

DEPARTMENTAL SERVICES OFFERED

Standardized Directory of Academic, Clinical & Diagnostic Services

Anatomy

Academic & Educational Services

- **MBBS Training:** Provides foundational human anatomy education including gross anatomy, histology, embryology, and neuroanatomy for undergraduate medical students.
- **Postgraduate Programs:** Offers specialized post-graduate degree training such as the MD in Anatomy course.

Outreach Activities

- Visit to various vriddhashrams for campaigning for awareness of body donation.
- 24 hours body donation services.

Surgical Training & Interdisciplinary Support

- Hosts specialized cadaveric surgical skills building postings for surgical residents and workshops/orientation programmes for Nursing colleges on request.
- Collaborates with other departments and provides required assistance e.g. sectioning of tissues for pathology reporting.

Electives

- Offering electives on cadaveric anatomy and osteology.

Physiology

- Comprehensive teaching program, both for small and large groups as per NMC guidelines to MBBS students.
- Teaching to BDS and other allied branch students.
- PG program for MD. Physiology
- Foundation course to 1st MBBS students
- Electives in the field of lifestyle medicine

Biochemistry

Teaching Programs

- M.B.B.S, M.D., BDS, DMLT
- Elective on Clinical Biochemistry Laboratory and Blood Collection

Clinical Services

- OPD Services: Round the Clock Routine Lab Investigations
- IPD Services: Round the Clock Routine Lab Investigations

Biochemistry Test Menu

Category	Tests Offered
Glucose Panel	FBS, PPBS, RBS, Oral Glucose Tolerance Test (OGTT)
Glycemic Control	HbA1c
Renal Function Test (RFT)	Urea, Creatinine
Liver Function Test (LFT)	Total Bilirubin, Direct Bilirubin, ALT, AST, ALP, Total Protein, Albumin, GGT
Electrolytes	Na+, K+, Cl-
Lipid Profile	Total Cholesterol, Triglycerides, HDL, LDL
Enzymes & Specific Tests	Fluid Sugar & Protein, Amylase, Lipase, CRP, Uric Acid
Minerals & Trace Elements	Phosphorus, Magnesium, Lithium, Total Calcium, Iron, Ferritin, TIBC, UIBC
Hormones & Vitamins	Vitamin B12, Vitamin D, Total T3, Total T4, TSH, Free T3, Free T4
Cardiac & Tumor Markers	Troponin T, CK-MB, PSA

Microbiology

Teaching Services Offered

- Second Year MBBS - Microbiology
- MD Microbiology
- Second Year BDS - Microbiology
- BSc MLT - Microbiology
- MSc MLT - Microbiology
- MLT - Microbiology

Special Programs

- Hospital Infection Control and Antimicrobial Stewardship Programme (AMSP) Services

Laboratory Services Offered

- **Bacteriology:** Different Staining Techniques (Gram, ZN, Modified ZN, Albert); Hanging drop preparation; Culture & sensitivity of various specimens (body fluid, pus, urine, stool, swab, sputum); Automated blood culture & sensitivity; Automated system identification & AST (BD Phoenix).
- **Mycology:** Staining techniques (Gram, LPCB, India Ink); Fungal culture of various specimens; Slide culture of fungal species for identification.
- **Mycobacteriology:** Staining techniques (ZN Stain, Modified ZN Stain).
- **Parasitology:** Staining techniques (Gram, Modified ZN); Parasitological stool microscopic examination.
- **Serology & Immunology:** Latex Agglutination (RA, ASO); ICT tests (Syphilis Antibody, Urinary Pregnancy Test, Salmonella IgM, Fecal Occult Blood); Widal slide agglutination for enteric fever; Rapid Plasma Reagin (RPR) for syphilis flocculation.
- **Virology:** Dengue NS1 Antigen (ICT & ELISA); Dengue IgM & IgG Antibody (ICT); Dengue IgM Antibody (ELISA); Chikungunya IgM (ELISA); HAV IgM (ICT); HEV IgM (ICT); 4th Generation ICT & ELISA for HIV, HBsAg, and HCV.
- **Molecular Laboratory:** Real-Time PCR for various pathogens.

Pathology

Teaching Programs

- M.B.B.S., MD, BDS, BSc MLT (BMLS), MSc MLT (MMLS)

Laboratory Services

- OPD & Emergency Services: Round the clock Routine Lab Investigations
- IPD Services: Round the clock Routine Lab Investigations

Laboratory Investigations by Section

Section	Investigations Available
Hematology & Coagulation	CBC, Peripheral Smear, ESR, Reticulocyte Count, Sickle Solubility Test, Mentzer Index, Rapid Malaria Test, PT, APTT, D-Dimer, Fibrinogen, Bleeding Time, Clotting Time, Blood Grouping, Bone Marrow Aspiration & Biopsy, Absolute Eosinophil Count (AEC)
Clinical Pathology	Urine Routine Examination (Urine R/M), Ascitic Fluid Analysis, Pleural Fluid Analysis, CSF Analysis, Synovial Fluid Analysis, Semen Analysis
Cytopathology	FNAC, Pap Smear, Cytology of Ascitic, Pleural, CSF, Synovial, Tear, and Sputum fluids
Histopathology	Small, Medium, and Large Biopsy Examinations, Frozen Section, Slide Review

Blood Center Services

- Blood Donation Facility: Donor counselling, donation & refreshment
- Blood Grouping: Slide, Tube & Gel card methods
- Du Test & Compatibility (Cross-match) Testing: Slide, Tube & Gel card methods
- Component Separation Facility & Storage: RCC, FFP, PC, Cryoprecipitate
- Sterile Tube Connecting Device (TSCD): Pediatric bag preparation facility
- Transfusion Transmitted Infection (TTI) Testing
- Direct & Indirect Coomb's Tests

Pharmacology

- Academic Training: PG MD Pharmacology, UG MBBS, and UG BDS Training.
- Institutional Committees & Programs: Conducting IEC Meetings and SRC Meetings.
- Active participation in Antimicrobial Stewardship Program (AMSP).
- Conducting Pharmacovigilance Program of India (PvPI).
- Conducting Good Clinical Practice (GCP) Training.

Forensic Medicine

- **Undergraduate Teaching:** Structured teaching of various aspects of Forensic Medicine and Toxicology to undergraduate medical students.
- **Practical Training:** Hands-on training in forensic procedures, medico-legal evidence, forensic specimens, and toxicological materials.
- **Academic Activities:** Seminars, tutorials, demonstrations, interactive teaching sessions, and other academic activities.

Community Medicine

- Undergraduate, Postgraduate, and Internship Training in Community Medicine.
- Health Research: Epidemiological, community-based, and public health research to generate healthcare evidence.
- Community Outreach & Health Promotion: Health education, awareness campaigns, health camps, and preventive initiatives.
- Epidemic Investigation: Surveillance, outbreak control, and epidemic investigation measures.
- Epidemiology & Biostatistics Training: Research methodology, biostatistics, and data interpretation.
- Primary Healthcare Services: Comprehensive care through Rural and Urban Health Training Centres (RHTC & UHTC).
- Disease Screening & Early Detection: Programs for communicable and non-communicable diseases.
- Prevention & Control of Diseases: National health program implementation, surveillance, and immunization.

Surgery

Category	Services Offered
General & Abdominal Surgery	Appendectomy, Hernia Repair, Gallbladder Removal, Hydrocele, Gastrointestinal, Liver, Colon, Piles/Fissures, Fistula, and general abdominal care.
Specialty & Advanced Care	Laparoscopic Keyhole Surgery, Upper GI Scopy, Lower GI Scopy, Breast & Endocrine Surgery (Thyroid, Parathyroid, Breast Tumors).
Emergency & Minor Care	Trauma Care, Acute Abdomen Management, Outpatient Procedures (Cyst removal, Abscess drainage, Diabetic wound care).
Support Services	Surgical ICU (SICU) Monitoring, Post-operative Wound Care & Pain Management, Burns ICU Critical Care.

Medicine

1. General Medicine: Outpatient and Inpatient Dept.

- Monday to Saturday OPD, 220 beds in IPD.
- Common ailments like all types of flu, sore throat, colds, headaches, ear infections, urinary tract infections, allergies, and hepatitis.
- Clinics for infectious diseases include the management of communicable diseases like tuberculosis, malaria, dengue, gastroenteritis, typhoid, cholera, and H1N1.
- Management of Fever
- Medical management of chronic diseases like obesity, metabolic syndrome, lipid disorders, and Thyroid disorders.
- Management of lifestyle diseases like Hypertension, Diabetes, and cardiovascular diseases.
- Treatment of acute and chronic illnesses like digestive disorders, asthma, pneumonia, and other lung disorders.

2. Specialty & Advanced Care

- Neurology consultation
- Nephrology Consultation
- Cardiology Consultation
- Diabetes Clinic

3. Dinsha Patel Dialysis Center

- Advanced Dialysis machine available

4. Desai Epilepsy Center

- Video EEG, EMG, Nerve conduction study available

5. Emergency & Minor Care

- Specialized areas for resuscitation, fully equipped with advanced monitors, ventilators, defibrillators, and crash carts to support life-saving interventions.
- Following stabilization, patients are either admitted for further care or discharged with appropriate instructions.

Comprehensive Emergency Protocols

1. Rapid Sequence Intubation (RSI)
2. Poisoning and Overdose Management
3. Cardiac Arrest Protocols

6. Support Services

- Dietician, Physiotherapist available

7. Critical Care Services:

- Critical cardiac (ICCU) and critical non cardiac (ICU) patients, step down High dependence unit (HDU).

Equipped with

- Multipara monitors
- Ventilators
- Infusion Pumps
- Defibrillator

Respiratory Medicine

- Outdoor Patient Services (OPD) & Indoor Patient Services (IPD)
- Respiratory Intensive Care Unit (RICU)
- TB / MDR-TB Management Facility
- Diagnostic Bronchoscopy & Image-guided Lung Biopsy
- Sleep Study & Interventional Pulmonary Services
- Pulmonary Function Test (PFT) & Pulmonary Rehabilitation

Obstetrics & Gynecology

- **Obstetric Services:** Preconception & antenatal care, High-risk pregnancy management, Normal & assisted vaginal deliveries, Elective/Emergency C-sections, Postnatal care & lactation support.
- **Fetal Medicine Services:** First-trimester & anomaly screening, Detailed fetal USG, Fetal growth & well-being assessment, Obstetric Doppler.
- **Gynaecology Services:** General consultation, Menstrual disorders & AUB, PCOS, Endometriosis, Pelvic pain, Gynaecological infections, Adolescent & Menopause care, Pelvic organ prolapse.
- **Infertility & Reproductive Health:** Infertility evaluation, Ovulation induction, Follicular monitoring, Preconception counselling.
- **Family Planning Services:** Contraceptive counselling, IUCD & LARC, Emergency contraception, Permanent sterilization, Postpartum contraception.

- **Gynaecological Surgery:** Colposcopy, Diagnostic & Operative Hysteroscopy/Laparoscopy, Ectopic pregnancy surgery, Hysterectomy, Myomectomy, Pelvic floor surgery.
- **Preventive & Emergency:** Cervical cancer screening (Pap smear & HPV), 24-hour emergency obstetric & gynaecological services.

Dermatology

Procedures Offered

- Acne Scar Surgery, Vitiligo Surgery, Keloid Surgery, Nail Surgery, Xanthelasma Surgery
- Laser Procedures (Hair and Pigment), Phototherapy, Platelet Rich Plasma (PRP) Therapy
- Cryotherapy, Earlobe Repair, Electrocautery / Radiocautery, Chemical Peeling, Facial Rejuvenation

Specialty Clinics Schedule

Clinic Name	Weekday
Psoriasis Clinic	Monday
Vesiculobullous Disease Clinic	Monday
Autoimmune Disease Clinic	Tuesday
Leprosy Clinic	Tuesday
STD Clinic	Wednesday
Pigmentary Clinic	Thursday

Psychiatry

Sr No	Name of Services Available
1	Daily OPD (ખહાર ના દર્દી નો વિભાગ)
2	Indoor Facilities (દાખલ દર્દી નો વિભાગ)
3	Psychotherapy & Counselling (કાઉન્સેલીંગ)

4	IQ Assessment (બુદ્ધિ ની તપાસ)
5	Psychological Assessments (મગજ ના વિચારો ની તપાસ)
6	Electro Convulsive Therapy (ECT) (શેક સારવાર)
7	Biofeedback (બાયોફિડબેક)
8	EEG (મગજ ની પટ્ટી)
9	Specialty Clinics: Neuro Psychiatry, Geriatric Psychiatry, Child Guidance, Deaddiction & Family Counselling, Marital & Psychosexual, Headache, Tobacco Cessation
10	Care & Stay of Acute (Emergency) Cases (તાત્કાલિક સારવાર)

Pediatrics

Services & Facilities

- Neonatal Services: NICU, Neonatal Ventilation, Exchange Transfusion, Phototherapy
- Parenteral Nutrition, Paediatric Ventilation, Central and Arterial Lines
- Dialysis: Haemodialysis, Peritoneal Dialysis
- Specialized Centers: Thalassemia Day Care Center, Physiotherapy Section, Child Counselling, ART Centre, Delivery Room Services
- Investigative Facilities: Bronchoscopy, PFT, ABG

Intensive Care Facilities

Type
Neonatal ICU (NICU)
Paediatrics ICU (PICU)

Specialty Clinics Schedule

Clinic Name	Weekday(s)
Paediatric Cardiology	Monday
Paediatric Nephrology	Monday
Paediatric Asthma	Tuesday
Paediatric Neurology	Wednesday
Paediatric Rheumatology	Wednesday
Paediatric Haematology	Thursday
Thalassemia Clinic	Thursday
Paediatric Endocrine	Friday
Development & Early Intervention	Friday
Nutritional Rehabilitation (NRC)	Friday
Gastroenterology Clinic	Saturday
Infectious Disease Clinic	Saturday
Neonatology (High Risk / Well Baby)	Mon, Wed, Fri
Immunization Clinic	Daily

Orthopedics

Specialty Clinics

Clinic Name	Weekday(s)	In-Charge
Fracture Clinic	Everyday	Dr. Rajiv Daveshtwer
Spine Clinic	Tuesday	Dr. Parth Patel
Hand Clinic	Friday	Dr. Utkarsh Kshtri
Arthroplasty Clinic	Mon & Thu	Dr. Baiju Patel
Arthroscopy Clinic	Wed & Sat	Dr. Parth Patel

Departmental Services

Service / Facility	Details
Joint Replacement	Surgical replacement of damaged joint with artificial implant.
Trauma Services	As per triage protocol.
Arthroplasty	Surgical joint replacement to restore movement and relieve pain.
Arthroscopy	Minimally invasive camera-guided joint diagnosis and treatment.
Spine Surgery	Traumatic, degenerative, and spinal deformity surgery.
Physiotherapy Section	Dedicated department for rehabilitation near orthopaedic ward.

Plaster Room	Adequate instruments for plaster application and removal.
Neuro Investigations	Dedicated EMG/NCV lab available to detect nerve involvement.
Radio Investigations	DEXA SCAN for BMD via MOU with imaging centre.

Ophthalmology

- Refraction, Contact Lens, Low Vision Aid
- Cataract Surgeries: ICCE, Conventional ECCE, SICS, Phacoemulsification
- Specialty Clinics: Squint, Oculoplasty (Ptosis, Entropion, Ectropion, DCR, DCT), Glaucoma, Retina, Neuro-ophthalmology, Cornea, Uvea, Paediatric Ophthalmology
- Miscellaneous Surgeries: Chalazion, Pterygium, Dermoid cyst excision biopsy
- Emergency Procedures: Lid tear repair, Corneo-scleral tear repair
- Community Services: Eye Donation Facility

ENT

OPD & Specialty Services

- Daily OPDs, Nasal Endoscopies, Indirect Laryngoscopic Examinations
- Audiology & Speech: Speech therapy clinic, Pure tone audiogram, Impedance audiometry, Eustachian tube function tests, OAE and BERA (Every Tue & Fri)
- Specialty Clinics: Allergy (Mon), Vertigo (Wed), Endoscopy (Thu), Head & Neck Oncology (Fri)

Surgeries Performed

- Myringotomy with grommet insertion, Tympanoplasty, Mastoid surgeries, Stapedectomy
- Thyroidectomy, Tonsillectomy & Adenoidectomy, Septoplasty, FESS
- Onco surgeries, Diagnostic punch & direct laryngeal biopsies, Micro laryngeal surgeries
- Oesophagoscopy, Bronchoscopy, Dacryocystorhinostomy (DCR), Parotidectomy
- Submandibular gland excision, Cervical lymph node excision, Tracheostomy

Radiology

- Comprehensive radiodiagnosis 24*7
- Xray- static and portable with digital image viewing facility, USG , CT scan -32 slice, MRI - 1.5 Tesla, Mammography, CR system and DR panels etc...
- Teaching and training for MBBS and MD radiodiagnosis students

Anesthesiology

Sr No	Place	Name of Services Provided
1	Operation Theatre	General, regional (spinal/epidural), peripheral nerve blocks (USG & PNS guided), sedation for General, Obs & Gynec, Ortho, Ophthalmic, ENT, Onco & Uro surgeries; Pre/Intra/Post-op care; Pre-anesthetic check-up OPD.
2	Pain Clinic	Conservative treatment for acute/chronic pain; Interventional procedures (Epidural steroid injections, Trans-foraminal nerve block, Caudal blocks, USG-guided PRP).
3	Radiology Suite	CT & MRI under Monitored Anesthesia Care (MAC).
4	ICU	Resuscitation, Intubations, Central & peripheral IV line insertion, Mechanical Ventilator setting.
5	Wards	Cardio-respiratory assessment, patient resuscitation, IV line insertion.
6	Other Procedures	Bronchoscopy under MAC & Electro Convulsive Therapy under General Anesthesia.
7	Teaching	U.G., P.G. & Anesthesia technician bachelorette teaching.