THE CENTER OF
TRAUMATOLOGY, ORTHOPEDICS
AND NEUROSURGERY
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 RSFSR and the Healthcare Department. The chief doctor was Georgij Semenovich Bryzgalov.

There were 2 operating rooms, laboratory and the hospital with 135 beds.

The following year 3 departments with 175 beds were opened. Neurotraumatologic branch was created as one of the first in the whole country. The department specialized in trauma of the central and peripheral nervous system.
In March of 1979 the Center of Traumatology had 11 departments, laboratory and emergency station.

In 1991 it became republican and was 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 Department specializes in the treatment of limbs fractures of any localization, traumas of chorda, hand diseases, benign tumor of the hand.

The Department has 50 beds.

Annually doctors make more than 800 specialized 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.

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HEAD
Markov
Anton Nikolaevich

HEAD NURSE
Kukovyakina
Aleksandra Afanas’evna
Department of multiple and combined trauma provides specialized, including high-tech medical care for:

- pelvic fractures, cotyloid cavity fractures
- rupture of the pubic articulation and sacroiliac joints
- severe multisystem and concomitant injuries
- multiple fractures of extremities of any site
- injuries of the chest and abdominal cavity

The priority operations are

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

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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;
- osteoplastics operations for benign bone defects.

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HEAD
Kovrizhnuh
Aleksandr Vladimirovich

HEAD NURSE
Gulina
Yuliya Yur’evna
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.

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HEAD NURSE
Isupova
Irina Alekseevna
In the department the leading specialists carry out specialized high-tech medical care for patients with large joints trauma and the consequences of injuries:

- damage of cruciate ligaments of the knee joint
- damage to meniscuses
- patellar dislocation (slipping patella)
- deforming arthrosis of the knee joint
- damage or disease of fat body
- presence of loose body in the joint cavity
- intraarticular fractures
- shoulder-slip

The main area of this department is minimally invasive surgery (arthroscopy) of knee, ulnar, brachial, ankle and hip joints. Arthroplasty of the knee. The surgeons of the department perform more than 300 arthroscopic resections of falciform cartilage and plastic of knee joints every month.

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HEAD
Bagaev
Aleksandr Vladimirovich

HEAD NURSE
Makarova
Natalia Vladimirovna
This is a specialized department involved in the treatment of:

- vertebral fractures of all localizations and its consequences
- vertebral deformity
- spinal disc herniation
- traumatic dislocation/sprains of the vertebral 
- spinal osteochondrosis

The surgeons provide such operations as

- Anterior and posterior spinal canal decompression with anterior vertebral corporeosis, using autografts and various implants that replace the body and disc (at all level of the spinal column)
- occipitosposodylodesis with various metal structures
- fixation of the cervical spine in a halo apparatus
- closed percutaneous and open vertebroplasty of vertebral bodies
- microdiscectomy
The department deals with the treatment of patients with injuries of the peripheral nervous system [excluding head and spinal injuries], wrist diseases and 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.

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The main attention is paid to the restoration of the full volume of functions, 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 equipment are located in the rooms.

2. The continuity is observed. Both surgeons and specialists in rehabilitation medicine work here. Physiotherapy specialists help patients to recover faster.

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 and pictures on the walls.

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.

**HEAD**

Milov
Alexey Yur’evich

**HEAD NURSE**

Kryuchkova
Oksana Viktorovna
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 treatment room
- first-aid room
- boarding house temporary stay patients

The main tasks of the department are
- widespread use of modern hospital-substituting medical technologies;
- interaction with the second and third levels trauma centers of the Kirov region;
- 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.

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HEAD NURSE
Razner
Nadezhda Borisovna
The department’s staff specializes in the treatment of 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, congenital and acquired diseases of the musculoskeletal system.

All kinds of surgical treatment including high-tech medical care provides for free. High-tech medical care includes such operation as:
- correction of scoliosis, kyphosis, spondylolisthesis, spinal anomalies
- correction of chest deformities
- reconstructive operation on the hip joint
- elongation, 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
- 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
- fanned-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

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**HEAD**
Yagovkin
Mihail
Aleksandrovich

**HEAD NURSE**
Boyarinceva
Marina
Anatol’evna
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.

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HEAD
Karavaev
Sergey
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HEAD NURSE
Karacheva
Natal'ya
Aleksandrovna
The complexity and duration of medical intervention are increasing. Range of applied anesthesia during surgery is wide: from local anaesthesia (toponarcosis) to general anaesthesia with tracheal intubation. For example,

- infusion anaesthesia (intravenous anaesthesia)
- phlebonarcosis
- total intravenous anesthesia
- inhalation
- general anaesthesia with tracheal intubation
- instrumental anesthesia
- endotracheal anesthesia
- conduction anesthesia
- epidural anesthesia
- nerve block plexus

The Department of Anesthesiology and Reanimation has modern anaesthetic (narcotic), anesthesia - vespiratery, tracking equipment. The doctors of the department use modern methods of anesthesia. The method of inhalation anesthesia with sevoflurane is widely used.

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HEAD
Onoprienko
Andrey Grigorievich

HEAD NURSE
Popova
Irina Nikolaevna
Annually more than 13000 operations are provided at the Department. During 2017 the surgeons made 5780 operations for patients from different Russian regions. 2890 operations to out-patients are performed since 1 January 2018.

The number and quality of operations has been constantly increasing. Material and technical base is being improved now. Surgery block has modern equipment, tools and supplies.

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

HEAD
Makin
Vladimir Petrovich

HEAD OPERATING NURSE
Zvorygina
Difina Magfuryanovna
Department has various equipment:

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

There is ultrasound investigation room. 400 tests are being provided per day.

HEAD
Buzikov
Ruslan Kamil’evich