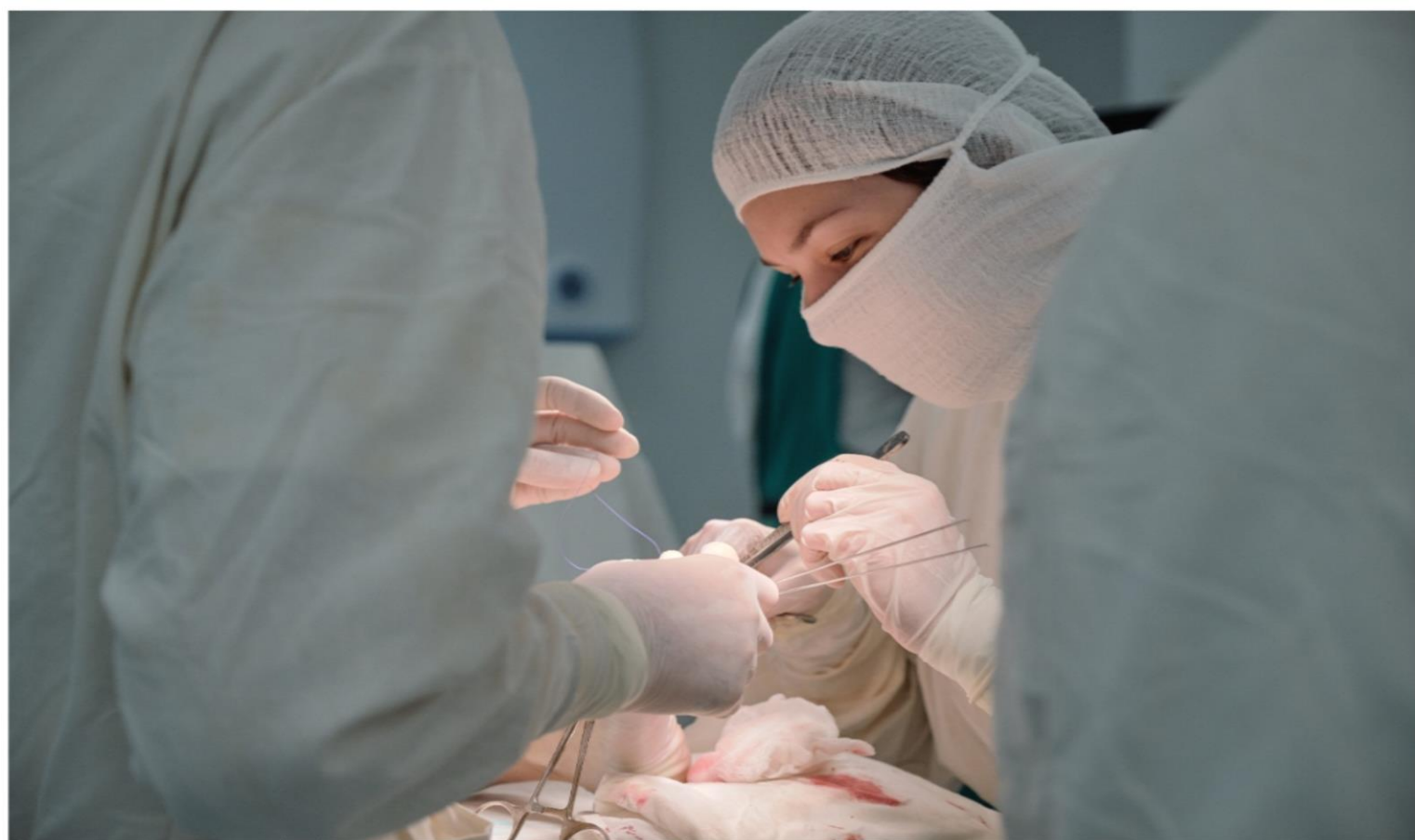
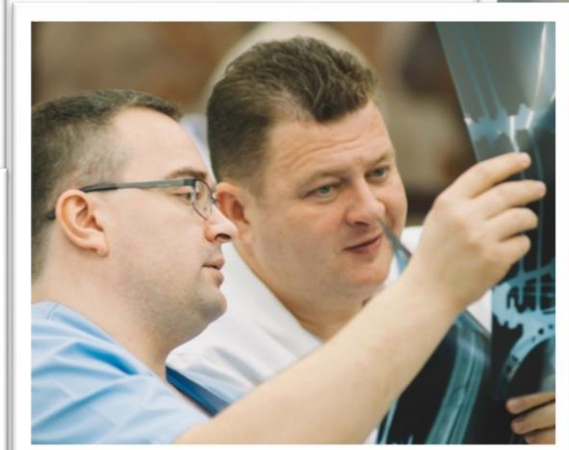




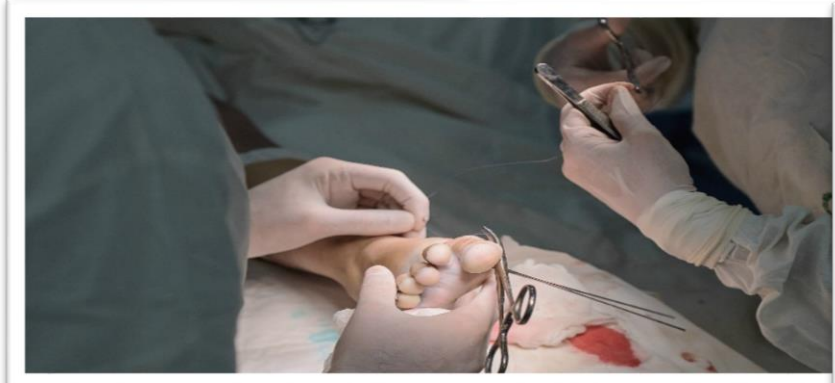
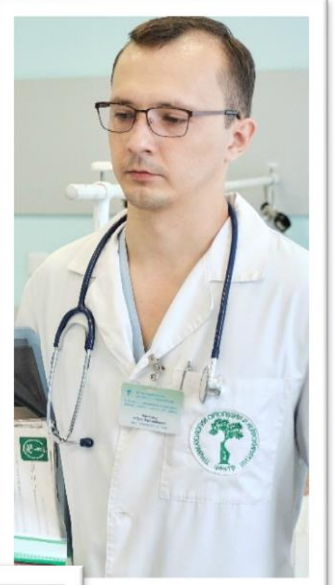
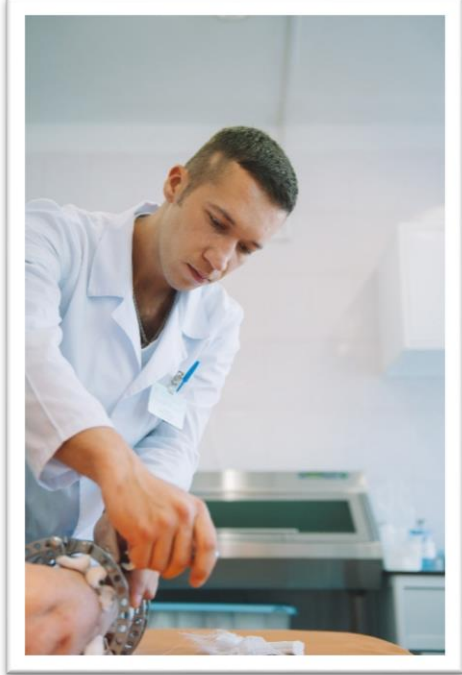
# THE **CENTER** OF **TRAUMATOLOGY, ORTHOPEDICS** **AND NEUROSURGERY**



[травмакиров.рф](http://травмакиров.рф)













# THE HISTORY OF THE HOSPITAL



The history of the Center of Traumatology begins in 1963. That year the order to create the traumatology hospital was signed.

It was created with support and initiative of honored doctors of TRSFSR and the Healthcare Department. The chief physician was Georgij Semenovich Bryzgalov. There were 2 operating rooms, laboratory and the hospital

with 135 beds.

The following year 3 department with 175 beds were created. The number of staff and their skills had increased. Neurotraumatologic branch was opened as one of the first in the whole country. The department specialized in trauma of the central and peripheral nervous system.



# THE HISTORY OF THE HOSPITAL



In March of 1979 The Center of Traumatology had 11 departments, laboratory and emergency station. In 1991 it was elevated to a republican level and renamed into "Kirov regional clinical traumatology hospital".



The organization of treatment and diagnostic process, quality of medical equipment had been improved. The hospital became an unique institution. Ant in 2015 it was renamed into "The Center of Traumatology, Orthopedics and Neurosurgery".

# THE FIRST TRAUMATOLOGIC AND ORTHOPEDIC DEPARTMENT



The Department specializes in the treatment of limb bones solitary fractures, traumas of chorda, hand diseases, benign tumor of the hand.

The Department has 50 beds.

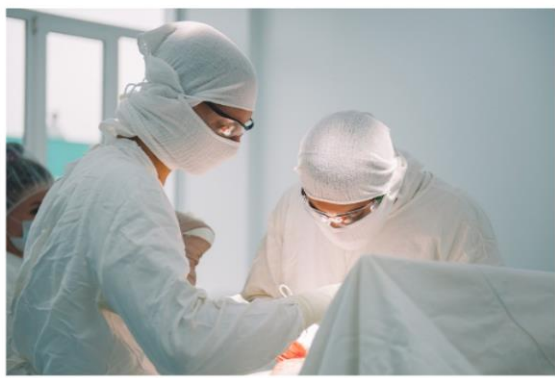
The doctors make more than 800 specialised and high-tech medical care operations:

- total hip arthroplasty with hip fractures and consequences of injuries
- arthroplasty of the hand joints
- minimally invasive closed stable intramedullary osteosynthesis of long tubular bones of all localizations.





# DEPARTMENT OF MULTIPLE AND COMBINED TRAUMA



Department of multiple and concomitant trauma provides specialized, including high-tech medical care for:

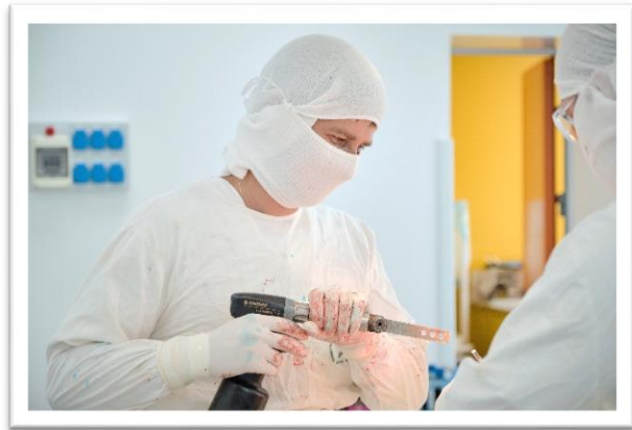
- Pelvic fractures, cotyloid cavity fractures
- Rupture of the **лонного** and sacroiliac joints
- Severe multi system and concomitant
- Multiple fractures of extremities of any site
- Injuries of the chest and abdominal cavity

The priority operations are

- Arthroplasty of the hip with trauma injuries and consequences of cotyloid cavity fractures and traumatic hip dislocations
- closed blocking osteosynthesis of diaphyseal and periarticular fractures with electronic-optical converter
- Osteosynthesis of intraarticular fractures with angular and lateral stability plates
- Osteosynthesis of fractures by external fixation device
- With complex fractures of pelvic bones and cotyloid cavity using by low-traumatic access using a computer-based navigation system



# THE THIRD TRAUMATOLOGY AND ORTHOPEDIC DEPARTMENT



The department provides specialized including high-tech medical care for patients with injuries of the musculoskeletal system and their consequences, diseases of the musculoskeletal system and with:

- arthrosis of large joints;
- congenital and acquired deformities of the upper and lower extremities;
- foot deformities.

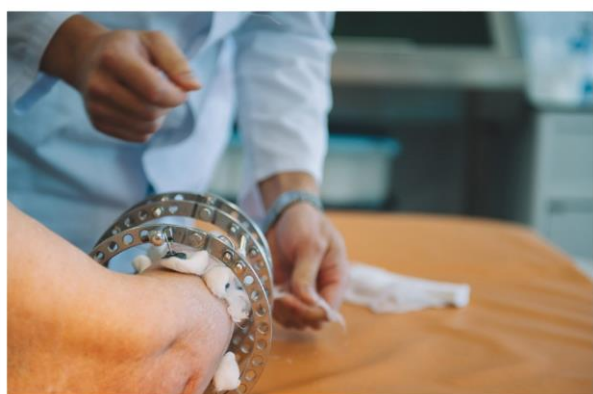


The surgeons make next kind of operations:

- arthroplasty of hip joints;
- arthroplasty of knee joints;
- endoprosthetics of shoulder, elbow, ankle joints;
- corrective osteotomy with limbs deformities;
- operations to correct foot deformities;
- restoration operations for limb bones false joints;
- osteoplastic operations for benign bone defects.

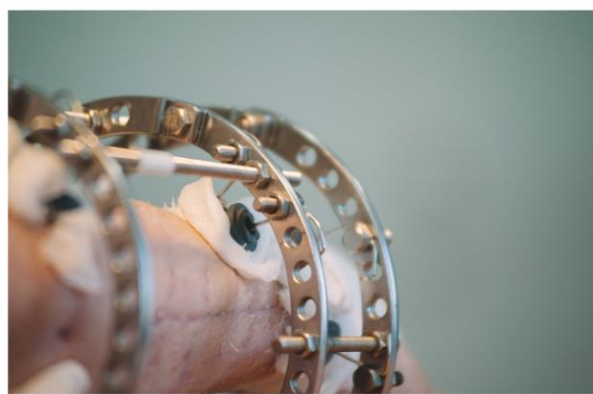


# THE FOURTH TRAUMATOLOGY AND ORTHOPEDIC DEPARTMENT



The department provides specialized including high-tech medical care for patients with:

- injuries of the musculoskeletal system and their consequences complicated by acute or chronic infectious processes;
- sepsis, anaerobic infection, extensive post-traumatic, neurogenic wounds, and hematogenous osteomyelitis, purulent osteoarthritis, trophic ulcers due to trauma, various postoperative purulent complications.



The surgeons make next kind of operations:

- two-stage treatment of open fractures;
- restoration of the affected bone with the use of compression-distraction osteosynthesis or bone-plastic techniques;
- treatment of patients with burns, frostbites, skin defects of various etiologies;
- plasty of scars and scar deformities of any etiology, skin ulcers and long-term non-healing wounds;
- hair restoration in post-burn, post-traumatic alopecia with the use of the dermatension method.





# DEPARTMENT OF ARTHROSCOPY



The department provides specialised high-tech medical care for patients with long-term joint trauma and the consequences of injuries:

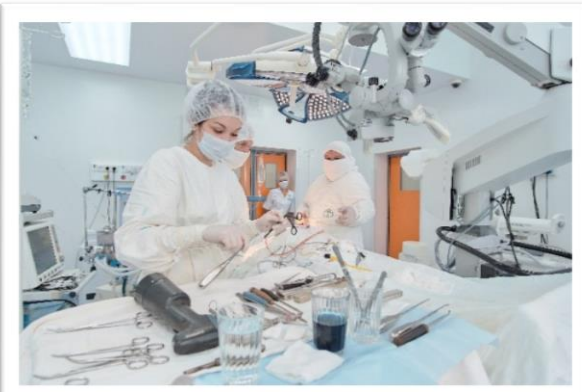
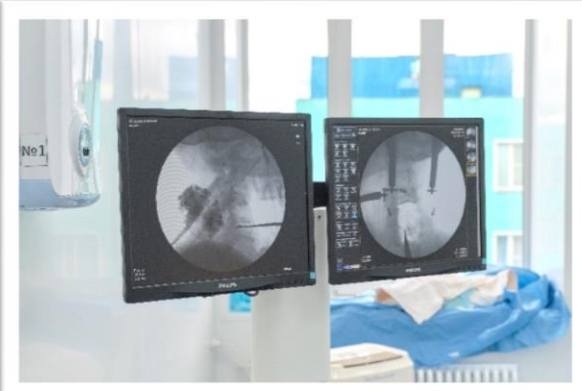
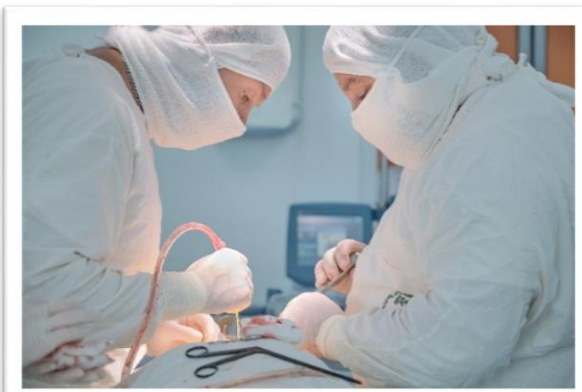
- Damage of cruciate ligaments of the knee joint
- Damage to menisci
- Patellar dislocation (slipping patella)
- Deforming arthrosis of the knee joint
- Damage or disease of articular cartilage
- Presence of loose body in the joint cavity
- Intraarticular fractures
- Shoulder-glip

The main area of work for this department is minimally invasive surgery (arthroscopy) of knee, elbow, shoulder, ankle and hip joints. Arthroplasty of the knee.

The surgeons of the department every month perform more than 300 arthroscopic resections of menisci and plastic of knee joints.



# SIXTH TRAUMA AND ORTHOPEDIC DEPARTMENT (THE DEPARTMENT OF VERTEBLOGY)



This is a specialized department involved in the treatment of:

- vertebral fractures of all localizations and its consequences
- vertebral deformity (spinal deformity)
- межпозвоночные грыжи hernia nuclei pulposi
- spinal disc herniation
- slipped disc
- traumatic dislocation/sprains of the vertebral
- остеохондроз позвоночника
- osteochondrosis vertebralis
- vertebral osteochondrosis
- degenerative disk disorder / disease
- spinal osteochondrosis

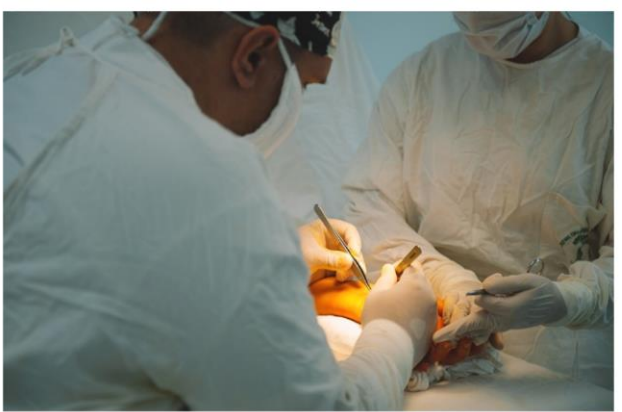
The surgeons provide the following operations as

Anterior and posterior decompression of the vertebral canal with anterior vertebral corporectomy, using auto grafts and various implants that replace the body and disc (at all levels of the spinal column)

- occipitospodylodesis with various metal structures
- fixation of the cervical spine in a halo apparatus
- closed percutaneous and open vertebroplasty of vertebral bodies
- micro discectomy



# DEPARTMENT OF MICROSURGERY INCLUDING MICRONEUROSURGERY



The department deals with the treatment of patients with injuries of the peripheral nervous system, excluding head and spinal injuries, diseases, wrist injuries and their consequences.

Operational treatment with microsurgical technology used with:

- injuries of peripheral nerves of the extremities;
- tunneling neuropathies of any localization;
- if the brachial plexus is damaged;
- neurogenic hand deformation and other chronic injuries of the tendons and nerves;
- treatment of cicatricial deformities of the upper extremities in combination with a defect in the skin;
- seam or plastic of the main vessels and nerves of the extremities;
- for acute injuries to the hand and forearm, including re-implantation and revascularization of the segmented extremities;
- microsurgical transplantation of tissue complexes with restoration of their blood supply;
- with Dupuytren's disease and other contractures of the fingers;
- in case of damage to the tendons of the extensor and flexor of the fingers.

# SEVENTH DEPARTMENT (DEPARTMENT OF REHABILITATION)



The main task: the restoration of the full volume of functions, with the restoration of the correct stereotype of movements and its social adaptation, the development of joints. The department treats more than 160 patients from the Kirov region and other regions.

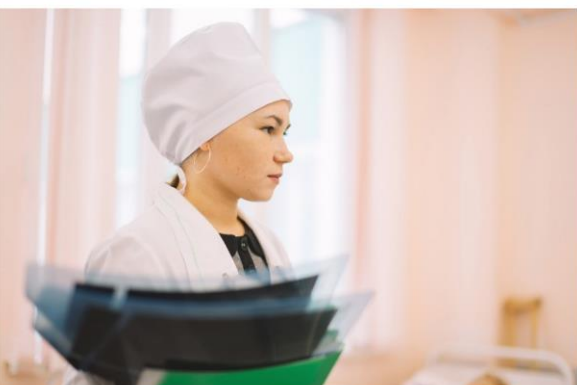
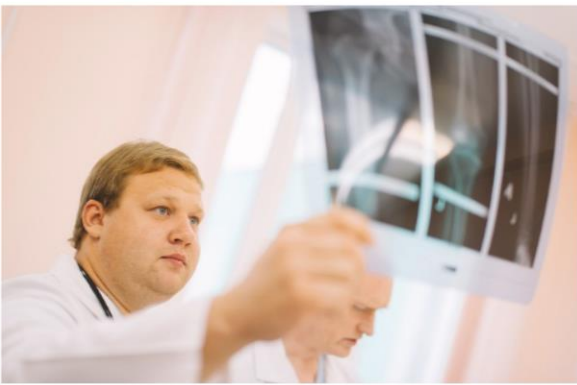
What is unique about the department?

1. The main principle of the department is "Everybody to the patient, not the patient to everybody". At this department all necessary equipment and specialists are based on the same floor with patient rooms. Modern machines are located in the rooms.

2. The continuity is observed. Both surgeons and specialists in rehabilitation medicine work here. There are physiotherapy exercises and physiotherapy specialists.

3. Comfort is the main part of the department. There are a TV, a refrigerator, a comfortable functional bed, a kettle, a special bathroom, a shower, pictures on the walls. It allows one to recovery in a shorter time.

4. The department is equipped with modern mechanotherapy machines for passive joint development of the upper and lower extremities. For example, "Artromot", "Kinetic", ellipsoid, a matrix for teaching walking on the steps on crutches. Patients are engaged under the supervision of instructors.





# (???) DAY TRAUMATOLOGIC AND ORTHOPEDIC HOSPITAL



Patients receive qualified specialized medical care. They are operated on the day of admission. In the evening patients can be released for aftercare to a polyclinic at the place of residence.

The department has

- 2 postoperative wards
- 2 planned and 1 emergency operating rooms
- treatment room; first-aid room
- boarding house temporary stay patients

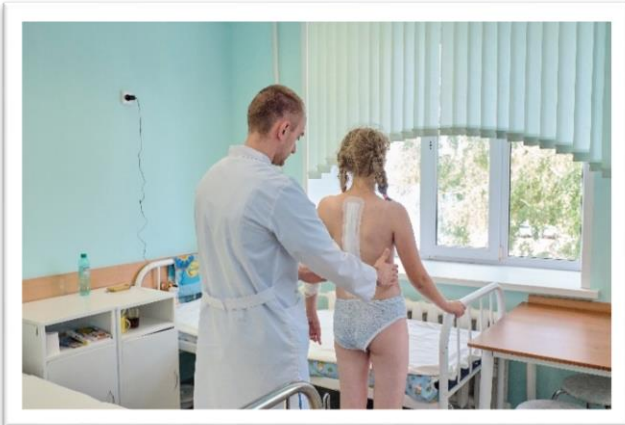


The main tasks of the department are

- Introduction and widespread use of modern hospital-substituting medical technologies;
- active interaction with trauma 2 and 3 levels centers of the Kirov region;
- organization of timely transfer for surgical treatment of patients with diseases and injuries that do not require round the clock medical supervision;
- operative treatment of patients with trauma and orthopedic profiles that do not require round the clock medical surveillance, using modern, minimally invasive technologies.



# CHILDRENS TRAUMATOLOGY AND ORTHOPEDIC DEPARTMENT



The department provides specialized high-tech medical care for patients under 18 years old from all Russian regions.

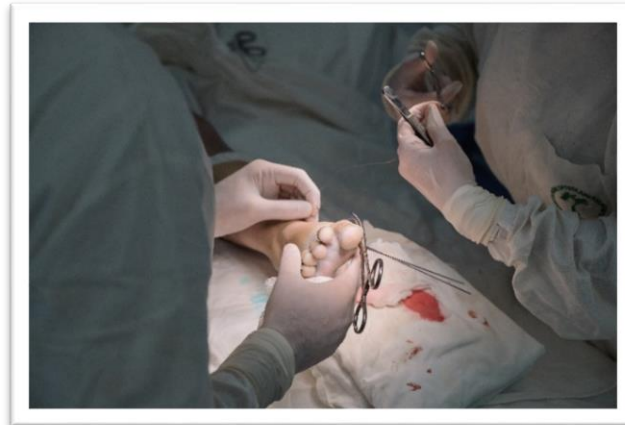
In the department children are treated for injuries of the musculoskeletal system and their consequences, congenital and acquired diseases of the musculoskeletal system and their consequences, congenital and acquired diseases of the musculoskeletal system.

All kinds of surgical treatment including high-tech medical care provided free of charge. High-tech medical care includes such operations as:

- correction of scoliosis, kyphosis, spondylolisthesis, spinal anomalies.
- correction of chest deformities
- reconstructive operation on the hip joint
- congenital, correction of deformities and limb development abnormalities
- arthroscopy of the knee joint

This orthopedic department is involved in the treatment of:

- congenital and acquired deformities of the spine
- hip joint disease
- congenital club foot and other deformations of the feet
- abnormalities of the development of the hands and upper limbs
- developmental abnormalities of the development of feet



- Shortening of upper and lower extremities
- Deformity of upper and lower extremities
- Congenital muscular torticollis and patellar dislocation
- Cerebral palsy
- Flared-shaped, keel-like deformation of the chest
- Consequences of acute hematogenous osteomyelitis, tuberculous osteitis
- Bone cysts, benign tumors
- Damaged tendons
- Joint trauma (arthroscopy of joints)
- Fractures of bones, joint dislocation



# TRAUMATOLOGY EMERGENCY DEPARTMENT



The department includes

- emergency room;
- emergency operation block.

The department provides emergency and urgent assistance to patients with injuries of

- musculoskeletal system
- chest
- abdominal cavity

The task of the unit is timely and qualitative assistance to patients, which includes a rapid examination and surgical treatment of patients upon admission.

The main activities are osteosynthesis of limb bones; surgical treatment of chest and abdominal injuries; consultations and rendering of qualified medical care to outpatients, if it is impossible to render it in conditions of a traumatological polyclinic.

Operations of total hip arthroplasty for fractures of the femoral neck are performed on the day of admission.

At the department doctors use new approaches in treatment of patients with injuries of the musculoskeletal system:

- minimally invasive methods of treatment;
- stable biological osteosynthesis by modern metal implants.



# DEPARTMENT OF ANAESTHESIOLOGY AND REANIMATION



With the expansion of the volume of reconstructive and plastic intervention, their complexity and duration increase. Range of applied anesthesia during surgery is wide: from local anesthesia (toponarcosis) to general anesthesia with tracheal intubation:



- infusion anesthesia (intravenous anesthesia)
- phlebonarcosis
- total intravenous anesthesia
- inhalation
- General anesthesia with tracheal intubation
- **Аппаратомасочный наркоз** instrumental anesthesia
- Endotracheal anesthesia
- Conduction anesthesia
- Epidural anesthesia
- Nerve block plexus



The department of anesthesiology and Reanimation has modern anesthetic (narcotic), anesthesia-respiratory, tracking equipment. The doctor of the department know a modern methods of anesthesia.



The method of inhalation anesthesia with sevoflurane is widely used



# PLANNED OPERATING UNIT (SURGERY BLOCK)



Annually more than 13000 operations are provided at the Department. During 2017 the surgeons **madel(?)** 5780 operations for patients from different Russian regions, since 1 January 2018 2890 operations to out-patients are performed.



The number and quality of operations pasbeen constantly nowa days constantly increasing 17 operating sisters work her. Material and technical base is being improvednov. Surgery block has modern equipment, tools and supplies.

There are modern equipment induding:

- 4 arthroscopic pillars
- 3 C-arm
- 2 microscopes
- mobile X-ray machine
- oreathing equipment
- orthopedic operating tables
- shadowless lamp
- air conditioning and ventilation system
- system for endoscopic operations



# RADIOGRAPHIC DEPARTMENT



Department has various equipment:

- computed tomographyscanner
- MRI scanner
- 6 stationary x-ray complex (including 3 digital)

There is ultrasound investigation  
400 tests are being provided  
pere day.

