

Why Choose Germanten?

Germanten Hospitals is a 250-bedded, NABH-accredited super-specialty hospital in Hyderabad, offering excellence in Orthopedics, Cardiology, and multi-specialty care. With a team of highly experienced specialists, state-of-the-art German precision technology, and next-gen infrastructure, Germanten has been transforming lives with exceptional patient outcomes. Ranked Top 3 in Hyderabad and Top 10 in South India for Orthopedics by The Times of India Health Survey, Germanten is a trusted choice for advanced surgical and non-surgical treatments. Patients from across India and overseas choose Germanten for expertise in complex joint replacements, sports medicine, trauma care, spine surgery, and minimally invasive procedures. Our commitment to innovation, accessibility, and compassionate care ensures every patient receives world-class treatment — right here in Hyderabad.



Germanten Interventional Radiology



At Germanten Hospitals, our Interventional Radiology department offers advanced, minimally invasive "pinhole" procedures to diagnose and treat diseases across nearly every organ — from head to toe. Using German precision technology and targeted techniques, our specialists deliver highly accurate diagnoses and effective treatments while ensuring faster recovery and minimal discomfort. These non-surgical procedures involve fewer risks and complications compared to open surgery, making them safer for patients who may not be fit for general anesthesia. With no stitches, no visible scars, and shorter hospital stays, most patients are discharged within 1–2 days. From conditions that once required major surgery to complex cases, Germanten's Interventional Radiologists are transforming outcomes — without the need for open procedures.

Germanten Interventional Suite



At Germanten Hospitals, our state-of-the-art Interventional Suite is equipped with cutting-edge technology, integrating advanced imaging, precision software, and real-time guidance — all on a single platform. This enables us to perform minimally invasive "pinhole" procedures with unmatched accuracy, safety, and speed. With German precision equipment, reduced use of contrast dye, and minimal radiation exposure, we ensure the highest level of patient safety while delivering superior clinical outcomes.

Overcome Osteoarthritic Knee Pain and Regain an Active Life!

You don't have to live with osteoarthritic knee pain. Germanten's experts help you get pain relief through Genicular Artery Embolization, without open surgery, general anaesthesia, and scarring.

GET FREEDOM FROM KNEE PAIN AND BOUNCE BACK TO AN ACTIVE LIFESTYLE.



24 Emergency and Trauma

25 YEARS
of experience



20,000+
Successful Surgeries

1 Million+
happy patients



40+ AWARDS
National & International

DR. MIR JAWAD ZAR KHAN

Chairman and Managing Director,
MBBS, MS (Ortho), M.Ch (Ortho)
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Trapped in Knee Pain?

Get an Answer with Non-Surgical Procedures for Knee pain at Germanten Hospitals.



Germanten's Genicular Artery Embolization



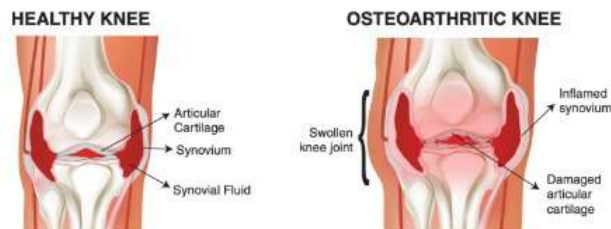
NO GENERAL ANESTHESIA
NO OPEN SURGERY | NO SCARS

www.germantenhospitals.com

Knee pain is a common problem among many people which severely affects their physical activities and disrupts daily life. Simple tasks such as standing, getting up from the chair, and climbing the stairs become a challenge. Due to knee pain, many individuals are unable to go out as they wish and are tied up in their own homes, missing out on the joys of life. This can also impact their mental and emotional well-being. One of the common causes of knee pain is knee osteoarthritis.

What is Knee Osteoarthritis?

After 40 years of age, the gradual wear and tear of the knee joints results in the progressive loss of articular cartilage (tissue that provides cushioning between the bones in the knee joint), known as knee osteoarthritis. The friction due to rubbing of the knee bones causes pain, swelling, and stiffness. It affects the person's daily activities and greatly impacts their quality of life.



Non-Surgical Methods for Knee Osteoarthritis

✓ Lubricants (Viscosupplementation)

Lubricant (hyaluronic acid) injections can offer prolonged pain relief and may help in cartilage protection and regeneration, particularly in Grade 1 to Grade 3 osteoarthritis. In Grade 4, where the joint is severely damaged, their effectiveness is significantly reduced.

✓ Stem Cells & PRP (Platelet-Rich Plasma) Therapy

These are regenerative therapies that can help in pain reduction and functional improvement. While still undergoing extensive clinical studies, they have shown promise in early to moderate osteoarthritis with minimal to no side effects.

✓ Steroid Injections

Although commonly used, steroid injections should be avoided due to their adverse effects, including:

- Cartilage damage with repeated use
- Increased risk of infection
- Temporary relief with potential for worsening joint health over time

✓ Medications

Routine pain medications may offer short-term relief but do not provide long-term benefits in osteoarthritis. □

Say NO to painkillers - Prolonged use can result in serious kidney and liver damage.

✓ COOLIEF Cooled RF

A minimally invasive, out patient procedure that can treat chronic pain. This procedure uses cooled radiofrequency energy to targets the sensory nerves causing pain. COOLIEF circulates water through the device while heating nervous tissue to create a treatment area that is longer than conventional RF treatments. This combination targets the pain-causing nerves without excessive heating, leading to pain relief.

✓ Physiotherapy

A personalized physiotherapy regimen helps improve muscle strength, joint mobility, and posture, especially effective when started early.

✓ Laser Therapy

Low-level laser therapy can be a non-invasive adjunct that reduces inflammation and promotes healing in selected patients.

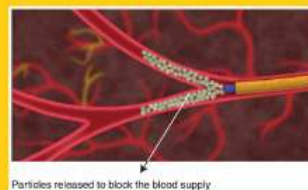


LUBRICANTS KNEE INJECTIONS MEDICATION STEM CELLS

GERMANTEN OFFERS A REVOLUTIONARY SOLUTION FOR KNEE PAIN THROUGH GENICULAR ARTERY EMBOLIZATION

What is Embolization?

Embolization is a procedure performed by interventional radiologists. They use a pinhole technique to release tiny particles into the targeted blood vessels and block the blood supply to a specific region, thereby reducing inflammation and relieving pain. It is a safe and effective procedure used to treat several diseases in every part of the body including the brain, uterus, liver, and lungs.

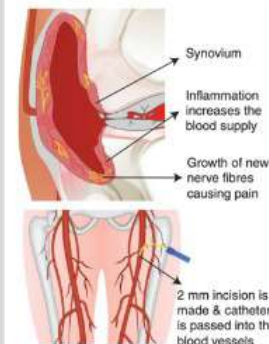


What is Genicular Artery Embolization?

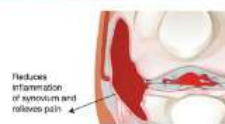
Germanten's experts offer a revolutionary solution for knee pain through Genicular Artery Embolization. It is a minimally invasive, non-surgical pinhole procedure that does not require general anaesthesia and leaves no scars. It provides pain relief to patients with knee pain. The patient is discharged within 2 days of the procedure.

How is Genicular Artery Embolization Performed?

The synovium is a membrane that lines the inside of the knee joint cavity. Due to the rubbing of the knee bones, the synovium gets inflamed. The inflammation increases the blood supply which leads to the growth of new nerve fibres and causes pain. During Genicular Artery Embolization, a local anaesthetic is injected to numb the groin region. Then, a 2 mm pinhole incision is made and a fine tube called a catheter is inserted into an artery in the thigh. Guided by an X-ray, the catheter is passed into the blood vessels around the knee joint. A special X-ray contrast liquid is injected to identify the blood vessels which supply blood to the newly formed nerve fibres. Then, tiny particles are injected through the catheter into the blood vessels. These particles block the blood supply to the inflamed synovium. This reduces inflammation and provides significant pain relief to the patient. After the procedure, the catheter is removed.



What Happens After Undergoing Genicular Artery Embolization?



Patients who undergo Genicular Artery Embolization experience significant pain relief within a few days of the procedure. They can soon walk without pain and have a normal, painless life for at least 2 years.

Who is a Candidate for Genicular Artery Embolization?

Genicular Artery Embolization is recommended for patients who are experiencing severe pain due to knee osteoarthritis but are not considering total knee replacement surgery for the following reasons.

- Too young to have surgery
- Medically unfit for surgery due to other comorbid medical conditions
- Reluctance or fear of undergoing surgery