The Institute of Clinical Chemistry and Laboratory Medicine
Carl-Gustav-Carus University Hospital, Dresden
Acception of samples and central registration of requested analyzes

This place also serves for the central monitoring of the working status.
Central laboratory - Sorting and control of sample tubes

Sample tubes are automatically sorted in respect to their size and colour code.
Central laboratory - Manual preparation and centrifugation of samples
Central laboratory - Automated sample processing

Automated preparation and processing of samples (Beckman Power Processor).
Central laboratory -
Clinical chemistry analyzers - I

Left: Clinical chemistry analyzer Beckman Synchron LX-20.
Right: Clinical chemistry analyzer Abbott AXSYM und Roche Hitachi 917.
Left: Clinical chemistry analyzer Roche ELECSYS 2010 und Roche Hitachi 917. Right: Clinical chemistry analyzer Roche Hitachi 717.
Central laboratory - Clinical chemistry analyzers - III

Clinical chemistry analyzer Abbott TDX.
Central laboratory -
Clinical chemistry analyzers - IV

Dade-Behring Nephelometer II.
Central laboratory - Clinical chemistry analyzers - V

Protein electrophoresis.
Central laboratory -
Secondary distribution of samples
Clotting laboratory - Coagulation analyzers

Left: Coagulation analyzer Sigma AMGA (basic analyzes).
Right: Coagulation analyzer Sigma AMAX (special analyzes).
Clotting laboratory - Platelet function test

Principle: Platelets are activated when passing a capillary and the time is determined when the capillary is closed.
Clotting laboratory - Aggregometer
Hematological laboratory - Automated hematological analyzer

Coulter GenS with SlideMaker.
Hematological laboratory - Manual cell differentiation
Bloodgasanalyser (Bayer Vital CHIRON) and HPLC-Analyser (Bio-Rad DIAMAT).
Hematological laboratory - Flow cytometry

Flowcytometer (Beckman-Coulter EPICS XL-MCL).
Hematological laboratory - Ambulance room
Hormone laboratory -
Sample registration and preparation
Hormone laboratory - Endocrinological analyzers - I

Endocrinological analyzer Bayer ACS-180.
Left: Endocrinological analyzer Byk&Dia Sorin LIAISON.
Right: Endocrinological analyzer DPC Biermann IMMULITE.
Special clinical chemistry - Atomic absorption

Left: Atomic absorption analyzer Hitachi, Inc. AAS Z-8200.
Right: Atomic absorption analyzer Analytik Jena GmbH, AAS 5FL.
Special clinical chemistry -
In vitro allergen testing

Pharmacia Diagnostics, AutoCAP.
Special clinical chemistry - Electrophoreoses

Special Elektrophoreoses, HELENA Lab. Rapid Electrophoresis REP System.
DNA laboratory - PCR-systems

PCR-Cycler (PE GeneAmp 9600 and 2400) and RealTime PCR-System (Bio–Rad I–Cycler)
DNA laboratory - DNA sequencer

DNA-Sequencer (ABI 310).
DNA laboratory - preparation of agarose gels

DNA laboratory -
Photo documentation system

Photo documentation system for electronic documentation of electrophoresis gels (Raytest AIDA).
The clinical chemist or clinical pathologist validates the laboratory results. He contacts the wards (if necessary), controls the analytical processes and is responsible for timely handling of incoming samples.
Electronic data processing

Two LIS-Server SUN Sparc, SunOS 5.5.1 (bottom) for the Laboratory Information System (LIS) OSM, two Windows 2000 Domain-server (top) and web-servers.
Institute library
Forms for requesting laboratory analyzes - I
Forms for requesting laboratory analyzes - II
Forms for requesting laboratory analyzes - III
Forms for requesting laboratory analyzes - IV
Forms for requesting laboratory analyzes - V
Forms for requesting laboratory analyzes - VI