aprevo™

get your power back

Unlike stock devices that square up the disc space, aprevo® devices are personalized to conform to patient anatomy and achieve the planned correction of spinal malalignment.

The aprevo® patient specific plans and devices give you the power to achieve your surgical plan, which is known to reduce complications and improve patient outcomes.[1]

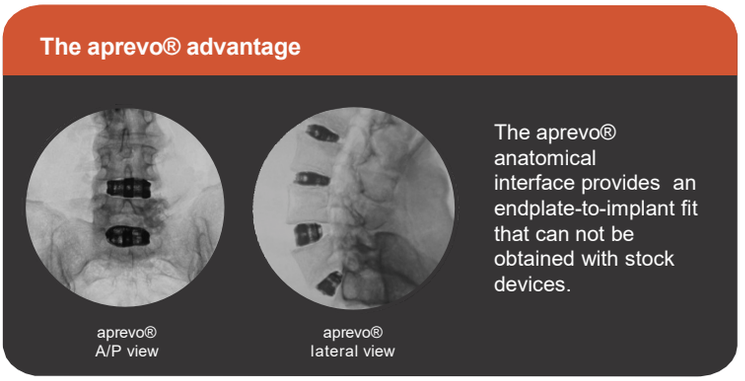
aprevo® lateral, anterior and transforaminal devices

New Technology Add-on Payment Up to $40,950

The aprevo® anterior, lateral and transforaminal interbody cages were awarded FDA Breakthrough Device Designation (BDD) in 2020 based on the potential to provide a more effective treatment when compared to existing treatment options. Spine fusion procedures utilizing Carlsmed's aprevo® devices are eligible for an additional reimbursement of up to **$40,950** per procedure from CMS. Commercial payer reimbursement varies by contract.

Improve fusion conditions

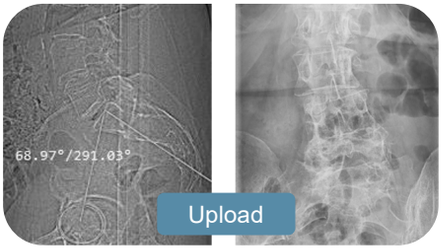
aprevo® personalized interbody devices have an anatomical interface with vertebral endplates. The benefits of this feature have been well studied:



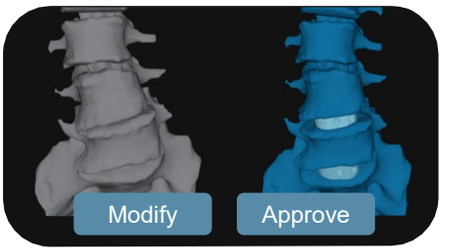
- **Improved fit to achieve alignment[2]**
- **28% decrease in posterior rod stress[3]**
- **50x increase in contact area[4]**
- **30x reduction in stress concentration[4]**
- **45% more effective contact[5]**
- **Reduced stress increase inside the adjacent disc and facets[6]**
- **Decrease postop subsidence[7]**
- **Decrease severity of subsidence-related pain[7]**

Simplify surgical planning

Carlsmed simplifies the data upload process for your clinic and/or radiology. After your patient's CTs and X-Rays have been processed by Carlsmed®, you will receive segmented 3D models of the spinal deformity and a proposed correction in the aprevo® app. Carlsmed's secure user interface allows you to easily review, modify, and approve the proposed 3D surgical plan. The aprevo® personalized titanium devices are ready to be shipped within weeks.



Step 1: Upload CT & Standing A/P and Lateral X-Ray images



Step 2: Review plan

Step 3: Sterile implants and inserter arrive for surgery

Reduce "OR clutter" and lower processing costs

Your patient's devices are delivered to your operating room in a single package with a sterile insertion tool. The aprevo® approach reduces clutter, eliminates implant trays and lowers processing costs.

Patient specific configurations and sizing

The aprevo® devices accommodate lateral, anterior and transforaminal surgical approaches to the lumbar spine. Every aspect of endplate position and implant dimension* is dictated by you, based on the specific needs of your patient. Implant lordosis from 0˚ to 30˚ (anterior/lateral) and from 0˚ to 15˚ (transforaminal) is available, as well as coronal angulation from 0° to 15°.

Patients come to you for personalized care. Consider personalized implants for their treatment.

Ask them what they would prefer.

carlsmed™

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References:
1. ISSG, et al. Podium abstract #18. SRS 2021. **2**. Carlsmed data. NASS 2020. **3.** Chatham, et al. J Biomechanical Eng. MAY 2017. **4.** Patel, Univ. of Colorado at Denver, 2018. **5.** Wang, et al. Proc Inst Mech Eng H. April 2018. **6.** Zhang, et al. Orthopaedic Surgery (2016) Vol. 6;8. **7.** Fengbin, et al. Eur Spine J (2013) Vol. 22.

* Within FDA cleared parameters

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