

AC 2.4 SCOPE OF SERVICE

GENERAL MEDICINE

- **Outpatient services** - Monday - Saturday - 9.30 am – 1.30 pm
- Evenings - 5.00 P.M - 8.30 P.M.
- Routine check-ups, follow-ups, review patients with the reports, executive check-ups.
- In patients procedures
- Emergency ventilation and CPR
- Lumbar puncture
- Pleural tapping
- Bone marrow aspiration
- Central line insertion
- Ascites tapping
- Endotracheal intubation
- ICD tube insertion

❖ We have all scope of services in this department

GENERAL SURGERY

- Daily outpatient services from 10:00 AM to 1:00 PM (morning) and 7:00PM to 8:00PM (evening). Review of operated patients, dressings, suture removal, any minor procedure
- All major and minor surgeries done. All abdominal and pelvic surgeries (both lap and open) limb surgeries, breast, thyroid, etc.
- The department of general surgery manages a broad range of elective and emergency surgical procedures, offers comprehensive care for abdominal ailments and also provides services for diseases involving the skin, breast, soft tissues and hernias.

Procedures:

- Elective and emergency surgical procedures.
 - Trauma related emergency services, paediatrics, neonatal and plastic surgery
 - Advanced laparoscopic and minimally invasive surgery
 - Benign and malignant diseases of Esophagus, Stomach and intestines
 - Gall bladder diseases and Surgical Jaundice.
 - Liver, Spleen and Pancreatic Surgery.
 - Management of anorectal diseases like piles, fissures and fistulas / Management of Hernias of various kinds (Laparoscopic and Open techniques).
 - Upper GI Endoscopy, Colonoscopy
 - Benign and Malignant diseases of Breast, Thyroid and Salivary glands including treatment of lumps and swellings on the body.
 - Above the knee and below the knee amputation, and other amputations
- Diabetic foot surgical care.
- We have all scope of services in this department

CRANIO MAXILLO FACIAL SURGERY, IMPLANTOLOGY AND DENTAL SCIENCES

- This is a centre of excellence for
- Craniofacial Trauma,
- Facial deformity and Aesthetic surgery,
- Cleft and Craniofacial surgery,

- LV sedation oral surgery (painless)
- Benign tumors of head and neck,
- TMJ disorder and Facial pain,
- Oral cancer detection and management.
- Our facilities include the management of oral, dental and jaw related problems from simple tooth decay to complete dental rehabilitation. We have modern facilities for replacement of lost teeth with Dental Implants and Zygoma Implants.
- Other facilities include Orthodontics with different techniques, myofunctional appliances for correction of misaligned teeth and early correction of jaw related problems.
- General dentistry and Cosmetic dentistry for complete dental rehabilitation which includes permanent replacement of missing teeth with fixed partial dentures, root canal treatment, teeth whitening, etc, using hi tech equipment.
 - We have all scope of services in this department

EMERGENCY MEDICINE

The scope of the emergency department includes:

Emergency medical care in

- Medical emergency cases such as Myocardial infarction, Pulmonary Oedema, Acute severe asthma, Anaphylaxis, Status epilepticus, Haematemesis, Hyper pyrexia, Haemoptysis, Choking, hypoglycaemia, Dehydration, Diabetic Ketoacidosis, Snake bite, Poisoning, Cardiac Arrhythmias and Cerebrovascular Accidents, Hyper osmolar non ketotic coma, insect bite etc.

- Surgical emergency cases such as Acute urinary retention, Torsion testes, Ureteric colic, Intestinal perforation, Bleeding from nose, rectum and other orifices, Epistaxis, haemorrhoids and Rectal prolapsed etc.
- Traumatic emergencies such as fractures, dislocations, Head injury, Chest and abdominal injuries, Spinal injuries, Ophthalmic injuries, urethral and genital injuries, facio-maxillary injuries, vascular injuries, Dental injuries and oropharyngeal injuries etc.
- Gynaecological Emergencies such as abruption placentae, postpartum Haemorrhage, Eclampsia, Arrested labour, Abortions, ectopic pregnancy, Severe bleeding PV and postpartum complications etc.
- Paediatric Emergencies such as febrile seizures, respiratory distress, hypovolemia, intussusception, choking, foreign body in throat, ear, nose etc, excessive cry and appendicitis etc.
- Psychiatric emergencies such as psychosis, catatonia, withdrawal reactions etc
Mass casualties and disasters.

PICU

- Children could require Hemodynamic monitoring first stabilization in the ER unit. Those who do not recovered any invasive procedures we will admit in level-1 PICU.
- Equipments in PICU
- ICU bed
- Monitor –multichannel
- Syringe infusion pump
- IV Infusion pump
- Trained staff/nurses will be handling the patient IV line basic knowledge of vital sign will be handling.
- If the baby is unstable, we will shift to a nearby NABH accredited Hospitals.

ENDOCRINOLOGY

Out patients services:

- In the department of endocrinology at Kumaran Hospitals, consultants are available only by appointments.
- In patients services:
- The Departments caters to a spectrum of paediatric and adult endocrine disorders in diagnosis, evaluation and management of Diseases.

Diabetes:

- Early diagnosis, evaluation and management of disease.
- Thyroid disorders:
- Hyperthyroidism, hypothyroidism and nodular goiters.
- PRECOCIOUS PUBERTY

Males: Premature development of genitals, body and facial hair before 9 years

Females: Premature breast development before 8 years and menarche before 9 years.

Delayed Puberty:

Absent secondary sexual characters and genital development in boys > 14 years.

Absent breast development and secondary sexual characters in girls > 13 years or
primary . amenorrhea.

Adrenal disorder:

- Adrenal masses and endocrine hypertension.

Pituitary Disorders:

- Pituitary adenomas, Cushing's disease, Acromegaly & Gigantism, Hypopituitary states, Diabetes insipidus.
- Female endocrine disorders:
- Primary amenorrhea and Turner's syndrome, Galactorrhea (Milky breast discharge), Polycystic Ovarian Syndrome (PCOS) Irregular menses, acne, Hirsutism (excess hair growth), infertility.
- Non availability of this scope of services

➤ Surgeries

GYNAECOLOGY:

Outpatient services:

- ⊖ Daily outpatient services from 10:00 AM to 12:00 PM (morning) and 4:30 PM to 7:00 PM (evening) All antenatal and post natal check-ups, gynaecology check-ups are done. fetal monitor available. Scope of OBG department
- Outpatient care to all obstetric patients seeking consultations.
- Emergency consultation and care at request of emergency duty doctor for emergency patient seeking care in the Emergency Department. This may be by telephone consultation or by in person depending on the problem.

In patients services:

- Inpatient care for all Obstetric patients admitted with pregnancy related problems.
- Consultations to obstetric patients admitted to other departments with other health problem.
- Labour and delivery services, Emergency caesarean sections and elective caesarean sections.

- Post natal care for all post-partum patients.
- Perinatal care of high-risk pregnancy.
- High risk pregnancies

We treat the following high risk pregnancy cases

1. Diabetes Mellitus
2. Hypertension and Pre-eclampsia
3. Thyroid disorder
4. Thrombo embolic diseases
5. Heart diseases
6. Renal diseases
7. Neurological problem
8. Gastro intestinal disease
9. Gastro intestinal disease
10. Hematological problem
11. Pregnancy loss and cervical cerclage
12. Antepartum Haemorrhage including Placenta Accreta
13. Intra uterine growth restrictions
14. HIV and infectious diseases
15. Multiple pregnancy
16. Preterm labour and extreme preterm delivery from 24 weeks of pregnancy
17. Pregnancies after organ transplant.
18. Details of the newborn parents are collected and birth certificate registration process is done here

- Non availability of this scope of services

- IVF Treatment
- Colposcopy

PEADIATRIC:

Outpatient care

The department of paediatric in Kumaran Hospitals consultants are available for out patients consultation.9.00am to 10.00am in morning, In evenings only by appointments.

All vaccinations as per schedule,

- Inpatient: Level I NICU with daily ward visits by specialists.
- Incubator and phototherapy units available

- Non availability in the scope of services

- Level 2,3&4 NICU
- **Outpatient care:-** Kumaran's paediatric outpatient department is located on the 1st floor of the Hospitals. OPD works from 9 am to 5pm- Monday to Saturday. Visiting Kumaran's Paediatric OPD will be a positive experience for both children and families. We have 3 clinic rooms and a large play/waiting area. The environment is highlighted with child friendly colours and equipped with a play area meeting international standards. OPD services are supported by efficient nurses and investigations are done under their supervision. The close proximity of OPD to Laboratory/Radiology services offer the option of investigations to be performed on the same day. Appointments for our consultants can be pre-booked telephonically through our 24 hour central booking facility.
- **Emergency department:-**Emergency department is located in the ground floor of the Hospitals, next to the front entrance of the Hospitals. We offer 24 x 7 access and consultant cover in the emergency department to our young patients with urgent and emergency conditions. Day care observation facility is available in the

department. Any paediatric patient needing admission will be attended by our in-house paediatric resident and will be subsequently discussed with our on call consultant. All admission to ward and PICU will be done under the consultant on call. All sick children will be seen by the consultant. All admitted patients in the intensive care unit will be seen by the intensives also.

- **Inpatient care:-** Inpatient care for children is offered for wide range of acute and chronic health conditions. Inpatient care is supported by expert consultant cover, 24 hour service of resident doctors, excellent nursing service, in house pharmacy, and diagnostic imaging & physiotherapy services. Parents or main care provider is allowed to stay with the child. The environment is safe, functional and comfortable with a bed for a parent to sleep in each room.
- **Growth and development Assessment:** - Childhood is a time of rapid growth and change. We provide health services that focus on the growth and development needs of infants, children and young adults. Our electronic medical recording has been facilitated with growth charts; which are extrapolated from anthropometric measurements recorded during initial assessment. All children attending the Paediatric OPD are screened for developmental delay with age appropriate developmental screening tools.
- **Patient education and counselling:** - We offer counselling and education services to all children and families who come to Kumaran Hospitals. We are pleased to offer counselling services to the child and family either individually or together depending on the needs. The child's condition and the treatment options will be discussed in detail. Child wellness classes are given. Group health education programmes are conducted as part of special day celebrations, for example, education on different aspects of breast feeding in breast feeding week.
- **Paediatric immunization:-** Immunisation clinic works from 9am to 10AM- Monday to Saturday, located in the ground floor of the Hospitals. Clinic is conducted by friendly quality staff and nurses. Clinic provides ideal opportunities to receive child's vaccination without waiting alongside other unwell patients. All

the vaccines as per the National Immunization Schedule and other optional vaccines are available in the clinic. We have best vaccine storing and handling measures as per the CDC recommendations.

- **Super specialities support:-** We offer high quality specialist support services including cardio, neuro, nephro, gastro and urology services to our young patients who offers advanced diagnosis and treatment for diseases.
- **Well baby clinic:-** Well baby examinations are an important way to monitor child's growth and development. The service of a neonatologist is available in our well baby clinic. Well baby examinations include mainly the measurements of child, weight, length/height, head circumference etc, head to toe physical examination, growth and development assessment and nutritional assessment of the child. Follow up services are provided for all newborns. Mothers are helped to understand and manage the infants maturation and development.

○ Non availability this scope of services

- Paediatric critical care unit
- DERMATOLOGY:
 - Consultant is available daily from 11:00 AM to 1:00 PM and Minor procedures done (Skin Biopsy).
 - Molluscum needling/extraction
 - Milia&Comedone extraction
 - Intralesional injection of steroid, Bleomycin , 5FU in treatment of keloid, warts etc
 - Skin biopsy - punch and excision
 - Collagen induction therapy for acne scars and anti aging
 - Acne scars punch floatation surgery
 - Subscision of scars
 - Podophylline toxin application for venereal warts.
 - Prick test to various antigens

- Paring of corns and callosities
- Enucleation of corns
Excision using Radio-frequency machine.
- Punch grafting for vitiligo
- Suction blister grafting for vitiligo
- Laser for dermabrasion of scars et.
- Laser hair removal Hair transplant
- Platelet rich Plasma preparation and injection for non-healing wounds, alopecia, acne scars.
- Nail surgery-
- KOH Mount for identification of fungus
- Tzanck smear preparation
- Slit skin smear for lepra bacilli.

Non availability this scope of services

- Cryotherapy /electro surgery
- PRP/GFC treatment
- Micro neebling /chemical peels
- Iontophoresis

UROLOGY

The Department of Urology offers comprehensive diagnostic and treatment services. The faculty offers the latest in specialized care for a wide range of urologic problems and strives to provide all patients with individualized and compassionate care.

Services and treatment offered for:

Stone Diseases:

- Stone analysis and medical management of kidney stones

- PCNL
- Ureterorenoscopy
- Cystolithotripsy for bladder stones
- ESWL
- Ureterolithotomy (both open and laparoscopic)
- Open stone surgeries
- Pyelolithotomy
- Nephrolithotomy
- Anatomic nephrolithotomy

Prostate Diseases:

- TURP for BPH / HOLEP
- Radical Prostatectomy (open and laparoscopic)

Renal Diseases:

- Partial nephrectomy (open and laparoscopic)
- Simple nephrectomy (open and laparoscopic)
- Radical nephrectomy (open and laparoscopic)
- Radical nephroureterectomy (open and laparoscopic)
- Donor nephrectomy (open and laparoscopic)

Bladder Diseases:

- Diverticular excision (open and laparoscopic)
- Bladder augmentation
- Radical cystoprostatectomy (open and laparoscopic)
- Urethrectomy
- Diversions
- Ileal conduit
- Orthotopic continent pouches
- Heterotopic pouches

Ureter Diseases:

- Pyeloplasty (open and laparoscopic)
- Uretralreimplantation for vesicolreteral reflux
- Uretral replacement surgeries

Penile and Urethral Surgeries:

- Hypospadias Surgeries
- Urethral stricture surgeries
- Penile implants
- Surgery for peyronies disease
- Partial & total penectomy _+ illio inguinal block dissection
- Laparoscopic pelvic lymphadenectonmy

Female Urology:

- TVT- O
- Cystocele rectocle repairs
- Burch colposuspension (open and laparoscopic)

Renal Replacement:

- Renal transplantation
- AV Fistula construction

Non availability this scope of services

- Uro flowmrtry studies
- Uro dynamic studies
- Laser 1+B Yag
- Needle Emg

ORTHOPEDIC:

- **Outpatient** Daily outpatient services from 9:00 AM to 1:00 P M (Morning) and Evening 4:00PM to 9:00PM. Routine check-ups, change of dressings and POP applications etc.
- **Inpatient:** Major and minor surgeries such as Total Knee Replacement, Total Hip Replacement, Open Reduction & Internal Fixation, Arthroscopy, polio corrective surgeries, manipulations etc. daily visit by specialist and review of the patients.

Scope of services

Joint replacement

- KNEE – Total Knee Replacement (Primary & Revision)
- HIP – Total Hip Replacement (Primary & Revision)

Shoulder: Total Shoulder replacement, Reverse shoulder replacement.

Arthroscopic procedures

Knee

- Anterior Cruciate Ligament Reconstruction.
- Posterior Cruciate Ligament Reconstruction
- Multiligamentous Reconstruction
- Arthroscopic Meniscal Repair
- Arthroscopic Menisectomy
- Arthroscopic loose body removal
- Arthroscopic joint debridement and lavage
- Arthroscopic Cartilage Debridement.

Shoulder

- Repair of Rotator cuff tears
- Bankart's Repair for recurrent Shoulder Dislocation
- Arthroscopic shoulder stabilization for recurrent shoulder dislocation.
- Arthroscopic Subacromial decompression
- Arthroscopic distal clavicle excision

- Arthroscopic Acromioplasty
- Arthroscopic Loose body removal
- Arthroscopic Adhesiolysis

Ankle

- Arthroscopic Arthrodesis
- Arthroscopic Debridement

Fracture fixation

Open Reduction Internal Fixation of:-

- Clavicle fracture
- Proximal humerus fractures
- Humerus shaft fractures
- Supra condylar elbow fracture
- Inter condylar humerus fracture
- Both bone forearm fracture
- Distal radius fracture
- Scaphoid fracture
- Distal Femur Fractures
- Proximal Tibia Fractures
- Ankle Fractures
- Calcaneum Fracture

Closed fractural fixation (under C-ARM/ X-ray guidelines)

Closed interamedullary nailing of

- Tibial Shaft Fractures
- Femur Shaft Fractures
- Humerus Shaft fractures
- Closed K wire fixation of Supracondylar Humerus fractures in children
- Closed K wire fixation of distal radius fracture
- Minimally invasive fracture fixation.
- Pelvi acetabular fracture fixation
- Arthrosopic assuisted fracture fixation.

Spine

- Hemi Laminectomy
- Discectomy
- Discectomy + Pedicular Screw Fixation + PLIF
- Stabilization of spine
- Spinal instrumented fusion
- Decompressive laminectomy
- Open / CT guided Biopsy
- Facet Joint and epidural injections

Deformity corrective surgeries

- Ilizarou
- Corrective osteotomy
- Tendon transfer procedure
- Surgery for DDH, Perthes disease.

ORTHOPEDIC SURGERIES (MISCELLANEOUS):

- Excision of bone or soft tissue tumours (benign, e.g.)
- Synovectomy
- Bone Biopsy
- Bone grafting non- union of fractures and pseudarthroses
- Removal of Internal & External Fixation
- Osteotomies of long bones
- Tendon repairs and reconstructions
- Open and closed fracture reduction (Including major procedures e.g., Pelvis, Femur, acetabulum, Spine)
- Fasciotomy and Fasciectomy
- Bone graft

Hip

- Hip Osteotomies
- Corrective Pediatric hip procedures for DDH & Perthes

Wrist

- Arthrotomy
- Arthroscopic Surgery
- Reduction of fractures, open
- Reduction of fractures, closed
- Arthroplasty
- Arthrodesis
- Carpal tunnel release

Hand

- Repair of tendons: flexor, extensor
- Arthroplasty
- Internal fixation of fractures
- Skin graft
- Synovectomy
- Repair of Boutonniere deformity
- Ganglion Excision

Elbow

- Release of tennis elbow
- Arthrolysis
- Debridement

Foot

- Ponseti and PMSR correction of the club foot
- Arthrodesis of foot and ankle
- Correction of Toe deformities

In this department we have all type of surgeries and procedures.

Non availability this scope of services

- MRI

ENT

- Daily outpatient from morning 11pm to 100pm by appointments & evening - 6:00 pm to 8:00 pm

The ENT department is a premier provider of comprehensive ear, nose and throat care. The department is well equipped with facilities for microscopic ear procedures, nasal endoscopy and office based laryngology procedures in the outpatient department and surgical procedures done here include:

Services for inpatients

Microsurgery of the Ear:

- Myringoplasty
- Mastoidectomy (Canal Wall up, Canal Wall down)
- Ossiculoplasty

Nasal Surgeries

- FESS (Functional Endoscopic Sinus Surgery)
- Endoscopic DCR (Dacrocystorhinostomy)
- Endoscopic Repair of CSF Rhinorrhoea
- Epistaxis (Nasal Bleeding)
- Septoplasty
- Medial Maxillectomy
- Excision of Nasal & Nasopharyngeal Tumors such as Juvenile Angiofibroma by
 - ✓ Transpalatal approach
 - ✓ Lateral Rhinotomy
 - ✓ Midfacialdegloving (Sub Labial)

Throat, head and neck surgeries

- Adenotonsillectomy

24hour Emergency management including

- Tracheostomy

Outpatient Department with Facilities For:

- Nasal Endoscopy
- Laryngoscopy (Rigid & Flexible)

Non availability this scope of services

- **Audio metric test**
- **MRI**

PSYCHIATRY AND PSYCHOLOGICAL MEDICINE

- Consultant available on call. Evening 2:00 pm to 4:00 pm & 8:00 pm to 10:00 pm
- **General adult psychiatry services** are provided for outpatients. Patients with mental health problems are assessed in detail, diagnosis explained to patient and relatives,
- **Alcohol and substance abuse services** including community based detoxification, and intensive support and counselling for the patient and family. Consultant specialist psychiatrist available on all working days for these and behavioural addictions.
- **Child psychiatry services** providing assessment and management of childhood behaviour difficulties, scholastic problems, learning disabilities including specific learning disabilities, hyperkinetic disorders, developmental disorders, and other childhood psychiatric disorders.
- **Psychological services** include psychometric and diagnostic assessment of children and adults, study and learning disabilities assessment for children; counselling for children with behaviour difficulties, marital counselling, and

different forms of psychotherapy. There are also facilities for neuropsychological assessments and cognitive retraining of neurological patient

Not available in department

- MRI & ECT
- In patient services

RADIOLOGY AND IMAGE

- 24 hours service available for x-ray & CT scan.
- USG available from 10.00 AM to 1:00 PM.
- Evening 6.30PM to 8.00PM

When there is emergency to USG Doctors will attend as soon as possible.

Non availability this scope of services

- TURP_scan
- Fibro scan
- MRI

OPHTHALMOLOGY

- Department of ophthalmology in kumaran Hospitals consultants are available for op consultation Monday to Saturday between 9:30am 2:00pm
- Procedures available: vision testing, funduscopy, diode laser; slit examination Phaco Cataract Surgeries, Tonometry, direct and indirect ophthalmology.
- The scope of the ophthalmology department includes:
- Periodic Eye check-ups, refraction and follow ups
- Retina, Glaucoma, Paediatric Ophthalmology, Oculoplasty and Squint surgery facilities.

- Diabetic care of the Eyes: Periodic Retinopathy evaluation
 - Non availability this scope of services
- **Surgeries are not available**

PATHALOGY

- Services round the clock. Pathologist available from 10:00 AM to 11:00 PM and services are pathology, microbiology, biochemistry, histopathology, haematology and serology.
- Dialectology –Round the clock service available.

PULMONOLOGY

Doctors are available for consultation [Monday to Saturday 4pm to 7pm]

SERVICES:

Spirometry services

Lung function testing in the form of spirometry and 6 minute walk test is offered on a daily basis to indicated patients. The vitalograph 6800 Pneumotrach spirometer is used for pulmonary function testing.

Intensive respiratory care services

Critically ill patients are offered IRCU services with provision for invasive as well as non invasive ventilator support.

Asthma and allergy clinic:

Diagnosis and treatment of asthma as well as dust, fungal and other common allergies are done on a daily basis.

Preventive and quit smoking clinic:

Assessment of lung involvement is done in subjects who are current or ex-smokers. Smoking cessation support and deaddiction services are provided for patients who are desirous of quitting the habit.

Interventional pulmonology services

- Basic pulmonology services are provided in needed cases. The state of the art Olympus 190 series bronchoscope offers unparalleled image quality and ease of airway navigation. Transbronchial needle aspiration, transbronchial lung biopsies and Bronchioloalveolar lavage is done on a case to case basis.
 - Early lung cancer detection program
 - Non availability this scope of services
- Sputum for gene Expert MTB

CARDIOLOGY:

Out patients services

- Consultation available daily from 9:00 am to 10:00 am, 12pm to 1:00 pm &, Evening 6:00 pm to 9:00 pm

Inpatient Outpatient Procedures

- ECG, ECHO &TMT, available.

Non-Invasive Procedures

- Echo Colour Doppler Study (ECHO)
- Tread Mill Test (TMT)
- Holter Monitoring
- 24 Hour Ambulatory Blood Pressure Monitoring
- External Loop Recorder
- Head Up Tilt Test (HUTT)

CARDIO THORACIC SURGERY

Out patient services

- The department of cardio thoracic surgery in kumaran Hospitals doctors are available by appointments around the clock.

In patient services

Cardiac surgery:

- Valve Repair Surgeries (Tricuspid Valve / Mitral Valve)
- Valve replacement surgeries (Aortic / Tricuspid / Mitral) with Tissue Valve/ Mechanical Valve
- Valve Replacement Surgery (Aortic/ Tricuspid/ Mitral) with Tissue Valve/ Mechanical Valve
- Valve Repair/ Replacement + Congenital Heart Defect Repairs

Aortic Surgeries

(Bentall Debono Operation, Ascending Aorta, Aortic arch, Descending Aorta, Thoracoabdominal Aortic repairs, Thoracic Aorta Aneurysm Surgery, Abdominal Aortic Aneurysm Repair etc)

CARDIAC THORACIC SURGERY

- ❖ Coronal artery bypass Grafting – on pump & off pump
- ❖ Coronary artery bypass grafting – total arterial revascularization
- ❖ CABG + valve repair/replacement
- ❖ CABG + POST MI VSD Repair
- ❖ CABG + Aortic Aneurysm surgeries

- ❖ CABG + Congenital Defect Repair
- ❖ Surgery for Adult congenital cardiac Defects
- ❖ Cardiac tumorexcision/RA Myxoma Excision
- ❖ LV Restoration surgery
- ❖ Minimally invasive valve surgery
- ❖ Minimally invasive CABG
- ❖ Redo open Heart surgery
- ❖ Pulmonary Thrombo Endarterectomy
- ❖ Myomectomy for Hypertrophic Cardiomyopathy

Non availability this scope of services

- Holter
- CT coronary angiogram

VASCULAR SURGERY

- The department of vascular in Kumaran Hospitals consultant are available by appointment around the clock
- Aorto Carotid Bypass Grafting, Carotid Endarterectomy, Aorto Femoral Bypass, Femoro Popliteal Bypass, Axillary Artery Aneurysm, Axillary Femoral Bypass, Brachial Artery Aneurysm Repair etc
- RFA, Stripping
- Thoracic & Lung Surgeries
- In this department all scope of services available

SCOPE OF MEDICAL ONCOLOGY & CLINICAL HAEMATOLOGY

Out patient services

- Consultants are available from Monday to Saturday during 10.00 AM to 8.00 PM
- In patient & Outpatient services for medical oncology
- Chemotherapy Day care services
- Procedures like Bone marrow Aspiration and Biopsy, Intrathecal chemotherapy and pleural tap.
- Management Benign Hematological Disorders –
 - ✓ Anemia – hemolytic anemia – acquired or congenital
 - ✓ Iron deficiency anemia
 - ✓ Anemia of chronic disease
 - ✓ Megaloblastic anemia
 - ✓ Pancytopenia evaluation
 - ✓ Bone marrow failure syndrome - acquired or inherited
 - ✓ Immune thrombocytopenic purpura
 - ✓ Primary immune deficiency disorders
 - ✓ Bleeding disorders
 - ✓ Prothrombotic disorders
 - ✓ Management of Malignant Hematological conditions
 - ✓ Acute Leukemia's - Myeloid, Lymphoid or Biphennotypic
 - ✓ Chronic Leukemia – CLL, CML
 - ✓ Various types of Lymphoma
 - ✓ Plasma cell dyscrasias
- Stem cell transplant services
 - ✓ Autologous or allogeneic or haploidentical stem cell transplant
 - ✓ Donor lymphocyte Infusion
 - ✓ Various types of cell therapies
- Neutropenic sepsis management.

- Can be a part of blood and blood product related services for expert opinion and formulation of departmental/ institutional policies.

Nasal Surgeries

- Caldwell Luc operation
- Medial Maxillectomy
- External Ethmoidectomy
- Excision of Nasal & Nasopharyngeal Tumors such as Juvenile Angiofibroma by
 - ✓ Transplant approach
 - ✓ Lateral Rhinotomy
 - ✓ Midfacial degloving (Sub Labial)

Throat, Head and Neck Surgeries

- Adenotonsillectomy
- Excision of lesions of palate and tongue
- Upper aerodigestive endoscopy for adults and children

Head & Neck surgery

- Thyroglossal cyst/ fistula Excision
- Branchial cyst/ fistula Excision
- Oncologic surgeries of head & neck including maxillectomy & laryngectomy

24 Hour Emergency Management Including

- Tracheostomy

Out Patient Department with Facilities For

- Nasal endoscopy
 - Laryngoscopy
- Not available in this department
- Radio therapy for cancer patients , pet scans

Mammogram, MUGA scans, RI scans,
Ct guided BX bone scan TUMORS markers ,molecular
test,pathogenities,cytogenities.

- **Non availability this scope of services**

- Mammogram
- Radiotherapy for cancer patients
- MRI
- DEXA scan
- BMD
- PSMA scan
- Nuclear medicine
- PET Scans
- MUGA Scans
- Immunology
- CT guided bone scan TUMORS makers, molecular test
Pathogenities ,cytogenities

Scope of Services for Department of Paediatric Surgery:

Out patient department

- In the pediatric surgery department, consultant is available for out patients services 5.00 PM to 7.00 PM . In case of emergency, doctors will be available to attend the patients.

In patient services

- Neonatal surgeries for congenital anomalies and malformations
- Paediatric general surgery
- Gastrointestinal and hepatobiliary surgeries

- Paediatric urology procedures
- Minimal access surgeries - laparoscopic and thorascopic surgeries
- Paediatric solid tumors
- Diagnostic procedures like cystourethrogram, barium swallow, trucut biopsy,
- Drodynamics

In this department all scope of services available

• **PODIATRIC:**

The department of podiatric in Kumaran Hospitals consultants are available by

appointments for Out patients services.

In patient services

- Surgery for Diabetic ulcer
- For wound debridement
- Toc amputation
- Gangrene foot
- Abscss foot
- Ulcer foot

Non availability this scope of services

- Oxygen therapy
- MRI

PLASTIC SURGERY

Out patient services

The department of plastic surgery in Kumaran Hospitals consultants are available for consulation 11am to 12pm

Incase of Emergency consultant are available around the clock for attend the patients

In patient services

- Lipo suction
- Gynacomasiu
- Skin grafting – bum
- Crushed injury causes correction
- Tendon Transplant
- Corrective surgeries
- Flap surgeries.
- SSG-Split grafting
- Doppler study
- Venous arteries

Non availability this scope of services

- Burn unit [If a patient arrives at our hospital with burns covering less than 60% of their body, we admit the patients and start giving them treatment. If the burns exceed 60%, we shift the patient to nearby NABH burn unit hospitals.
- Oxygen therapy for burn patients

GASTROENTEROLOGY AND HEPATOLOGY

Doctors are available for out patient consulation and procedures from 7.30am to 8.30pm

Equipped with latest video endoscopes and emergency facilities, our center offers diagnostic and therapeutic upper and lower gastro-intestinal endoscopies, biliary

endoscopies and management of liver disorders. Diagnostic and therapeutic upper and lower GI services

- Outpatient department
- Emergency services and inpatient care
- Endoscopy (Diagnostic and Therapeutic)
- Colonoscopy (Diagnostic and Therapeutic)
- ERCP (Endoscopic Retrograde Cholangiopancreatography) (Diagnostic and Therapeutic)
- Flexible sigmoidoscopy (Diagnostic and Therapeutic)
- Liver biopsy
- Enteroscopy
- Esophageal 24 Hours pH monitoring
- Esophageal Manometry

Gastro surgery

- Laparotomy
- Gastrectomy
- Esophagectomy
- Hemi Colectomy
- Whipples
- Pancreatectomy
- Cholecystectomy
- Appendectomy
- Herniotomy Inguinal
- Incisional Hernia
- Umbilical Hernia
- Liver transplant are done by the expert doctors
- Lapcholy
- Lap Hernia
- Bilateral Inguinal Hernia

- Lipoma
- D lap with Hernia Repair
- I & D
- Robtic Lapcholy
- Gall Bladder Removal
- Liver Resection
- Non availability this scope of services
 - MRCP
 - MRI

Tansplant:

The Department of transplant offers comprehensive diagnostic and treatment services, The faculty offers the latest in specialized care for a wide range of urologic problems and strives to proved all patients with individualized and compassionate care.

Patient need a transplant as well as willing to undergo transplant surgery of either live or cadaver, renal or liver transplant are done here.

Patient is completely evaluated or assessed prior to transplant surgery, If anyone is willing to donate, then he or she is also completely assessed before surgery.

Prior to transplantation, HLA typing is performed to assess the degree of donor / recipient mismatching and anti-HLA antibody screening and cross matching are performed to evaluate the recipients likelihood of rejecting graft from this donor.

If live donor is not available then a cadaveric transplant can be done for which registration process is done here

Cadaver lever transplant donor allocation from rota wise.

Liver transplant services

Out Patient services:

- * Liver workup

In Patient services

- * Live liver transplant
- * Cadaver liver transplant

Renal Transplant:

Out patient services

- * Dialysis

In patient services:

- * Live Renal Transplant
- * Cadaver Renal transplant

Bone marrow transplant

Peripheral stem cell transplant it means from patient donor blood stem cells are collect by a dialysis like machine and it will be given after high dose chemotherapy, after chemotherapy collected stem cells will be given back to the patient.

•Non availability this scope of services

- MRCP
- MRI

NEPHROLOGY:

Out patient services

- Consultant available daily in outpatient 1:00 PM to 5:30 pm
- Well-equipped dialysis unit with B-Braun and Gama machines,
- 24 hours dialysis facility is available (6 dialysis machines functioning).

The department of Nephrology at Kumaran Hospitals comprises of a state of the art infrastructure, equipped with the most update technology, a team of dedicated and skilled Nephrologists as well as paramedical staff. We provide comprehensive care in all areas of Nephrology with round the clock delivery of care for the dialysis patients, kidney

transplant recipients, acute and chronic kidney diseases patients. The Department provides OPD service & emergency services round the clock for kidney patients.

- The OPD services are available from Monday to Saturday by appointments.
- Hemodialysis Services:
 - ✓ Conventional Hemodialysis
 - ✓ Hemodialysis for acute as well as chronic renal failure patients

To reduce incidence of hepatitis B and C rigorous precautions are taken and such patients are dialysed on separate machines.

In patient services

Continuous Renal Replacement Therapy (CRRT)/ Prolonged Intermittent Renal Replacement Therapy (PIRRT)/ Slow Low Efficiency Dialysis (SLED) for critically ill patients requiring dialysis.

- Hemoperfusion: This service is done in cases of drug over dosage.
- Plasmapheresis: For renal as well as non- renal cases
- Peritoneal Dialysis
 - a) Intermittent Peritoneal Dialysis
 - b) Continuous Ambulatory Peritoneal Dialysis (CAPD)
- Renal Biopsy: Is done percutaneously to obtain information needed to diagnose, monitor or treat problems of the kidney.
- Dialysis access creation: Depending on which form of Dialysis patient chooses, Dialysis access, (AV Fistula / Graft or peritoneal dialysis (PD) catheter) is created.

In this department all scope of services available

NEUROLOGY:

The Department of Neurology provides services and treatment for:

Outpatient Department

- Consultant are available for OPD during 8.00 AM to 9.00 AM and from 1.00 PM to 2.00 PM.

Out patient & In patient services

Neuro electrophysiology

- Digital video EEG
- Nerve conduction study
- Electromyography
- Visual evoked potential
- Auditory evoked potential
- SSEP (Somatosensory Evoked Potential)

Neurovascular lab

- Transcranial Doppler
- Carotid Doppler

Interventional Neurology

- DSA (Digital Subtraction angiography)
- Mechanical thrombectomy
- Aneurysm coiling
- Carotid artery stenting
- AVM embolization

Stroke unit

- Stroke ICU
- Neuro rehabilitation
- Speech therapy
- Dysphagia clinic
- TIA Clinic

In this department all scope of services available

NEUROSURGERY

The Department of Neurosurgery provides thorough evaluations, diagnoses and treatment for brain, nerve, and spinal cord diseases.

- Consultant available on call appointment for out- patient services.

In patient services

- Brain trauma and spine injury of all complexities, critical care of head injured.
- Brain tumors – including skull base, sellar region- craniopharyngiomas, pituitary gland tumors (transsphenoidal), posterior fossa including CP angle acoustic schwannoma, meningiomas, gliomas, pediatric tumors like Ependymoma, Medulloblastoma, Pilocytic astrocytoma, pineal tumors, colloid cysts.
- Neurovascular diseases – surgery for stroke, aneurysms and vascular malformations like AVM and cavernoma.

- Pediatric neurosurgery for brain and spine congenital malformations like craniosynostosis, spinal dysraphism (Myelomeningocele), ACM, syringomyelia, tethered cord, cranio vertebral junction diseases, split cord malformations. Hydrocephalus – both shunts and endoscopic third ventriculostomy.
- Spinal tumors – at all levels, thoracotomy with fusion.
- Degenerative spine diseases – decompression and fusions, cervical and lumbar micro discectomy and endoscopic discectomy, TLIF for spondylolisthesis.
- Spinal infections like Tuberculosis with instrumented fusion.
- Peripheral nerve lesions like carpal tunnel syndrome, brachial plexus injury
- Minimally invasive stereotactic surgery for brain lesions.
- Minimally invasive spine surgery for spondylolisthesis and prolapsed disc.
- Functional neurosurgery – microvascular decompression for trigeminal neuralgia, hemifacial spasm, RF lesioning
- Epilepsy surgery for refractory epilepsy, lesionectomy

In this department all scope of services available

PHYSIOTHERAPY:

The department of physiotherapy provides physiotherapy services to both outpatient and inpatient.

OUT-PATIENT DEPARTMENT:

Patients with various musculo-skeletal, degenerative problems, stroke, Obesity and several other conditions who need physiotherapy are attended daily. The facilities provided are,

Electrotherapy

- Ultrasound therapy
- Transcutaneous electrical nerve stimulation
- Interferential therapy (IFT)

- Spinal traction
- Pelvic (continuous/intermittent)
- Cervical (continuous/intermittent)
- Electrical stimulation (Galvanic/faradic currents with electro diagnostic facility)
- Short wave diathermy(SWD)
- Wax therapy
- Cryotherapy

- ✓ Therapeutic exercise include weight cuffs, dumbbell set, swiss ball) and massage

Manual therapy

- ✓ Hands-on therapies (METS, Tigger release, Myofascial release, etc.,)

Taping and strapping

- ✓ Mobilization/Stabilizing belts, Patient evaluation kit (including Goniometer, Percussion Hammer, Measuring tape etc.), Walking aids (sticks, crutches, frames and wheel chairs etc.)

IN-PATIENT DEPARTMENT:

Physiotherapy is given to post operative and pre operative patients of various departments, the facilities include:

- Pain management
- Postural drainage
- Breathing exercises
- Chest physiotherapy
- Intensive care therapy
- Antenatal care & postnatal care
- Gait training
- Post & pre operative rehabilitation
- Coordination exercise

- Orthotics and prosthetics.

2.6 SUPER SPECIALITY SERVICES

- **Urology**
- **Cardiology**
- **Pulmonology**
- **Nephrology**
- **Paediatric surgery**
- **Gastroenterology**
- **Hepatology**
- **Thoracic surgery**
- **Oncology**

CATH LAB:

Cath lab is for tests and procedure including ablation, angiogram. Angioplasty and implantation of pacemakers/ICDs are carried out. Usually you'll be awake for these procedures.

The department of cath lab in Kumaran Hospitals doctors are available 24*7

CATHLAB PROCEDURES:

CAG- Coronary angiogram

- ❖ PTCA- Percutaneous transluminal coronary angioplasty
- ❖ PPI- Permanent pacemaker implantation
- ❖ TPI- Temporary pacemaker implantation
- ❖ IVUS- Intra-vascular ultrasound
- ❖ OCT- Optical coherence tomography
- ❖ FFR- Fractional flow rate
- ❖ ROTA- Rotablation

- ❖ IVL- Intra vascular lithotripsy
- ❖ EP STUDY- Electro-physiology study
- ❖ Cath study
- ❖ PAG- Perpheral angiogram
- ❖ PAP- Perpheral angioplasty
- ❖ Cvp
- ❖ Ivc filter
- ❖ Pcn
- ❖ Embolization
- ❖ Aortic stenting (EVAR)
- ❖ Aspiration
- ❖ Cholecystomy
- ❖ Chemoport
- ❖ Asd
- ❖ Vsd
- ❖ Collateral stenting
- ❖ Pda
- ❖ Ptmca
- ❖ Bav
- ❖ Neuro coiling
- ❖ Cerebral angio
- ❖ Cerebral stenting

2.5 SUPER SPECIALITY SERVICES

- Urology
- Cardiology
- Pulmonology
- Nephrology
- Paediatric surgery
- Gastroenterology
- Hepatology

- Thoracic surgery
- Oncology

2.6 OTHER SERVICES AVAILABLE

- House pharmacy 24hrs round the clock
- Dietician services -8:00AM to 8:00PM
- Ambulance services round the clock (Out sourced will be availed within 20min from the time of call)
- Blood Storage centre 24hrs round the clock.
- Endocrinology
- Imaging services – X-ray,CT,ECG,ECHO,TMT,Ultrasound
- Laboratory Services – Bio-chemistry, Pathology, Microbiology