

Clinical Biochemistry Department Section

Department of Laboratory Medicine and Pathology



مؤسسة حمد الطبية
Hamad Medical Corporation

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Clinical Biochemistry Department Section

The Clinical Chemistry Laboratory, also known as clinical biochemistry, chemical pathology or pure blood chemistry, is a branch of Laboratory Medicine that is generally concerned with the analysis of body fluids to help doctors investigate and explain biological processes and pathophysiological changes by applying chemical procedures and principles.

Subsections

- General or routine chemistry
- Endocrinology - the study of hormones and tumor markers
- Special chemistry
- Toxicology
- Immunology

Goals

Biochemical investigation goals are involved in every branch of clinical medicine. Each biochemical test measures the value of different substances in the blood. These values provide information on the function of different organ systems -kidney, liver, etc. - or the risk for certain diseases such as diabetes mellitus, coronary heart disease, etc. A physician uses these tests in conjunction with personal medical history, a complete physical examination and other tests to assess the overall state of a person's health.

Results of biochemical tests may be of use in:

- Diagnosis of diseases
- Assessing the prognosis once a diagnosis has been made
- Monitoring of treatment
- Screening for diseases
- Researches and clinical trails

Specimens analyzed

- Venous or arterial whole blood
- Serum or plasma
- Cerebro-Spinal fluid (CSF)
- Urine
- Other body fluids: pleural, peritoneal, gastric... etc.

Clinical and Technical Staff

Medical and scientific personnel, who are familiar with the clinical significance and the analytical performance of the test procedures, should know how to operate machines and deal with reagents., as well as give advice on the interpretation of the results.





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