

# Ganzouri Specialized Hospital

## Orthopaedic Surgery department

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### Overview

The orthopedic surgery department comprises a multispecialty group of doctors who work together to provide accurate diagnosis and treatment for disorders of bones, joints, ligaments, tendons, muscles and nerves in children and adults. The department is well equipped with the updated technology needed to provide state-of-the-art diagnosis, treatment and rehabilitation for different disorders of the musculoskeletal system.

The department prides itself in having a successful group of academic orthopaedic surgeons who perform training programs for the residents on new treatment techniques. Our team has international publications and shares in annual conferences. This commitment to clinical research allows the department to use appropriate strategies and techniques to best treat patients and provide the highest quality musculoskeletal care.

Services in the department include orthopaedic trauma division, reconstruction & joint replacement division, sports medicine division, hand and upper limb division, spine care division, foot and ankle division, paediatric and congenital orthopaedic division, limb lengthening and complex reconstruction division, musculoskeletal tumor division.

## Orthopedic Trauma Division

The orthopedic trauma division is concerned with treating fracture and their complications. Fortunately, most fractures will go on to heal, given the current treatment protocols of care. However, in every fracture there is the risk that the fracture may fail to heal, or be so delayed in healing that additional treatment is needed.

Operative treatment is indicated in open or compound fractures, displaced growth plate fractures, and fractures that involve the surface of a joint. Growth plate fractures are challenging cases, their treatment includes casting, closed manipulation, and sometimes surgery to optimize the position and function of the growth plate.

### What we treat?

- Long-bone fractures
- Intra-articular fractures
- Malunion (bone that heal incorrectly)
- Nonunion (bone that has difficulty healing)
- Pelvic/acetabular (hip socket) injuries
- Polytrauma patients

## Reconstruction & Joint Replacement Division

The reconstruction & joint replacement division uses the most innovative joint reconstruction methods. Orthopaedic surgeons at Ganzourispecialisedhospitalreplace a large number of hip and knee joints each year.

The hospital has created a comprehensive approach for a variety of hip and knee problems. They are experienced in treating painful and infected joint replacements, including complex problems associated with severe bone deficiencies. Specialised trained physical therapists work hand in hand with orthopaedic surgeons as a one team seeking for the highest quality of care to help ensure long-term success.

### What We Treat?

- Knee arthritis (replacement or fusion)
- Knee corrective osteotomies
- Hip fractures
- Hip preservation surgeries
- Hip arthritis (replacement or fusion)
- Hip revisions after failed hip replacement
- Osteonecrosis

## Sports Medicine Division

Sports medicine division is specialized in the treatment of athletes and other physically active individuals. Sports injuries are injuries that occur in athletic activities, which can result from acute trauma, or from overuse of a particular body part. The division goal is to return the athlete back to sports

### What we treat?

- Arthroscopic Anterior cruciate ligament reconstruction
- Arthroscopic meniscal repair
- Knee dislocations
- Musculoskeletal injuries
- Patellar (kneecap) Dislocations
- Shoulder instability or dislocation

## Hand and Upper limb Division

The upper limb division is dedicated to the care of hand and upper extremity conditions. The bones, nerves, joints and muscles of the hands, wrists, forearm, elbow and shoulder are critical to activities of daily living, when trauma or disease affects their viability, overall quality of life will be affected as well. The division is a combined orthopaedic and plastic surgery unit who work together to restore range of motion, decrease pain and increase strength. Our surgeons are experts in treating adults and children suffering from all bone and soft-tissue conditions of the hand, elbow and upper extremity.

### What we treat?

#### Shoulder disorders

- Frozen shoulder
- Impingement syndrome
- Osteoarthritis
- Osteonecrosis
- Rotator cuff injuries/ repairs
- Shoulder dislocations

#### Elbow disorders

- Elbow contractures
- Ligament Injuries



- Lateral epicondylitis (tennis elbow)
- Medial epicondylitis (golfer's elbow)

### **Hand and peripheral nerve**

- Amputations
- Brachial plexus injuries
- Carpal tunnel
- Complex fractures and soft tissue injuries
- Congenital hand deformities
- Contractures
- Tendon repair, graft and transfer
- Tenosynovitis
- Nerve injuries, repairs and compressions

## **Spine Care Division**

The spine care division provides patients with the latest, innovative, effective medical and surgical treatments available for back and neck problems. It offers comprehensive care for all types of spinal disorders. The initial treatment approach is typically non-surgical, with surgical options reserved for patients with recurrent or disabling symptoms or progressive deficits. Complete diagnostic testing of all spinal and nerve disorders are available through the division. The division also, offers full-scale analysis, and treatment interventions for patients with scoliosis and other spinal deformities. The minimally invasive program, utilizes state-of-the-art neuroendoscopic techniques to minimize trauma and disruption of surrounding tissues, which enables patients to be treated as one day surgery.

### **What we treat?**

- Disc prolapse
- Kyphosis
- Scoliosis
- Spine infection
- Spinal stenosis

- Spinal tumors
- Spondylolisthesis
- Spondylosis

## Foot and Ankle Division

The Foot & Ankle division treats a broad range of foot and ankle conditions that can occur at any stage of life. The division works in collaboration with vascular surgery, and plastic surgery. The division is a leader in arthroscopic treatments for ankles, a procedure that generally involves only small puncture wounds, resulting in much faster recovery times than with traditional surgery. Minimally invasive endoscopic surgery also greatly reduces scarring, blood loss and recovery time.

### What we treat?

- Achilles tears and disorders
- Bunions and toe deformities
- Cavus foot
- Deformity correction
- Diabetic foot problem
- Flatfoot
- Foot and ankle arthritis
- Osteochondritisdissecans
- Paediatric and congenital foot problems
- Posterior tibialtendon dysfunction
- Post-traumatic foot and ankle deformities
- Sports injuries to the foot and ankle
- Tarsal coalitions
- Tendon and ligament reconstruction
- Tendon transfers for neurologic injuries/weakness

## **Paediatric and Congenital Orthopedic Division**

The Division of Paediatric and congenital orthopaedic Surgery is dedicated to helping the specific needs of paediatric patients with orthopaedic problems in order to return to an active lifestyle. The division aims to provide a coordinated multidisciplinary approach with a team consisting of physicians, health care professionals, and the family with the child as our central focus. These physicians are highly skilled in providing young patients with state-of-the-art surgical and non-surgical treatments.

### **What we treat?**

- Arthrogyposis (joint contracture disorder)
- Club foot disorders
- General paediatric orthopaedic disorders
- Hip disorders (dysplasia, Perthes disease, slipped capital femoral epiphyses, etc.)
- Limb deformities and discrepancies
- Neuromuscular and congenital disorders (cerebral palsy, myelomeningocele, etc.)
- Paediatric sports medicine
- Syndromes and skeletal dysplasia

## **Limb Lengthening and Complex Reconstruction Division**

The limb lengthening surgery and reconstruction specialists offer state-of-the-art care for limb lengthening, deformity correction, fractures, length discrepancies, bone trauma, or cosmetic needs for both adults and children, which requires a high level of expertise. Our goal is to improve function and decrease disability.

Our team is updated to the recent technologies in the field of deformity correction. Each type of deformity is unique and so treated differently and uniquely. Treatment features a computerized deformity analysis, as well as a hands-on approach. Individualized plans are designed to best fit each patient's needs.

### **What we treat?**

- Achondroplasia
- Blount's Disease
- Bow legged
- Chronic Bone Infections
- Fracture Nonunions
- Fibular Hemimelia
- Infected Nonunions
- Knock kneed
- Limb shortening and lengthening
- Proximal femoral focal deficiency (PFFD)
- Radial Club Hand
- Segmental Defects (large areas of missing bone)
- Tibia Hemimelia
- Traumatic acquired deformities

## **Musculoskeletal Tumor Division**

Our Musculoskeletal tumor division, is dedicated for the diagnosis and treatment of adults and children with benign and malignant tumors of the bone and soft tissue, The surgeons, medical oncologists, radiologists and pathologists work together to review the patients. Together, they will come up with the treatment plan most likely to result in the best possible outcome and quality of life.

We are performing surgeries ranging from simple excision to wide resection of tumours with complex reconstruction. We are capable of performing limb-sparing resection with better oncological outcomes. We also, reconstruct large bone defects with tumour prosthesis.

One of the surgical challenges is the anticipated leg length discrepancy resulting from tumour resection in a growing child, for which we were successful to implant growing prostheses capable to length through minimally invasive or non invasive procedures.

### **What we treat?**

- Benign bone tumors
- Benign soft tissue tumors



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- Conditions mistaken for tumors
- Limb salvage
- Malignant bone Tumors (Ewing sarcoma, osteosarcoma)
- Malignant soft tissue tumors
- Metastatic bone tumors