

If the descriptions below sound like you, you could be a candidate for GAE.

- ✓ Suffer from knee pain caused by osteoarthritis
- ✓ Experience moderate to severe knee pain in one or both of your knees
- ✓ Have knee pain when walking up stairs
- ✓ Knees feel stiff when waking up
- ✓ Routinely take medications for knee pain
- ✓ Not ready or willing to undergo knee replacement

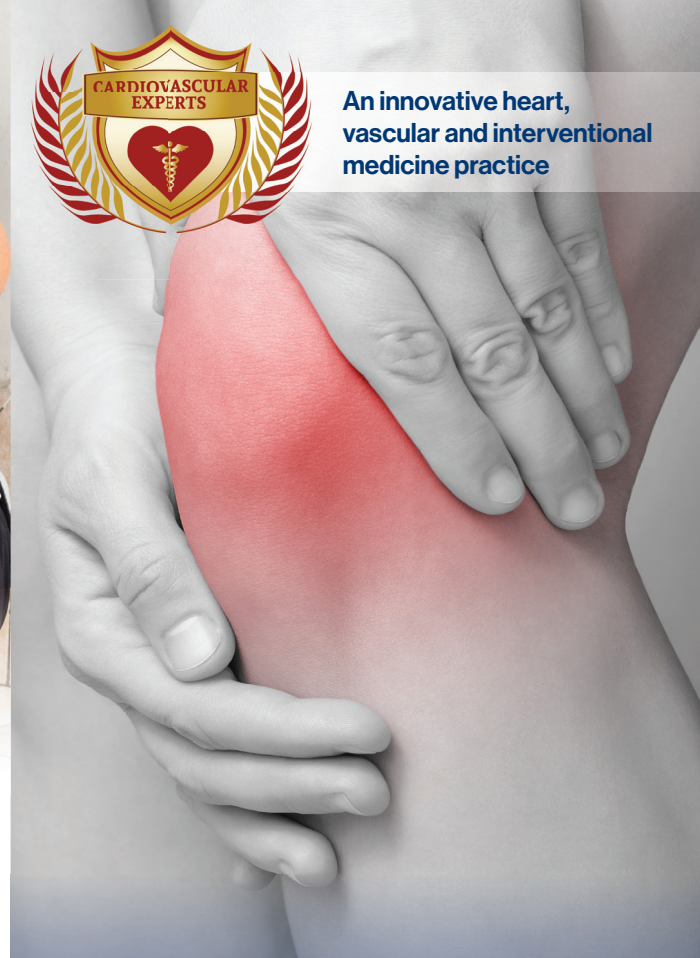
We can help. Call our office at **717-727-0480** to schedule a private consultation with GAE expert and interventional cardiologist, Dr. Raj Dave'.



Dr. Dave's brings 25 years of clinical experience to heart, vascular and interventional medicine. He is known around the world for his expertise, often serving as a guest speaker at educational conferences for physicians in the U.S. and overseas. Dr. Dave' enjoys sharing his knowledge and wisdom with other healthcare providers and patients.



An innovative heart, vascular and interventional medicine practice



To schedule a consultation to understand if GAE can treat your knee pain, call us at **717-727-0480**. Procedures are performed in our state-of-the-art Surgery Center connected to our practice.

Visit **CardiovascularExperts.com/Knee** to learn more.

Relief from knee pain without surgery.

A Patient's Guide to Understanding Genicular Artery Embolization (GAE), a non-surgical approach to treat mild to moderate osteoarthritis knee pain.



Cardiovascular Experts of Pennsylvania

An innovative heart, vascular and interventional medicine practice

3040 Market St., Camp Hill, PA 17011

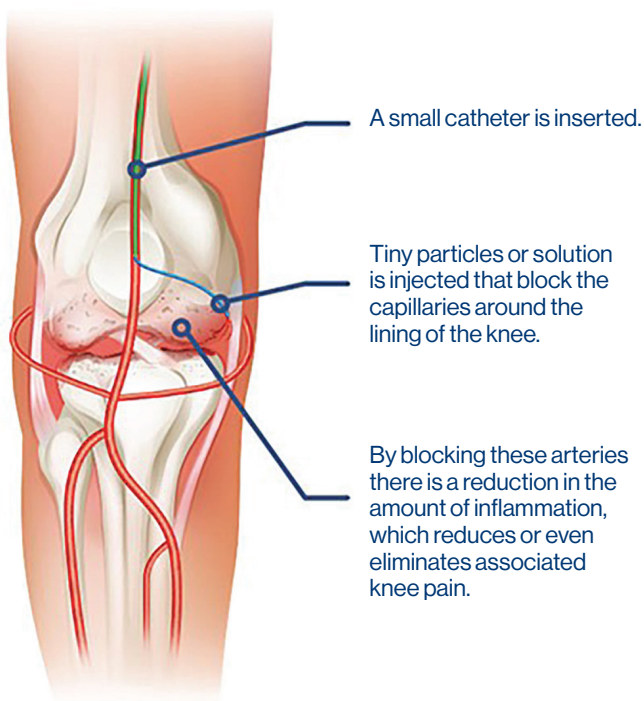
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What is Genicular Artery Embolization (GAE)?

It is an outpatient, minimally invasive, non-surgical procedure for the treatment of pain for mild to moderate osteoarthritis (OA). The GAE procedure safely reduces excess arterial blood flow to the inflamed synovial lining of the knee from OA.

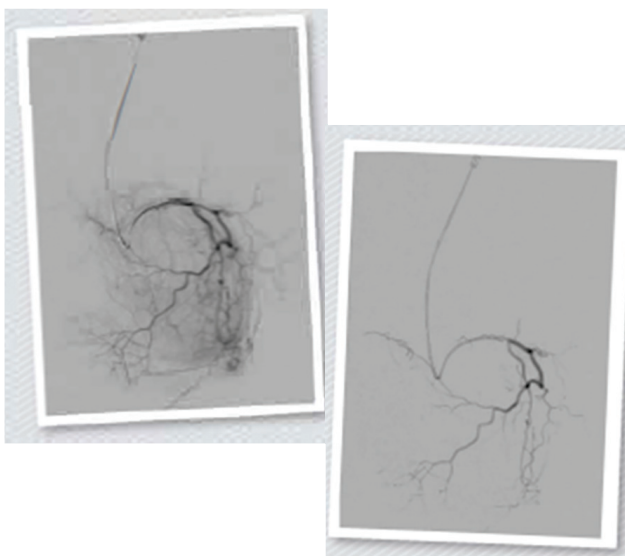
Reducing the synovial inflammation can provide fast and longer-term pain relief for OA patients. This pain improvement limits the need for oral pain medication, joint injections and can allow you to return to a more active lifestyle.



How is the GAE procedure performed?

GAE is performed by a specially trained doctor called an interventionalist who uses imaging guidance to see structures inside the body and treat conditions without surgery.

During the GAE procedure, you are given sedation medication but remain awake. A small catheter is used to access an artery at the top of your thigh or at ankle. Then, using x-ray imaging, the catheter is directed to the genicular artery and specific branches are selected that lead to the inflamed vessels supplying the lining of the knee (the synovium). Tiny particles or solution is injected into the inflamed vessels. This material will reduce blood flow and decrease inflammation, providing significant pain relief in most patients. Patients go home the same day. Relief is felt almost immediately.



Does the GAE procedure carry any risks?

Because the GAE is performed minimally invasively, risks are much less than traditional surgery. Some patients report temporary feelings of:

- Dull knee pain
- Numbness
- Bruising, hematoma
- Discoloration around the knee after the procedure
- Skin ulcerations around the knee

Outside of GAE, what other osteoarthritis treatment options are there?

- Knee replacement surgery
- Steroid and hyaluronic acid injections
- Physical therapy and exercise
- OTC medications
- Lifestyle management

Will my health insurance cover GAE?

Most insurance companies cover the GAE procedure for treatment of osteoarthritis pain. Discuss your coverage with your doctor or insurance provider before the procedure. Our team is here to help navigate the insurance process to avoid any surprise bills.

