

Artificial Intervertebral Discs

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Definitions

| Artificial discs | Devices constructed from metal, plastic, titanium or polyurethane, which are surgically implanted between the spinal vertebrae as a replacement for diseased/damaged discs to provide relief for intractable pain. | |
|---|--|---|
| Cervical degenerative disc disease (CDD) | following cond 1. Hern 2. Spon | ck or arm (radicular) pain and/or a functional/neurological deficit with at least one of the ditions confirmed by imaging (CT, MRI, or X-rays): iated nucleus pulposus dylosis (defined by the presence of osteophytes) of disc height. |
| Degenerative disc disease (DDD) | Defined as dis- studies. | cogenic back pain with degeneration of the disc confirmed by patient history and radiographic |
| Intractable radiculopathy/or myelopathy | 1. Disc 2. Spon 3. Disc 4. Spon assoc | y combination of the following: herniation with radiculopathy dylotic radiculopathy herniation with myelopathy idylotic myelopathy resulting in impaired function and at least one clinical neurological sign ciated with the cervical level to be treated, and necessitating surgery as demonstrated using buted tomography (CT), myelography and CT, and/or magnetic resonance imaging (MRI). |
| Spondylolisthesis Defined as anterior or posterior displacement (slippage) of a vertebra or t the vertebrae below; described by millimeters or grading per the table fol | | erior or posterior displacement (slippage) of a vertebra or the vertebral column in relation to below; described by millimeters or grading per the table following table. |
| | Grade 1 | 0–25% of vertebral body has slipped forward |
| | Grade 2 | 25–50% |
| | Grade 3 | 50–75% |
| | Grade 4 | 75–100% |
| | Grade 5 | > 100% = vertebral body completely fallen off (i.e., spondyloptosis) |

Guideline

Artificial discs are FDA-approved for use in skeletally mature individuals per the table below. (List not intended as all-inclusive)

| | Device | Indication |
|----------|--|---|
| Cervical | BRYAN® Cervical Disc | Radiculopathy/myelopathy (C3–C7) (single level) |
| | M6-C™ Artificial Cervical Disc | Radiculopathy/myelopathy (C3–C7) (single level) |
| | Mobi-C [®] Cervical Disc Prosthesis | Radiculopathy/myelopathy (C3–C7) (two level) |
| | PCM Cervical Disc System | Radiculopathy/myelopathy (C3–C7) (single level) |
| | Prestige® Cervical Disc System | Radiculopathy/myelopathy (C3–C7) (single level) |
| | Prestige LP Cervical Disc | Radiculopathy/myelopathy (C3–C7) (single level) |
| | ProDisc™-C Total Disc Replacement | CDD (C3–C7) (single level) |
| | SECURE®-C Artificial Cervical Disc | Radiculopathy/myelopathy (C3–C7) (single level) |
| Lumbar | activL® Artificial Disc | DDD (L4–L5 or L5–S1): No ≥ Grade I spondylolisthesis at the involved level (single level) |
| | CHARITÉ™ Artificial Disc | DDD (L4-S1): No > 3mm of spondylolisthesis at the involved level (single level) |
| | PRODISC®-L Total Disc Replacement | DDD (L3–S1): No > Grade 1 spondylolisthesis at involved level (single level) |

Members with single-level lumbar disc disease (or 1–2 contiguous cervical-level disease) are eligible for coverage of artificial prosthetic disc replacement with an FDA-approved device when the following criteria are met:

- 1. Skeletal maturity
- 2. Disease confirmed by radiological imaging (e.g., CT or MRI scan followed by discogram*)
- 3. Pain confined to operative level(s) (by discogram)
- 4. Pain score ≥ 40 on Visual Analog Scale (VAS)
- 5. Disability score ≥ 30 on Oswestry Low Back Pain Disability Questionnaire or Neck Disability Index
- 6. Failure of \geq 6 months consistent conservative medical therapy, as evidenced by physician office progress notes, which demonstrates that \geq 2 of the following having been tried:
 - a. Physical therapy
 - **b.** Chiropractic care
 - c. Ice/heat therapy
 - **d.** Pharmacotherapy (e.g., oral/injectable analgesia such as non-steroidal anti-inflammatories, muscle relaxants, epidural/facet injections)

Limitations/Exclusions

Artificial discs are not considered medically necessary when any of the following are applicable, as there is insufficient evidence to demonstrate therapeutic value/safety:

- 1. Insertion for purposes for which the device is not FDA approved (off-label use)
- 2. Insertion despite presence of contraindications identified within the specific product labeling

^{*} Discogram is only indicated for the lumbar region.

- 3. Previous spinal fusion/other spinal surgery at affected level
- 4. Current or previous fracture at affected level
- 5. Presence of infection

Revision history

| Oct. 8, 2021 | Removed prerequisite for grade/millimeter measurement of spondylolisthesis |
|---------------|--|
| | Added the presence of infection as a surgical contraindication |
| Oct. 12, 2018 | Clarified that discogram is only indicated for the lumbar region Removed "No nerve root compression or narrowing of lateral access" as prerequisite |
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| Dec. 9, 2016 | Expanded coverage for 1–2 contiguous cervical levels (e.g., Mobi-C®) |

Applicable Procedure Codes

| 22856 | Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophytectomy for nerve root or spinal cord decompression and microdissection), single interspace, cervical |
|-------|--|
| 22857 | Total disc arthroplasty (artificial disc), anterior approach, including discectomy to prepare interspace (other than for decompression), single interspace, lumbar |
| 22858 | Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophytectomy for nerve root or spinal cord decompression and microdissection); second level, cervical (List separately in addition to code for primary procedure) |
| 22861 | Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical |
| 22862 | Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; lumbar |
| 22864 | Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical |
| 22865 | Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; lumbar |

Applicable ICD-10 Diagnosis Codes

| M47.16 | Other spondylosis with myelopathy, lumbar region |
|---------|--|
| M47.26 | Other spondylosis with radiculopathy, lumbar region |
| M47.27 | Other spondylosis with radiculopathy, lumbosacral region |
| M47.816 | Spondylosis without myelopathy or radiculopathy, lumbar region |
| M47.817 | Spondylosis without myelopathy or radiculopathy, lumbosacral region |
| M47.896 | Other spondylosis, lumbar region |
| M47.897 | Other spondylosis, lumbosacral region |
| M48.36 | Traumatic spondylopathy, lumbar region |
| M48.37 | Traumatic spondylopathy, lumbosacral region |
| M50.00 | Cervical disc disorder with myelopathy, unspecified cervical region |
| M50.01 | Cervical disc disorder with myelopathy, high cervical region |
| M50.020 | Cervical disc disorder with myelopathy, mid-cervical region, unspecified level |
| M50.021 | Cervical disc disorder at C4-C5 level with myelopathy |
| M50.022 | Cervical disc disorder at C5-C6 level with myelopathy |
| M50.023 | Cervical disc disorder at C6-C7 level with myelopathy |

| M50.10 Ce | Cervical disc disorder with radiculopathy, unspecified cervical region |
|------------|--|
| M50.11 Ce | Cervical disc disorder with radiculopathy, high cervical region |
| M50.120 M | Aid-cervical disc disorder, unspecified |
| M50.121 Ce | Cervical disc disorder at C4-C5 level with radiculopathy |
| M50.122 Ce | Cervical disc disorder at C5-C6 level with radiculopathy |
| M50.123 Ce | Cervical disc disorder at C6-C7 level with radiculopathy |
| M50.20 A | Another cervical disc displacement, unspecified cervical region |
| M50.21 A | Another cervical disc displacement, high cervical region |
| M50.220 O | Other cervical disc displacement, mid-cervical region, unspecified level |
| M50.221 O | Other cervical disc displacement at C4-C5 level |
| M50.222 O | Other cervical disc displacement at C5-C6 level |
| M50.223 O | Other cervical disc displacement at C6-C7 level |
| M50.30 O | Other cervical disc degeneration, unspecified cervical region |
| M50.31 O | Other cervical disc degeneration, high cervical region |
| M50.320 O | Other cervical disc degeneration, mid-cervical region, unspecified level |
| M50.321 O | Other cervical disc degeneration at C4-C5 level |
| M50.322 O | Other cervical disc degeneration at C5-C6 level |
| M50.323 O | Other cervical disc degeneration at C6-C7 level |
| M50.80 O | Other cervical disc disorders, unspecified cervical region |
| M50.81 O | Other cervical disc disorders, high cervical region |
| M50.820 O | Other cervical disc disorders, mid-cervical region, unspecified level |
| M50.821 O | Other cervical disc disorders at C4-C5 level |
| M50.822 O | Other cervical disc disorders at C5-C6 level |
| M50.823 O | Other cervical disc disorders at C6-C7 level |
| M50.90 Ce | Cervical disc disorder, unspecified, unspecified cervical region |
| M50.91 Ce | Cervical disc disorder, unspecified, high cervical region |
| M50.920 U | Inspecified cervical disc disorder, mid-cervical region, unspecified level |
| M50.921 U | Inspecified cervical disc disorder at C4-C5 level |
| M50.922 U | Inspecified cervical disc disorder at C5-C6 level |
| M50.923 U | Inspecified cervical disc disorder at C6-C7 level |
| M51.06 In | ntervertebral disc disorders with myelopathy, lumbar region |
| M51.16 In | ntervertebral disc disorders with radiculopathy, lumbar region |
| M51.17 In | ntervertebral disc disorders with radiculopathy, lumbosacral region |
| M51.26 O | Other intervertebral disc displacement, lumbar region |
| M51.27 O | Other intervertebral disc displacement, lumbosacral region |
| | |

| M51.360 | Other intervertebral disc degeneration, lumbar region with discogenic back pain only |
|---------|---|
| M51.361 | Other intervertebral disc degeneration, lumbar region with lower extremity pain only |
| M51.362 | Other intervertebral disc degeneration, lumbar region with discogenic back pain and lower extremity pain |
| M51.369 | Other intervertebral disc degeneration, lumbar region without mention of lumbar back pain or lower extremity pain |
| M51.370 | Other intervertebral disc degeneration, lumbosacralregion with discogenic back pain onl |
| M51.371 | Other intervertebral disc degeneration, lumbosacralregion with lower extremity pain only |
| M51.372 | Other intervertebral disc degeneration, lumbosacralregion with discogenic back pain and lower extremity pain |
| M51.379 | Other intervertebral disc degeneration, lumbosacralregion without mention of lumbar back pain or lower extremity pain |
| M51.86 | Other intervertebral disc disorders, lumbar region |
| M51.87 | Other intervertebral disc disorders, lumbosacral region |
| Q76.2 | Congenital spondylolisthesis |

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