

## Lumbar Fusion, Surgical 118

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<u>Effective Date</u>	12/1/2025
<u>Next Review Date</u>	10/2026
<u>Coverage Policy</u>	Surgical 118
<u>Version</u>	7

**Member-specific benefits take precedence over medical policy and benefits may vary across plans. Refer to the individual's benefit plan for details <sup>\*</sup>.**

### Description & Definitions:

**Lumbar Fusion** is a procedure that unites (fuses) two or more vertebral bodies together. The goal is to restrict spinal motion, provide stability and relieve pain. Fusion can be performed with or without supplemental hardware (instrumentation) such as plates, screws and/or cages-for additional stability. Fusion can be performed at the Cervical, Thoracic, Lumbar or Sacral levels. All fusions involve the placement of bone graft either between the vertebrae or around the transverse processes or lamina of the spine.

**Arthrodesis** is a surgical procedure in which two or more bones are fused together with bone grafts or device implants.

Other common names: arthrodesis, spondylosyndesis, bone grafting

### Criteria:

**Lumbar Fusion** (regardless of the technique, which includes non-instrumented fusion) is considered medically necessary for **ALL** of the following:

- Lumbar spinal treatment needed, as indicated by **ALL** of the following:
  - Failure of 6 weeks of nonoperative therapy including **ALL** of the following:
    - NSAIDs, oral steroids, gabapentin/Lyrica, muscle relaxant, opioids
    - Physical therapy
    - Epidural steroid injections/nerve root blocks
  - Symptoms are persistent and disabling
  - Imaging findings of lumbar spinal stenosis that correlate with clinical findings (eg match dermatomal distribution or would be expected to result from specific nerve compression)
  - Spinal stenosis (central, lateral recess or foraminal stenosis) graded by a board-certified radiologist as moderate, moderate to severe or severe (not mild or mild to moderate) with unremitting pain, with stenosis confirmed by imaging studies (e.g., CT or MRI) at the level corresponding to neurological findings.
- Individual meets **1 or more** of the following:

- Spinal cord compression
- Spinal stenosis causing cauda equina syndrome
- Spinal stenosis causing myelopathy
- Spinal stenosis causing severe muscle weakness (graded 4 minus or less on MRC scale)
- Progressive neurological deficit on serial examinations
- Rapidly progressive or very severe symptoms of neurogenic claudication
- Leg or buttock neurogenic claudication
- The individual must be a nonsmoker and in the absence of progressive neurological compromise will refrain from use of tobacco products for at least 6 weeks prior to the planned surgery and 6 weeks after the surgery (If individual is a smoker, cessation must be confirmed by a negative urine nicotine test, prior to surgery approval.
- Individual has diagnoses at each level to be included in the fusion of **1 or more** of the following:
  - **Adjacent segment disease**, as indicated by **ALL** of the following:
    - Radiographic evidence of adjacent segment disease (eg, neural compression) that correlates with symptoms
  - **Deformity** that includes the lumbar spine (eg, scoliosis that is restricted to the lumbar spine or a thoracolumbar deformity that ends in the lumbar spine) that meets **ALL** of the following criteria:
    - Sagittal or coronal imbalance of at least 5 cm is present, as measured on long-plate, standing radiographs of the entire spine **OR** documented progression of deformity by at least 10° as measured on consecutive radiographs over a one year period **OR** a fixed curve greater than 30° in the coronal plane **OR** lateral listhesis of at least 10%<sup>1</sup> **OR** proximal junctional kyphosis defined as a segmental Cobb angle of at least 10° or 10° of progression from the immediate postoperative images
    - Substantial functional limitation including severe back pain, difficulty ambulating and decreased ability to perform activities of daily living
  - **Disc herniations** in the lumbar spine, as an adjunct to disc excision, that meet **1 or more** of the following criteria: (note: assumption is that the patient fulfills criteria for discectomy as per Discectomy Coverage Recommendation)
    - Primary extraforaminal disc herniation is present at L5-S1, in which a far lateral approach is not feasible because of the presence of the iliac wings for which facet resection is necessary to retrieve the disc, which will result in iatrogenic instability
    - Primary foraminal disc herniation for which facet resection is necessary to retrieve the disc, which will result in iatrogenic instability
    - Recurrent disc herniation - a third time recurrent disc herniation or second time recurrent disc herniation associated with lumbar instability, deformity or chronic axial low-back pain
    - Primary disc herniation in the lumbar spine that is at the level of the spinal cord (ie, low lying conus medullaris) in which the surgeon determines that the surgical approach necessary to safely address the disc herniation while avoiding manipulation of the spinal cord will result in iatrogenic instability
  - **Discogenic low back pain secondary to a degenerated disc** that meet **ALL** of the following criteria:
    - Advanced single-level disease noted on an MRI and plain radiographs of the lumbar spine, characterized by moderate to severe degeneration of the disc with Modic changes (defined as peridiscal bone signal above and below disc space in question) as compared to other normal or mildly degenerative levels (characterized by normal plain radiographic appearance and no or mild degeneration on MRI)
    - Presence of symptoms for at least 6 months AND that are not responsive to multimodal nonoperative treatment over that period that should at least include physical therapy/rehabilitation program but may also include (but not limited to) pain management, injections, cognitive behavioral therapy, and active exercise programs
    - Absence of unmanaged psychiatric disorders that can lead to symptom magnification, such as anxiety disorder, that have not been controlled
    - Primary complaint of axial pain, with a possible secondary complaint of lower extremity pain

- **Infection (including tuberculosis)** involving the spine in the form of discitis, osteomyelitis or epidural abscess in **1 or more** of the following cases:
  - Instability is present
  - Debridement and/or decompression is anticipated to result in instability
- **Pseudarthrosis** in the lumbar spine that meet **ALL** of the following criteria:
  - Mechanical low back pain that is approximately at the level of the pseudarthrosis, qualified as pain that can be somewhat positionally abated
  - A period of time following the index surgery during which the patient had symptomatic relief
  - CT or plain films that are highly suggestive of nonunion at a lumbar segment at which a fusion had been previously attempted. These criteria can include **1 or more** of the following:
    - Lack of bridging bone
    - Dynamic motion noted on flexion-extension radiographs
    - Pedicle screw breakage
    - Screw loosening
    - Curve/correction decompensation
- **Stenosis** in the lumbar spine (either central or foraminal), as an adjunct to decompression (either direct or indirect, the latter of which can be affected via a lateral interbody fusion or anterior interbody fusion with disc space distraction and realignment), that meet **1 or more** of the following criteria: (note: assumption is that the patient fulfills criteria for stenosis decompression as per Lumbar Laminectomy Coverage Recommendation)
  - Dynamic instability is present, as documented by flexion-extension radiographs or comparison of a supine and upright image, defined as a difference in translational alignment between vertebrae greater than 3 mm between views, graded by a boardcertified radiologist confirmed by imaging studies (e.g., CT or MRI) at the level corresponding to the request for fusion
  - Spondylolisthesis (defined as at least 3 mm of anterolisthesis of the upper vertebra in relation to the lower vertebra) is present, either isthmic (ie, secondary to a posterior arch fracture), or traumatic, or degenerative type, or significant lateral listhesis, as graded by a board-certified radiologist as confirmed by imaging studies (e.g., CT or MRI) at the level corresponding to the request for fusion
  - Lumbar spondylolisthesis requirements to be met for each level to be fused. Child or adolescent with high-grade (greater than 50% slippage) spondylolisthesis (to prevent progression)
  - Cases in which decompression will likely result in iatrogenic instability as is judged to be likely due to **1 or more** of the following
    - Removal of 50% or more of the facets bilaterally
    - Removal of 75% or more of a single facet
    - Resection of the pars interarticularis or pars fracture
    - Recurrent stenosis, eg, that which developed at a level that has been previously operated
- **Synovial facet cysts** in the lumbar spine, as an adjunct to cyst excision if **1 or more** of the following is present:
  - Removal of 50% or more of the facets bilaterally
  - Removal of 75% or more of a single facet
  - Resection of the pars interarticularis or pars fracture
  - Adjacent level stenosis, eg, stenosis that has developed above or below a previous fusion
  - Recurrent stenosis, eg, that which developed at a level that has been previously operated
- **Tumor** involving the spine or spinal canal in **1 or more** of the following cases:
  - Instability is present
  - Resection and/or decompression is anticipated to result in instability
- **Traumatic injuries**, including fractures, fracture-dislocations, dislocations, or traumatic ligamentous disruption in **1 or more** of the following cases:
  - Instability is present
  - Decompression of the spinal canal is anticipated to result in instability

- Bracing even though an option, not feasible secondary to medical status, additional injuries or comorbidities
- **Instrumentation or non-instrumented fusion for 1 or more** of the following:
  - **Lumbar interbody cages** is indicated for arthrodesis following discectomy for **1 or more** of the following:
    - Posterior lumbar interbody fusion
    - Transforaminal lumbar interbody fusion
    - (Extreme) Lateral lumbar interbody fusion
    - Anterior lumbar interbody fusion
  - **Bone Graft Materials/Substitutes** are medically necessary when used independently or together for the enhancement of bone healing for **1 or more** of the following:
    - Autologous (autograft), Recombinant Human Bone Morphogenetic Protein (rhBMP-2, InFuse, bone morphogenetic, or morphogenetic protein-2, BMP-2), or Demineralized Bone Matrix (DBM) for **1 or more** of the following:
      - Anterior lumbar interbody fusion (ALIF) or lateral lumbar interbody fusion (i.e., XLIF)
      - Posterolateral Lumbar Fusion (PLF), Posterior Lumbar Interbody Fusion (PLIF), and Transforaminal Lumbar Interbody Fusion (TLIF)
    - Demineralized Bone Matrix (DBM)/Demineralized Freeze-Dried Bone Allograft (DFDBA) for filling osteochondral defects (bone void fillers)
    - Polymethylmethacrylate (PMMA) Bone Cement or Calcium Sulfate (e.g., Osteoset Resorbable Mini-Bead) Antibiotic Beads for treatment of chronic osteomyelitis
    - Bone Marrow Aspirate(BMA)/ hybrid or composite grafting postero-lateral lumbar spinal fusion surgery (spondylodesis) with or without spinal instrumentation
  - **Pedicle screws** for spinal fixation for **1 or more** of the following:
    - Fusion adjacent to prior lumbar fusion
    - Fusion after decompression
    - Pseudoarthrosis repair
    - Revision lumbar disc surgery requiring instrumentation due to instability at previous level of surgery
    - Scoliosis and kyphosis requiring spinal instrumentation
    - Segmental defects or loss of posterior elements following tumor resection
    - Spinal trauma of all types including fractures and dislocations
    - Spondylolisthesis -- grades I to IV
    - Thoracic fractures
- Present and will be approved as ambulatory (outpatient) unless additional criteria are met as noted by Level of Care Guidance for Observation (OBS) vs Inpatient (IP) Hospital Stays criteria located in Medical 350.

**Lumbar Fusion** is considered **not medically necessary** and/or there is insufficient scientific evidence to support the following types of lumbar surgeries as they are not shown to improve health outcomes upon technology review for any use other than those indicated in clinical criteria, to include but not limited to:

- Bone Graft Materials/Substitutes Actifuse silicated calcium sulphate
  - Allograft bone graft substitutes used exclusively as stand-alone stabilization devices for fusion (e.g., TruFuse® for isolated facet fusion, NuFix™ for isolated facet fusion, BacFast® HD for isolated facet fusion)
  - BIO MatrX
  - Bioactive Glass used alone or in combination with other grafts including Bone Marrow Aspirate
  - Cell-based substitutes other than a bone marrow aspirate (e.g., mesenchymal stem cell therapy, Osteocel®, ViviGen®, Trinity®) when used to enhance bone healing
  - Ceramic-based products (e.g.,  $\beta$ -TCP)
  - Human amniotic membrane bone graft substitute
  - Human growth factors (e.g. fibroblast growth factor, insulin-like growth factor, etc.)
  - OptiMesh deployable grafting system
  - Platelet-rich plasma, alone or in conjunction with bone grafting materials

- Pro Osteon Bone Graft Substitute & Pro Osteon Porous Hydroxyapatite Bone Graft Substitute
- ProDense (calcium sulfate/calcium phosphate composite)
- rhBMP-7 (i.e., OP-1™)
- Three dimensional printed grafts
- Trinity Evolution Bone Matrix
- Disc herniations as an adjunct to primary excision of a central or posterolateral disc herniation at any level in the absence of instability or spondylolisthesis
- Dynamic (intervertebral) stabilization (e.g., BioFlex, CD Horizon Agile Dynamic Stabilization Device, DSS Dynamic Soft Stabilization System, Dynabolt Dynamic Stabilization System, Dynesys Spinal System, Graf ligamentoplasty/Graf artificial ligament, Isobar
- Interlaminar lumbar instrumented fusion (ILIF)
- Interspinous and interlaminar distraction devices such as 1 or more of the following (not an all inclusive list):
  - Aperius PercLID System (Kyphon/ Medtronic Spine)
  - Coflex Interlaminar Technology Implant (Paradigm Spine)
  - CoRoent Extensure (Nuvasive)
  - DIAM Spinal Stabilization System (Medtronic Sofamor Danek)
  - ExtenSure (Nuvasive)
  - FLEXUS (Globus Medical)
  - Falena Interspinous Decompression Device (Mikai Spine)
  - Helifix Interspinous Spacer System (Alphatec Spine)
  - In-Space (Synthes)
  - NL-Prow Interspinous Spacer (Non-Linear Technologies)
  - Stenofix (Synthes)
  - Superion ISS Interspinous Spacer System (VertiFlex)
  - Wallis System (Abbott Spine/ Zimmer Spine)
  - X-STOP Interspinous Process Decompression (IPD) System (Kyphon/ Medtronic Spine)
  - X-STOP PEEK Interspinous Process Decompression (IPD) System (Kyphon/ Medtronic Spine)
- Interspinous fixation devices for spinal stenosis or other indications such as 1 or more of the following (not an all inclusive list)
  - Affix II and Affix II Mini Spinous Process Plating System (NuVasive)
  - Aileron Interspinous Fixation System (Life Spine)
  - Aspen Spinous Process Fixation System (Lanx)
  - Axle (X-Spine)
  - BacFuse (Pioneer Surgical)
  - BridgePoint (Alphatec)
  - CD Horizon Spire Fixation System (Medtronic Sofamor Danek)
  - Coflex-F (Paradigm Spine)
  - Inspan (Spine Frontier)
  - Minuteman Interspinous Interlaminar Fusion Device (Spinal Simplicity)
  - PrimaLOK (OsteoMed)
  - Octave (Life Spine)
  - SP-Fix Spinous Process Fixation System (Globus Medical)
- Retrolisthesis, unless greater than 50% bilateral facet resection is required
- Spinal System, NFix, Satellite Spinal System, Stabilimax NZ Dynamic Spine Stabilization System, and the Zodiac DynaMo System)
- Stenosis as an adjunct to primary decompression of central and/or lateral recess stenosis in the absence of instability, foraminal stenosis, or spondylolisthesis and when greater than 50% bilateral facet resection is not required to achieve neurologic decompression

## Document History:

### Revised Dates:

- 2025: January – Procedure codes updated to align with changes in service authorization.
- 2024: June – Added codes 22845 - 22847
- 2024: March
- 2023: October
- 2022: August, November
- 2020: August
- 2016: April
- 2015: February, May, September
- 2014: January, June, August, November
- 2013: May, June
- 2012: February, May
- 2011: May, June, November
- 2010: May
- 2009: May
- 2008: May
- 2006: October
- 2004: September
- 2002: August

### Reviewed Dates:

- 2025: August – Implementation date of December 1, 2025. No changes references updated.
- 2024: October – no change references updated
- 2019: April
- 2018: November
- 2017: December
- 2016: May
- 2014: May
- 2010: April
- 2007: December
- 2005: February, October
- 2004: July
- 2003: July

### Origination Date:

- May 2002

## Coding:

### Medically necessary with criteria:

Coding	Description
20930	Allograft, morselized, or placement of osteopromotive material, for spine surgery only (List separately in addition to code for primary procedure)
20931	Allograft, structural, for spine surgery only (List separately in addition to code for primary procedure)
20932	Allograft, includes templating, cutting, placement and internal fixation, when performed; osteoarticular, including articular surface and contiguous bone (List separately in addition to code for primary procedure)
20933	Allograft, includes templating, cutting, placement and internal fixation, when performed; hemicortical intercalary, partial (ie, hemicylindrical) (List separately in addition to code for primary procedure)
20934	Allograft, includes templating, cutting, placement and internal fixation, when performed; intercalary, complete (ie, cylindrical) (List separately in addition to code for primary procedure)

20936	Autograft for spine surgery only (includes harvesting the graft); local (eg, ribs, spinous process, or laminar fragments) obtained from same incision (List separately in addition to code for primary procedure)
20937	Autograft for spine surgery only (includes harvesting the graft); morselized (through separate skin or fascial incision) (List separately in addition to code for primary procedure)
20938	Autograft for spine surgery only (includes harvesting the graft); structural, bicortical or tricortical (through separate skin or fascial incision) (List separately in addition to code for primary procedure)
20939	Bone marrow aspiration for bone grafting, spine surgery only, through separate skin or fascial incision (List separately in addition to code for primary procedure)
22533	Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar
22534	Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); thoracic or lumbar, each additional vertebral segment (List separately in addition to code for primary procedure)
22556	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); thoracic
22558	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar
22585	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); each additional interspace (List separately in addition to code for primary procedure)
22586	Arthrodesis, pre-sacral interbody technique, including disc space preparation, discectomy, with posterior instrumentation, with image guidance, includes bone graft when performed, L5-S1 interspace
22612	Arthrodesis, posterior or posterolateral technique, single interspace; lumbar (with lateral transverse technique, when performed)
22614	Arthrodesis, posterior or posterolateral technique, single interspace; lumbar (with lateral transverse technique, when performed). Additional level
22630	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar
22632	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; each additional interspace (List separately in addition to code for primary procedure)
22633	Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace; lumbar
22634	Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace; each additional interspace and segment (List separately in addition to code for primary procedure)
22800	Arthrodesis, posterior, for spinal deformity, with or without cast; up to 6 vertebral segments
22802	Arthrodesis, posterior, for spinal deformity, with or without cast; 7 to 12 vertebral segments
22804	Arthrodesis, posterior, for spinal deformity, with or without cast; 13 or more vertebral segments
22808	Arthrodesis, anterior, for spinal deformity, with or without cast; 2 to 3 vertebral segments
22810	Arthrodesis, anterior, for spinal deformity, with or without cast; 4 to 7 vertebral segments

22812	Arthrodesis, anterior, for spinal deformity, with or without cast; 8 or more vertebral segments
22830	Exploration of spinal fusion
22840	Posterior non-segmental instrumentation (eg, Harrington rod technique, pedicle fixation across 1 interspace, atlantoaxial transarticular screw fixation, sublaminar wiring at C1, facet screw fixation) (List separately in addition to code for primary procedure)
22841	Internal spinal fixation by wiring of spinous processes (List separately in addition to code for primary procedure)
22842	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)
22843	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 7 to 12 vertebral segments (List separately in addition to code for primary procedure)
22844	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 7 to 12 vertebral segments (List separately in addition to code for primary procedure)
22845	Anterior instrumentation; 2 to 3 vertebral segments (List separately in addition to code for primary procedure)
22846	Anterior instrumentation; 4 to 7 vertebral segments (List separately in addition to code for primary procedure)
22847	Anterior instrumentation; 8 or more vertebral segments (List separately in addition to code for primary procedure)
22849	Reinsertion of spinal fixation device
22850	Removal of posterior nonsegmental instrumentation (eg, Harrington rod)
22852	Removal of posterior segmental instrumentation
22853	Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)
22854	Insertion of intervertebral biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to vertebral corpectomy(ies) (vertebral body resection, partial or complete) defect, in conjunction with interbody arthrodesis, each contiguous defect (List separately in addition to code for primary procedure)
22859	Insertion of intervertebral biomechanical device(s) (eg, synthetic cage, mesh, methylmethacrylate) to intervertebral disc space or vertebral body defect without interbody arthrodesis, each contiguous defect (List separately in addition to code for primary procedure)
63052	Laminectomy, facetectomy, or foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s] [eg, spinal or lateral recess stenosis]), during posterior interbody arthrodesis, lumbar; single vertebral segment (List separately in addition to code for primary procedure)
63053	Laminectomy, facetectomy, or foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s] [eg, spinal or lateral recess stenosis]), during posterior interbody arthrodesis, lumbar; each additional segment (List separately in addition to code for primary procedure)

#### Considered Not Medically Necessary:

Coding	Description
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22867	Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; single level
22868	Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; second level (List separately in addition to code for primary procedure)
22869	Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; single level
22870	Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; second level (List separately in addition to code for primary procedure)
22899	Unlisted procedure, spine
61783	Stereotactic computer-assisted (navigational) procedure; spinal (List separately in addition to code for primary procedure)

U.S. Food and Drug Administration (FDA) - approved only products only.

The preceding codes are included above for informational purposes only and may not be all inclusive. Additionally, inclusion or exclusion of a treatment, procedure, or device code(s) does not constitute or imply member coverage or provider reimbursement. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

### Special Notes: \*

- Coverage:
  - See the appropriate benefit document for specific coverage determination. Member specific benefits take precedence over medical policy.
- Application to products:
  - Policy is applicable to Sentara Health Plan Commercial products.
- Authorization requirements:
  - Pre-certification by the Plan is required.
- Special Notes:
  - Commercial
    - Medical policies can be highly technical and complex and are provided here for informational purposes. These medical policies are intended for use by health care professionals. The medical policies do not constitute medical advice or medical care. Treating health care professionals are solely responsible for diagnosis, treatment, and medical advice. Sentara Health Plan members should discuss the information in the medical policies with their treating health care professionals. Medical technology is constantly evolving, and these medical policies are subject to change without notice, although Sentara Health Plan will notify providers as required in advance of changes that could have a negative impact on benefits.
    - Services mean both medical and behavioral health (mental health) services and supplies unless We specifically tell You otherwise. We do not cover any services that are not listed in the Covered Services section unless required to be covered under state or federal laws and regulations. We do not cover any services that are not Medically Necessary. We sometimes give examples of specific services that are not covered but that does not mean that other similar services are covered. Some services are covered only if We authorize them. When We say You or Your We mean You and any of Your family members covered under the Plan. Call Member Services if You have questions.

### References:

Specialty Association Guidelines; Government Regulations; Winifred S. Hayes, Inc; UpToDate; Literature Review; Specialty Advisors; National Coverage Determination (NCD); Local Coverage Determination (LCD).

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## Keywords:

Lumbar Fusion, SHP Surgical 118, Spinal fracture repair, Spinal stenosis, Lumbar spondylolisthesis, Adjacent segment disease, Lumbar pseudarthrosis, Severe degenerative scoliosis, Dynamic stabilization, BioFlex, CD Horizon Agile Dynamic Stabilization Device, DSS Dynamic Soft Stabilization System, Dynabolt Dynamic Stabilization System, Dynesys Spinal System, Graf ligamentoplasty, Graf artificial ligament, Isobar Spinal System, NFix, Satellite Spinal System, Stabilimax NZ Dynamic Spine Stabilization System, Zodiak DynaMo System, Retrolisthesis, Interlaminar lumbar instrumented fusion, ILIF, Interspinous distraction devices, interlaminar distraction devices, Aperius PercLID System, Coflex Interlaminar Technology Implant, CoRoent Extensure, DIAM Spinal Stabilization System, ExtenSure, FLEXUS, Falena Interspinous Decompression Device, Helifix Interspinous Spacer System, In-Space, NL-Prow Interspinous Spacer, Stenofix, Superior ISS Interspinous Spacer System, Wallis System, X-STOP Interspinous Process Decompression (IPD) System, X-STOP PEEK Interspinous Process Decompression (IPD) System, Interspinous fixation devices, Affix II, Affix II Mini Spinous Process Plating System, Aileron Interspinous Fixation System, Aspen Spinous Process Fixation System, Axle, BacFuse, BridgePoint, CD Horizon Spire Fixation System, Coflex-F, Inspan, Minuteman Interspinous Interlaminar Fusion Device, PrimaLOK, Octave, SP-Fix Spinous Process Fixation System, Mazor X, ExcelsiusGPS, Rosa Spine, NuVasive, Brainlab, Curexo, Fusion Robotics, surgical robots, Allograft bone graft substitutes, TruFuse®, NuFix™, BacFast® HD, Bone graft substitutes, iliac crest donor site reconstruction, Bone marrow aspirate, concentrated bone marrow aspirate, centrifuged bone marrow aspirate, bone graft materials, allograft, Cell-based substitutes, mesenchymal stem cells, Human amniotic membrane bone graft substitute materials, amniotic fluid stem cell substitutes, Human growth factor substitutes, fibroblast growth factor, insulin-like growth factor, bone graft materials, bone graft substitutes, Recombinant Bone Morphogenetic Protein, rhBMP, rhBMP-2, Decompressive laminectomy, Degenerative disc disease, lumbar surgery, pseudarthrosis, intervertebral disc herniation, Isolated low back pain, spinal instability, neurologic deficits, Single level discectomy, pedicle screws, Lumbar spinal stenosis, Spinal cord compression, Spinal stenosis, cauda equina syndrome, myelopathy, severe muscle weakness, MRC scale, Progressive neurological deficit, Discogenic low back pain, Pseudarthrosis, Adjacent segment disease, Synovial facet cysts, Disc herniations, lumbar interbody cages, Posterior lumbar interbody fusion, Transforaminal lumbar interbody fusion, Lateral lumbar interbody fusion, Anterior lumbar interbody fusion, INFUSE® Bone Graft