

# **OBSTETRICS & GYNAECOLOGY**

## **TECHNOLOGY & INFRASTRUCTURE**

- Gynaecological services are provided in modern, self-sufficient clinics with attached treatment areas
- A day-care facility is available for same day surgeries
- There are modular, integrated theatres for advanced endoscopic robotic and open surgery and sophisticated imaging facilities; our maternity operation theater is well equipped with the latest technology for operative deliveries and caesarean sections
- Advanced laparoscopic and hysteroscopic surgical equipment facilitate minimally-invasive surgeries and the da Vinci Robotic System assists with complex surgical procedures
- Urodynamic and video urodynamics facilities aid in the diagnosis of urinary problems
- Latest optical colposcopic equipment is in place to diagnose and treat pre-cancer of cervix
- Foetal cardiotocography equipment monitors foetal wellbeing during pregnancy in early labour
- Birthing facility has self-contained modern birthing suites with comfortable, ergonomic beds that adapt to different maternal postures; ample space encourages mothers' mobility during labour
- Isolation rooms/HDU (High Dependency Unit) have been set up to manage complicated pregnancies
- A4-bed NICU and 5-bed Special Care Baby Unit (SCBU) provides comprehensive care for the new born
- Dedicated breastfeeding and parent-craft support teams are on hand to assist new mothers

## **SERVICES**

### **Obstetrics**

- Specialist obstetrics OPD covers
- High risk and routine pregnancies
- Antenatal endocrine disorders
- Recurrent miscarriages
- Early pregnancy assessments, ectopic pregnancies, threatened miscarriages
- External cephalic version
- Parent craft classes

### **ANTENATAL DAY UNIT SERVICES**

- Diabetic pregnancies
- Intra-uterine growth restrictions

- Cholestasis, liver disorders in pregnancies
- Pre-eclampsia
- Medical disorders complicating pregnancy etc.

### **HOSPITAL'S LABOUR AND DELIVERY SERVICES**

- Maternity triage services
- Normal deliveries with world-class birthing facilities
- Round-the-clock availability of epidural analgesia for pain-free deliveries
- Caesarean sections (LSCS)
- Continuous electronic foetal monitoring
- High dependency care for complicated pregnancies

### **GYNAECOLOGY**

#### **We have specialist gynecology clinics to manage:**

- Menstrual disorders
- Urinary incontinence
- Benign conditions such as endometriosis and pelvic pain syndromes
- Infertility
- Gynaecologic oncology (screening, treatment, follow-up, palliation and rehabilitation)

# **DIAGNOSTICS**

## **RADIOLOGY**

The Radiology department functions as Tertiary Referral Centre with sub-specialization and focus on Neuroimaging, Functional Neuroimaging, Head and Neck Imaging, Abdomino-Pelvic, Chest and Musculoskeletal Imaging, and Interventional Radiology.

## **SERVICES**

- Magnetic Resonance Imaging (MRI)
- Computerized Tomography Scan (CT Scan)
- Mammography
- Bone Densitometry
- Fluoroscopy
- Ultrasound
- X-Ray
- Interventional procedures (Angiography, Angioplasty, Stenting, etc.)

# **BLOOD BANK**

## **TECHNOLOGY & INFRASTRUCTURE**

The Blood Bank endeavours to supply the safest possible blood and blood components every time. The process of ensuring safety begins with a diligent check of the donor's medical history and a physical examination. Each unit is tested for HIV 1 and 2, Hepatitis B, Hepatitis C, Syphilis and Malaria, using the latest technology and methods.

The immunohaematology laboratory performs donor and patient blood group analysis, Rh phenotyping, antibody screening and antibody identification using a fully automated system from Immucor. Advanced work-ups such as auto/allo adsorption, elution, extended antigen typing and platelet cross-match are undertaken to solve difficult cases.

To minimize adverse reactions, advanced technologies like leucocyte reduction, irregular antibody screening, irradiation etc. are also available. Use of sterile connecting device makes it possible for the Blood Bank to provide blood components in aliquots for paediatric transfusions.

Apheresis: The area is equipped with a fully automated cell separator, which can be programmed to produce various components and perform a range of therapeutic procedures, such as platelet pheresis, plasmapheresis and granulocyte pheresis.

## **SERVICES**

The Blood Bank is licensed to prepare:

- Whole Blood
- Concentrated human red blood corpuscles
- Leucocyte reduced red blood concentrate
- Fresh Frozen Plasma
- Random donor platelet concentrate
- Cryoprecipitate
- Saline washed packed cells
- Single donor platelets (platelets prepared by apheresis)
- Leukapheresis

# **URO-GENITAL SCIENCES**

## **TECHNOLOGY & INFRASTRUCTURE**

- Urodynamic test-MMS Solar digital
- Flexible ureteropyeloscopy
- Dornier compact Delta II Lithotripter
- Flexible Cystoscopy for quick assessment of urinary bladder
- Dedicated ultrasound unit for obtaining prostate biopsies and to improve tumour detection during key hole kidney surgery

## **SERVICES**

- Urological Oncology (Cancer surgery)
- Robotic (key hole) surgery
- LASER Surgery
- Laparoscopic (key hole) Urological surgery
- Kidney transplant surgery
- Extra corporeal shock wave Lithotripsy (ESWL)
- Stone surgery
- Prosthetic urological surgery
- Paediatric urology
- Urological Gynaecology
- Reconstructive Urology

## **NEPHROLOGY**

Our Department of Nephrology provides comprehensive diagnosis and treatment for every stage of kidney disease at par with international standards.

We have a highly dedicated team of experts who provide holistic kidney care, and are well supported by other paramedical departments.

We firmly believe in a multi-pronged approach to control common, preventable and dangerous kidney disorders such as Chronic Kidney Disease (CKD). We put special emphasis on early detection, patient awareness and education, dietary advice and timely medical intervention. Our nephrologists, along with other supportive services, are available daily for consultation. Patients with conditions such as Diabetic Kidney Disease and Glomerulonephritis can also benefit immensely from the services offered by our Department of Nephrology.

## **TECHNOLOGY & INFRASTRUCTURE**

We have procured world-class equipment and cutting edge technology for the Department of Nephrology. We've also ensured that the Department has multi-disciplinary approach.

Our hospital is equipped with a Haemodialysis unit of international standards. We also have a vibrant Kidney Transplant programme to rehabilitate patients with advanced kidney failure. Outpatient nephrology services are targeted towards detection and treatment, including kidney biopsy.

## **SERVICES**

- Management of urinary infections
- Kidney stone
- Hypertension
- Chronic kidney disease-multi-disciplinary approach
- Dialysis
- Kidney transplant
- Kidney biopsy
- ICU dialysis ; Sustained low-efficiency dialysis (SLED)
- Rheumatology-nephrology clinic
- Cardio-Renal syndrome clinic

We also have a special team of doctors providing Paediatric nephrology care.

## **HAEMODIALYSIS UNIT:**

Acute Kidney Injury (AKI) is a common problem in intensive care units. Our Department of Nephrology has the expertise to prevent and treat AKI in our ICU, along with a team of intensive care professionals. For critical patients, special dialysis, i.e. Sustained Low-efficiency Dialysis (SLED) is provided round-the-clock- in the ICU by well-trained Haemodialysis Nurses under the supervision of the kidney specialist.

Other services provided by the Dialysis unit included :

- Plasmapheresis
- Hem-adsorption for poisonings
- Haemo-Ultrafiltration for heart failure
- Liver dialysis.

# **ORTHOPAEDICS & SPINE SURGERY**

## **SERVICES**

We have a team of full-time orthopaedic surgeons with extensive national and international experience. Our interdisciplinary team of healthcare professionals combines their individual expertise to create the best possible treatment programme for the benefit of patients in the following specialties:

### **ORTHOPAEDIC TRAUMA AND FRACTURES**

- Comprehensive treatment of simple and complex fractures and dislocations
- Peri-articular fractures
- Pelvic and acetabular fracture treatment with computer navigation
- Minimally invasive fracture fixation
- Osteoporotic and pathological fracture fixation
- Post-traumatic deformity correction with external fixators
- Soft tissue injuries
- Mal-union and non-union of fractures

### **ADULT RECONSTRUCTION/ARTHROPLASTY SERVICES**

- Patient specific instrumentation for joint replacement
- Minimally invasive joint replacement surgery
- Uni-compartmental knee replacement
- Revision arthroplasty
- Joint deformity correction with osteotomies
- Alternative bearing and hip replacement for the young
- Intra-articular injections
- Computer navigated surgeries
- Orthobiologics treatment
- High tibial osteotomies
- 2-stage revision surgery
- Cemented hip replacement
- Uncemented hip replacement
- Surface arthroplasty
- Core decompression surgeries
- Allograft / customized cage based defect management
- Comprehensive integrated rehabilitation program

# **CARDIAC SCIENCES**

## **CARDIOLOGY**

Our Cardiology department offers specialized and cutting edge treatments for heart diseases. We are experienced in General as well as Interventional Cardiology. Our cardiologists are nationally and internationally accredited. They have considerable expertise in advanced diagnostic techniques and the use of the latest devices to treat basic and complex heart diseases.

## **TECHNOLOGY & INFRASTRUCTURE**

1. Our dedicated Out-Patient Department (OPD) cluster has comprehensive cardiac diagnostic facilities on the same floor for better patient experience.
2. We offer state-of-the-art services for acute myocardial infarction. We have a highly skilled and well equipped emergency department that provides timely and high quality treatment 24X7.
3. Cutting-edge technology and equipment:
  - a. We have the latest versions of equipment that provide ECG, echocardiogram, Holster monitoring and treadmill tests.
  - b. Our Catheterisation Laboratory (Cath Lab) is fully equipped for advanced diagnostics in cardiac patients.

All these facilities are available under one roof and help reduce delays in providing timely and appropriate treatment.

## **SERVICES**

- Intra-Aortic Balloon Pump (IABP) insertion
- Treadmill test
- Holter monitoring
- Cardioversions

## **INTERVENTIONAL CARDIOLOGY**

- Coronary angiogram
- Coronary angioplasty-basic and complex
- Single and dual chamber pacemaker implantation
- Electrophysiology studies

# **EMERGENCY MEDICAL SERVICES**

Our Emergency Medical Services Department provides quality emergency care, with optimal outcomes. The Department functions as 'a hospital within a hospital', with all resources located in the same complex. They include laboratory imaging, procedure rooms and an operation theatre to cater to all emergency conditions, round-the-clock.

We are equipped with all necessities, including materials and personnel trained to deal with disasters. Our team of highly experienced doctors, nurses and paramedics collaborate to provide urgent and high-quality medical care patients, 24X7. Emergency Medical Services also play a key role in the development of value-added information for emergency preparedness, public health, EMS research and strategic governance.

Indeed, at Shekhar Hospital Pvt. Ltd. and Research Centre, we don't just treat the body, we go further: we respect life.

## **TECHNOLOGY & INFRASTRUCTURE**

Strategically planned to provide the best possible care to emergency patients and supported by ultramodern infrastructure, the Emergency Medical Services Department is one of its kind. We are located on the ground floor of the Tower for easy and uninterrupted access, with a dedicated pathway for ambulances. Emergency patients are admitted through a fast-track admission process in HIS (Hospital Information Systems) by capturing minimum diagnostics.

## **KEY HIGHLIGHTS**

- 10 fully-monitored beds, including two triage beds
- Central monitor to keep a close track on all patients
- CT Scan and X-ray facility for quick access and diagnosis
- Plaster room and procedure room
- Operation Theatre equipped for immediate surgery
- Transport ventilator and transport monitor
- USG for FAST scan
- Defibrillator and resuscitation equipment.

## **SERVICES**

Trained and highly experienced clinical and paramedical staff is available 24X7 for providing the best quality services to all emergency patients:

- Triage and prioritization care
- Disaster preparedness
- Trauma and non-trauma care
- Mechanical ventilation
- Defibrillation and synchronized cardioversion advanced cardiac life support
- Paediatric advanced life support
- Haemodynamic support : inotropes, anti-arrhythmic
- Resuscitation with blood transfusion
- Initiation of spinal immobilization and spine care
- Operative care for trauma, life-saving general surgery, obstetric care, neurosurgery, vascular surgery etc.
- Ambulance services available 24X7

