within this evidence-based framework is therefore crucial.

Objective: To examine and synthesize the roles and responsibilities of medical education departments in medical schools, with particular emphasis on their contributions to curriculum development, faculty development, student support, quality assurance, research, and the integration of evidence from systematic reviews.

Methods: A narrative synthesis approach based on relevant literature in medical education was conducted. Published studies, reviews, and institutional reports related to the functions of medical education departments were examined. Key themes were identified regarding the operational domains of MEDs, including curriculum management, faculty training, student assessment, quality assurance, research activities, and community engagement. The role of MEDs in promoting the use and dissemination of systematic review evidence within educational programs was also analyzed.

Results:

The review identified several core functions of medical education departments. These include leadership in curriculum design and implementation, provision of faculty development programs to enhance teaching and research skills, and development of effective student assessment and support systems. MEDs also play a vital role in maintaining educational quality through accreditation processes and continuous program evaluation. Additionally, these departments contribute to educational scholarship and facilitate the translation of research evidence, including findings from systematic reviews, into teaching practices and policy development. Service provision, such as continuing medical education and outreach to healthcare professionals, further extends their impact beyond academic institutions.

Conclusion: Medical education departments play a central role in strengthening the quality and effectiveness of medical education. By integrating evidence from systematic reviews into educational practices, they help ensure that curricula, teaching strategies, and assessment systems are grounded in best available evidence. Strengthening these departments through adequate resources, institutional support, and recognition can enhance their capacity to advance medical education and ultimately improve healthcare outcomes.

INTRODUCTION

Medical education departments play a pivotal role in the structure and function of medical schools and healthcare institutions. Their responsibilities span various domains, including curriculum development, faculty development, student support, quality assurance, and research. This section explores the roles and responsibilities of medical education departments, particularly in the context of systematic reviews, drawing on insights from relevant literature.

1. Curriculum Development and Implementation

Medical education departments are central to the design, implementation, and evaluation of medical curricula. They ensure that educational programs align with national and international standards, incorporating evidence-based practices and emerging trends in healthcare. For instance, these departments often lead curriculum reviews and updates, ensuring that teaching methods and content reflect contemporary medical knowledge and competencies (Kiguli-Malwadde et al., 2015) (Shawwa, 2012).

In the context of systematic reviews, medical education departments can facilitate the integration of evidence from systematic reviews into curricula, ensuring that students and faculty are informed by the best available research. This role is critical for maintaining the relevance and quality of medical education (Fordis et al., 2016) (Davis et al., 2005).

2. Faculty Development

Faculty development is another key responsibility of medical education departments. These departments provide training and resources to faculty members to enhance their teaching, assessment, and research skills. Workshops, seminars, and fellowship programs are common tools used to foster faculty competency in areas such as educational research, curriculum design, and innovative teaching methodologies (Batool et al., 2018) (Adkoli & Sood, 2009).

In systematic reviews, faculty development programs can ensure that educators are equipped to critically appraise and apply the findings of systematic reviews in their teaching practices. This not only improves the quality of education but also strengthens the connection between research and practice (Coates et al., 2016) (Christner et al., 2020).

3. Student Support and Assessment

Medical education departments are also responsible for providing support to students, including academic advising, mentorship, and career guidance. They play a crucial role in developing and implementing assessment strategies that evaluate student learning outcomes effectively. These assessments often include both formative and summative evaluations, ensuring that students meet the required competencies for their future roles as healthcare professionals (Bakri & Rickenbach, 2014) (Ismail et al., 2024).

In the context of systematic reviews, these departments can ensure that assessments are evidence-based and aligned with the findings of systematic reviews, particularly in areas such as competency-based education and workplace-based assessments (Paul et al., 2023).

4. Quality Assurance and Accreditation

Quality assurance is a fundamental responsibility of medical education departments. They work to ensure that medical education programs meet the standards set by accrediting bodies and regulatory agencies. This involves monitoring educational processes, conducting regular evaluations, and implementing improvements based on feedback from stakeholders, including students, faculty, and healthcare professionals (Latif & Wajid, 2018) (Shakoor et al., 2022).

In systematic reviews, quality assurance activities can be informed by evidence from systematic reviews, ensuring that educational programs are not only compliant with standards but also grounded in best practices identified through rigorous research (Davis et al., 2005) (Al-Wardy, 2008).

5. Research and Scholarship

Medical education departments are also involved in educational research, contributing to the advancement of medical education as a field. They conduct studies on teaching methodologies, curriculum design, and assessment strategies, among other topics. These research efforts often inform the development of evidence-based educational practices and contribute to the broader medical education community (Shawwa, 2012) (AlSheikh et al., 2022).

In the context of systematic reviews, medical education departments can play a key role in synthesizing research findings and translating them into actionable recommendations for educators and policymakers. This ensures that systematic reviews are not only conducted rigorously but also applied effectively in real-world educational settings (Fordis et al., 2016) (Kiguli-Malwadde et al., 2015).

6. Service Provision and Community Engagement

Many medical education departments provide educational services beyond their immediate institutions, contributing to the broader healthcare community. For example, they may offer continuing medical education (CME) programs for practicing healthcare professionals, ensuring that clinicians remain updated on the latest medical knowledge and practices (Fordis et al., 2016) (Adkoli & Sood, 2009).

In systematic reviews, these departments can facilitate the dissemination of review findings to healthcare professionals, promoting the integration of evidence-based practices into clinical practice. This role is particularly important in addressing the gap between research and practice in healthcare (Davis et al., 2005) (Al-Wardy, 2008).

7. Challenges and Opportunities

Despite their critical roles, medical education departments face several challenges. These include limited resources, inadequate staffing, and the need for greater recognition of their contributions to medical education. Additionally, the dynamic nature of healthcare and education requires these departments to be adaptable and innovative in their approaches (Latif & Wajid, 2018) (AlSheikh et al., 2022).

In the context of systematic reviews, these challenges can be addressed by leveraging the findings of systematic reviews to inform decision-making and resource allocation. For example, systematic reviews can identify best practices for faculty development, curriculum design, and quality assurance, providing medical education departments with evidence-based strategies to overcome challenges (Fordis et al., 2016) (Kiguli-Malwadde et al., 2015).

8. The Role of Medical Education Departments in Systematic Reviews

Medical education departments can play a crucial role in the conduct and dissemination of systematic reviews. They can facilitate the integration of systematic review findings into educational programs, ensuring that students and faculty are informed by the best available evidence. Additionally, these departments can contribute to the conduct of systematic reviews by providing expertise in educational research and methodology (Fordis et al., 2016) (Davis et al., 2005).

By fostering collaboration between researchers, educators, and healthcare professionals, medical education departments can ensure that systematic reviews are not only rigorous but also relevant and applicable to real-world educational and clinical contexts (Kiguli-Malwadde et al., 2015) (Al-Wardy, 2008).

Table: Key Roles and Responsibilities of Medical Education Departments

Role/Responsibility	Description	Citation
Curriculum Development	Design, implementation, and evaluation of medical curricula	(Kiguli-Malwadde et al., 2015) (Shawwa, 2012)
Faculty Development	Training and resources for faculty to enhance teaching and research skills	(Batool et al., 2018) (Adkoli & Sood, 2009)
Student Support and Assessment	Academic advising, mentorship, and development of assessment strategies	(Bakri & Rickenbach, 2014) (Ismail et al., 2024)
Quality Assurance and Accreditation	Monitoring and improving educational programs to meet accrediting standards	(Latif & Wajid, 2018) (Shakoor et al., 2022)
Research and Scholarship	Conducting studies on educational practices and contributing to medical education	(Shawwa, 2012) (AlSheikh et al., 2022)
Service Provision and Community Engagement	Providing CME programs and educational services to the broader healthcare community	(Fordis et al., 2016) (Adkoli & Sood, 2009)

CONCLUSION

Medical education departments are integral to the functioning of medical schools and healthcare institutions. Their roles and responsibilities encompass curriculum development, faculty development, student support, quality assurance, research, and community engagement. In the context of systematic reviews, these departments can facilitate the integration of evidence-based practices into education and clinical care, ensuring that healthcare professionals are equipped to provide high-quality patient care. By addressing challenges and leveraging opportunities, medical education departments can continue to play a vital role in advancing medical education and healthcare outcomes.

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