Clinical Diagnostics &Biomedical Analysis Lab
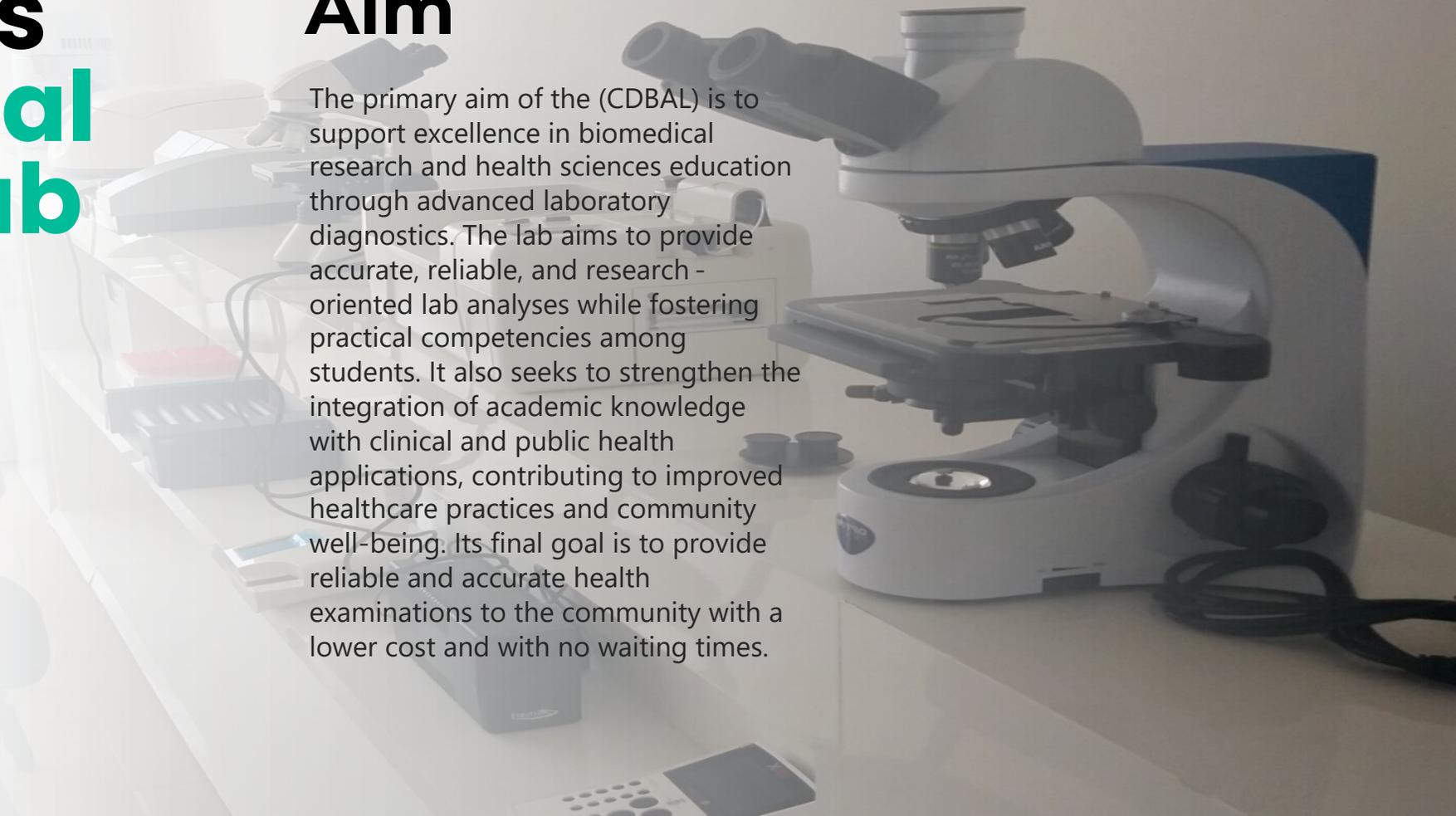
The Clinical Diagnostics and Biomedical Analysis Lab(CDBAL) at the Faculty of Health, University "Ismail Qemali" Vlora, is a specialized research and teaching infrastructure dedicated to laboratory medicine, biomedical sciences, and health monitoring. Equipped with modern diagnostic instruments and analytical technologies, the lab performs blood examinations and evaluates a wide range of physiological and biochemical health parameters.

The facility serves as a scientific platform for applied research, clinical training, and interdisciplinary collaboration in health-related fields.

Aim

The primary aim of the (CDBAL) is to support excellence in biomedical research and health sciences education through advanced laboratory diagnostics. The lab aims to provide accurate, reliable, and research - oriented lab analyses while fostering practical competencies among students. It also seeks to strengthen the integration of academic knowledge with clinical and public health applications, contributing to improved healthcare practices and community well-being. Its final goal is to provide reliable and accurate health examinations to the community with a lower cost and with no waiting times.
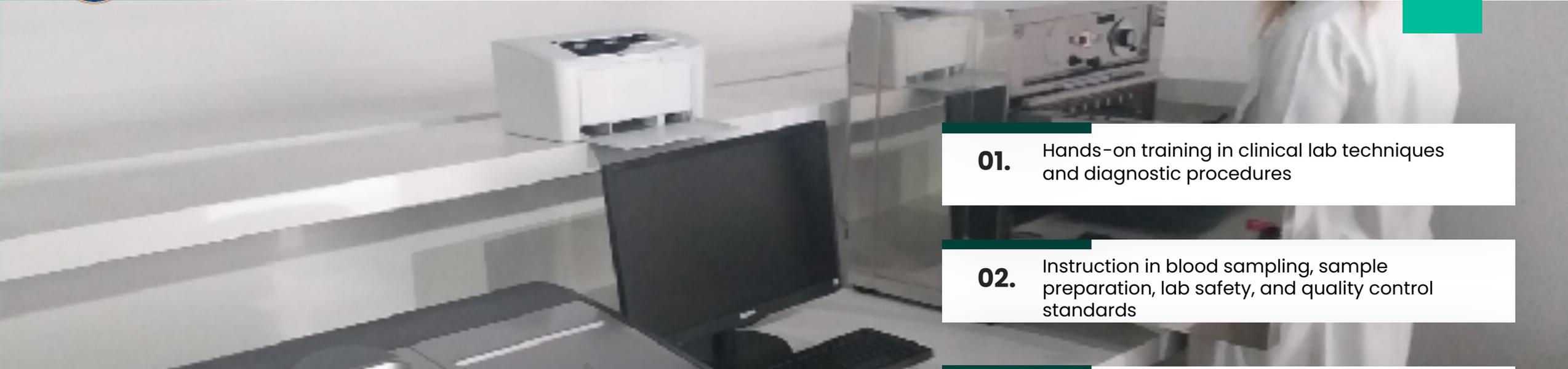
01. Hematological and biochemical blood analyses for research purposes

02. Evaluation of key health indicators such as glucose levels, lipid profiles, liver and kidney function markers, inflammatory markers, and other metabolic parameters

03. Monitoring and assessment of biomarkers related to chronic diseases and public health conditions

04. Participation in interdisciplinary research projects focused on disease prevention, early diagnosis, and health risk assessment

05. Data collection and statistical analysis for epidemiological and health-related studies; Establishment of data for longitudinal studies

Main research activities

The lab supports experimental and applied research in clinical diagnostics, preventive medicine, and biomedical sciences.

01. Hands-on training in clinical lab techniques and diagnostic procedures

02. Instruction in blood sampling, sample preparation, lab safety, and quality control standards

03. Development of competencies in interpreting lab results and understanding clinical correlations

04. Support for bachelor's, master's, and doctoral theses involving lab investigations

05. Training in ethical standards, patient data confidentiality, and biomedical research methodologies

Main teaching activities

The lab plays a fundamental role in practical training and lab-based education for students in health sciences and related disciplines.

Services to third partners

Beyond its academic mission, the (CDBAL) provides professional services to the community, third partners, stakeholders, and external institutions.

01. Blood testing and lab evaluation of key health parameters for research and preventive health purposes to the community and general population

02. Collaboration with healthcare providers, public institutions, and research organizations

03. Support for clinical studies, health monitoring programs, and screening initiatives

04. Technical consultancy and lab expertise for biomedical projects; Health education and promotion

05. Capacity-building activities and knowledge transfer in lab diagnostics and health assessment