

# Practical Guide to Undergraduate Medical Curriculum Alignment and Mapping

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Correspondence: Moeber Mahzari, King Saud bin Abdulaziz University for Health Sciences, King Abdulaziz Medical City, National Guard Health Affairs, Mail Code 3136, P.O. Box 3440, Riyadh, 11481, Saudi Arabia, Tel +966 11 429 5325, Email moeber@hotmail.com; mahzarim@ksau-hs.edu.sa

**Objective:** Curriculum development and reviews are of paramount importance for academic programs curriculum management. Medical curricula need proper construction and frequent updates to suits learning outcomes considering their integrative nature and rapid scientific advancement. Curriculum alignment and mapping are fundamental for proper integration and planning of medical curriculum. This process is beneficial in detecting gaps and redundancies, and ensuring proper instruction, integration, and transparency. However, there is a paucity in the literature of a practical guidance to such process. Hence, this manuscript provides a practical guidance that was adopted in our institutes.

**Methods:** A detailed description of twelve step-by-step guidance to curriculum alignment and mapping was provided. The process needed for each step and the flow chart of work was detailed.

**Results:** This guide was developed and implemented successfully. Among many benefits encountered, many gaps in the contents, learning outcomes and assessment methods were detected and rectified. Additionally, better curriculum integration has been achieved. The current mapping will make any future curriculum reviews easier.

**Conclusion:** This guide could be utilized by newly developed and existing programs for curriculum alignment and mapping. It fills a gap in academic literature through stepwise workflow which has been tested and implemented.

**Keywords:** curriculum, mapping, learning outcomes

## Introduction

A curriculum defines the intended knowledge skills and learning outcomes expected by students.<sup>1</sup> A curriculum is designed based on learning and instruction principles and requires a composite of different educational strategies, course content, learning outcomes, educational experiences, assessment, and a suitable educational environment considering individual students' learning styles and programs of work.<sup>1,2</sup> To have a constructive curriculum, harmonization is a mainstay between declared or planned curriculum, operational curriculum (taught or learned), and experienced curriculum.<sup>1,3</sup> This requires proper alignment between the intended learning outcomes (curricular intent) expected in the declared curriculum and other instructional components, namely teaching methods, within-class teaching activities, and assessment, to ensure coherency.<sup>4</sup> Communicability, transparency, and versatility are crucial pillars in the design and execution of curriculum, as they allow for continuous revision, evaluation, and modification without difficulty.<sup>5,6</sup> These attributes are frequently neglected in favor of more prominent curricular components, including content, pedagogy of participation, and assessment.<sup>7</sup>

Curriculum mapping is an essential active process that allows holistic spatial visualization of the various parts of the curriculum's interrelationships and connections.<sup>1</sup> The advantages of mapping are multifaceted, as it allows assessing the

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