Biochemistry Teaching in the Undergraduate Medical Course at Universidade Federal de Viçosa

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**Background:** The current competencies and abilities required for the training of medical professionals, recommended by the National Curriculum Guidelines for Undergraduate Medicine (DCN) have initiated discussions about the teaching of biochemistry in medical schools. **Objective:** This study aimed to describe the rationale of education in the Clinical Laboratory Applied disciplines – (LAC) I, II, III, IV, V, VI, VII and VIII – which will be taught from first to eighth period of medical school at UFV. **Methods:** The disciplines were designed based on the competencies required for graduates of the course with 30 class hours each, always following the period of the study unit, integrated with other disciplines. **Results:** In the disciplines LAC I and LAC II, taught in 2010, the students learned basic principles of biosafety, collection and storage of biological samples, validation of diagnostic tests, biochemical tests of cerebrospinal fluid, coagulation and renal function. They learned in the context of solving clinical cases presented and discussed in an integrated manner by a physician and a clinical biochemistry professor. **Conclusion:** According to the DCN, it is essential to facilitate the construction of knowledge in Biochemistry of the medical student, making the run for making clinical decisions based on scientific evidence. **Keywords:** Biochemistry, Medical Education, Laboratory Medicine.