Department of Medical Chemistry and Clinical Biochemistry

**Departmental Focus:**

1. **Teaching**
   Medical chemistry and biochemistry is taught in undergraduate master's degree study (general medicine study programme) and postgraduate courses. Biochemistry is lectured in both semesters of the 2nd year of master's degree study, the winter semester is reserved for the metabolic pathways, while, in the summer semester, the organ biochemistry is emphasized. Clinical biochemistry is taught by means of the discussion medical case reports in the 4th year of master's degree study. The department members are responsible for specialty council ‘Biochemistry and Pathobiochemistry’ in the case of the doctoral study (PhD programme).

2. **Science and research**

3. **Postgraduate specialized education**
   Department of Medical Chemistry and Clinical Biochemistry ensures specialized education of laboratory technicians, medical doctors and non-medical laboratory specialists in clinical biochemistry, and specialized education in clinical pharmacology. The department received accreditation in all of these four mentioned fields.

4. **Central biochemical laboratory**
   Department of Medical Chemistry and Clinical Biochemistry consists of the
section of logistics and biological material samples reception, the central biochemical laboratory, the RIA laboratory, the section of clinical pharmacology (TDM and pharmacokinetics), the section of immunochemistry and serology, the special methods section (HPLC, AAS, FTIR), the urinary laboratory and the laboratory for urinary stones analysis. Special laboratory for the measurement of chloride in sweat and large POCT hospital network are also parts of this department. This department offers over 220 various laboratory examinations. It receives 2150 biological samples on average daily, it means about 700 000 examinations/month in continuous three-shift operation. A number of the tests is performed also for other external healthcare facilities, e.g. MTX, cyclosporine A, busulfan, tacrolimus, sirolimus, lead, platinum, IGF-1, voriconazol, and others. Department of Medical Chemistry and Clinical Biochemistry includes out-patient clinic dealing with bone metabolism disorders, dyslipoproteinemias, and nutrition disorders such as obesity and malnutrition.

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