A Complete Spectrum of Orthopedic Care
"Movement Is In Our Nature"
Nationally recognized for high-quality, modern, comprehensive bone, joint, spine, and muscle care.

At Turan Turan, our mission is to provide the highest quality, comprehensive bone, joint, spine, and muscle care to patients throughout Turkey and worldwide.

That mission guided us towards opening our hospital to be the leader in advancing quality bone, joint, spine, and muscle care and technology while providing superior access, service, and care to our patients and their families.

In 1998, the physicians of Turan Turan opened Turan Turan Orthopedic Hospital, Bursa’s first specialty hospital, with a direct focus on bone, joint, spine, and muscle care. As a physician-owned hospital model, Turan Turan’s top priorities are patient safety, satisfaction, and outcomes. The nationally recognized Turan Turan hospital provides orthopedic care, including complex surgical procedures such as total joint replacements and spinal operations, in a safe and like-home environment.
We offer...

The full spectrum of orthopedic care here at Turan Turan. We are treating the full spectrum of musculoskeletal conditions, from sprains and strains to limb-sparing oncology procedures, from carpal tunnel syndrome to complex joint and spinal reconstructions.

Turan Turan Health Group provides high-quality, personalized care for every orthopedic condition in every age, including hip and knee arthritis, sports injuries, spinal deformities, hand, shoulder, elbow, and foot disorders, musculoskeletal tumors, and trauma.

Innovative approaches to total hip and total knee replacement using various techniques, including personalized, kinematic, and robotic surgeries.

Orthopedic Surgery Subspecialties at Turan Turan;

Specialties

- Joint Replacement
- Cartilage Restoration
- Sports Medicine
- Spine Care
- Orthobiologics
- Orthopedic Oncology
- Pediatric Orthopedics
- Physical Medicine & Rehabilitation
- Physical Therapy
- Imaging
- Lipedema
- Bacteriophage
Joint Replacement

When non-surgical treatments are ineffective, joint replacement surgery may reduce joint pain and restore range of motion.

Turan Turan Hospital total joint replacement surgeons focus on hip and knee replacement surgeries. However, replacements on damaged joints other than the hip and knee, like the shoulder and elbow, are also performed.

**Hip Replacement Surgery**

Arthritis is the most common cause of chronic hip pain, limping, and disability. Most hip pain is caused by one of three kinds of arthritis: osteoarthritis, rheumatoid arthritis, or post-traumatic arthritis. Mainly three types of hip replacement surgery are performed;

- **Total hip replacement** (most common) surgery involves removing the diseased portion of the hip joint. Then, an artificial hip, known as a prosthesis, replaces it.

- **Partial hip replacement**, also called hemiarthroplasty, involves replacing only one side of the hip joint, either the femoral head or the acetabular socket.

- **Hip resurfacing** is mostly done in young, physically active patients.

**Knee Replacement Surgery**

The most common cause of chronic knee pain and disability is arthritis. Most knee pain is caused by one of three kinds of arthritis: osteoarthritis, rheumatoid arthritis, or post-traumatic arthritis. In these patients, knee replacement is one of the most successful orthopedic surgeries, resulting in increased walking ability and improved quality of life.

Knee arthroplasty can be performed either totally, where the entire joint is replaced, or partially, where only the damaged compartment of the joint is replaced. The orthopedic surgeons at Turan Turan Health Group have been performing robotic-assisted individualized kinematic knee replacement surgery with great clinical success.
Robotic-assisted Knee Replacement Surgery

For decades, robotic technologies have been changing medical procedures and health care for the better. Now, advanced robotic technology has come to knee replacement surgery.

Robotic-assisted surgery is an advanced technology designed to help surgeons plan and perform knee replacement surgery with a great level of precision than is possible with traditional methods, with no need for metal rods, CT scans, or pre-surgical MRIs.

Turan Turan Hospital uses Smith+Nephew NAVIO robotic-assisted system, the only company offering handheld robotics-assisted technology for partial and total knee replacements; it believes this enhanced level of precision and accuracy can give you a better long-term outcome.
A unique plan

Your knee replacement surgery is as unique as you are because it's the only one that combines your knee's anatomy with the specific implant your surgeon chooses for you. As a result, your surgery requires an individualized surgical plan to help ensure your implant is positioned and aligned correctly for your anatomy.

With robotic-assisted surgery, your surgeon uses the NAVIO Robotic Surgical System to create a customized 3D digital model of your knee. This three-dimensional view helps your surgeon finalize and verify the correct size implant for you and create a detailed surgical plan for how your replacement will be placed to optimize movement and function. As an added benefit, the 3D digital model eliminates the need to get a CT scan of your knee before surgery, which reduces your exposure to harmful radiation.

A natural fit

When it comes to knee replacement surgery, accuracy is important because if an implant is positioned incorrectly, it may not function as well as it should nor last as long as possible. In addition to its added accuracy, when robotic-assisted surgical procedures are combined with the wide variety of Smith+Nephew implants available, your surgeon can choose the implant that best meets your needs, including options that allow you to keep more of your natural bone and ligaments, including the ACL.

That means your body can maintain more of its natural rhythm and step. You may regain function faster and get discharged from the hospital sooner than conventional technique surgeries.
A wide selection

Knee replacement shouldn’t be one-size-fits-all. With the NAVIO robotics-assisted surgical system, your surgeon can choose your implant from the broadest selection available.

Moving beyond the variety of options available, only Smith+Nephew knee implants can be made with a highly durable material called **OXINIUM** Oxidized Zirconium.

This unique, innovative material has been lab-tested to last significantly longer than conventional knee implant materials.
Cartilage Restoration

Millions of people around the world suffer from some type of cartilage problem. The cause may be an apparent injury or develop gradually without trauma.

Whatever the reason, areas of damaged cartilage can lead to pain and swelling, making it difficult to maintain the active lifestyle you deserve. Fortunately, there are several new treatment options for damaged cartilage.

Turan Turan Hospital offers a range of treatment options to repair damaged cartilage. The most common procedures for cartilage restoration are:

- Arthroscopic Cartilage Repair
- Matrix Induced Autologous Chondrocyte Implantation (MACI)
- Osteochondral Autograft Transplantation
- Osteochondral Allograft Transplantation (Cartilage transplant surgery)
**Arthroscopic Cartilage Repair**

More suitable for smaller cartilage lesions. The joint is visualized with a scope through tiny incisions around the joint. The cartilage problem is localized, and displaced cartilage fragments are removed. After achieving stable cartilage edges, different cartilage restoration techniques may be utilized, like micro-drilling.

**Matrix Induced Autologous Chondrocyte Implantation (MACI)**

Ideal for large cartilage defects and revision cases. This is a two-stage procedure. In the first stage, a cartilage biopsy is taken from the patient's joint, and this tissue is sent to a specialized laboratory. Chondrocytes are duplicated in the lab on a special tissue patch.

The patch with cartilage cells is sent to our clinic six weeks after the biopsy when the second stage procedure is scheduled. The joint is opened in the second stage procedure, and the cartilage defect is filled with the same size bio-patch. Chondrocytes in the patch produce cartilage tissue and fill the cartilage defect over time.
Osteochondral Autograft Transplantation

Appropriate for medium-sized defects especially accompanying subchondral bone problems like subchondral cysts. This is a single-stage procedure.

A dowel-like osteochondral tissue is taken from a non-weight-bearing and non-articulating area of the patient’s knee. This cartilage tissue with the bone under it is brought to the cartilage defect.

The defect is drilled with the exact size of the dowel-like osteochondral graft. The graft is placed into the defect.

Osteochondral Allograft Transplantation (Cartilage transplant surgery)

This procedure can solve most extensive cartilage problems in a single stage. During the arthroplasty procedure of a live donor, a large and healthy cartilage allograft tissue is taken from the unaffected part of the joint.

Also, these tissues can be ordered from tissue banks that have been achieved from fresh cadavers. The joint of the recipient patient is opened, and the cartilage.
Sports Medicine

Whether you’re a little league all-star, high school athlete, weekend warrior, exercise addict, or simply trying to get or stay in shape, you can get back in the competition with the right care.

Turan Turan provides specialized care for injuries during exercise or athletic activity. Our team is ready to get you back in action from diagnosis through recovery.

Common sports injuries treated at Turan Turan:

- Knee ACL Injury
- Meniscal Tears
- Combined Knee Ligament Injuries
- Cartilage Lesions
- Tendon Tears
- Ligament Injuries
- Hip Impingement
- Hip Labral Tears
- Shoulder Rotator Cuff Tears
- Shoulder Instability
- Compartment Syndrome
- Muscle Strains
- Dislocations
Sports Medicine Surgery

Surgeries for sports injuries are almost always arthroscopic, which usually means a smaller incision, less painful healing, and an easier recovery time or return to sports and activities.

Turan Turan sports medicine specialists use the most advanced techniques to give patients the best chance to return to their pre-injury performance level.

Patient-specific after-surgery rehabilitation programs also help patients during their healing process.
Most sports injury surgeries are primarily outpatient, and you will go home the same day. Your surgeon and physical therapist determine post-operative care unique to your injury.

You may have some short-term restrictions with weight bearing or motion during the first few weeks after surgery.

Your sports medicine specialist will evaluate you and take X-rays around six weeks after your surgery.

During this visit, your doctor will inform you about any potential restrictions and when you can return to your sport.

No matter your age, you should never have to give up living an active lifestyle.
Spine Care
Orthopedic Spine Care

Back pain isn’t normal - but you don’t have to suffer. When back pain keeps you from doing your job, getting a good night’s sleep, going on that dream vacation, or playing with your grandkids, it’s time to see a back doctor. The first step is to identify what is wrong!

Our spine team uses non-operative therapies and advanced surgical techniques to treat all spine problems. At Turan Turan Hospital, we treat a wide variety of spine-related injuries and conditions, including:

- Neck Pain
- Lower Back Pain
- Cervical Radiculopathy
- Degenerative Disc Disease
- Pediatric Spine Problems
- Scoliosis, Kyphosis
- Herniated Discs
- Sciatica
- Back Injuries
- Spinal Deformity
- Spine Fractures
- Spinal Stenosis
- Spondylolysis
- Spondylolisthesis
- Vertebral Tumors
Every patient is unique. After our spine team’s experts accurately diagnose what’s causing your back pain, we’ll create an individualized treatment plan to help you heal and feel stronger.

Most of the time, getting rid of debilitating back pain doesn’t require surgery to help you start to feel better. Your needs are always at the center of our approach at Turan Turan.

Your doctor will work with you, considering your goals and lifestyle needs. Then, we’ll develop a back pain treatment plan designed to help you get a normal back—whatever your normal looks like—using proven, non-surgical treatment.
Treatment options including:

- Physical Therapy
- Exercise Program
- Medications
- Spinal Injections
- Orthoses, Braces
- Surgery
Minimally Invasive Spine Surgery

Spine surgery has advanced in the last ten years thanks to new minimally invasive techniques. Surgeons that perform minimally invasive spine surgery use special tools to access the spine and hold tissues out of the way without damaging them. As these technologies have advanced, minimally invasive spine surgery has become more common.

By using the latest imaging and navigation tools, spine surgeons can treat complex spinal conditions with millimeter precision and greater ease. In addition, unlike traditional surgery methods, the assistance of interoperative navigation requires a much smaller incision and reduces pain in recovery—which all lead to improved outcomes and quality of life after surgery.

Endoscopic discectomy is a minimally invasive surgical procedure used to remove herniated disc material that is causing pain in the lower back and legs (lumbar), mid back (thoracic), or neck and arms (cervical). Endoscopic discectomy is the least invasive and most effective surgical technique for treating spinal disc herniation patients. With endoscopic spine surgery, surgeons do not need to remove bones and muscles to remove herniated discs. Surgeons can see the spine with a camera smaller than a smartphone camera through a minor surgical port (tube). Large incisions are avoided. The procedure does not traumatize your spine as traditional spine surgeries do. The whole process of disc herniation takes about 30 minutes. The patient goes home in 2-3 hours when the surgery is done in a surgery center.

Another groundbreaking technology is Mazor X. Turan Turan is the first hospital in Turkey to introduce the Mazor X Guidance System into its spine program. Highly-skilled surgeons—like the team at Turan Turan — have now replaced the majority of their traditional spine surgeries with minimally invasive procedures, as the outcomes for patients are so much better.

Minimally invasive spine surgery generally results in less post-operative pain and shorter recovery than traditional spine surgery. When compared to traditional surgical methods, the benefits of minimally invasive spine surgery include the following:

- Faster surgery
- Less muscle and tissue damage
- Less pain after the operation
- Shorter hospital stay
  (most patients go home within 24 hours)
- Less blood loss
- Decreased risk of infection
- Less need for narcotic pain medication
- Faster recovery/return to normal
Turan Turan Spine Robotics Program

Spine surgery can be a scary prospect for many patients. Worries about the accuracy, patient outcomes, and recovery time are common. You can rest easily when it comes to spine surgery performed with the Mazor X Guidance System.

Turan Turan is the first in Turkey to add the Mazor X™ Robotic Guidance System to its spine program. We choose the Mazor X System to provide our surgeons with a pre-operative assessment of a patient and intra-operative trajectory precision when treating that patient.

As spinal surgery has evolved, more focus has been placed on minimally invasive techniques, which is where the Mazor X System can deliver its greatest technological benefits.
Surgical spine treatment requires careful planning and precision, accounting for a patient’s unique anatomy. With Mazor X’s 3D planning, your surgeon creates a highly customized surgical plan prior to entering the operating room.

During the procedure, your surgeon uses mechanical guidance to implement the procedure with unparalleled precision—providing consistent results and optimal outcomes for patients.

Your surgeon will select the best treatment for your specific condition. Based on your CT scan, your surgeon will use the system’s advanced 3D planning software to plan the optimal surgery customized for your anatomy and diagnosis.

Once in the operating room, Mazor X guides your surgeon precisely to the preplanned anatomical location where intervention is necessary. Mazor Robotics system is not independent and does not cut or perform any action on your body. Only your surgeon performs the required procedures, such as placing implants.

Your surgeon is always in full control of the system. Also, at any stage, your surgeon can decide to continue without the assistance of the Mazor X.
Who is a candidate for Robotic Spine Surgery?

If you are among the many suffering from a debilitating spinal condition or back pain, you may be a candidate for spine surgery with the Mazor X System. Surgery with Mazor Robotics technology provides increased safety and precision for various spine procedures and, in some cases, allows for minimally invasive surgery.

Turan Turan spine surgeon may use the robot to perform a number of surgeries, including:

- Scoliosis
- Herniated Discs
- Degenerative Disc Disease
- Spinal Stenosis
- Kyphosis
- Spondylolisthesis
- Spine Fractures
Orthobiologics
Orthobiologics

Regenerative injections used in musculoskeletal problems are called orthobiologics. The orthobiologic substances consist of cells, proteins, glycoproteins, and complex carbohydrates naturally found in the body.

Platelet Rich Plasma (PRP) obtained from a patient’s blood, and Stem Cells derived from each patient’s own bone marrow or fat tissue are the most widely used orthobiologics.

Physicians at Turan Turan commonly use orthobiologics for a quicker recovery and sometimes to delay major surgery. These injuries and conditions may include arthritic joints, broken bones, or injured muscles, tendons, or ligaments. When orthobiologics are used, they may enhance the healing process by decreasing inflammation, pain, and stiffness and improving the patient’s ability to function.

The Orthobiologics Program at Turan Turan Hospital aims to provide advanced treatment options with a sound scientific foundation.
PRP (Platelet-rich plasma) injections

Blood is composed of a fluid component called plasma that can be separated from the small, solid components (red cells, white cells, and platelets). PRP means the prepared plasma has more platelets per volume than the patient’s own whole blood. As a result, the concentration of platelets can be two to ten times greater (or richer) than the patient’s blood.

When platelets release these substances at the site of damaged or diseased tissues, they accelerate healing by:

- Triggering the growth of new tissues
- Preventing the degeneration of healthy tissues
- Reducing inflammation
- Attracting mesenchymal stem cells to regenerate new tissue

PRP injections use your own plasma, platelets, and modulating factors (which are inside the platelets) to promote a healthier joint environment. There are different kinds of PRP injections, some with low white blood cell count and some with high white blood cell count. Each is used for different applications.

These injections have been shown to create a lessinflammatory environment in the injured body part, which can result in less pain and improved function.
Stem Cell Injections

Stem cell therapy harnesses your body’s natural healing ability by using stem cells to treat musculoskeletal injuries and conditions like arthritis, soft tissue, and bone injuries. In all the stem cell-based treatments, we use cells from your own body, typically derived from bone marrow or fat.

Stem cells are naturally occurring cells in the body that have the potential to turn into other types of cells and body tissues. They also serve an important signaling function, recruiting other stem cells to the target area and triggering nearby cells to begin the repair process.

These adult stem cells have the exceptional ability to help direct the healing of cartilage, tendon, ligament, muscle, nerve, bone, skin, and fat cells — virtually every type of tissue except blood cells.

Contrary to what most people think, including most physicians, stem cells do not work their magic by differentiating into new tissue. Instead, they largely act as high-powered messengers that signal other cells including other dormant stem cells—in and around the damaged tissue to turn on and begin the healing process.

While both PRP injections and stem cell injections are non-surgical treatments used to preserve the joint or restore function potentially, they are not the same treatment. The type of injection used is dependent on the type of injury.

PRP injections may be able to aid in initiating a body’s healing response, although they have no ability to regenerate tissue.

Depending on your injury or condition, your doctor may use a specific injection type. Or if you received a PRP injection and it was not successful, then another cell therapy may be an option.
Orthopedic Oncology
Orthopedic Oncology

The orthopedic subspecialty, referred to as bone tumor or orthopedic oncology, is a highly specialized field. Orthopedic oncologists provide diagnosis and treatment of benign and malignant musculoskeletal tumors.

A musculoskeletal tumor is an abnormal growth that may occur in the bone or soft tissue, such as muscle, tendon, nerve, fat, and blood vessels. Tumors can be either benign (non-cancerous) or malignant (cancerous). They can occur in people of all ages and affect any body part.

Common bone and soft tissue oncology care are offered at Turan Turan Hospital.

- Bone Tumors
- Bone Cysts
- Soft Tissue Sarcomas
- Chondral Tumors
- Fibrous Dysplasia
- Hemangioma
- Lipoma
- Pigmented Villonodular Synovitis
- Paget's Disease of Bone
- Metastatic Bone Disease
- Multiple Myeloma/Plasmacytoma
- Lipedema
Pediatric Orthopedics
Pediatric Orthopedics

Pediatric orthopedists specialize in treating children musculoskeletal disorders. Cases might include fractures, bone diseases, bone, and soft tissue tumors, bone disorders, and other syndromes. Pediatric orthopedists may also treat pediatric spinal deformity, including different types of scoliosis, kyphosis, trauma, and back pain in children.

At Turan Turan, we realize that it is stressful when your child needs medical care; therefore, Turan Turan has several orthopedic surgeons specializing in treating children with various musculoskeletal problems.

Common childhood orthopedic issues treated at Turan Turan:

- Hip Dysplasia
- Perthes Disease
- Fractures
- Sprains and Strains
- Sports Injuries
- Performance Injuries
- Scoliosis
- Spinal Deformity
- Foot Anomalies
- Bowed Legs
- Cerebral Palsy
- Muscular Dystrophy
- Brachial Plexus Palsy
- Limb Length Discrepancy
- Osgood-Schlatter Disease
- Toxic Synovitis
- Rickets
- Bone Cysts
- Growth and Developmental Disorders
Physical Medicine & Rehabilitation
Physical Medicine & Rehabilitation

Physical medicine & rehabilitation and nonoperative pain management focus on restoring a patient’s quality of life and physical abilities through the use of medication, therapy, and minimally invasive procedures.

The physiatrists at Turan Turan specialize in diagnosing and nonsurgical treatment of all types of musculoskeletal disorders, chronic pain, and management of disabilities.
Common conditions treated at Turan Turan:

- Osteoarthritis
- Back and Neck Pain
- Scoliosis, Kyphosis
- Cerebral Palsy Rehabilitation
- Complex Regional Pain Syndrome
- Sports Injury Rehabilitation
- Shoulder Impingement
- Hip Impingement Syndrome
- Overuse Syndromes
- Foot and Ankle Problems
- Patellofemoral Pain
- Tendinitis
- Movement Disorders
- Orthopedic Rehabilitation
- Neurological Rehabilitation
- Stroke Rehabilitation
- Lymphedema
- Disabilities in Childhood
- Balance Disorders
- Rheumatologic Rehabilitation

Specialties

- Joint Replacement
- Cartilage Restoration
- Sports Medicine
- Spine Care
- Orthobiologics
- Orthopedic Oncology
- Pediatric Orthopedics
- Physical Medicine & Rehabilitation
- Physical Therapy
- Imaging
- Lipedema
- Bacteriophage
Other Nonsurgical Minimal Invasive Procedures

- Spinal injections
- Spinal cord stimulator
- Ultrasound-guided joint and tendon Injections
- Ultrasound-guided PRP, stem cell Injections
- Trigger point injections
- Dry needling
- Prolotherapy
- Neurofascial Prolotherapy
Physical Therapy & Rehabilitation Programs
Physical Therapy & Rehabilitation Programs

Physical therapy is designed to restore function and independence. Our care is patient-focused and individualized to meet the needs and goals of each patient, enabling individuals to return to more active lifestyles quicker and, in most cases, without pain. The department provides outpatient physical therapy at two different locations, as well as inpatient therapy services.

Turan Turan Physical Therapy team is specialized in rehabilitation of postoperative orthopedic patients such as total joint replacement, foot/ankle surgery, spine surgery and repair of traumatic injuries. Neurological rehabilitation of stroke, cerebral palsy, Parkinson’s disease, spinal cord injury, polyneuropathy etc. is another area of our expertise.

The goal of our inpatient rehabilitation team is to allow each patient to leave the hospital functioning at their highest level possible, as well as initiate the rehab process per each physician's protocols. With their assistance, most of our patients are able to return home with a level of independence they did not know was achievable.
Imaging
Imaging

The right treatment plan begins with the correct diagnosis. After detailed clinical evaluation, our orthopedic experts rely on imaging tools to give the most accurate diagnosis of orthopedic injuries and conditions. Turan Turan health offers X-ray, Magnetic Resonance Imaging (MRI), Computerized Tomography (CT scan), and ultrasound scans, as well as an O-arm system.

The O-arm system provides the StealthStation™ real-time 3D intraoperative images. So, our surgeons navigate patients’ anatomy with instant visual feedback of instrument localization.

The O-arm™ Imaging

The O-arm™ Imaging is a complete multidimensional intraoperative surgical imaging system that produces high-quality 3D images and multiplane 2D views. The StealthStation™ Navigation is an advanced navigation system that integrates up-to-date intra-procedural images and displays them on a screen to facilitate instrument navigation. The O-arm™ is designed to meet the workflow demands of the surgical environment. It can be used in various procedures, including spine, cranial, and orthopedics.

The combination of O-arm™ Imaging & StealthStation™ Navigation provides an easy-to-use and complete solution for instrumented spine surgery. It also offers a streamlined workflow to increase screw placement accuracy and safety.
Lipedema
Lipedema

Lipedema is a chronic medical condition characterized by a symmetric buildup of adipose tissue (fat) in the legs and arms. A common but under-recognized disorder, Lipedema may cause pain, swelling, and easy bruising. In addition, it may be accompanied by an unusual texture within the fat that can feel like rice, peas, or walnuts beneath the skin's surface.

Lipedema usually appears symmetrical in shape and size and affects the legs and, sometimes, the arms. The body above the hips, and the hands and feet, remain unaffected. This often results in shapedisproportion – a narrow waist and larger hips and thighs.

The intensity of pain may range from none to severe, and its frequency may be constant, come and go, or only occur when the fat is pushed on. Diagnosis of Lipedema can be challenging because it is often misunderstood or mistaken for obesity or lymphoedema.

Sometimes, those conditions even appear together. That is why patients need to consult with experts and surgeons well-versed in lipedema. If Lipedema is left untreated, it could progressively diminish mobility, self-esteem, and quality of life.

Also, increase the chances of developing blood clots and lipo-lymphedema, which can lead to skin ulcers, infections, and a severely blocked lymphatic. Although the patient can manage lipedema, the treatments (no matter how aggressive) will not cure it.
Treatments

Depending on the severity of the lipedema condition and how it impacts day-to-day life plays a significant role in what options are available to you for treatment.

In the earlier stages, diet and exercise modifications can be implemented to see how your body responds first.

Lymphatic massage can also ease the pressure of fluid-filled areas.
However, the most effective, primary treatment for lipedema is medically necessary liposuction. Liposuction for lipedema is more than having fat taken out of your body.

The purpose of this procedure is to decrease the congestion and inflammatory processes in the extremities so the patient can feel better, have less pain, and less fatigued.

Lipedema patients may need more than one liposuction treatment for the various body parts that have lipedema fat to be removed.

However, recommend liposuction in the areas with the highest level of severity first to take some of the pressure off the patient's body and enhance the effectiveness of your lymphatic and vascular system.

Turan Turan expert surgeons will do their best to design patients' treatment to limit the number of surgeries will need to feel better.
Bacteriophage Therapy
Bacteriophage Therapy

In orthopedics, many patients undergoing surgery suffer from complications resulting from implant-associated infections. In these circumstances, secondary surgery is usually required, and chronic and/or relapsing disease may ensue.

On the other hand, Antibiotic resistance is a significant problem associated with orthopedic implant infections. Infect, Antibiotic resistance represents a threat to human health.

Recent evidence shows that bacteriophage (phages; viruses that infect bacteria) therapy may represent a viable and successful solution. Bacteriophages, or phages’, are naturally occurring viruses infecting and feeding on bacteria. They do not harm any organisms other than bacteria.

Bacteriophages (phages) are viruses that infect bacteria. Phage replication within an infected bacterium will kill the host by lysis, which releases the newly formed phage particles. As such, phages are potentially potent antibacterial agents, especially against multidrug-resistant infections.

Bacteriophage therapy has a wide range of applications in the field of orthopedics:
- Treatment of implant-related infections
- Treatment of diabetic foot wounds
- Treatment of osteomyelitis (bone inflammation).

Our patients at Turan Turan can rest assured that our specialist surgeons are prepared to fight and treat infections, even though they have a safe operation, and the probability of infection is very low.

In many of our clinical practices, bacteriophage therapy has been successful against progressive infections that do not heal despite prolonged severe antibiotic therapy.
Get a second opinion from Turan Turan experts without leaving home!
TURAN & TURAN

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