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# **Facet Joint Pathology**

Facet joints (zygapophyseal joints) are paired synovial joints located between the articular processes of adjacent vertebrae. They are critical for spinal stability and motion but are also a common source of axial pain.

## Types of Facet Joint Pathology

### Facet Joint Arthropathy (Degenerative)

- Most common type
- Features: cartilage loss, osteophyte formation, joint space narrowing, subchondral sclerosis

### Facet Joint Syndrome

- Clinical diagnosis of pain originating from facet joints
- Confirmed by medial branch blocks or intra-articular injections

### • Facet Joint Effusion

- Fluid in the joint seen on MRI
- Often associated with acute pain

### Facet Cyst

- Synovial cysts from degenerated joints
- May cause radiculopathy or spinal stenosis

#### Facet Joint Hypertrophy

Bone overgrowth contributing to foraminal or central stenosis

## • Facet Fracture or Dislocation

- Usually post-traumatic
- Can result in instability or neurologic compromise

## **Diagnostic Tools**

Modality	Role
MRI	Detects joint effusion, inflammation, adjacent edema
СТ	Superior for bony changes: sclerosis, osteophytes
SPECT/CT	Detects increased metabolic activity; identifies active pain generators
<b>Medial Branch Block</b>	Diagnostic and therapeutic; confirms facetogenic pain

## **Imaging Clues (MRI)**

- T2 hyperintensity within joint (effusion)
- · Joint irregularity, narrowing
- Edema in adjacent bone

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## **Treatment Options**

#### Conservative

- NSAIDs
- Physical therapy
- Postural training

#### Interventional

- Intra-articular steroid injections
- Medial branch nerve blocks
- Radiofrequency ablation (RFA) of medial branches

## Surgical

- Indicated in instability or refractory pain
- Options: joint resection, spinal fusion

## **Clinical Notes**

- Pain is typically axial, worsened by extension/rotation
- Often no clear correlation with MRI alone
- SPECT/CT may reveal metabolically active joints not seen on MRI

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