

ABSTRACT:

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Historical progress of laboratory research methods, historical progress and the present of biochemical laboratory research methods

Bachelor thesis

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Background: Object of the work is to catch the circumstances of the origin, establishing and gradual progress of laboratory research methods especially the biochemical ones, in context of medical history and historical progress of nature science cognition. In content, the work concentrates on clarifying of the circumstances of the origin of laboratory research methods as an essential qualitative turn and progress in medical diagnostics. Object of the work is also to clarify the participation of important personalities on the origin and enforcement laboratory research methods, all of this applying on the Czech (Czechoslovak) medical past. In continuity on this methodical process another object of the work is to catch the former status of the biochemical branch more specific, applied methods and at least but not last to specify its part and target in the medicine today.

Main findings: An effort to explore a biological human material as an important part of diagnostics accompanies the progress of medicine from the oldest times. The possibilities of exploring these materials had been reduced on sensual observation and comparing for a long time. Apparently a uroscopy is the oldest and most enlarged method. There have been made new space for this activity in connection to the rise of iatrochemistry and iatrophysics. From the half of the 19th century the biochemical laboratory research methods have started to appear. Its assertion to medical technice was gentle, the specialists missed mainly and number of specific laboratory areas was also reduced. A world wide movement comes after the WWI., in the Czech (Czechoslovak) countries the turn and progress of biochemical laboratory methods can be situated to the edge of 40's and 50's. Laboratory research methods envolved and improved gradually, its scale enlarged and mainly it spread into the whole web of medical organisations. And with this the implementation of a system into the training of specialists is connected. Now these biochemical laboratory methods takes an essential and inseparable part of medical diagnostics.