

Percutaneous procedure classification

The classification of percutaneous procedures depends on the context—clinical (e.g., cardiovascular, neuro, musculoskeletal), procedural goal (diagnostic or therapeutic), or coding systems (e.g., ICD-10-PCS, CPT, SNOMED CT).

1. By Clinical Area Here's a general classification by specialty:

Cardiology Percutaneous Coronary Intervention (PCI) – e.g., angioplasty, stent placement.

Percutaneous valvuloplasty – e.g., for mitral or aortic stenosis.

Percutaneous closure procedures – e.g., ASD, PFO closure.

Interventional Radiology Percutaneous biopsy – e.g., liver, kidney, bone.

Percutaneous drainage – e.g., abscesses, pleural effusions.

Percutaneous nephrostomy

Percutaneous ablation – e.g., radiofrequency or cryoablation of tumors.

Urology Percutaneous nephrolithotomy (PCNL)

Percutaneous insertion of ureteral stents

Orthopedics Percutaneous pinning of fractures

Percutaneous tendon release or repair

2. By Purpose Diagnostic

Percutaneous needle biopsy

Percutaneous aspiration (e.g., of cysts or fluids)

Therapeutic

Percutaneous catheter drainage

Percutaneous tumor ablation

Percutaneous implantation (e.g., pacemaker leads, spinal cord stimulator electrodes)

3. By Coding (ICD-10-PCS Example) In ICD-10-PCS, percutaneous procedures are defined by:

Approach: “3” = Percutaneous (via skin or mucous membrane, using instrumentation)

For example:

02703ZZ: Dilation of Coronary Artery, One Artery, Percutaneous Approach

0JH60XZ: Insertion of infusion device into subcutaneous tissue, percutaneous approach

Neurosurgery/Spine

Percutaneous vertebroplasty/kyphoplasty

Percutaneous rhizotomy or cordotomy

Percutaneous disc decompression

Percutaneous Endoscopic Lumbar Discectomy

[Percutaneous Endoscopic Lumbar Discectomy](#).

Percutaneous rhizotomy

see [Percutaneous rhizotomy](#).

[Lumbar facet joint denervation](#).

[Percutaneous 3-mm twist-drill trephination](#)

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