

*National Imaging Associates, Inc.	
Clinical guidelines:	Original Date: July 2015
DEFORMITY SURGERY	
CPT Codes**: - Deformity Surgery: 22800, 22802, 22804, 22808, 22810, 22812, 22830, 22630, ±22632, 22206, 22207, ±22208, 22210, 22212, 22214, ±22216, 22220, 22222, 22224, ±22226, 22558, 22633, ±22614	Last Revised Date: December May 2023
**See UM Matrix for allowable billed groupings and additional covered codes	
Guideline Number: NIA_CG_311	Implementation Date: July 2024

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GENERAL INFORMATION

It is an expectation that all patients receive care/services from a licensed clinician. All appropriate supporting documentation, including recent pertinent office visit notes, laboratory data, and results of any special testing must be provided. If applicable: All prior relevant imaging results and the reason that alternative imaging cannot be performed must be included in the documentation submitted.

STATEMENT

All surgery requests to treat adult deformity will be reviewed on a case-by-case basis.

Operative treatment is indicated when the natural history of surgically treated lesions is better than the natural history for non-operatively treated lesions. All operative interventions must be based on a positive correlation with clinical findings, the natural history of the disease, the clinical course, and diagnostic tests or imaging results. All individuals being considered for surgical intervention should receive a comprehensive neuromusculoskeletal examination to identify pain generators that may either respond to non-surgical techniques or may be refractory to surgical intervention.

The most common type of surgery in adults is a posterior spinal fusion with instrumentation.

Occasionally anterior fusion is performed for severe curves.

Purpose

This guideline covers the surgical indications for adult spinal deformity. Whenever possible, spinal deformity in adults is treated non-operatively. All operative interventions must be based on a positive correlation with clinical findings, the natural history of the disease, the clinical course, and diagnostic tests or imaging results.

Scope

Spinal surgeries should be performed only by those with extensive surgical training (neurosurgery, orthopedic surgery). Choice of surgical approach is based on anatomy, pathology, and the surgeon's experience and preference.

Instrumentation, bone formation or grafting materials, including biologics, should be used at the surgeon's discretion; however, use should be limited to FDA approved indications regarding the specific devices or biologics.



INDICATIONS

All surgery requests to treat adult deformity will be reviewed on a case-by-case basis. The most common type of surgery in adults is a posterior spinal fusion with instrumentation. Occasionally anterior fusion is performed for severe curves. The following criteria must be met prior to reconstructive adult deformity surgery:

Thoracic Deformity (Minimal/Secondary/Flexible Lumbar Involvement) In Adults

- Progressive neurological deficit (motor deficit, bowel or bladder dysfunction) or lower extremity weakness (0-3/5 on the strength scale) or paralysis paralysis with corresponding evidence of spinal cord or nerve root compression on an MRI or CT scan images immediate surgical evaluation is indicated⁴; OR
- When ALL the following criteria are met_[1, 2, 3]:
 - Individual has significant pain or symptoms that impairs daily activities for ≥ 6 months
 - Failure of symptom or pain improvement upon completion of at least 12 weeks of focused non-operative* therapy/rehabilitation in the past year^{2,3}
 - Imaging studies confirm spinal curvature and demonstrate at least one of the following⁴:
 - Spinal curvature > 50 degrees (scoliosis); OR
 - Spinal curvature > 75 degrees (kyphosis); OR
 - Severe kyphosis (chin-brow vertical angle greater than 35 degrees)

Lumbar Deformity (With Or Without Secondary Thoracic Involvement) In Adults

- Progressive neurological deficit (motor deficit, bowel or bladder dysfunction) or lower extremity weakness (0 3/5 on the strength scale) or paralysis with corresponding evidence of spinal cord or nerve root compression on an MRI or CT scan images immediate surgical evaluation is indicated^{5,6}; OR
- When ALL the following criteria are met [2, 1, 3]:
 - Lumbar back pain, neurogenic claudication, and/or radicular leg pain without significant motor deficit (0-3/5) that impairs daily activities for at least 6 months



- Failure of symptom or pain improvement upon completion of at least 12 weeks of focused non-operative therapy/rehabilitation* in the past year
- Imaging studies that correspond to clinical findings and show at least one of the following:
 - Sagittal or coronal imbalance of at least 5 cm measured on long plate standing x-rays of the entire spine; OR
 - Documented progression of 10 degrees in one year in the coronal plane on x-ray (scoliosis); OR
 - A fixed scoliosis of at least 40 degrees.

*Non-Operative Care [2, 1, 4, 5, 6]

- Documented failure of at least twelve (12) consecutive weeks in the past year of <u>any 2</u> of the following physician-directed conservative treatments:
 - o Analgesics, steroids, and/or NSAIDs
 - o Structured program of physical therapy aimed at increasing core muscle strength
 - Structured home exercise program prescribed by a physical therapist, chiropractic provider or physician
 - o Epidural steroid injections and or facet injections/selective nerve root block

Relative Contraindications For Spine Surgery

- **Medical contraindications** to surgery (e.g., severe osteoporosis; infection of soft tissue adjacent to the spine, whether or not it has spread to the spine; severe cardiopulmonary disease; anemia; malnutrition and systemic infection) [7].
- Psychosocial risk factors. It is imperative to rule out non-physiologic modifiers of pain presentation or non-operative conditions mimicking radiculopathy or instability (e.g., peripheral neuropathy, piriformis syndrome, myofascial pain, sympathetically mediated pain syndromes, sacroiliac dysfunction, psychological conditions, etc.) prior to consideration of elective surgical intervention [8].
- Active Nicotine Use prior to fusion surgery. The individual must refrain from nicotine use for at least six weeks prior to surgery and during the period of fusion healing [9].
- Morbid Obesity. Contraindication to surgery in cases where there is significant risk and concern for improper post-operative healing, post-operative complications related to morbid obesity, and/or an inability to participate in post-operative rehabilitation [10, 11].



POLICY HISTORY

<u>Date</u>	Summary
December 2023	Reconciled CPT code discrepancies
May 2023	Added References
May 2022	Replaced "patient" with "individual" where appropriate

All operative interventions must be based on a positive correlation with clinical findings, the natural history of the disease, the clinical course, and diagnostic tests or imaging results. April 2023

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Reviewed / Approved by NIA Clinical Guideline Committee

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