

Vertebrogenic pain

When the vertebral endplates may contribute to low back pain.

Where does the pain begin?

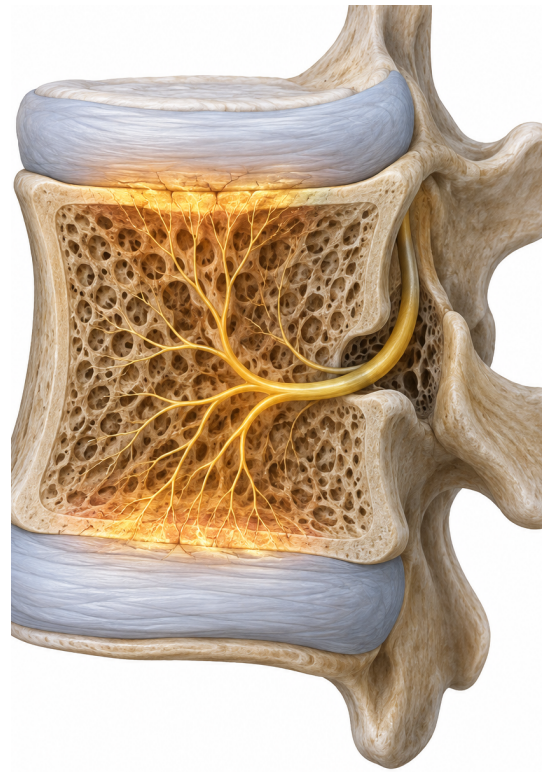
The endplates sit between each disc and the adjacent vertebral bones. Endplate damage and inflammation can activate the basivertebral nerve inside the vertebra.

What can it feel like?

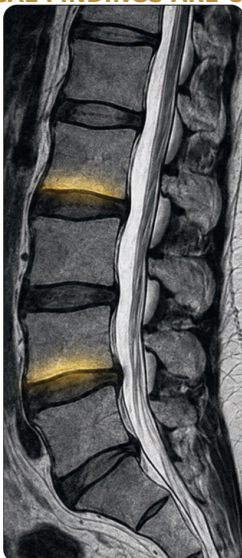
Pain is often deep and central in the low back. Sitting, bending, or lifting may aggravate it. These symptoms overlap with other causes, so the pattern alone cannot establish the diagnosis.

The MRI clue

Modic type 1 or type 2 changes near the endplates may support the diagnosis. They must fit the clinical picture, and another pain source may be more important.



MRI AND CLINICAL FINDINGS ARE CONSIDERED TOGETHER



A careful diagnosis

Your physician reviews the pain pattern, examination, MRI, prior treatment, and any competing causes. A Modic change by itself does not prove that the basivertebral nerve is the main pain source.

The target is selected only when symptoms and imaging fit.

What is BVNA?

Basivertebral nerve ablation is an image-guided procedure.

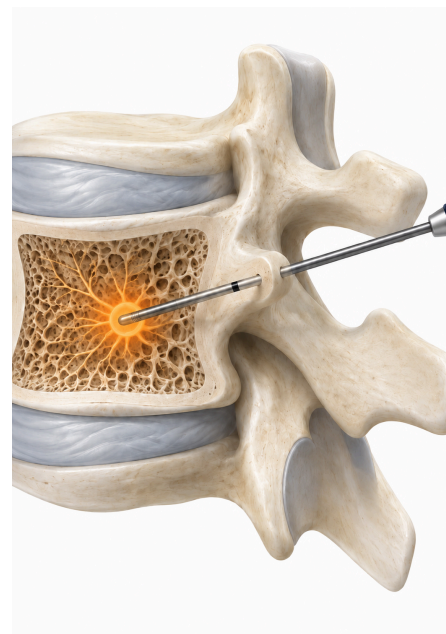
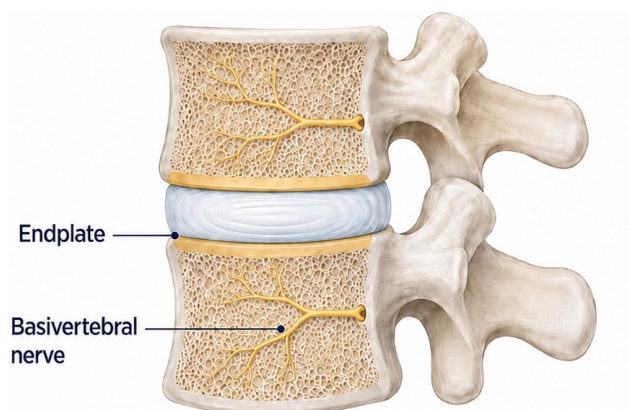
How does it work?

Through a small incision, the physician guides instruments into the vertebral body and positions a probe near the basivertebral nerve. Radiofrequency energy treats the nerve to interrupt pain signaling. No permanent implant remains.

Who may be considered?

Typical candidates have low back pain lasting at least six months despite appropriate nonsurgical care, a matching clinical pattern, and Modic type 1 or 2 changes from L3 through S1. An individual evaluation determines whether another source of pain needs attention.

TARGETED TREATMENT INSIDE THE VERTEBRAL BODY



01 ENDPLATES AND NERVE

02 IMAGE-GUIDED ABLATION

What to expect

Temporary soreness can occur. Improvement may take time, and results vary. Possible risks include bleeding, infection, nerve injury, increased pain, or failure to improve. Discuss your recovery plan and alternatives with your physician.



Reza S. Roghani, MD, PhD
 Assistant Professor
 Interventional Spine and Pain
 Department of Physical Medicine and Rehabilitation
 School of Medicine
 443-997-5476 appointment
 410-614-4033 Fax
 410-502-2199 Procedure

Appointments: 443-997-5476

General education only. An individual evaluation is needed to decide whether BVNA is appropriate.