

PATHOLOGY LABORATORY SERVICES



About UHS

University Hospital Sharjah (UHS) is a tertiary care multispecialty hospital located in the University City area of Sharjah.

It brings together a multidisciplinary team of physicians, nurses and health-care professionals to address the most complex and challenging medical problems for the residence of Sharjah and Northern Emirates. UHS is also an academic institution and enjoys a robust educational affiliation with the Medical College at University of Sharjah.

With the unlimited support of His Highness Sheikh Dr. Sultan bin Mohammed Al Qassimi, University Hospital Sharjah will always endeavor to be the leading healthcare provider in the region.

Our Service Strength

325 beds spread across multiple specialties including 210 In-patient beds, 40 Specialty outpatient beds, 34 Emergency beds, 16 ICU beds, 20 Neonatal ICU, 12 Hemodialysis beds, Physiotherapy department, Cardiac Catheterization Laboratory.

Advanced breast cancer treatment and surgical solutions in collaboration with Gustave Roussy Centre.

Regional center of excellence for maternity care with dedicated theatre suite, fetal assessment unit, ultrasound department and neonatal intensive care unit.

First-of-its-kind children's diabetes clinic specialised in providing check-up, follow-up and treatment.

Level 3 NICU equipped to care for babies born at 23 weeks gestation and above as well as babies born with critical illnesses at all gestational ages.

24/7 Emergency Services.

24 hours pharmacy.

“DELIVERING EXCEPTIONAL HEALTHCARE”



Introduction

University Hospital Sharjah - Department of Pathology & Laboratory Medicine (UHS - DPLM), is one of the top innovative and future - oriented laboratory in UAE and the entire GCC. It is fully equipped with the state-of-the-art automated technologies. It performs the most advanced, complicated tests and screening, with the mandate to provide quality, cost-effective investigations under the management and supervision of highly qualified staff. (UHS - DPLM) has been operating since June, 2011



Medical Laboratory Management Team

Medical laboratory management team includes highly experienced professionals in medical fields, clinical pathology, project management, information technology, laboratory information technology (LIS) and laboratory management.

The professional specialized consultants and practitioners have the facility to communicate, interact or discuss with the lab manager and clinical pathology specialists in all times in order to improve services in different laboratory department continuously and to commit with the principle of quality comes first.

Quality Assurance Program

The laboratory provides highest quality services (>650 tests) to its clients with an efficient and caring experience, the best Turn-Around-Time (TAT) on reports as well as a commitment and participation in the International Quality Assurance Program. Health, Safety and environmental issues presentation are amongst strongly considered areas.

Our experienced Laboratory Pathologists, Manager, Medical Technologists and Support Staff are trained to utilize state-of-art technologies efficiently, maintaining the highest standards and requirements for quality testing in accordance with guidelines of the international accreditation bodies.

To ensure correct identification and easy tracking of each specimen and to minimize clerical errors, a bar coding system has been constructed. The laboratory is committed to providing accurate results quickly and efficiently, through the latest Hospital Information Technology (TracKare) and Laboratory Information System (lab Track), we assure dependable information that assist in the effortless of client's progress. Best of all, the equipment and software used by our lab are custom designed by Healthcare IT professionals for quick learning, easy-to-use and low maintenance.





UHS Laboratory Services

The laboratory is fully operated 24 hours per 7 days offering a wide range of diagnostic tests and services through the following section and units:

Basic Laboratory Unit:

This is the main unit which includes:

- Clinical Biochemistry
- Endocrinology
- Clinical Immunology/Serology
- Therapeutic Drug Monitoring (TDM), Drug of Abuse & Toxicology
- Specific proteins assessment
- Chromatography for Haemoglobinopathies & Newborn Screening

This automatic laboratory carries out a wide variety of chemical analysis, hormones, serology tests, sorting tests include very specific tests. Among of this provided services is specialized analysis to test a wide range of specimens and liquids which provide diagnosis of different metabolic diseases related to food digestion and infectious diseases.

This unit utilize devices

SIEMENS integrated system to automatic processing of specimens (SSIC/STREAM LAB) which is one of the latest available laboratory technology systems for pathological analysis in whole world.

This system includes the following

Two devices of RXL max DIEMENSIONS, ADVIA CENTUAR, IMMUNLITE 2000 SYSTEM, which are connected with laboratory information system (LIS) and is capable of sending information to hospital information system (HIS) for transferring lab reports to the consultants in clinics in an easy way.

Our Laboratory Services

The following lab analysis can be done by SIEMENS INTEGRATED SYSTEM (STREAM LAB):

- Our Lab work fully 24 hours / 7days
- Our Laboratory test guide contains highly specialised tests.
- Diabetic Screening & profiles.
- Renal Function Tests
- Liver Function Tests
- Cardiac Bio-Makers
- Lipid Profiles
- Electrolytes
- Bone profiles,
- Minerals, Vitamins etc.
- Thyroid Profile
- Infertility Profile (male and female)
- Non-Invasive Prenatal Testing (NIPT)
- Pregnancy diagnosis and complications follow up
- Cancer and Tumor Markers
- Drugs: Therapeutic Drug Monitoring TDM, Drug of Abuse & Toxicology
- Rheumatoid factors
- The infectious diseases Profile, CRP, RF ASO etc.
- Specific Proteins - Apolipoprotein AI & B, Ceruloplasmin etc.
- Autoimmune diseases diagnostic tests as: Systemic Lupus Erythymatosus, (ANA profile, Anti-ds DNA, Anti nucleosome, Antiribosomal Abs, Drug-induced Lupus ANA, Anti-Histome, Anti-ss DNA, Rheumatoid arthritis AntiCCP, Antiphospholipid syndrome IgG anticardiolipin, Lupus Anticoagulant, AntiB2 glycoprotein, IgM anti-Cardiolipin, Sjogren's syndrome ANA, Anti-SSA/SSB, Rheumatoid factors also will be processed by above mentioned systems.
- Accurate examination for respiratory allergy, food allergy and food intolerance.

Hematopathology Unit

Blood transfusion and coagulation unit

This department provide a wide range of examinations including CBC, ESR, blood film morphology in order to diagnose anemia and other benign and malignant blood disorders.

This also provides measuring of all blood coagulation factors, large numbers of blood coagulation tests.

Also provides blood transfusion services after doing blood tests to patient and donor, blood grouping and blood antibodies.

CLINICAL MICROBIOLOGY UNIT

The department is provided with the latest devices and technologies for doing the basic diagnostic tests in microbiology, bacteriology, virology, parasitology, fungus in addition to fractional biology.

This department uses the automatic system (MICROSCAN) to determine the effective antibiotics against microbes, bacteria and antibiotic allergies.

Another system (BACT ALERT D) WHICH has a double function of blood culture and tuberculosis (TB) diagnosis also diagnose of a lot of infectious diseases and serological tests.

DAVINCCI QUATTRO: It performs all analysis using ELISA technique in addition to food allergy tests.



Histopathology / Cytopathology Unit

This unit is specialized in the diagnosis of all tissue specimens of various benign and malignant diseases.

This laboratory uses (TISSUE TEK) device to process tissue samples. TISSUE TEK - CRYOSTAT is a device used for intraoperative diagnosis.

This unit also specialize in gynecological specimens and other non-gynecological samples such as fine needle aspiration, urine cytology, body fluid.



Special Analysis Unit

Early diagnosis for neonate's diseases, Newborn screening:

We are working on early diagnosis for some genetic diseases in order to provide a convenient immediate therapy to avoid physical and mental retardation before it affects child's mental and physical development in a way that no medication can help.

Prenatal Tests:

Non invasive prenatal tests 1st and 2nd trimester risk diagnosis and calculations to test for genetic chromosomal abnormality such as Down Syndrome.

Genetic chromosomes analysis by RT_PCR.



Specimen Receiving and Blood Withdrawal Unit

Process of blood withdrawal specimen is an important factor in pre-analysis phase, which can affect results in analysis phase.

All specimens are collected by laboratory assistant technician qualified to blood withdrawal and specialized in collecting specimen in neonates and critical cases.

Collection can be done sometimes by internal department's nurses and emergency department.

All staff in this unit are trained to IV, thumb, ankle blood withdrawal as, it is collected in external clinics, ER and outside the hospital if it needed.

Collecting specimens includes:

- Collect specimen for urgent and routine analysis.
- Guarantee of specimen stabilization during transportation from and to laboratory.
- Transfer specimen to reception department in the laboratory.
- Insure safety of patient and blood withdrawal employee.
- Home service whenever necessary.

Contribution to Research and Development:

The hospital cooperates with universities and Ministry of Health (MOH), in purpose of education and training of medical and health sciences students. UHS cooperates with University of Sharjah (UOS) and health sciences college in a wide range of specialties as it is considered as a base of educations and research. UHS train health workers in Sharjah and Northern Emirates and being highly specialized Lab and one of the best equipped laboratory with latest developed devices and laboratory equipments. So it is a reference center to laboratory researches, specialized diagnosis and researches, which is unavailable in a lot of institutions and universities in the region.

Scope of Services at UHS

Medical Services

- Anesthesiology
- Aviation Medicine
- Cardiology
- Critical Care
- Dermatology
- Emergency Medicine
- Endocrinology
- Family Medicine
- Gastroenterology
- Internal Medicine
- Neonatology
- Nephrology
- Medical Oncology
- Neurology
- Pediatrics
- Psychiatry
- Pulmonology
- Rheumatology

Surgical Services

- Bariatric Surgery
- Ears, Nose and Throat Surgery
- General Surgery
- Neurological Surgery
- Obstetrics and Gynecologic Surgery
- Ophthalmic Surgery
- Orthopedic Surgery
- Pediatric Surgery
- Plastic and Reconstructive Surgery
- Urologic Surgery
- Vascular Surgery

Cardiology

- 24-Hour BP Monitoring
- 24-Hour Holter Monitoring
- 2D/3D Echo
- 3D Transesophageal Echo
- CT coronary Angiography
- Dobutamine Stress Echo for Ischemia & Viability Studies
- Interventional Cardiology
- Stress Test
- Treadmill Stress Test

Neurophysiology

- Electroencephalogram (EEG)
- Electromyography (EMG)
- Evoked Potential Test
 - Brain Auditory Evoked Potential (BAEP)
 - Somato Sensory Evoked Potential (SSEP)
 - Visual Evoked Potential (VEP)
- Nerve Conduction Studies (NCS)

Medical Diagnostics Imaging (MDI)

- 128 Channel CT Scan with Coronary & Cardiac Facility
- Bone Densitometry
- Digital X-Ray & Fluoroscopy
- Mammography and Guided Breast Intervention
- MRI 1.5 TESLA
- Ultrasound
- Vascular Interventional Lab

Pathology And Laboratory Medicine

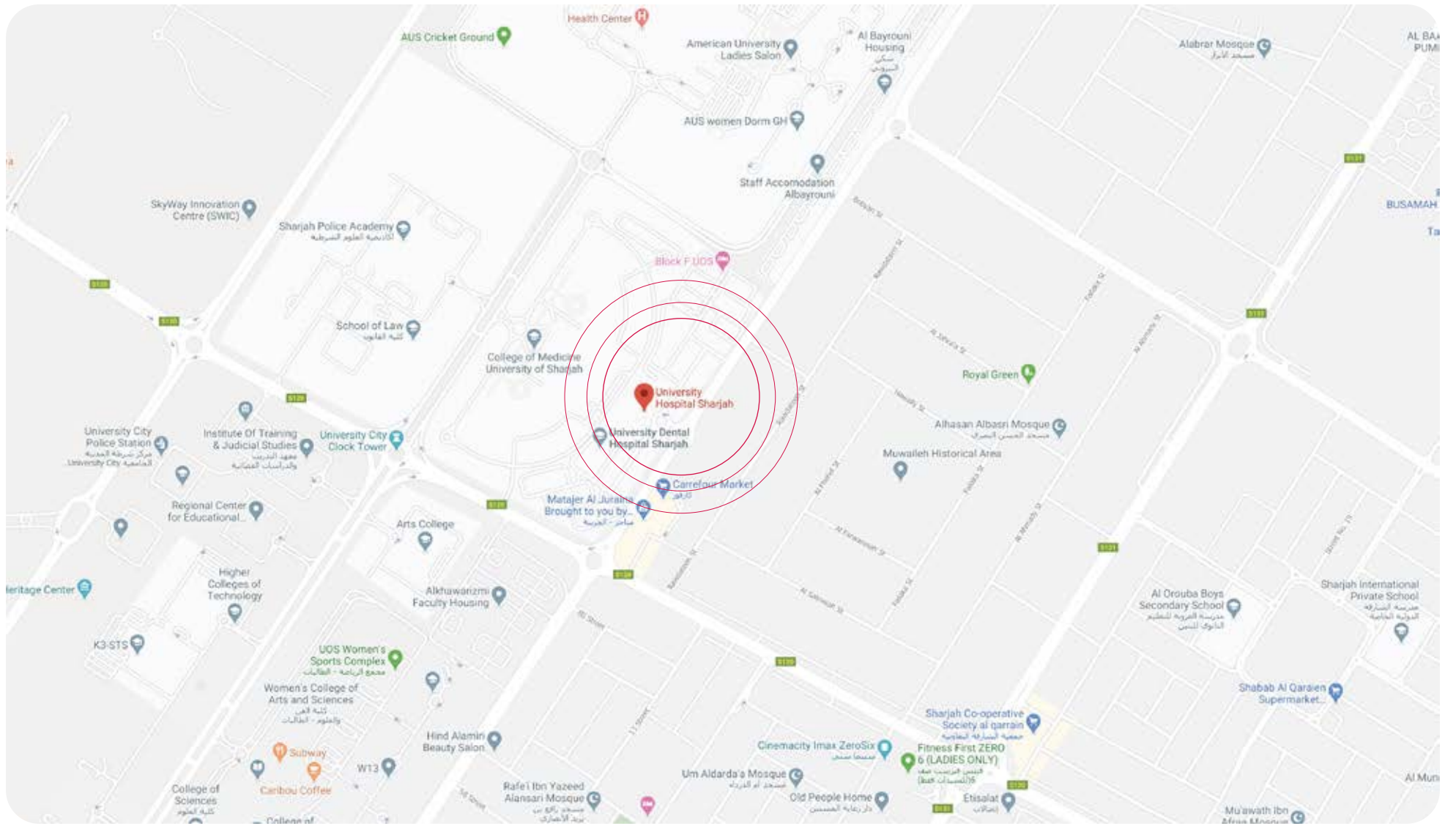
- Biochemistry
- Blood Transfusion Medicine
- Cytology
- Hematology
- Histology
- Immunology
- Microbiology
- Phlebotomy

Audiology

- Acoustic Reflex Threshold
- Auditory Brainstem Response
- Auditory Steady State Response
- Cochlear Implant Mapping
- Electrocochleography
- Free Field Audiometry
- Hearing Aid Fitting & Programming
- Newborn Hearing Screening
- Otoacoustic Emission
- Pure Tone Audiometry (PTA)
- Speech Audiometry
- Tinnitus Evaluation
- Tympanometry

Other Specialiy Services

- 24/7 Emergency Services
- Ambulance
- Hemodialysis
- Physiotherapy
- Pharmacy
- Sharjah Breast Centre



UHS | UNIVERSITY
HOSPITAL
SHARJAH
مستشفى الجامعة بالشارقة

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