Medical Education in Sudan: A Recommendation to Adopt Competency-based Medical Education Curricula for Improving Practices (SudaniMEDs)

Mohamed Hassan Taha

Sudan is a leading country in health professions education (HPE), a sector which started 100 years ago. The history of HPE in Sudan dates back to 1918 with the training of medical assistants, with a school for modern midwifery opening in 1921 [1]. The first college of medicine in Sudan—Kitchener School of Medicine (KSM)—was established in 1924 and is currently a part of the University of Khartoum [2]. About half-a-century later, two more medical schools—Juba University School in 1977 and Gezira University School in 1978—were established. In the 1990s, there was an enormous expansion in higher education, particularly in colleges of medicine, with more than 30 being inaugurated [3]. Currently, Sudan has more than 60 colleges of medicine.

Several problems facing newly established medical schools in Sudan have been identified in recent years: challenges in designing an appropriate curriculum, lack of essential educational resources crucial to run a school consistent with quality standards, extreme shortage of qualified medical faculty due to migration, and lack of appropriate clinical training facilities and teaching hospitals [2, 3]. Furthermore, there are concerns that the significant expansion of higher education in Sudan, along with unparalleled strategic planning for establishing these medical schools to ensure proper training of medical students and a clear national policy for ensuring the competency of graduates, might affect the quality of the services provided to patients [3, 4].

Several studies have suggested that the provision of high-quality and safe patient care can only be guaranteed if medical students receive proper clinical teaching [5–7]. Therefore, several medical schools worldwide are increasingly focused on improving clinical teaching, implementing competency-based medical education (CBME) [8]. CBME is an educational approach to guarantee that medical graduates develop the competencies required to fulfil patients’ needs in society [9]. This means that teaching,
learning, and assessment focus on the development of competencies and continues till the desired competency is achieved [10].

Most countries that have adopted CBME have used a national competency framework developed by local higher authorities. These frameworks do not necessarily aim at unifying the curricula of the medical schools in these countries, but instead ensure the minimal competencies required at the level of graduation for the safe provision of medical care.

Several competency frameworks have been developed and implemented worldwide: the CanMEDS initiative in Canada; the Accreditation Council of Graduate Medical Education of the United States of America; Tomorrow’s Doctors: Recommendations on Undergraduate Medical Education in the United Kingdom; the Scottish Doctor Competency Framework; Good Medical Practice; the Australian curriculum framework for junior doctors; the 2009 framework for undergraduate medical education in the Netherlands; Swedish medical education standards; the Brown University Nine Abilities, Medical School Objectives Project by AAMC; Global Minimal Essential Requirements; the European Medical Tuning Project; Dundee 12 outcomes; and the International Medical College Outcomes Malaysia [11–16]. Figures 1 and 2 show examples of these competency frameworks, focusing on the main themes around which the core competencies have been developed.

Figure 1: Example of National Competency Framework in the region (SaudiMEDs) [18].
1. Roadmap for the Development of the National Competency Framework (Sudanese Medical Education Directives SudaniMEDs)

Similar to most international frameworks, the following approach is suggested:

1. Review of previous work.
2. Running of many workshops and virtual meetings to develop the first draft of the framework.
3. Agreement of the major domains, sub-domains, and competencies/learning outcomes following these consultative workshops.
4. Involvement of the stakeholders, which could be achieved by the use of the Delphi technique [17].
5. Involvement of all Sudanese medical schools and national medical education experts.
6. Review of the finalized framework by international experts of medical education who participated in developing national and international CBME frameworks and are involved in accreditation of medical schools worldwide.

These steps are important, but the most important points that need to be considered in experts’ views and recommendation should have been taken into consideration in
the final draft of the Sudanese national competency framework; Sudanese Medical Education Directives (SudaniMEDs).

2. Elements of the Suggested Framework

This framework might be developed at different levels, including (a) core competencies for undergraduate medical curricula for Sudanese doctors, (b) enabling competencies that should be useful as guidance for learning outcomes in the medical curriculum, (c) clinical presentations that clinical training needs to emphasize, and (d) clinical skills and procedures needed to be mastered before graduation.

3. The Importance of SudaniMEDs (Suggested Framework)

This framework should be used as a guiding principle for curriculum design and development for all medical schools. The core competencies of the graduates and their characteristics could be shaped from the core competencies for this framework. The course learning outcomes could also be extracted from this framework. Moreover, all clinical presentations and skills that should be covered in undergraduate medical schools in Sudan could be extracted from this framework.

4. Who Should Collaborate to Develop this Framework?

Several higher authorities and governing bodies could participate in the development of this national framework and transformation into CBME, such as the Association of Deans of Medical Schools, the Sudanese Association of Medical Education, medical education development centers in medical schools, the Sudan Medical Council, the Sudan Medical Specialization Board, and national and international experts in medical education.

References


