



Policy Number: PA-135.MPC  
Last Review Date: 02/25/2021  
Effective Date: 04/01/2021

## PA.135.MPC – Cervical and Lumbar Artificial Disc Replacement

Maryland Physicians Care considers **Artificial Intervertebral Disc Replacement of the Cervical and Lumbar spine for the treatment of Degenerative Disc Disease (DDD)** medically necessary for the following indications:

1. The patient is skeletally mature
2. Patient has undergone at least six months of non-surgical treatment (including physical therapy, pain medication, or back bracing, without showing improvement) and has not experienced relief of low-back pain symptoms
3. The prosthesis used is a Food and Drug Administration (FDA) approved device

### AND

**Lumbar Artificial Disc Replacement** (LADR) using the ProDisc-L Total Disc Replacement device is indicated for coverage when:

1. Patient has been diagnosed with single-level DDD at the lumbar spine (L3-S1).
2. Patient has no more than Grade 1 spondylolisthesis at the involved level
3. Patient has no evidence of malignancy at affected level, no deformity at the level

**Cervical Total Disc Replacement** using an FDA approved device is indicated for coverage when:

1. Patient experiences disc degeneration of no more than one disc in the cervical spine
2. Patient has intractable radiculopathy (arm pain and/or neurological deficit with or without neck pain) and/or myelopathy (abnormality localized to the level of the disc space) due to neural compression C3-C7 at one level or two continuous levels

### A. Limitations

Limitations to artificial *lumbar* disc replacement include:

1. No signs of whole body infection (eg pneumonia), osteoporosis, or arthritis.
2. No known allergies to cobalt, chromium, molybdenum, polyethylene, or titanium.

Limitations to artificial *cervical* disc replacement include:

1. No signs of whole body infection (eg pneumonia), osteoporosis, arthritis, or osteomalacia.

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2. No known allergies to stainless steel.

### Background

Degenerative Disc Disease (DDD) is defined by the Food and Drug Administration (FDA) as discogenic back pain (pain resulting from a degenerated intervertebral disc) with degeneration of the disc confirmed by patient history and radiographic studies. Although intervertebral disc degeneration is common with age, it can vary in progression and severity. Isolated pain of the lower lumbar region is a common symptom associated with DDD. A diagnosis of DDD can be completed with patient history, a physical examination, and Magnetic Resonance Imaging (MRI). DDD is typically managed using conservative treatments such as physical therapy, anti-inflammatory drugs, epidural steroid injections, exercise, and massage therapy among other therapies. Spinal fusion surgery may be used to treat DDD in patients who fail conservative treatments. Concerns regarding loss of motion with spinal fusion therapy lead to the development of an alternative artificial disc replacement therapy intended to preserve spinal motion. The intended outcomes of artificial disc replacement are to reduce pain, repair intervertebral disc height and preserve motion at the point of surgery.

ProDisc-L Total Disc Replacement is an artificial disc intended for use in LADR that was FDA approved in 2006. The device is used to replace damaged intervertebral discs with the goal of reducing pain and allowing movement at the spinal level where the disc was implanted. The FDA has approved 4 cervical disc prostheses including the Prestige Cervical Disc Systems, the ProDisc-C Total Disc Replacement, the Bryan Cervical Disc System, and the Mobi-C Cervical Disc.

### Codes: CPT HCPCS

| Code  | Description   |
|-------|---|
| 22856 | Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophylectomy 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 osteophylectomy for nerve root or spinal cord decompression and microdissection); second level, cervical      |
| 22861 | Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical   |

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| 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  |
| 22533 | Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar                             |
| 22558 | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar                                |
| 22612 | Arthrodesis, posterior or posterolateral technique, single level; lumbar (with or without lateral transverse technique)   |
| 22630 | Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar |
| 22865 | Spinal Instrumentation Procedures on the Spine (Vertebral Column)   |
| 22899 | Unlisted procedure, spine   |

### References

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2. Centers for Medicare and Medicaid Services (CMS). Decision Memo for Lumbar Artificial Disc Replacement (LADR) (CAG- 0029R) Dated: 08/14/2007. [https://www.cms.gov/medicare-coverage-database/details/nca-decision-memo.aspx?NCAId=197&NcaName=Lumbar+Artificial+Disc+Replacement+\(LADR\)&ver=18&DocID=CAG-00292R&bc=gAAAAgAIAAA&](https://www.cms.gov/medicare-coverage-database/details/nca-decision-memo.aspx?NCAId=197&NcaName=Lumbar+Artificial+Disc+Replacement+(LADR)&ver=18&DocID=CAG-00292R&bc=gAAAAgAIAAA&)
3. U.S. Food and Drug Administration (FDA). Medical Devices: ProDisc-L Total Disc Replacement-[https://www.accessdata.fda.gov/cdrh\\_docs/pdf5/P050010c.pdf](https://www.accessdata.fda.gov/cdrh_docs/pdf5/P050010c.pdf)
4. Hayes Medical Technology Directory. Comparative Effectiveness Review of Lumbar Total Disc Replacement for Degenerative Disc Disease. Publication Date: 04/01/2019.
5. Hayes Medical Technology Directory. Comparative Effectiveness Review Multilevel Artificial Disc Replacement for Cervical Degenerative Disc Disease. Publication Date: 10/03/2017. Annual Review: 01/09/2020.
6. Hayes Medical Technology Directory. Comparative Effectiveness Review Single Level Artificial Disc Replacement for Cervical Degenerative Disc Disease. Publication Date: 08/21/2017. Annual Review Date: 10/29/2019.

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8. International Society for the Advancement of Spine Surgery (ISASS). Position Statement: Cervical Disc Arthroplasty. 2019. <https://www.isass.org/public-policy/policy-statements/2019-position-statement-from-the-international-society-for-the-advancement-of-spine-surgery-on-cervical-and-lumbar-disc-replacements/>
9. Medtronic Cervical Herniated Disc. Prestige Cervical Disc. <http://www.medtronic.com/patients/cervical-herniated-discs/device/our-artificial-disc/prestige/>. Last updated July 2019.
10. Mobi-C Cervical Disc. <http://www.cervicaldisc.com/>. 2020.

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