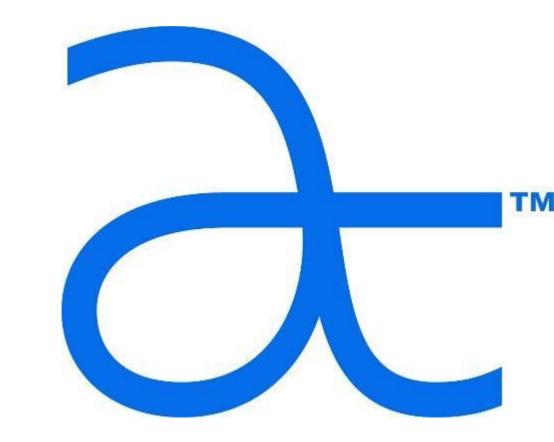
Corporate presentation

March 5, 2024

nasdaq: axgn





Safe harbor statement

This presentation contains "forward-looking" statements as defined in the Private Securities Litigation Reform Act of 1995. These statements are based on management's current expectations or predictions of future conditions, events, or results based on various assumptions and management's estimates of trends and economic factors in the markets in which we are active, as well as our business plans. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates," "projects," "forecasts," "continue," "may," "should," "will," "goals," and variations of such words and similar expressions are intended to identify such forwardlooking statements. Forward-looking statements include (1) the TAM for the targeted nerve markets, (2) 2024 financial guidance, including revenue range and gross margins, (3) growth drivers for the business, (4) expectations regarding the timing of the roll-out of Avive+ Soft Tissue Matrix, (5) the expectation that the Axogen Processing Center will support our BLA filing, (6) the timing of filing the BLA and our expectation that the rolling BLA submission will be completed in the third quarter 2024, (7) the expectation that a new (non-biosimilar) competitive processed nerve allograft would need to complete clinical testing and obtain BLA approval prior to clinical release, and that it would likely take 8 years to achieve this, and (8) the expectation that RECONSM study topline results will support our BLA filing to be completed by the third guarter of 2024.

Actual results or events could differ materially from those described in any forward-looking statements as a result of various factors, including, without limitation, statements related to potential disruptions caused by leadership transitions, global supply chain issues, record inflation, hospital staffing issues, product development, product potential, expected clinical enrollment timing and outcomes, regulatory process and approvals, financial performance, sales growth, surgeon and product adoption, market awareness of our products, data validation, our visibility at and sponsorship of conferences and educational events, global business disruption caused by Russia's invasion of Ukraine and related sanctions, recent geopolitical conflicts in the Middle East, potential disruptions due to management transitions, as well as those risk factors described under Part I, Item 1A., "Risk Factors," of our Annual Report on Form 10-K for the most recently ended fiscal year. Forward-looking statements are not a guarantee of future performance, and actual results may differ materially from those projected. The forward-looking statements are representative only as of the date they are made and, except as required by applicable law, we assume no responsibility to publicly update or revise any forward-looking statements.



The Axogen platform for nerve repair



- Exclusively focused on peripheral nerve repair with a differentiated platform
- 10+ years of demonstrated clinical outcome consistency
- 245 peer-reviewed clinical publications

- Over 100,000 Avance® nerve grafts implanted
- Significant barriers to competitive entry
- 116 U.S. sales reps
- Patient activation and surgeon education capabilities



The function of nerves and injury types

Nerves are like wires

- Transfer signals across a network
- If cut, data cannot be transferred
- If crushed, short circuits and data corruption may occur

The peripheral nervous system is a vast network from every organ to and from the brain

- Sensory
- Motor
- Mixed



Nerves can be injured in three ways:

1. Transection

Traumatic nerve injuries e.g., motor vehicle accidents, power tool accidents, battlefield injuries, gunshot wounds, surgical injuries, neuroma-incontinuity

2. Compression

Carpal, cubital, tarsal tunnel revisions, blunt trauma, previous surgeries

3. Stump Neuroma

Amputations, mastectomies, previous surgeries



A comprehensive platform for addressing nerve injuries

one company for all your surgical nerve repair solutions



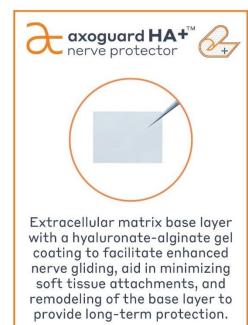
human nerve allograft

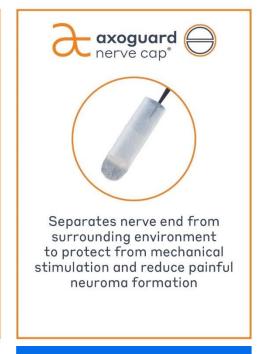
developed for bridging nerve

discontinuities up to 70 mm









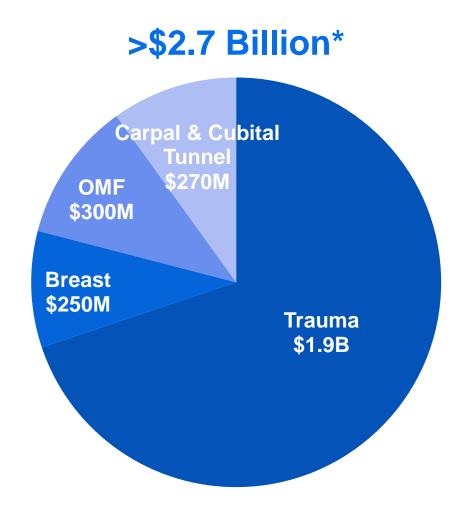
Connection

Protection

Termination



Targeted nerve markets (U.S.)



U.S. potential procedural estimates >900,000**

- Trauma: > 700,000
- Carpal and Cubital Tunnel Revisions: 130,000
- Oral Maxillofacial (OMF): 56,000
- Breast Neurotization Procedures: 15,000

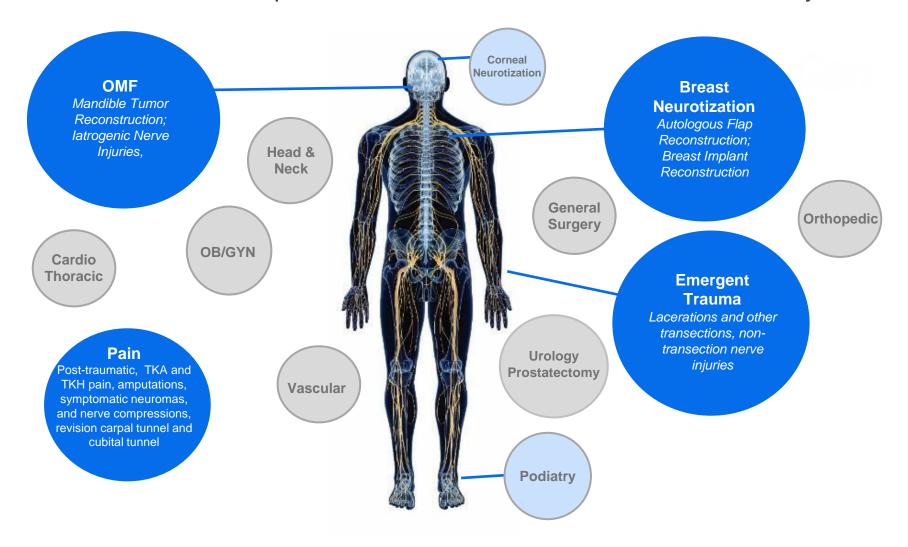
*\$2.7B estimate does not include pain market



^{**}Referenced papers were used to derive specific assumptions in the procedure potential estimates. Papers used include both U.S. and OUS databases and studies. See Appendix for data sources.

Opportunities in nerve repair

Core business anchored in Trauma and Upper Extremity, and expanded to Breast, OMF and Pain. Further Market Expansion in Corneal Neurotization and Podiatry.





Applications for our products include two primary categories

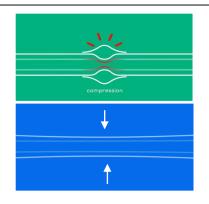
Emergent Trauma Procedure Examples



Transected sensory nerves

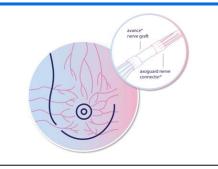


Transected mixed/motor nerves



Non-transected nerve injury

Scheduled Procedure Examples



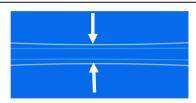
Breast reconstruction



Mandibular reconstruction



Neuroma repair

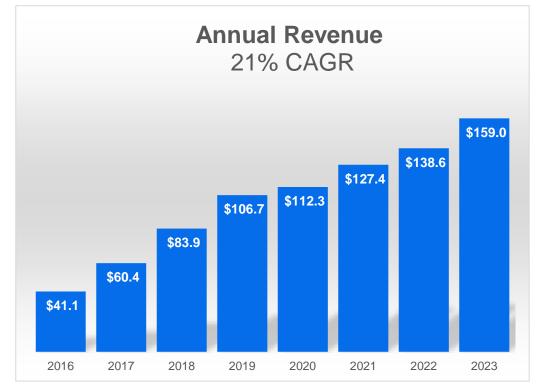


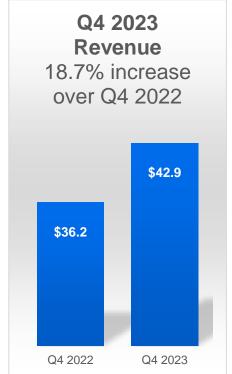
Cubital and carpal tunnel revisions



Delivering strong revenue growth and gross margins

U.S. \$ in millions





78.7% gross margin for the quarter ended December 31, 2023

Revenue by Category

We estimate that:

- Revenues from emergent trauma

 procedures represented approximately half
 of total revenues during the fourth quarter and
 grew in the mid-single digit range versus the
 fourth quarter of 2022
- Revenues from scheduled non-trauma procedures represented approximately half of total revenues during the fourth quarter and grew over 25% from the fourth quarter of 2022

Management expects:

- Full-year 2024 revenue to be in the range of \$177 million to \$181 million, which represents an annual growth rate of approximately of 11% to 14%.
- Additionally, we anticipate gross margin for the full year to be in the range of 76% to 79%.

We estimate revenue by application using the information received from hospitals and sales representatives and based upon assumptions regarding specific surgeon practice and account information. Accordingly, the accuracy of our estimates is subject to the limited data we receive and accuracy of those assumptions.



Growth Drivers

Clinical Data

- Recent clinical data published within the past year will support increased adoption particularly with middle adopters
 - RECON^{SM 56}
 - Meta Analysis of clinical outcomes and Medicare Economic Data⁵⁷
 - Premier Economic Data⁵⁸
 - Cost–effectiveness analysis of Avance⁵⁹

Innovation

- New product launches in nerve protection: Axoguard HA+ Nerve Protector™ launched in August 2023, strategic roll-out of Avive+ Soft Tissue Matrix™ in Q2 2024
- Resensation® for breast neurotization expansion into implant-based reconstructions
- Improving sales rep productivity
- Patient activation programs for breast neurotization, surgical treatment of pain, and OMF
- Surgeon training across our applications



Axogen Processing Center (APC)

- Began processing tissue in the new facility in August 2023
- Supports BLA requirements for Avance nerve graft
- Provides 3x previous capacity, designed for long-term growth and expansion



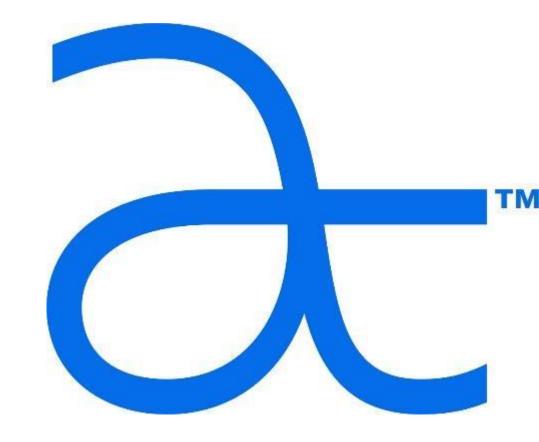








Product Portfolio



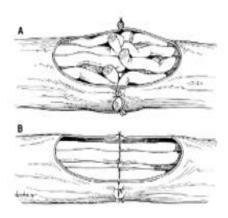


Traditional TRANSECTION repair options are suboptimal

SUTURE

Direct suture repair of no-gap injuries

- Common repair method
- May result in tension to the repair leading to ischemia
- Concentrates sutures at the coaptation site



AUTOGRAFT

Traditional method despite several disadvantages

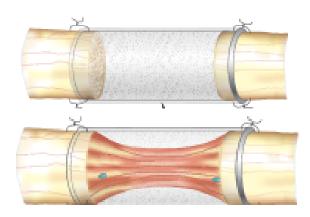
- Secondary surgery
- Loss of function and sensation at harvest site
- 27% complication rate including infection, wound healing and chronic pain ¹⁹
- Limited availability of graft length and diameter



SYNTHETIC CONDUITS

Convenient off the shelf option; limited efficacy & use

- Provides only gross direction for regrowth
- Limited to small gaps
- 34%-57% failure rate >5mm gaps^{20, 21}
- Semi-rigid and opaque material limits use and visualization
- Repair reliant on fibrin clot formation





Axogen solutions for TRANSECTION repair





Clinically studied off-the-shelf alternative,

- · A biologically active nerve therapy with more than ten years of comprehensive clinical evidence
- 82-84% meaningful recovery in sensory, mixed and motor nerve gaps in multi-center study²²
- Eliminates need for an additional surgical site and risks of donor nerve harvest²²
- May reduce OR time

Structural support for regenerating axons

- Cleansed and decellularized extracellular matrix (ECM)
- · Offers the benefits of human peripheral nerve micro-architecture and handling

Revascularizes and remodels into patient's own tissue similar to autologous nerve²³ 16 size options in a variety of lengths (up to 70mm) and diameters (up to 5mm)

These highlights do not include all the information needed to use Avance® Nerve Graft safely and effectively. See full instructions for use (IFU) for Avance® Nerve Graft





Minimally processed porcine ECM for connector-assisted coaptation

Alternative to direct suture repair

Reduces the risk of forced fascicular mismatch^{24, 25}

Alleviates tension at critical zone of regeneration

- Disperses tension across repair site²⁶
- Moves suture inflammation away from coaptation face^{27, 28}

Remodels into vascularized patient tissue^{28, 29, 30, 31, 32}

14 size options in lengths of 10mm and 15mm, and diameters up to 7mm

These highlights do not include all the information needed to use **Axoguard Nerve Connector**® safely and effectively. See full instructions for use (IFU) for **Axoguard Nerve Connector**®



Traditional COMPRESSION repair options are suboptimal

VEIN WRAPPING

Autologous vein

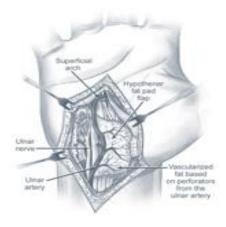
- Barrier to attachment to surrounding tissue
- Requires extra time and skill to perform spiral wrapping technique
- Second surgery site



HYPOTHENAR FAT PAD

Autologous vascularized flap

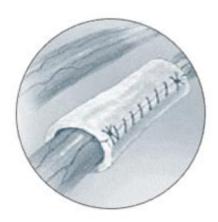
- Barrier to attachment to surrounding tissue
- Only wraps part of the nerve circumference
- Increases procedure time



COLLAGEN WRAPS

Off-the-shelf

- Semi-rigid material limits use
- Degrades over time and does not provide a lasting barrier to soft tissue attachment





Axogen solutions for COMPRESSION repair



Minimally processed porcine extracellular matrix for wrapping and protecting injured peripheral nerve

Protects repair site from surrounding tissue

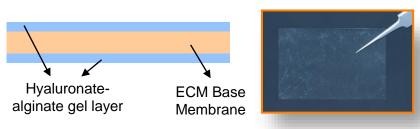
- Processing results in an implant that works with the body's natural healing process³³
- Minimizes soft tissue attachments³⁴

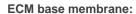
Allows nerve gliding

- Minimizes risk of entrapment³⁴
- Creates a barrier between repair and surrounding tissue bed³⁴
- ECM revascularizes and remodels into patient's own tissue^{29,35}

These highlights do not include all the information needed to use Axoguard Nerve Protector® safely and effectively. See full instructions for use (IFU) for Axoguard Nerve Protector®







- Processed porcine submucosa extracellular matrix (ECM) base layer
- · Vascularizes and remodels to form a new long-term protective tissue layer

Minimally processed porcine extracellular matrix with hyaluronate-alginate gel layer

Lubrication layer:

- Protects nerve in the early critical phase of healing
- Enhance nerve gliding for nerve protection applications where nerve mobility is critical and aids in minimizing soft tissue attachments

Handling characteristics:

- Flat sheet design that easily conforms to tissue
- Coverage of more anatomical locations

Launched August 2023

These highlights do not include all the information needed to use Axoguard HA+ Nerve Protector™ safely and effectively. See full instructions for use (IFU) for Axoguard HA+ Nerve Protector™



Traditional STUMP NEUROMA options are suboptimal

TRACTION NEURECTOMY

Nerve placed in traction and cut to allow for retraction

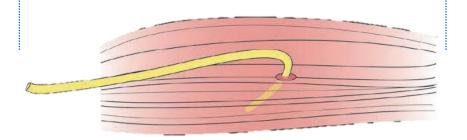
- Simply resecting the nerve results in subsequent neuroma formation and risk of secondary surgery
- Causes traction injury
- High risk of recurrence³⁶



BURYING IN MUSCLE/BONE

Traditional method of neurectomy and neuromyodesis

- Simply resecting the nerve results in subsequent neuroma formation and risk of secondary surgery
- Pain due to muscular contraction or localized pressure
- Larger surgical dissection
- Only 33-40% of patients were satisfied with treatment after burial into bone or muscle ^{37, 38, 39}



INJECTIONS

Pharmacologic intervention, typically alcohol or steroids^{40, 41, 42, 43, 44, 45}

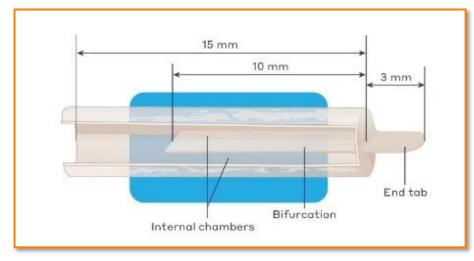
- Chemical injections are only successful 40% of the time ^{43, 44}
- Temporary solution that has a reduced benefit over time
- May cause considerable side effects





Axogen solution for STUMP NEUROMA





Large Diameter Nerve Cap launched in February 2024. 3 larger sizes for larger diameter nerves. Expands addressable procedures in upper and lower extremity.

Proprietary small intestine submucosa (SIS) matrix designed to separate the nerve end from the surrounding environment to protect it from mechanical stimulation and reduce painful neuroma formation*.

Protects and isolates

- Reduces the development of symptomatic or painful neuroma formation
- Provides a barrier from neurotrophic factors and mechanical stimulation

SIS Material allows for vascularization and gradual remodeling (as shown in animal studies)^{46, 47}

 Material gradually incorporates into patient's own tissue, creating a physical barrier to surrounding soft tissue

Intra-operative versatility

- Ideal for anatomic areas with limited or no musculature
- Alternative to historical techniques such as burying in muscle or bone
- Available in a variety of diameters



Avance Patents and Regulatory Landscape

Avance nerve graft

Avance nerve graft is processed and distributed in accordance with US FDA requirements for Human Cellular and Tissue-based Products (HCT/P)

Axogen's nerve graft-related IP

Issued U.S. Patents (additional patents pending)

7,732,200 7,402,319 7,851,447 8,758,794 9,597,429 9,572,911 9,690,975 9,996,729 10,311,281 10,783,349 11,156,595 11,513,039 11,523,606

New (non-biosimilar) competitive BLA product estimated 8 years

Axogen has Enforcement
Discretion from FDA allowing
continued sales under
controls applicable to HCT/Ps
with agreed transition plan to
regulation as a Biological
Product under a Biologic
License Application (BLA) if
approved. Axogen expects to
complete the rolling
submission for the BLA in
the third quarter of 2024

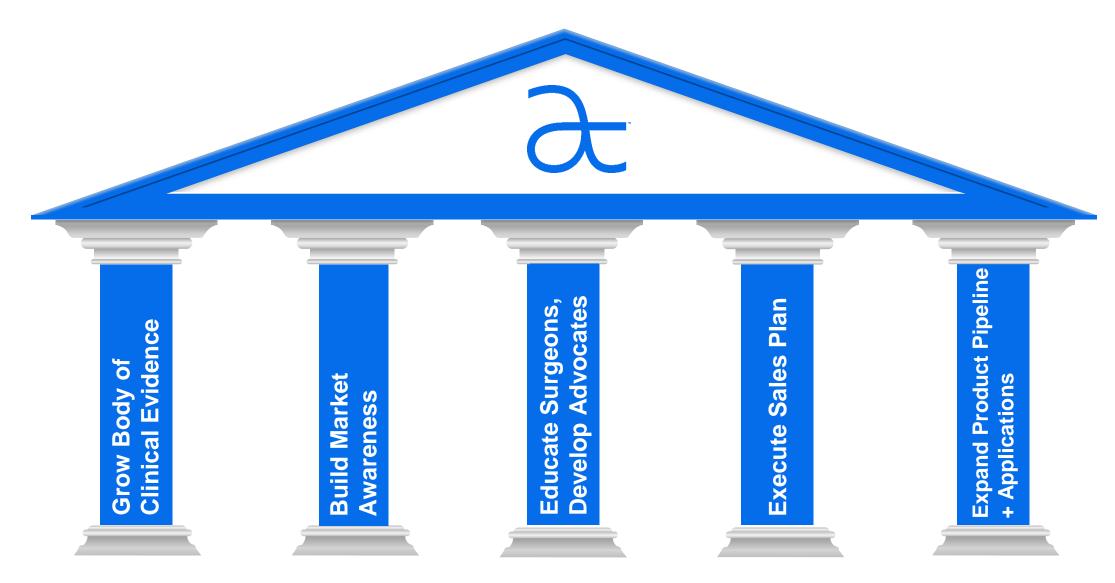
A new (non-biosimilar) competitive processed nerve allograft, we believe, would need to complete clinical testing and obtain BLA approval prior to clinical release, and it would likely require at least 8 years to achieve this.

Protection from biosimilars using Avance as the reference application –at least 12 years from Avance BLA approval

Avance expected to be the reference product for the category of processed nerve allograft



Market development strategy





Strong commitment to developing clinical evidence



RANGER® Registry Study: Enrollment Complete

- Multi-center clinical study in PNR with >2,700 enrolled to date
- Overall meaningful recovery rates of 82-84%; comparable to autograft

MATCH® Registry Study: Enrollment Complete

Avance compared to matched cohort of autograft and synthetic conduits

Sensation-NOW® Registry Study: Enrollment Ongoing

Multi-center clinical study in breast neurotization

REPOSE®: Top line Data Read Out Complete

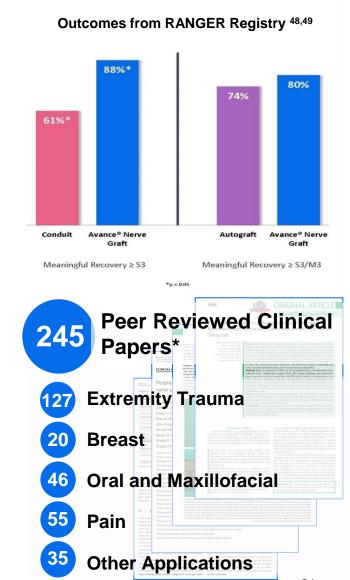
Prospective, randomized, controlled study of Axoguard Nerve Cap[®] vs neurectomy

REPOSE-XLSM: Pilot Study Enrollment Ongoing

 Pilot study evaluating the feasibility of large-diameter Axoguard Nerve Cap[®] for protecting and preserving terminated nerve ends after trauma or amputation

COVEREDSM: Now Enrolling

Prospective, multi-center clinical case series evaluating Axoguard
 HA+ Nerve Protector™ in first revision cubital tunnel decompression





RECON[®]: A Multicenter, Prospective, Randomized, Subject & Evaluator Blinded Comparative Study of Nerve Cuffs & Avance Nerve Graft Evaluating Recovery Outcomes for the Repair of Nerve Discontinuities





Safety & efficacy noninferiority comparison of Avance vs conduit



Evaluated upper extremity digital nerve repair for nerve gaps 5-25mm



220 subjects from up to 25 U.S. centers stratified into gap lengths with two-thirds in the 5-14mm group and one-third in the 15-25mm group



RECON Study Topline Results^{1,2}

Primary Endpoint Achieved

- This phase three pivotal study met its primary endpoint for the return of sensory function as measured by static two-point discrimination, and the safety profile was consistent with previously published data
- The data will support the company's rolling Biologics License Application (BLA) which we expect to be completed in Q3 2024

Statistical superiority demonstrated at increasing gap lengths

- Avance demonstrated statistical superiority for return of sensory function (measured by static two-point discrimination) as compared to conduits in gaps greater than 12 mm (p-value 0.021).
- ✓ Avance demonstrated statistical superiority for time to recovery of static two-point discrimination as compared to conduits, returning normal sensation* up to 3 months earlier in gaps greater than 10 mm (p-value 0.037).

The safety profile was consistent with previously published data

✓ Conduit repairs were observed to have an increased likelihood of persistent and unresolved nerve pain with an incidence of 9 (8%) conduit subjects as compared to 2 (2%) Avance subjects.

^{*}Normal Sensation is defined by the Medical Research Council Classification (MRCC) score as S4 or return of static two-point discrimination outcomes of ≤ 6mm.

¹Axogen Data on File;



REPOSE Study Top Line Results

Primary Endpoint Achieved

REPOSE met primary endpoint of non-inferiority between the Month 12 pain visual analog scale scores for neurectomy with Axoguard Nerve Cap vs. standard-of-care neurectomy alone (p-value <0.05).

Statistical superiority demonstrated in Reduction of Total Pain

✓ Axoguard Nerve Cap demonstrated statistical superiority vs. standard-of-care neurectomy in the Reduction of Total Pain reported by participants over the full 12-month course of follow-up (p-value <0.05)</p>

REPOSE is a post-market, randomized, comparative clinical study of standard-of-care neurectomy and standard-of-care neurectomy followed by reconstruction of the nerve end with Axoguard Nerve Cap, evaluating recovery outcomes for the treatment of symptomatic neuroma.

Study Details:

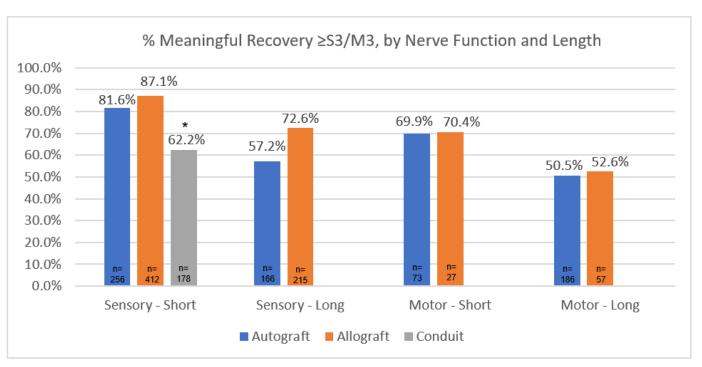
- Multicenter, prospective, randomized, subject blinded trial
- 86 randomized participants
- 12-month follow-up
- Pain, medication, Quality of Life questionnaires, recurrence of neuroma endpoints



Independent Publication of Nerve Meta-Analysis Provides the Strongest Clinical and Economic Evidence To-Date of the Performance of Avance® Nerve Graft Across All Gap Lengths and Nerve Types

"Lans et al., A systematic review and meta-analysis of nerve gap repair: Comparative effectiveness of allografts, autografts, and conduits" – *Journal of Plastic and Reconstructive Surgery*⁵⁷

- Analyzed 35 peer-reviewed studies with 711 allograft, 670 autograft, and 178 conduit repairs, over four decades.
- There were no statistical differences between allograft and autograft outcomes over all gap lengths for both sensory and motor nerve repairs.
- Allograft and autograft repairs delivered significantly better rates of meaningful sensory recovery in short gaps as compared to conduit repairs; 87.1% and 81.6% vs. 62.2%, respectively, p<0.05.
- The cost analysis found that allograft does not represent an increased economic burden compared to autograft.



^{*}statistically significant difference



Procedure Costs of Peripheral Nerve Graft Reconstruction

Raizman et al. PRS Global Open⁵⁸



 Retrospective study of U.S. all-payer data on facility procedure costs from 2018 to 2020.
 Included over 1,300 nerve repairs.

Conclusions:

- No significant differences in procedure costs for autograft and allograft repair in either inpatient or outpatient setting.
- OR time was *significantly shorter* for allograft repairs, in both outpatient and inpatient settings.

Procedure Costs of Nerve Repair

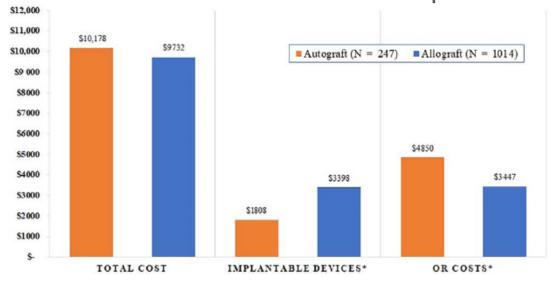


Fig. 2. Outpatient descriptive costs of nerve graft repair type (n = 1261).

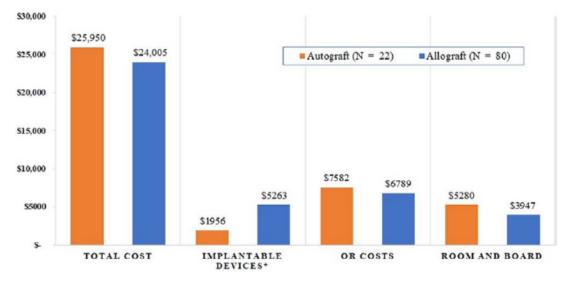


Fig. 3. Inpatient descriptive costs of nerve repair graft type (n = 102).



Focus on building awareness among clinicians and patients



- Increasing omnichannel engagement with clinicians and patients
- Continuing clinical conference participation both virtually and in-person as appropriate
- Ongoing patient ambassador program
- Garnering positive media attention
- Growing social media presence







Knowledge is power: continued education and advocacy efforts with patients, clinicians and key legislators elevates the problems associated with numbness.



Emphasis on education

Educate Surgeons, Develop Advocates

- In-person and virtual national education programs
- Customized multimodal learning programs to specific surgeon groups for advanced learning
- Ongoing interactive webinar series covering the principles of nerve repair
- Emphasis on training hand and microsurgery fellows





Axogen Innovation Lab

Taking you beyond the technology

Journey inside the nerve

and see how science is

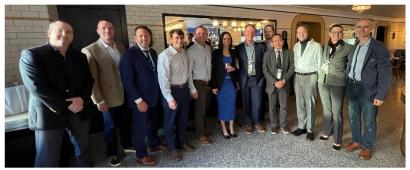
improving peripheral







masterminds of nerve





Focused sales execution, increasing market penetration



Sales execution focused on driving results

- Continue driving penetration in Core Accounts
- Approximately 5,100 potential U.S. accounts perform nerve repair
- 376 Core Accounts as of December 31, 2023
- Core Accounts represents approximately 65% of total revenue.

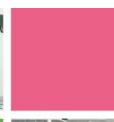
Broad sales reach

- U.S. direct sales team
 - 116 direct sales professionals at the end of Q4 2023
- Supplemented by independent agencies
- Revenue from direct sales channel represented approximately 90% of total revenue



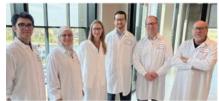






















amplified impact

2022 environmental, social, and governance report

Committed to our patients, the communities we serve, and our pursuit of advancing the science of nerve repair in ethical and sustainable ways

Sustainability **Business** People

Diversity, Equity, and Inclusion - Being the Company where exceptional people want to work

Cybersecurity – Data Privacy, Training, and Policies

Compliance – Quality Management System, Regulatory, and Good Manufacturing Practices

Governance – Framework for Ethics Codes and Accountability

Environment – Responsible, Sustainable Operations





Executive team



Karen Zaderej Chairman, CEO, and President J&J (Ethicon)



Marc Began
Executive Vice President, General Counsel
Abiomed, Boehringer Ingelheim, Novo Nordisk



Nir Naor Chief Financial Officer Arbor Pharmaceuticals, Mölnlycke Healthcare, UCB



Angelo Scopelianos, Ph.D. Chief Research and Development Officer J&J



Erick DeVinney Chief Innovation Officer Angiotech, PRA Intl



Jens Schroeder Kemp Chief Marketing Officer Ambu. Pera International



Ivica Ducic, M.D., Ph.D. Chief Medical Officer Washington Nerve Institute



Angela Nelson
Vice President, Regulatory Affairs MBA, RAC(GS)
PPD part of Thermo Fisher Scientific, Cardinal Health,
UMKC School of Medicine



Mike Donovan VP, Operations



Stacy Arnold
VP, Product Development and Clinical
Research
Artivion (CryoLife)



Al Jacks Vice President, Quality Assurance VERO Biotech. Alimera Sciences

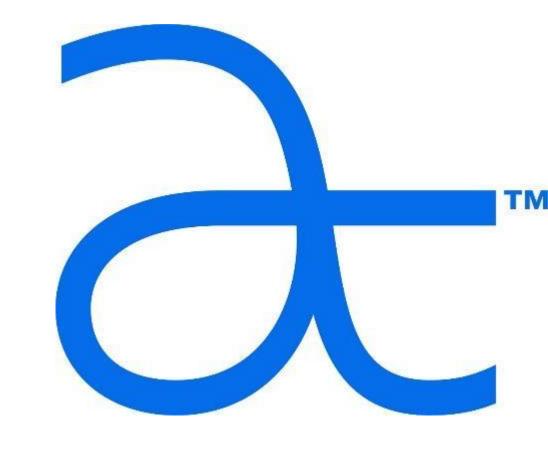


Doris Quackenbush VP, Sales Convatec



Appendix

- Key clinical data
- Historical core and active accounts
- CMS outpatient and ASC reimbursement rates
- Total addressable market
- Cash, debt, and capital structure
- Axogen product portfolio and indications for use

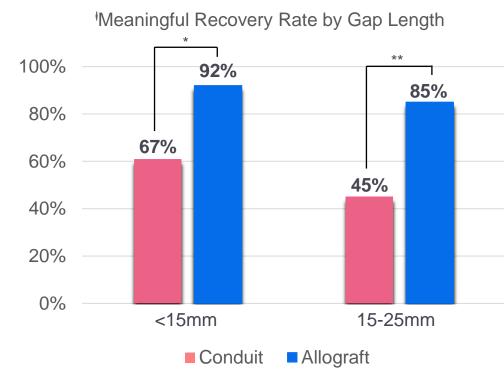




Avance nerve graft repairs found to be significantly better than conduit repairs

"Leversedge et al., A Multicenter Matched Cohort Study of Processed Nerve Allograft and Conduit in Digital Nerve Reconstruction" – *Journal of Hand Surgery, September 2020*⁴⁸

- Peer-reviewed publication from the MATCH cohort of the RANGER Registry
- Includes outcomes from 110 subjects with 162 nerve injuries;
 113 were repaired with Avance nerve graft and 49 were repaired with manufactured conduit
- Findings show overall meaningful recovery rate was 88% for Avance nerve graft and 61% for conduit (p=0.001) for gaps up to 25mm
- Average static two-point discrimination improved to 9.7mm for Avance nerve graft as compared to 12.2mm for conduit (p=0.018)
 - · Note: lower measurement is reflective of improved discrimination and a better outcome
- As gap length increased, Avance nerve graft outcome rates remained consistent while conduit rates declined significantly

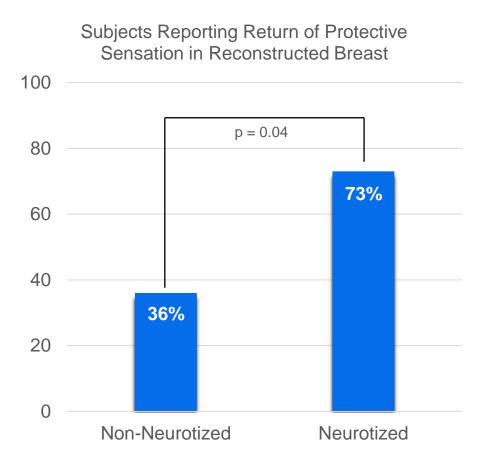


[†]Meaningful Recovery = ≥S3 on the MRCC Scale *p=0.008, **p=0.001



First publication on breast neurotization outcomes with Avance Nerve Graft demonstrated greater return of protective sensation

"Momeni et al., Flap Neurotization in Breast Reconstruction with Nerve Allografts: 1-year Clinical Outcomes" – *Plastic and Reconstructive Microsurgery Global Open, January* 2021⁶⁰



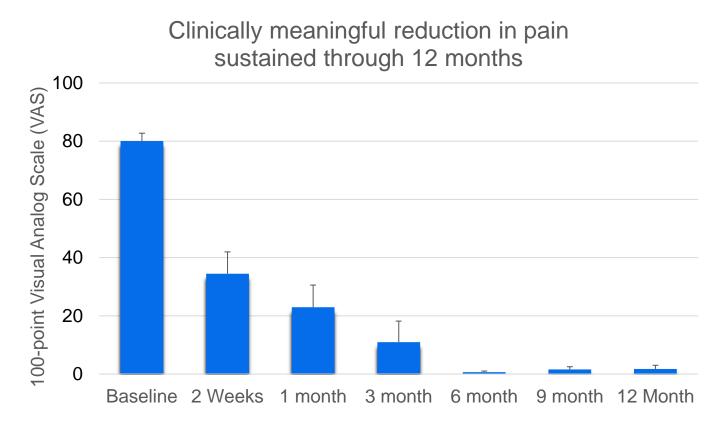
- Early outcomes from a single center study, as part of the Sensation-NOW[®] registry
- 36 breast reconstructions that included:
 - 22 breast reconstructions with Resensation®
 - 14 standard non-neurotized breast reconstructions
- Return of Protective Sensation (p=0.04)
 - 73% of the Resensation group
 - 36% of the non-neurotized group
- Neurotization with Avance Nerve Graft resulted in greater return of sensation and return of sensation in more of the breast as compared to standard reconstruction without nerve repair.



Axogen sponsored REPOSESM pilot study analysis demonstrates clinically significant improvement for subjects with chronic neuropathic pain when using Axoguard Nerve Cap[®] following neurectomy⁶¹

15-subject, single arm pilot phase evaluating reduction in pain from baseline following surgical excision of the neuroma and placement of the Axoguard Nerve Cap

- Significant & clinically meaningful reduction in pain
- Significant and clinically meaningful improvements in Fatigue, Physical Function, Sleep Disturbance, Pain Interference, Pain Intensity, and Pain Behavior as measured by the validated PROMIS® measures
- Positive indicators for reduction in pain medication burden, including opioids
- No recurrence of neuroma



Minimal Clinically Important Difference (MCID): 17mm

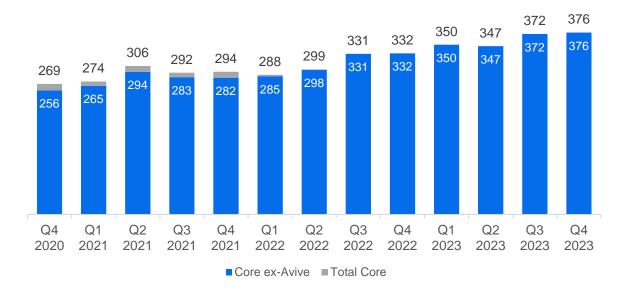
 Δ 3 months: -69 ± 23; p < 0.0001 Δ 12 months: -80 ± 13; p < 0.0001



Historical Core and Active Accounts

Core Accounts

≥\$100,000 revenue in the last 12 months

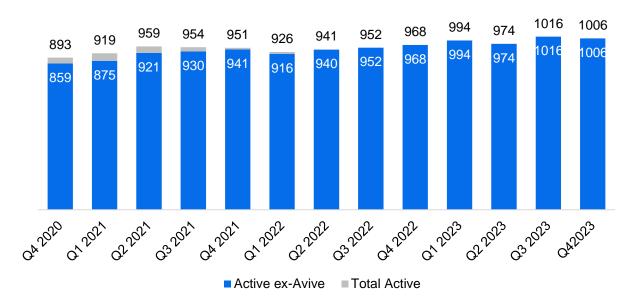


	Q420	Q121	Q221	Q321	Q421	Q122	Q222	Q322	Q422	Q123	Q223	Q323	Q423
Core Acccounts	269	274	306	292	294	288	299	331	332	350	347	372	376
*Adjusted Core Accounts	256	265	294	283	282	285	298	331	332	350	347	372	376

Core Accounts represents ~65% of revenue and grew 13.3% vs the prior year.

Active Accounts

6 orders in the last 12 months



	Q420	Q121	Q221	Q321	Q421	Q122	Q222	Q322	Q422	Q123	Q223	Q323	Q423	
Active Accounts	893	919	959	954	951	926	941	952	968	994	974	1016	1006	
*Adjusted Active Acctount	859	875	921	930	941	923	940	952	968	994	974	1016	1006	

revolutionizing the science of nerve repair®

^{*} Axogen voluntarily suspended market availability of Avive® Soft Tissue Membrane on June 1, 2021. Active and Core Account metrics are Adjusted for 37 past Avive revenue.

2024 Center for Medicare and Medicaid Services (CMS) *Final* outpatient reimbursement rates - hospital and ASC

Although CMS rates¹ only apply to Medicare cases, which represents a small percentage of traumatic injuries, private payors are often influenced by the analysis and decisions made by CMS

CPT Code	Descriptor	C-APC	Hospital Outpatient (HOPD) Ambulatory					Ambulatory Surg	gery Center (ASC)	
CPT Code	Descriptor		2019	2023	2024	5Y % Change	2019	2023	2024	5Y % Change
64912	Nerve allograft repair ²	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$4,057	\$4,583	138.69%
64910	Conduit or vein allograft repair ²	5432	\$4,566	\$6,179	\$6,354	39.15%	\$2,613	\$3,805	\$4,291	64.21%
64885	Autograft repair (head and neck ≤4cm)³	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$2,632	\$4,499	134.33%
64886	Autograft repair (head and neck >4cm) ⁶	5432	\$4,566	\$6,179	\$6,354	39.15%	\$3,127	\$4,375	\$3,013	-3.65%
64890	Autograft repair (hand and foot ≤4cm) ³	5432	\$4,566	\$6,179	\$6,354	39.15%	\$3,075	\$2,602	\$4,586	49.14%
64891	Autograft repair (hand and foot >4cm) ²	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$3,383	\$3,796	97.71%
64892	Autograft repair (arm and leg ≤4cm)²	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$3,383	\$4,619	140.59%
64893	Autograft repair (arm and leg >4cm) ²	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$3,383	\$4,681	143.79%
64897	Autograft repair (arm and leg ≤4cm multiple strands) ³	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$3,660	\$4,085	112.78%
64895-96,98	Autograft repair (all other nerve type) 5	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$2,632	\$3,013	56.92%
	Direct Repair (other hand / foot, arm/leg, repair / transpose, facial, low back,) ⁵	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$2,632	\$3,013	56.92%
64865	Direct Repair of facial nerve ²	5432	\$4,566	\$6,179	\$6,354	39.15%	\$1,920	\$3,383	\$3,796	97.71%
64831, 61	Direct Repair (digital, brachial plexus/arm) 4	5431	\$4,566	\$ 1,798	\$1,842	-59.67%	\$1,920	\$854	\$898	-53.24%
64858	Direct Repair (sciatic) ²	5431	\$4,566	\$ 1,798	\$1,842	-59.67%	\$1,920	\$1,481	\$1,498	-21.98%

- 1. National average payment rates. Commercial payments are traditionally 1.5-2x higher than Medicare.
- 2. Nerve allograft repair CPT 64912, conduit repair CPT 64910, autograft repairs hand/foot >4cm CPT 64891, arm/leg≤4cm CPT 64892, arm and leg >4cm CPT 64893, repair arm/leg ≤4cm multiple strands CPT 64897. direct repair of facial nerve CPT 64865 remain in C-APC 5432 and direct repair sciatic CPT 64858 remains in C-APC 5431 and all continue to meet ASC device intensive criteria
- 3. Autograft repair head/neck ≤4cm CPT 64885, hand and foot ≤4cm 64890 remains in C-APC 5432 and meets ASC device intensive criteria in 2024
- 4. Direct repair digital and brachial plexus/arm CPT codes 64831 and 64861 remain in C-APC 5431 and do not meet ASC device intensive criteria.
- Autograft repair all other nerve type CPT 64895-96,98 and Direct repair other hand/foot CPT 64834-36, leg CPT 64840, repair/transpose CPT 64856, arm/leg CPT 64857, low back CPT 64862-64 remain in C-APC 5432 and do not meet ASC device intensive criteria

Autograft repair head/neck >4cm CPT 64886 remains in C-APC 5432 no longer meets ASC device intensive criteria in 2024

38

2024 CMS: *Final* Physician Fee Schedule (PFS)

CPT Codes3	Dossvintor	Physician Fee Schedule (PFS)					
CPT Codess	Descriptor	2019	2023	2024	5Y % Change		
64912	Nerve allograft repair	\$804	\$908	\$883	9.78%		
64910	Conduit or vein allograft repair	\$825	\$772	\$752	-8.80%		
64885 to 64898*	Autograft repair	\$1,096 to \$1,495	\$1,065 to \$1,444	\$1,035 to \$1,404	-5.54% to -6.12%		
64831 to 64861*	Direct Repair	\$713 to \$1,604	\$708 to \$1,560	\$689 to \$1,522	-3.34% to -5.11%		

^{*}excludes add-on procedure codes



Emergent trauma cases generally result from injuries that initially present in an ER

Emergent Procedures:

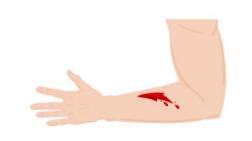
- Significant number of nerve injuries typically referred to and completed by a specialist either immediately or within a few days following the injury with limited post op follow-up evaluations
- Emergent and diverse nature of injuries result in variable patient pathways from ER to nerve repair specialist and diverse repair algorithms
- Specialist surgeons typically perform nerve repair as a minor portion of their overall practice
- Opportunity to drive care pathways with surgeon education supported by clinical and economic data
- Opportunity to shift site of care for routine traumatic injuries to more cost-efficient settings (ASC)

Emergent Trauma Procedure Examples



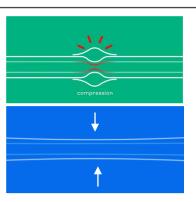
Transected sensory nerves

Digital nerve injury after sharp lacerations e.g., a knife slipping when cutting an avocado, glass injuries



Transected mixed/motor nerves

More complex trauma injuries e.g., circular saw injury to hand and wrist resulting in ulnar and median nerve damage



Non-transected nerve injury

Trauma induced compression and stretch injuries e.g., peroneal nerve compression at the fibular head after knee dislocation, shoulder trauma causing stretching of the brachial plexus

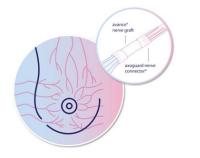


Scheduled procedures involve a patient seeking relief of a condition caused by a nerve defect or surgical procedure

Scheduled Procedures:

- Patients seeking a scheduled procedure weeks or months in advance allows patients to advocate for solutions that may improve quality of life outcomes
- Procedures lend themselves to standardized surgical techniques and more consistent repair algorithms, and extended follow-up evaluations
- Completed in specialist centers at regular intervals, typically in existing core accounts
- Concentrated group of surgeon specialists allow for more focused surgeon training and adoption
- Typically involve a higher value of Axogen products per procedure

Scheduled Procedure Examples



Breast reconstruction

Neurotization of the breast and/or nipple areolar complex may be possible in many delayed or immediate breast reconstruction settings.



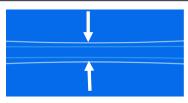
Mandibular reconstruction

Reconstruction of the inferior alveolar nerve with ablation of the mandible



Neuroma repair

Symptomatic neuroma resection with nerve reconstruction



Cubital and carpal tunnel revisions



Estimated Trauma total addressable market

Patient Population ^(a)	Source	Adjustments and Rationale
136,943,000 Annual emergency department visits in the U.S.	2015 National Hospital Ambulatory Medical Care Survey (Table 1)	
30,238,000 Annual emergency department visits <u>due to injury</u> in the U.S.	2015 National Hospital Ambulatory Medical Care Survey (Table 18)	Adjusted from 38,959,000 to exclude 8,721,000 injuries that are unlikely to include a nerve injury (i.e., mental disorders, skin conditions, etc.)
4.76% Percentage of emergency department visits with nerve injury	Noble, et al: J Trauma, Volume 45(1) July 1998.116-122	 2.8% rate cited in Noble, et al study excluded 113 patients coded with nerve injuries outside of the study scope, but that are in the Axogen scope of nerve repair (brachial plexus and digital nerve injuries). Including these injuries increases the rate to 4.76%.
1,440,000 Annual emergency department visits with nerve injury in the U.S. 46.2% Percentage of ED nerve injuries estimated to be treated surgically ~665,000 Annual ED visits with nerve injury estimated to be treated surgically in the U.S., excluding revisions	Noble, et al: J Trauma, Volume 45(1) July 1998.116-122	Calculated rate based on various rates in <i>Noble et al</i> study for upper and lower extremity and an estimate for other trauma nerves.

a) Patient population figures rounded to the nearest thousandth.



Trauma total addressable market (continued)

Patient Population ^(a)	Source	Adjustments and Rationale
~665,000 Annual emergency department visits with nerve injury that can be treated surgically in the U.S., excluding revisions 7.4% Revision cases	See calculation on previous slide Portincasa et al: Microsurgery 27:455-462, 2007	Portincasa et al suggests that a revision procedure was necessary in 7.4% of the patients within 6 months of the initial surgery.
714,000 Annual emergency department visits with nerve injury that can be treated surgically in the U.S., including revisions ~700,000 Company estimate of trauma total addressable market		

a) Patient population figures rounded to the nearest thousandth.



Estimated \$2.7B value of market opportunity in existing applications

	Projected Incidence ^(a)	Weighted Average Procedure Value	Estimated Total Addressable Market
Trauma	700,000 100%	\$2,715	\$1,900M ^{100%}
Transection injuries >5mm (b)	203,000 29%	\$5,515	\$1,120M 59%
Transection injuries <5mm	198,000 29%	\$1,200	\$238M 12%
Non-Transected Injuries (c)	293,000 42%	\$1,825	\$535M 28%
Carpal and Cubital Tunnel Protection	130,000	\$2,100	\$270M
Oral and Maxillo-Facial (OMF)	56,000	\$5,400	\$300M
Breast Reconstruction Neurotization	24,500 flaps (15,000 patients)	\$10,200	\$250M
Totals	>900,000 (potential)		>\$2.7B

a) Estimated Annual incidence of PNI surgery are figures rounded to the nearest thousandth except for Breast Reconstruction Neurotization (rounded to nearest hundredth).

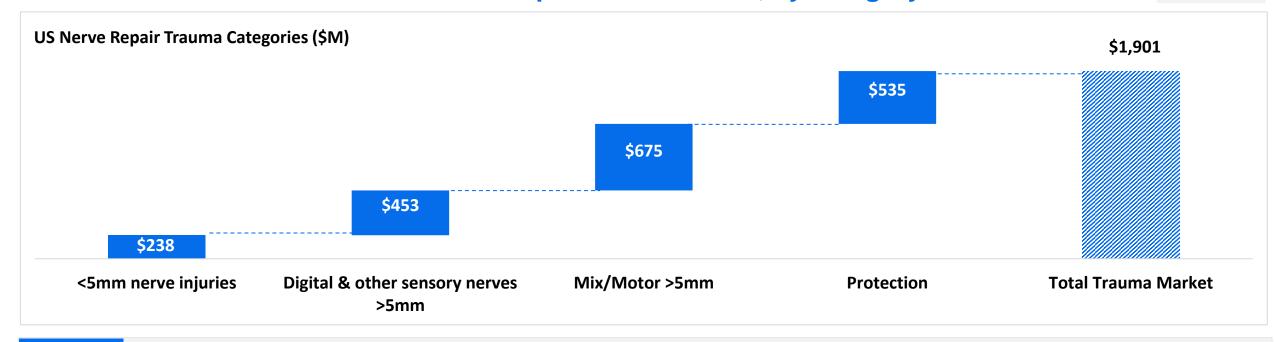
c) Protection includes non-transected compression and crush injuries including protection from surrounding soft tissue attachments.



b) Transection injuries > 5mm assumes a factor of 1.22 nerve repairs per procedures, and utilization of the Axogen portfolio of products, based upon data observed in the RANGER® registry.

We continue to see a significant growth opportunity in the trauma market as we leverage new clinical & health economic data and product launches, by category





Category

Short gap transected nerve injuries



■ Digital Sensory 5-25mm



Digital Sensory >25mm



transected nerve injuries



Trends and Growth Levers

- Routine trauma moving to ASCs and lower cost sites of care
- Education and awareness of proper nerve repair technique
- Improve procedure awareness and scheduling across all care settings
- Private payer adoption of improved CMS reimbursement guidelines
- Routine trauma moving to ASCs and lower cost settings
- Education and awareness of proper nerve repair technique
- New Clinical data from Recon/Metaanalysis
- All Payor Procedural Cost analysis
- Societal support for standard of care
- Improved private payer reimbursement
- Activating middle adopters

Mixed/Motor >25mm

Mixed/Motor 5-25mm

- Motor clinical outcome data from Metaanalysis
- Societal support for standard of care
- Prof ed on appropriate surgical technique & algorithm
- Improved private payer reimbursement
- Activating middle adopters

- New product launches of HA+ and Avive+ to address acute and chronic applications
- Increased awareness of Non-Transected Nerve Injuries

Protection from non

- Clinical evidence generation
- Professional education on appropriate surgical technique & algorithm
- Reimbursement coding and coverage

Axogen has, until now, focused primarily in digital and short gap but new evidence and product launches will open full peripheral nerve injury trauma market



Balance sheet and capital structure

Balance Sheet Highlights	December 31, 2023
Cash, Cash Equivalents, and Investments	\$37.0 million
Total Long-term Debt	\$50.0 million*

Capital Structure (shares)	December 31, 2023
Common Stock	43,124,496
Common Stock Options, RSUs, PSUs	7,964,885
Common Stock and Common Stock Equivalents	51,089,381

^{*} Total long-term debt includes debt proceeds under the terms of the agreement with Oberland Capital, does not include unamortized debt discount and deferred financing fees.



Axogen comprehensive portfolio of products

Avance® Nerve Graft

- Regulatory Classification: Avance Nerve Graft is processed and distributed in accordance with U.S. Food and Drug Administration (FDA) requirements for Human Cellular and Tissue-based Products (HCT/P) under 21 CFR Part 1271 regulations, U.S. State regulations and the guidelines of the American Association of Tissue Banks (AATB). Additionally, international regulations are followed as appropriate.
- Indication for Use: Avance Nerve Graft is processed nerve allograft (human) intended for the surgical repair of peripheral nerve discontinuities to support regeneration across the defect.
- Contraindications: Avance Nerve Graft is contraindicated for use in any patient in whom soft tissue implants are contraindicated. This includes any pathology that would limit the blood supply and compromise healing or evidence of a current infection.

Axoguard Nerve Connector®

- Regulatory Classifications: Class II Medical Devices 510(k) cleared, Class III Medical Devices, CE Marked (EU), Class 4 (CA)
- Indications for Use (US): The Axoguard Nerve Connector is indicated for the repair of peripheral nerve discontinuities where gap closure can be achieved by flexion of the extremity. The Axoguard Nerve Connector is supplied sterile and is intended for single use.
- This product is intended for use by trained medical professionals.
- Indications for Use (EU and UK): The Axoguard Nerve Connector is indicated for the repair of peripheral nerve discontinuities with gaps up to 5 mm. The Axoguard Nerve Connector is supplied sterile and is intended for single use.
- This product is intended for use by trained medical professionals.
- **Contraindications:** This device is derived from a porcine source and should not be used for patients with known sensitivity to porcine material. This device is not intended for use in vascular applications.

Axoguard Nerve Protector®

- Regulatory Classifications: Class II Medical Devices 510(k) cleared, Class III Medical Device, CE Marked (EU), Class 4 (CA)
- Indication for Use: Axoguard Nerve Protector is indicated for the repair of peripheral nerve injuries in which there is no gap. The Axoguard Nerve Connector is supplied sterile and is intended for single use.
- This product is intended for use by trained medical professionals.
- **Contraindications:** This device is derived from a porcine source and should not be used for patients with known sensitivity to porcine material. This device is not intended for use in vascular applications.



Axogen comprehensive portfolio of products (Cont'd)

Axoguard Nerve Cap®

- Regulatory Classification: Class II Medical Device 510(k) cleared
- Indications for Use: Axoguard Nerve Cap is indicated to protect a peripheral nerve end and to separate the nerve from the surrounding environment to reduce the development of symptomatic or painful neuroma.
- This product is intended for use by trained medical professionals.
- Contraindications: Axoguard Nerve Cap is derived from a porcine source and should not be used for patients with known sensitivity to porcine derived materials.

 Axoguard Nerve Cap is contraindicated for use in any patient for whom soft tissue implants are contraindicated; this includes any pathology that would limit the blood supply and compromise healing, or evidence of a current infection. Axoguard Nerve Cap should not be implanted directly under the skin. This device is not intended for use in vascular applications.

Axoguard HA+ Nerve Protector™

- Regulatory Classifications: Class II Medical Devices 510(k) cleared (K223640)
- Indication for Use: Axoguard HA+ Nerve Protector is indicated for the management of peripheral nerve injuries where there is no gap.
- This product is intended for use by trained medical professionals.
- Contraindications: Axoguard HA+ Nerve Protector base membrane is derived from a porcine source and the lubricant coating is composed of sodium hyaluronate and sodium alginate. The Axoguard HA+ Nerve Protector should not be used for patients with known sensitivity to porcine, alginate, or hyaluronate materials. This device is not intended for use in vascular applications.

Axoguard HA+ Nerve Protector™

- Regulatory Classifications: Class II Medical Devices 510(k) cleared (K231708)
- Indication for Use: Axoguard HA+ Nerve Protector is indicated for the management of peripheral nerve injuries where there is no gap, or following closure of the gap.
- This product is intended for use by trained medical professionals.
- Contraindications: Axoguard HA+ Nerve Protector base membrane is derived from a porcine source and the lubricant coating is composed of sodium hyaluronate and sodium alginate. The Axoguard HA+ Nerve Protector should not be used for patients with known sensitivity to porcine, alginate, or hyaluronate materials. This device is not intended for use in vascular applications.



Footnotes

Trauma Market Data:

- 1. National Hospital Ambulatory Medical Care Survey: 2015 Emergency Department Summary Tables Table 18. https://www.cdc.gov/nchs/data/nhamcs/web_tables/2015_ed_web_tables.pdf
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Carpal Tunnel Revisions & Cubital Tunnel Market Data

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Breast Neurotization Market Data, and Other Clinical References

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Footnotes

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