



Our Mission

To improve outcomes and lower the cost of healthcare for spine surgery and beyond.

What We Do

AI-enabled integrated pre-operative, intra-operative and post-operative technology platform designed to reduce patient reoperation for spine surgery.^{1,2,3,4}

Business Profile

Rapidly scaling Medtech company with published clinical evidence, premium reimbursement, and pathway to profitability.^{1,2,3,4}



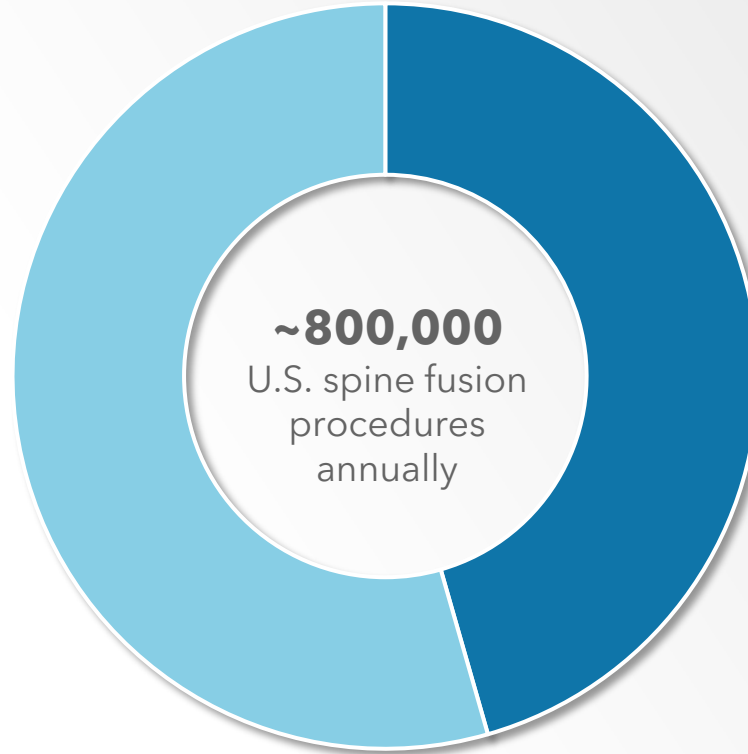
Large Addressable U.S. Spine Fusion Market¹



Lumbar

~445,000 lumbar spine fusion procedures in the U.S. annually

~\$13B total addressable market for **aprevo lumbar**



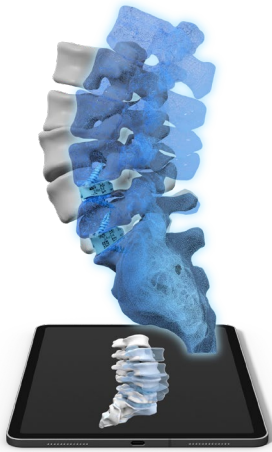
Cervical

~373,000 cervical fusion procedures in the U.S. annually

~\$6B total addressable market for **aprevo cervical**

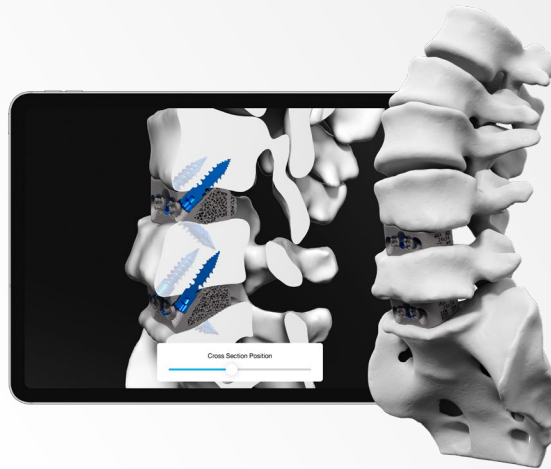
aprevo[®] Technology Platform

POWERED BY THE **myaprevo[®]** Ecosystem



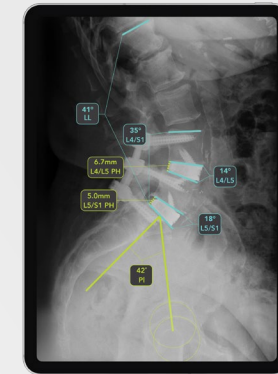
PRE-OP **aprevo[®]** digital planning

Advanced 3D Alignment
Planning & Visualization



INTRA-OP **aprevo[®]** personalized devices

Personalized Anatomically
Designed Devices



POST-OP **aprevo[®]** intelligence[™]

Postoperative Data Insights &
Precision Analytics

74% Reduction in Revision Rates at 2-years vs. Stock Devices¹

PEER REVIEWED DATA IN *THE GLOBAL SPINE JOURNAL* OF 115 PATIENTS OBSERVED

stock

Revision rate
with stock
devices

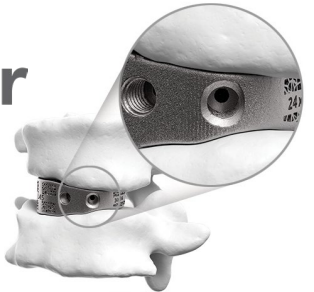


16.6%

2-year revision rate resulting
from mechanical complications
in ASD patients²

aprevo[®] lumbar

Revision rate
with aprevo[®]
devices



4.3%

2-year revision rate for
aprevo[®] ASD patients²



Reimbursement that Aligns with Reduced Reoperations

100% OF **aprevo® lumbar** PROCEDURES HAVE INCREMENTAL HOSPITAL REIMBURSEMENT COMPARED TO STOCK PROCEDURES



MS-DRG	Description	Average national MS-DRG Reimbursement*
523	Extensive or Complex Spinal Fusion Procedures Except Cervical with MCC	~\$99k
524	Extensive or Complex Spinal Fusion Procedures Except Cervical with CC	~\$74k
525	Extensive or Complex Spinal Fusion Procedures Except Cervical without CC/MCC	~\$55k

We anticipate on average approximately \$30k per procedure incremental reimbursement

*Based upon CMS FY27 IPPS national unadjusted payment estimates.

1. These projections do not reflect case severity or provider charging practices. Amounts shown represent DRG base payments only and do not include outlier payments or post-acute care transfer payment policy adjustments.

Challenges in Cervical Fusion Today

HIGH VARIABILITY IN OUTCOMES ACROSS ACDF PROCEDURES, PARTICULARLY IN PATIENTS WITH POOR BONE QUALITY, LONG-CONSTRUCT FUSIONS, AND CERVICAL DEFORMITY.

POOR BONE QUALITY

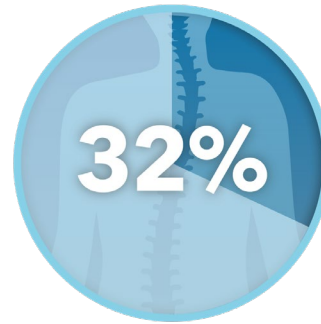


ACDF patients have high rates of osteopenia/osteoporosis¹



5x higher risk of pseudarthrosis² and >4x greater rates of revision for adjacent segment disease³

MALALIGNMENT

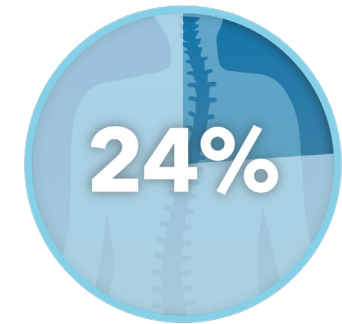


32.2% of cervical deformity cases exceeded 20° from target T1S-CL⁴



No difference in segmental sagittal alignment between stock parallel and lordotic graphs⁵

LONG-CONSTRUCT REVISION



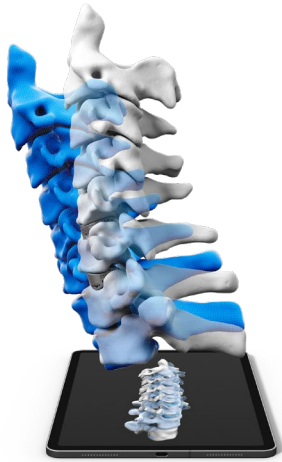
1 in 3 ACDF patients receive 3-4 level fusions



~46% pseudarthrosis and ~24% revision within 2 years⁶

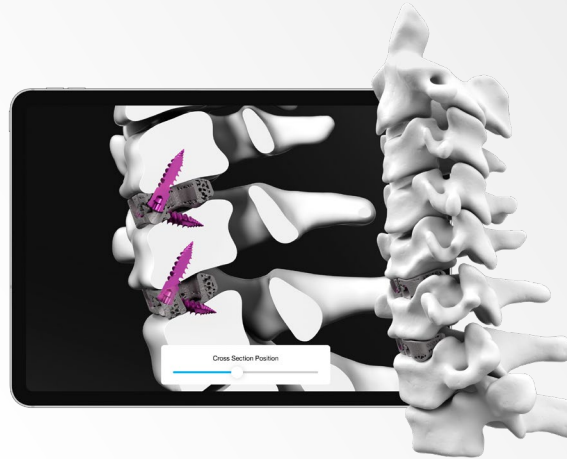
aprevo[®] Technology Platform

POWERED BY THE **myaprevo[®]** Ecosystem



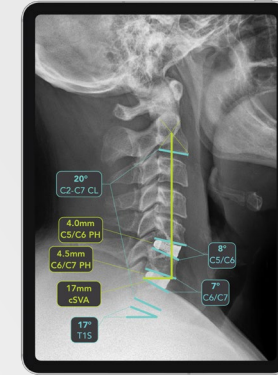
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POST-OP **aprevo[®]** intelligence[™]

Postoperative Data Insights &
Precision Analytics

aprevo[®] cervical Eligible for \$21,125 Incremental Payment

aprevo[®] cervical PROCEDURES ARE ELIGIBLE FOR NEW TECHNOLOGY ADD-ON PAYMENT (NTAP)

ICD-10-PCS Codes for aprevo [®] Cervical Custom-Made Anatomically Designed Interbody Fusion Devices (CMADIFD)	
ICD-10-PCS	Description
XRG10RB	Fusion of cervical vertebral joint using CMADIFD, open approach, new technology group 11
XRG13RB	Fusion of cervical vertebral joint using CMADIFD, percutaneous approach, new technology group 11
XRG14RB	Fusion of cervical vertebral joint using CMADIFD, percutaneous endoscopic approach, new technology group 11
XRG20RB	Fusion of 2 or more cervical vertebral joints using CMADIFD, open approach, new technology group 11
XRG23RB	Fusion of 2 or more cervical vertebral joints using CMADIFD, percutaneous approach, new technology group 11
XRG24RB	Fusion of 2 or more cervical vertebral joints using CMADIFD, percutaneous endoscopic approach, new technology group 11
XRG40RB	Fusion of cervicothoracic vertebral joint using CMADIFD, open approach, new technology group 11
XRG43RB	Fusion of cervicothoracic vertebral joint using CMADIFD, percutaneous approach, new technology group 11
XRG44RB	Fusion of cervicothoracic vertebral joint using CMADIFD, percutaneous endoscopic approach, new technology group 11

Applicable Cervical MS-DRGs May Include:		
MS-DRG	Description	National Average MS-DRG Payment*
429	Combined Anterior and Posterior Cervical Spinal Fusion with MCC	\$65,561
430	Combined Anterior and Posterior Cervical Spinal Fusion without MCC	\$41,966
471	Cervical Spinal Fusion with MCC	\$35,137
472	Cervical Spinal Fusion with CC	\$21,438
473	Cervical Spinal Fusion without CC/MCC	\$17,765

FDA Designated Breakthrough Technology with New Technology Add-on Payment (NTAP)



Up to \$21,125 incremental CMS reimbursement to hospitals for qualifying inpatient aprevo[®] procedures mapping to these MS-DRG's



The aprevo[®] procedure is currently covered by Medicare, Medicare Advantage, and Commercial Payors

*FY 2026 CMS rates, effective October 1, 2025.

Payment rates assume the hospital has a wage index of 1, is an electronic health record user and reports quality data, and do not account for other payment adjustments such as IME, DSH, uncompensated care, outlier or new-technology add-on amounts or other adjustments. Payment rates do not take into consideration any payment cuts from sequestration or PAYGO (where applicable).

aprevo® Personalized Surgery Powered by AI-Enabled Planning & Analytics

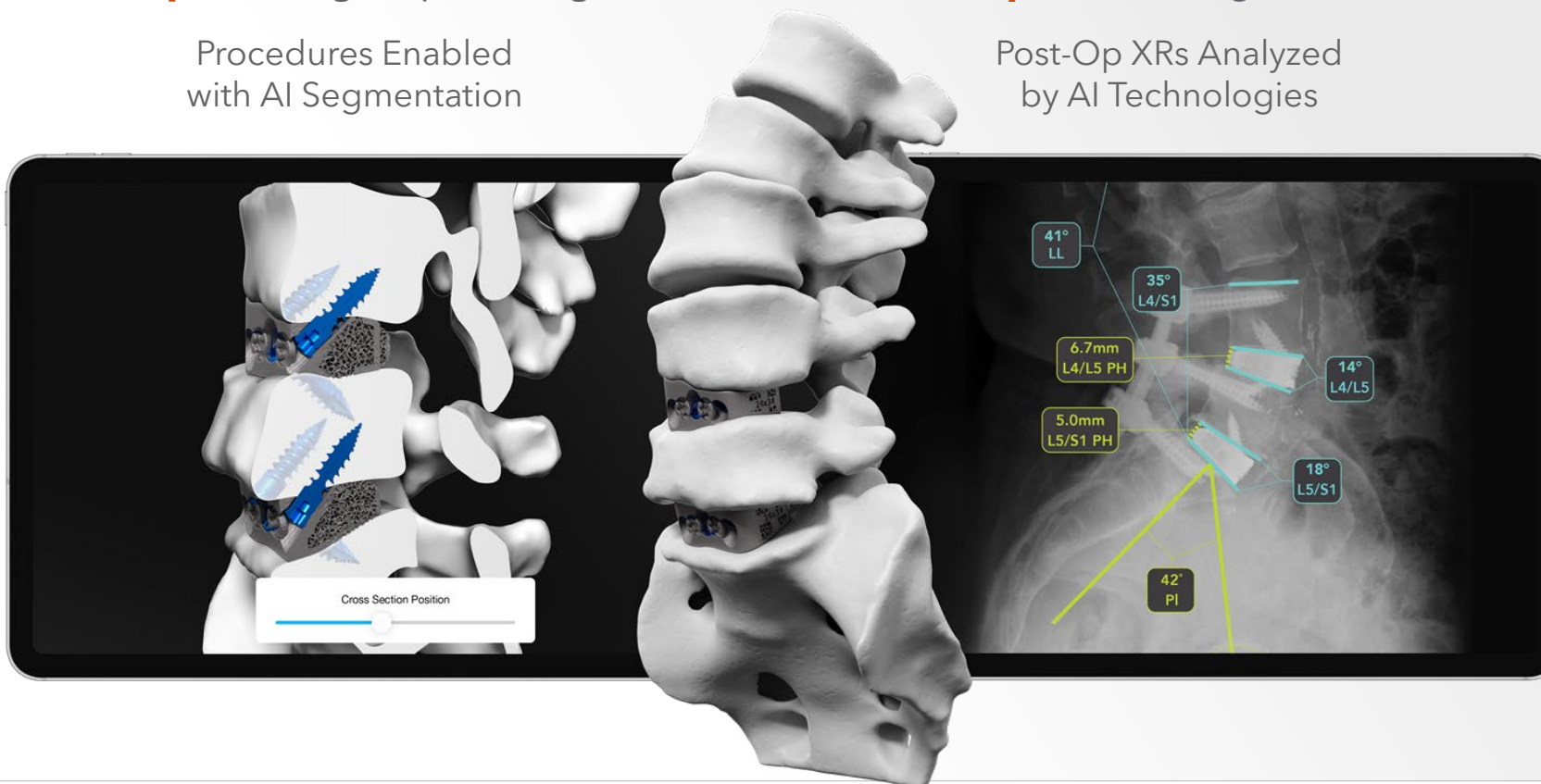


aprevo® digital planning

Procedures Enabled
with AI Segmentation

aprevo® intelligence™

Post-Op XRs Analyzed
by AI Technologies

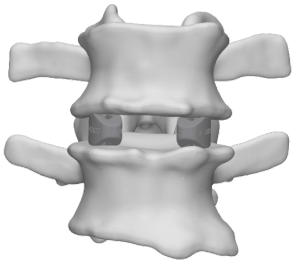


Carlsmed's **aprevo**® Patient-Specific Product Portfolio



aprevo bi-lateral

- Lordosis from 0° to 15°
- Coronal angulation up to 15°



aprevo lumbar



aprevo lateral

- Lordosis from 0° to 30°
- Coronal angulation up to 15°

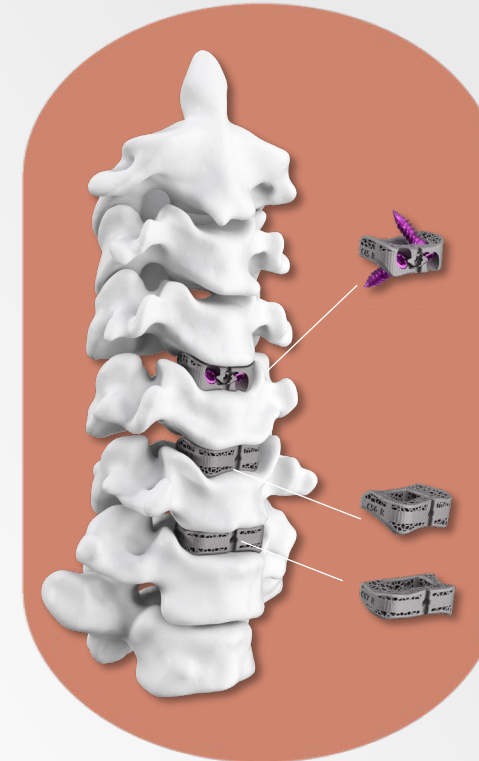
aprevo posterior

- Lordosis from 0° to 15°
- Coronal angulation up to 15°

aprevo anterior

- Lordosis from 0° to 30°
- Coronal angulation up to 15°

aprevo cervical



ACDF Interfixated

- Lordosis from 0° to 30°
- Coronal angulation up to 5°
- ML width up to 30mm

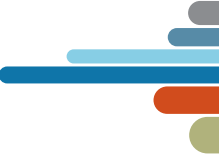
ACDF

- Lordosis from 0° to 30°
- Coronal angulation up to 5°
- ML width up to 30mm



Porous titanium surface lattice designed to promote bone on-growth and in-growth, with optimized endplate matching designed for improved fit and load distribution.

Carlsmed's **corra**™ Patient-Specific Product Portfolio



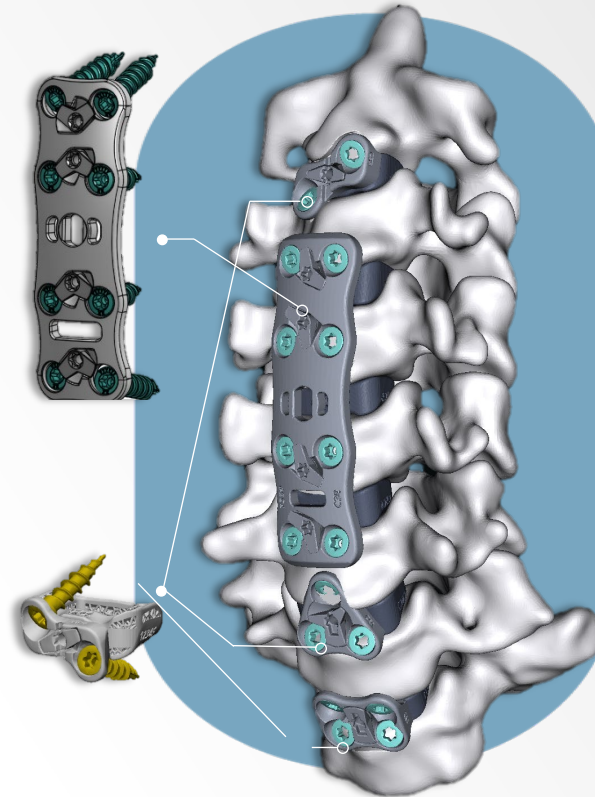
corra™ Cervical Plating System

corra™ multilevel plating system

- Precision plate sizing and contouring
- Pre-planned screw hole position and trajectories
- 4.0 & 4.3 variable screws

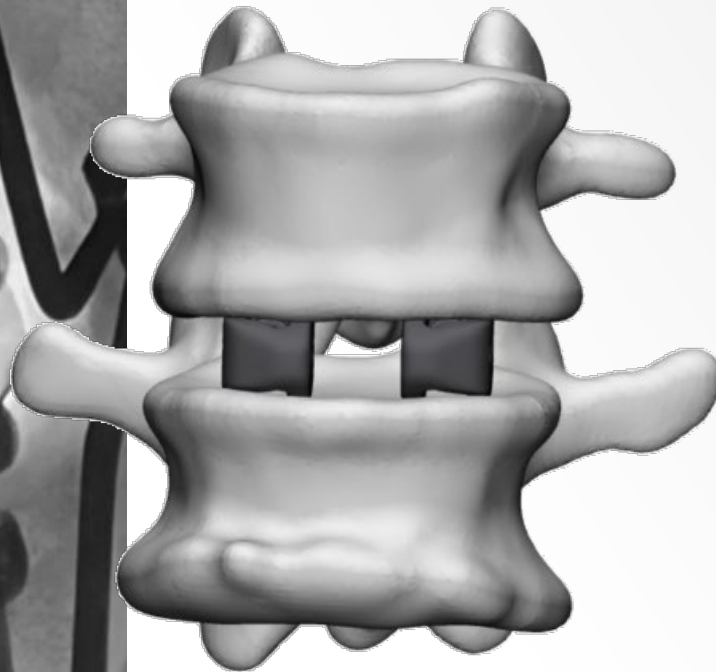
corra™ segmental plating system

- 2-, 3-, or 4-hole plate configurations
- Integrated single-step insertion
- 4.0 & 4.3 variable screws



aprevo® Bi-lateral Posterior

EXTENDING PERSONALIZATION TO BILATERAL POSTERIOR LUMBAR INTERBODY FUSION PROCEDURES



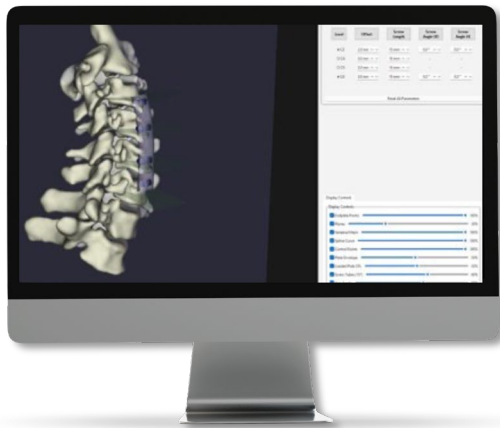
~30,000 bi-lateral procedures annually in the U.S.
(8.0% of total TL IBD procedural volume)*

Powered by the **aprevo® Technology Platform**,
extends 3D-planning and personalization to bi-
lateral posterior procedures

Designed to maximize total device footprint and
endplate coverage to support implant stability
and improved surgical outcomes

corra™ Personalized Cervical Plating

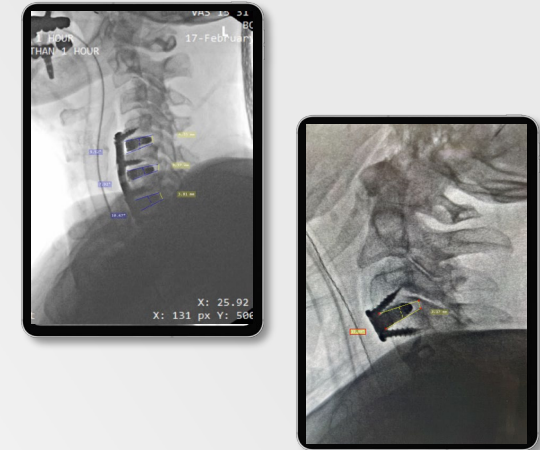
POWERED BY THE **myaprevo** Ecosystem



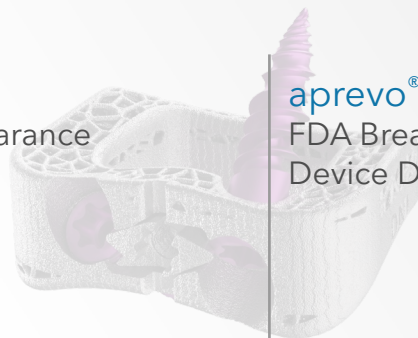
PRE-OP
aprevo digital planning



INTRA-OP
corra personalized devices

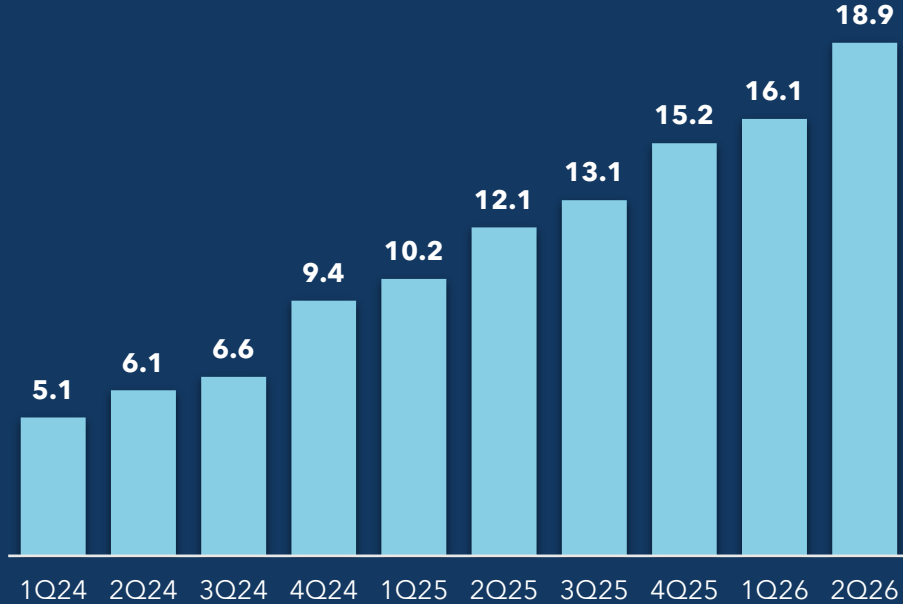


POST-OP
aprevo intelligence™



Financial Highlights

Revenue (USD, millions)¹



\$74M - \$78M

↑ 2026 Full Year Revenue Guidance
50% YOY Growth at Midpoint of Range

\$18.9M

2Q26 REVENUE¹

76.8%

2Q26 GROSS MARGIN¹

(\$8.6M)

2Q26 ADJUSTED EBITDA²

\$123.7M

CASH & ACCESS TO CASH³



Forward Looking Statements



Any statements in this presentation about future expectations, plans and prospects, including statements about Carlsmed's ability to advance its personalized spine surgery platform to transform patient outcomes and drive long-term growth, Carlsmed's estimates regarding total addressable market, the potential of Carlsmed's products, the number ranges presented in Carlsmed's 2026 revenue guidance, Carlsmed's ability to successfully develop and commercialize future products and other statements containing the words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "target," "potential," "likely," "will," "would," "could," "should," "continue," and similar expressions, constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including such important factors as are set forth under the caption "Risk Factors" in Carlsmed's Annual Report on Form 10-K on file with the U.S. Securities and Exchange Commission. The forward-looking statements included in this presentation represent Carlsmed's views as of the date of this presentation. Carlsmed anticipates that subsequent events and developments will cause its views to change. However, while Carlsmed may elect to update these forward-looking statements at some point in the future, it specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing Carlsmed's views as of any date subsequent to the date of this presentation.

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Reconciliation of GAAP Net Loss to Adjusted EBITDA

(UNAUDITED)

	Three Months Ended June 30,		\$	%
	2026	2025	Change	Change
(in thousands, except percentages)				
Net loss	\$ (10,510)	\$ (6,766)	\$ (3,744)	55.3 %
Interest (income) expense	(526)	27	(553)	
Income taxes	—	—	—	—
Depreciation and amortization	130	61	69	113.1 %
EBITDA	(10,906)	(6,678)	(4,228)	63.3 %
Stock-based compensation	2,271	258	2,013	780.2 %
Change in fair value of warrant liabilities	—	237	(237)	(100.0) %
Adjusted EBITDA	<u>\$ (8,635)</u>	<u>\$ (6,183)</u>	<u>\$ (2,452)</u>	39.7 %

Reconciliation of GAAP Net Loss to Adjusted EBITDA

(UNAUDITED)

	Six Months Ended June 30,		\$	%
	2026	2025	Change	Change
(in thousands, except percentages)				
Net loss	\$ (19,206)	\$ (12,495)	\$ (6,711)	53.7 %
Interest (income) expense	(1,106)	4	(1,110)	**
Income taxes	—	—	—	—
Depreciation and amortization	229	101	128	126.7 %
EBITDA	(20,083)	(12,390)	(7,693)	62.1 %
Stock-based compensation	3,900	433	3,467	800.7 %
Change in fair value of warrant liabilities	—	270	(270)	(100.0) %
Adjusted EBITDA	\$ (16,183)	\$ (11,687)	\$ (4,496)	38.5 %