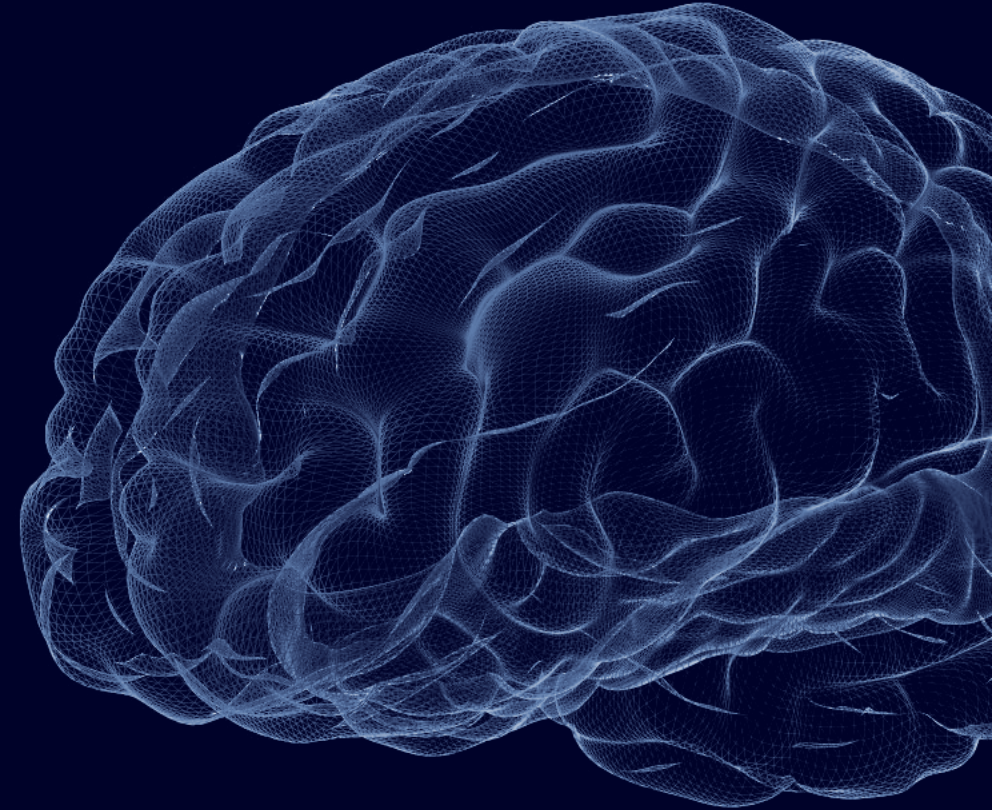




NeuroOne® Medical Technologies Corporation



NASDAQ: NMTC

July 6, 2021

Forward Looking Statements

This presentation includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Except for statements of historical fact, any information contained in this presentation may be a forward-looking statement that reflects NeuroOne Medical Technologies Corporation's (the "Company") current views about future events and are subject to known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements. In some cases, you can identify forward looking statements by the words "would," "should," "expect," "intend," "plan," "objective," "anticipate," "believe," "estimate," "predict," "project," "potential," "target," "seek," "contemplate," "continue" and "ongoing," or the negative of these terms, or other comparable terminology intended to identify statements about the future. Forward looking statements may include statements regarding the offering to which this presentation relates, the Company's business strategy, the Company's estimated revenues and revenue growth, existing or future market size, market demand, potential growth opportunities, the continuation of existing partnerships, the existence and strength of competition for the Company's technology, additional applications of the Company's technology, capital requirements, the potential receipt of DARPA or NIH grants, costs and risks related to the technology, anticipated advantages of the technology, the strength and growth of the Company's intellectual property portfolio, anticipated outcome of ongoing litigation, the timing of product development, the timing and results of clinical trials, the timing of regulatory submissions, the length of review of the Company's 510(k) submissions, the timing or occurrence of regulatory clearance or approvals, and the timing and success of commercialization of the Company's products. Although the Company believes that we have a reasonable basis for each forward-looking statement, we caution you that these statements are based on a combination of facts and factors currently known by us and our expectations of the future, about which we cannot be certain. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described under the heading "Risk Factors" in our filings with the U.S. Securities and Exchange Commission. These forward-looking statements speak only as of the date of this presentation and the Company undertakes no obligation to revise or update any forward-looking statements for any reason, even if new information becomes available in the future.

This presentation shall not constitute an offer to sell or the solicitation of an offer to buy nor shall there be any sale of these securities in any jurisdiction in which such offer, solicitation or sale would be unlawful.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market share and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates.

The trademarks included herein are the property of the owners thereof and are used for reference purposes only. Such use should not be construed as an endorsement of such products.

Caution: Federal law restricts this device to sale by or on the order of a physician

Corporate Summary

- Next generation electrode technology
 - Flexible thin film electrodes that are unique, differentiated, validated
 - Record, monitor and stimulate using same electrode
 - Minimally invasive technology leveraging printed circuitry
 - Reduced manufacturing costs and procedural costs
- FDA 510(k) clearance for Evo™ Cortical Electrode¹ in November 2019
- Mayo Clinic is our key development partner and shareholder
 - Conducted first in-human procedure in November 2020
- Zimmer Biomet (NYSE:ZBH, \$30B Mkt Cap) strategic partner
 - Currently marketing Evo Cortical Electrode
- Epilepsy first addressable market followed by spine and AI
- Experienced Management Team, Board of Directors and Advisors
- Strong and growing patent portfolio

Our Goal

Our goal is to be the global leader in cEEG and sEEG recording, deep brain stimulation and ablation, owning the procedure from diagnosis through treatment

Key Partnerships

MAYO CLINIC



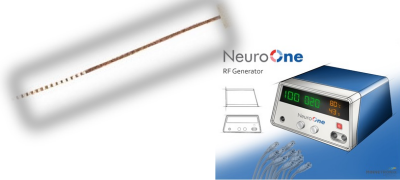



ZIMMER BIOMET

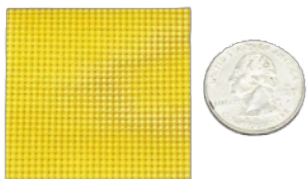
Most companies with current technologies are focused on software and hardware while neglecting electrode improvements.

- Legacy technology from 1960's
- Limited resolution
- Large, bulky
- Require multiple surgeries for tissue ablation
- Rely on manual labor
- High manufacturing costs
- Frequent backorders
- No US commercially approved electrodes have the scalability capability for artificial intelligence medical applications

Product Summary

Product	Name	Description	Status
	Evo™ Cortical Electrodes	A portfolio of hi-definition strip and grid thin film electrodes for recording brain activity - includes disposable cable assembly.	510(k) received; In-human use
	Evo™ sEEG Depth Electrodes	A portfolio of hi-definition thin film depth electrodes used for recording brain activity - includes disposable cable assembly.	510(k) expected 2021
	Ablation Electrodes	Proprietary sEEG electrodes combined with RF generator for precise ablation.	In development; Feasibility testing
	Electrodes for Chronic Use	Minimally invasive paddle and percutaneous electrodes, connected to implantable generators, developed for chronic use markets, including spinal cord stim. and deep brain stim.	In development; Testing underway, Concept phase

Evo™ Cortical Electrode



Greater Precision

The single substrate allows for lower impedance to improve signal quality. Contact size and shape of electrodes may be customizable per neurosurgeon's request.



Thin Film Design

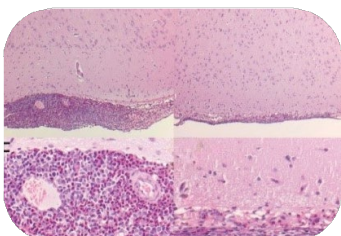
The thin film, flexible design provides new options for surgical placement. Single thin tail has less bulk while tunneling through the scalp and less incisions for possible infections.



Disposable Cables

Disposable cables eliminate the need to sterilize cables and saves the surgical staff time, allowing them to focus on other important tasks.

Disposable cables save the hospital resources by not having staff manage the sterilization of electrode cables.



Clinical Evidence

Study conducted by the Mayo Clinic found our electrodes created less tissue inflammation on the brain after being implanted for 7 days.¹

1. Bower R, et al. December 2017. Development of Polyimide electrodes for high-resolution intracranial EEG recordings. (Abst. 1.060) American Epilepsy Society. Washington, D.C.

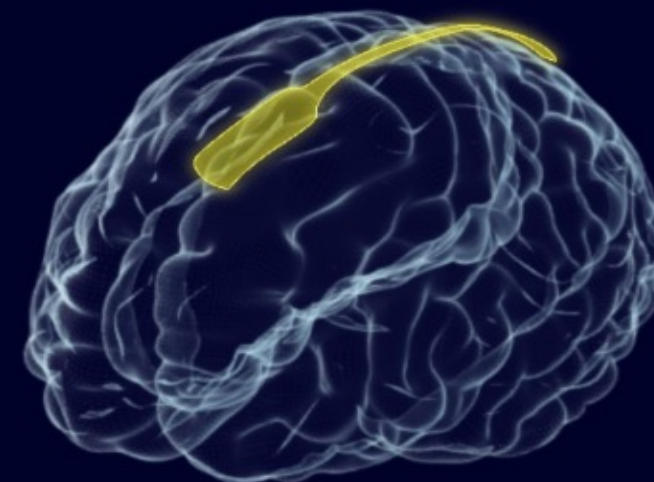
FDA 510(k) Clearance

Applications

- Epilepsy surgery
- Intraoperative mapping

Competitors

- Ad-Tech
- Integra
- PMT
- Cortec



Thin-Film Depth Electrode

NeuroOne Potential Advantages:

- Increase signal clarity / reduced noise.
- Better tactile feedback during insertion into brain tissue.
- Faster order fulfillment due to manufacturing process.

Not yet cleared by FDA

*NeuroOne Estimate



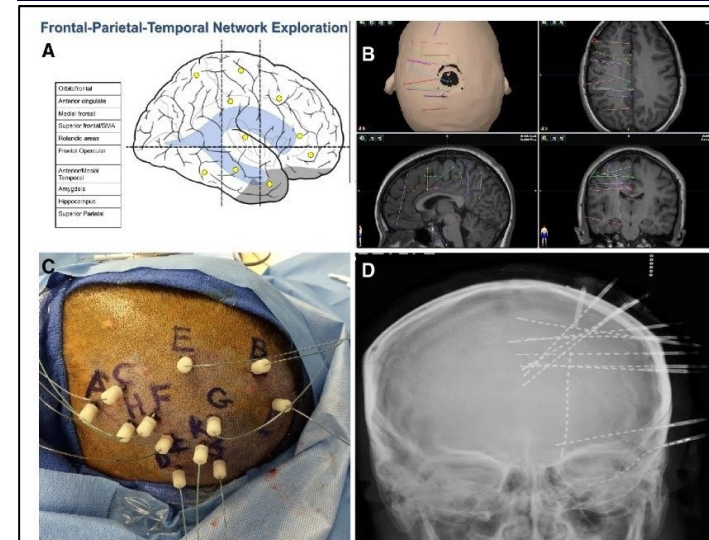
Market > \$100M WW*

Applications

- Epilepsy surgery
- Awake Brain Mapping Procedures

Competitors

- Ad-Tech
- Integra
- PMT
- DIXI



Mayo Clinic Partnership

- Mayo Clinic began testing technology in pre-clinical models and clinical research in 2015.
- Mayo Clinic leading neurologist, Dr. Worrell, chairs the NeuroOne Scientific Advisory Board.
- First commercial human use of Evo™ Cortical Electrodes performed at Mayo Clinic in November 2020.
- Mayo Clinic invested in NeuroOne in 2017.

Mayo Clinic Board Representation



Greg Worrell MD, PhD, Chairman of the Scientific Advisory Board

World renowned neurologist at Mayo Clinic. Recognized by the American Epilepsy Society (AES), the American Academy of Neurology (AAN), the American Neurological Association (ANA), and the Citizens United in Research for Epilepsy (CURE) Foundation for his contributions to the field of epilepsy research. Dr. Worrell is a frequent keynote speaker at neurology conferences and has published 90 papers.



Jamie Van Gompel, MD

Neurosurgeon practicing at Mayo Clinic, specializing in epilepsy surgery utilizing minimally invasive techniques. Since 2008, Dr. Van Gompel has authored or co-authored 87 papers on clinical outcome projects centered on neurological conditions. Dr. Van Gompel works collaboratively with colleagues from Mayo Clinic's Epilepsy and Neurophysiology lab, engaging in clinical work relative to brain stimulation as a viable restorative therapy for epilepsy over current treatment methodologies.



Mayo Clinic serves as a critical partner to NeuroOne and as a top shareholder of the Company

Zimmer Development Agreement

- Zimmer to exclusively develop and distribute NeuroOne's Evo™ electrode technology.
- Agreement July 2020, \$2 million upfront payment with additional milestones.
- Zimmer is a worldwide leader in robotic technology used in minimally invasive neurosurgeries.
- Evo™ electrode product line complementary to Zimmer's ROSA ONE® Brain platform.
- Partnership enables efficient deployment into the market.
- Allows NeuroOne to focus on development and pursue additional applications for technology.



Development and Distribution Agreement with Zimmer Biomet, one of the world's most highly respected medical device manufacturers

Platform Technology:

Diagnostic + Ablation Depth Electrode

Applications

- Remove brain tumors
- Remove lesions causing seizures

Competitors

- Medtronic
- Monteris Medical

NeuroOne Advantages vs Current Laser Technology:

- Leverages current NeuroOne's sEEG technology.
- One procedure for diagnostic and therapeutic expected to save time, money and intended to improve patient outcomes.
- May provide bedside treatment capability thereby saving significant time and cost.
- Uses well established RF energy to ablate tissue.
- Overcomes inherent laser drawbacks such as heat dissipation.



NeuroOne sEEG Electrode



Illustrative picture

RF Generator



Temperature Sensing

Deep Brain Stimulation System

NeuroOne Advantages:

- Utilizes sEEG depth electrode design
- Our high-definition electrodes have been shown to detect micro seizures¹ which may improve responsive stimulation algorithms
- Additional technology applications may be suitable for drug delivery
- Targeted stimulation for movement, psychiatric and cognitive disorders

1. Bower R, et al. December 2017. Development of Polyimide electrodes for high-resolution intracranial EEG recordings. (Abst. 1.060) American Epilepsy Society. Washington, D.C.

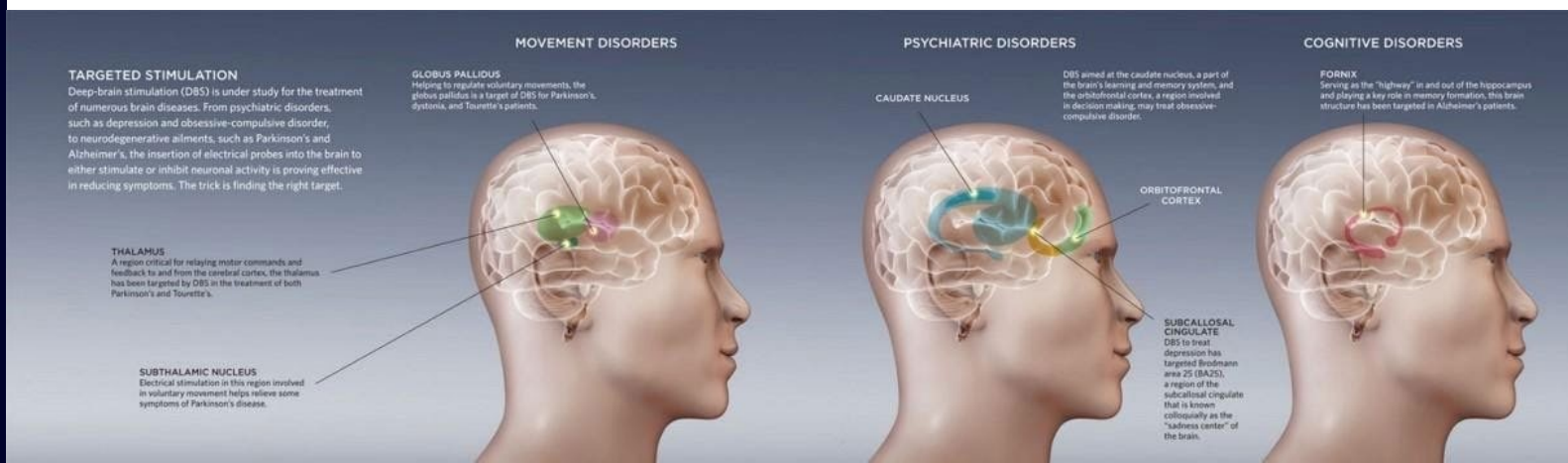
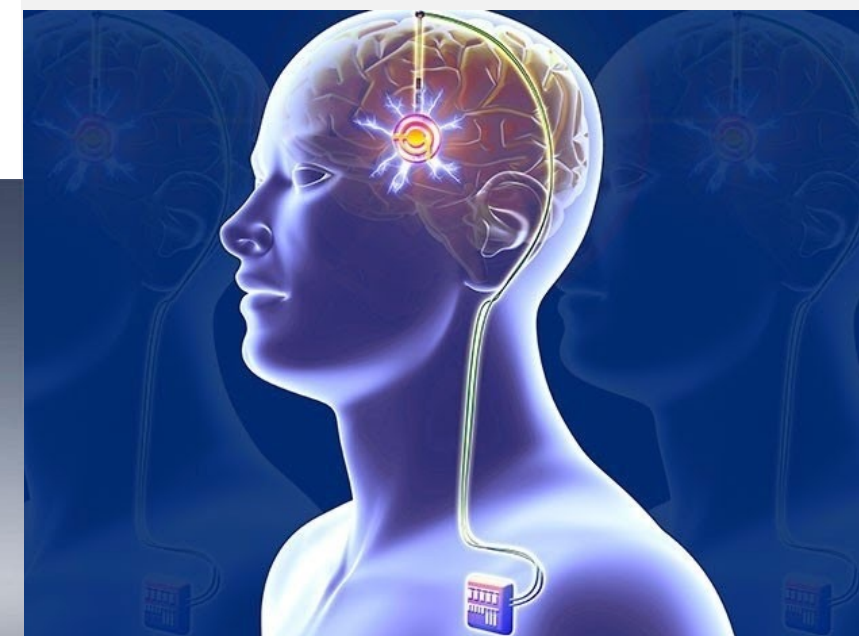
Currently a \$500M market with potential of \$6B

Applications

- Parkinson's Disease
- Epilepsy
- Essential Tremors

Competitors

- NeuroPace
- Medtronic
- Abbott
- Boston Scientific

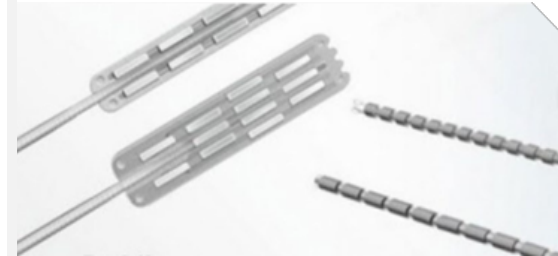


Spinal Cord Stimulation System

NeuroOne Advantages:

- Ability to place permanent electrodes percutaneously.
- Expandable midsection allows electrode to extend without displacement.
- “Scalability” of electrodes offer greater precision of targeted stimulation area.
- Design allows for use for trial period and permanent placement thereby reducing two procedures to one.

Market > \$2B WW



Competitive solutions

Paddle and cylinder electrodes which are placed via two different procedures.

Major vendors in this market include: Medtronic, Boston Scientific, Abbott.



NeuroOne's solution

A paddle implanted like a cylinder electrode so only one procedure is needed to implant the electrode.



Bridging the Gap

Artificial Intelligence (A.I.)

- Damaged neurons can cause a break in **neuron-to-neuron connectivity**: etiology for many neurological disorders.
- Successful treatments achieved by implanting small wires to **record and reintroduce** the natural signal back.
- Elon Musk and others have started companies to try to implant **millions of wires** in the brain.
- NeuroOne's high-definition thin film platform could allow for recording and stimulation of the neurons to bridge these gaps more effectively.
- NeuroOne technology is scalable allowing **thousands of contacts** to be implanted.
- NeuroOne Advisory Board of 7 leading A.I. thought leaders established.



Artificial Intelligence Board of Advisors

👤 Kip Ludwig, PhD

👤 Christin Welle, PhD

👤 Parag Patil, MD, PhD

👤 Douglas J Weber, PhD

👤 R Jacob Vogelstein, PhD

👤 Joost Wageenar, PhD

👤 Ayem M Salem, MD

Management Team



Dave Rosa

President and Chief Executive Officer

An entrepreneur with three decades of experience in the medical device industry spanning a variety of technologies and products. In addition to CEO roles with early-stage medical device companies, Mr. Rosa's background also includes senior roles with C.R. Bard Inc., Boston Scientific Inc., and St. Jude Medical, where his responsibilities included marketing, product development and business development. He has been named as an inventor on multiple medical device patents, has served on seven corporate boards, and has raised \$200M in the capital markets. Mr. Rosa holds an MBA from Duquesne University, and a BS in Commerce and Engineering from Drexel University.



Ron McClurg

Chief Financial Officer

Mr. McClurg has over 30 years of financial leadership experience with private and public companies. Prior to joining NeuroOne, Mr. McClurg was Chief Financial Officer of Incisive Surgical, Inc., a privately-held medical device manufacturer, and Chief Financial Officer and Treasurer of Wavecrest Corporation, a privately-held manufacturer of electronic test instruments. Mr. McClurg also served as Chief Financial Officer for several publicly-held companies, including Video Sentry Corporation, Insignia Systems, Inc., and Orthomet, Inc. He began his career in public accounting with Ernst & Young, where he earned his CPA certificate. He holds a Bachelor of Business Administration degree in Accounting from the University of Wisconsin - Eau Claire.



Steve Mertens

Chief Technology Officer

Prior to joining NeuroOne, Mr. Mertens was Sr. Vice President of R&D and Operations at Nuvaia, a privately held lung denervation company developing minimally invasive products for obstructive lung diseases. Before that, he was a Senior Vice President of Research and Development for Boston Scientific, where he guided a wide range of technologies through product development for the cardiology, electrophysiology, and peripheral vascular markets. Mr. Mertens holds a Bachelor of Science degree in Chemical Engineering from the University of Minnesota and a master's degree in Business Administration from the University of St. Thomas.



Mark Christianson

Co-Founder, Business Development Director, Medical Sales Liaison

In excess of 15 years of executive sales, sales management, marketing, and project management experience with development stage companies. Prior to NeuroOne, Mr. Christianson held the positions of North American Sales Manager for Cortec Corporation, a manufacturer of specialty chemical products, and Regional Sales Manager for PMT Corporation, a leading manufacturer of products for neurosurgery, orthopedics and plastic surgery. He holds an accounting degree from Augsburg College.



Hijaz Haris

Vice-President of Marketing

Mr. Haris has more than 20 years of experience with Medtronic, the world's largest Medical Device company. Most recently he led Global Marketing for Medtronic's Brain Modulation business, where he helped refresh the Deep Brain Stimulation product pipeline and led the business through a period of new competitive entries, new product launches, brand refresh, and various distribution partnerships. Prior to that Hijaz held various roles of increasing responsibility across multiple business segments (Cardiac Rhythm Management, Neuroscience, Neuromodulation) and business functions (Product and Strategic Marketing, Corporate Sales, Sales Strategy, and Corporate Finance).



Camilo Diaz Botia

Director of Electrode Development

Dr. Camilo Diaz-Botia is a highly experienced neural engineer whose work has focused on the development of technologies for bidirectional communication with the nervous system. Most recently, Dr. Diaz-Botia worked for Neuralink where he led and mentored the process engineering team to deliver projects with unique microfabrication processes. Under his direction, the team built and designed novel processes for integration of thin film neural probes with brain machine interface systems. Dr. Diaz-Botia earned a B.S. in Electrical Engineering from Universidad Nacional de Colombia and a Ph.D. in Bioengineering from the joint program at the University of California Berkeley and the University of California San Francisco.

Scientific Advisory Board



Greg Worrell

MD PhD, Chairman of the Scientific Advisory Board

World renowned neurologist at Mayo Clinic. Recognized by the American Epilepsy Society (AES), the American Academy of Neurology (AAN), the American Neurological Association (ANA), and the Citizens United in Research for Epilepsy (CURE) Foundation for his contributions to the field of epilepsy research. Dr. Worrell is a frequent keynote speaker at neurology conferences and has published 90 papers.



Jamie Van Gompel

MD

Neurosurgeon practicing at Mayo Clinic, specializing in epilepsy surgery utilizing minimally invasive techniques. Since 2008, Dr. Van Gompel has authored or co-authored 87 papers on clinical outcome projects centered on neurological conditions. Dr. Van Gompel works collaboratively with colleagues from Mayo Clinic's Epilepsy and Neurophysiology lab, engaging in clinical work relative to brain stimulation as a viable restorative therapy for epilepsy over current treatment methodologies.



Greg Esper

MD, MBA

Associate Professor, Vice-President of Clinical Affairs, and Director of New Care Models in the Neurology Department at Emory University. Vice Chair of the Medical Economics and Management Committee for the American Academy of Neurology (AAN). Dr. Esper was Chair of the Navigating Health Reform Task Force for the AAN in 2012.



Joseph Madsen

MD

Director, Epilepsy Surgery; Associate, Department of Neurosurgery Professor, Harvard Medical School.



Justin Williams

PhD

Department Chair and Vilas Distinguished Achievement Professor at University of Wisconsin. Dr. Williams is credited with multiple publications, patents, and research in the field of thin-film electrodes for neurological recording, ablation, and stimulation.



Vanessa Tolosa

Recognized pioneer and highly respected thought leader throughout the industry. As an engineer with 10+ years of experience developing implantable neural devices, Vanessa has fostered collaborations, built organizations and taken technologies from proof-of-concept to reliable systems. Most recently, she served as director and co-founding member along with Elon Musk, of Neural Interfaces, Neuralink Corp., a company focused on developing a complete Brain-Machine Interface.

Board of Directors



Paul Buckman

Chairman of the Board

Mr. Buckman is currently the President of North America of LivaNova PLC, a London-based medical device manufacturer, publicly trading on the Nasdaq. The Company develops devices used for cardiac surgery, neuromodulation, and cardiac rhythm management. LivaNova was formed by a 2015 \$2.7 billion merger between Houston, Texas-based Cyberonics, Inc., and Milan, Italy-based Sorin S.p.a. Mr. Buckman has been a co-founder, president, or CEO of several medical device companies. He has led many of these companies to successful exits. He is currently on the board of several public and private medical device firms. Mr. Buckman received a Master's degree in Business Administration and Finance and a BA degree in Business Administration from Western Michigan University.



Jeffrey Mathiesen

Mr. Mathiesen is currently the Chief Financial Officer of Gemphire Therapeutics Inc., a publicly-held clinical-stage biopharmaceutical company. He has held executive positions with publicly-traded and privately-held companies dating back to 1993, including vice president and chief financial officer positions. Mr. Mathiesen also serves as a Director, Audit Committee Chairman and Nominating and Governance Committee Member of Sun BioPharma, Inc., a publicly-traded clinical-stage biopharmaceutical company. He received a B.S. in Accounting from the University of South Dakota and is a Certified Public Accountant.



Dave Rosa

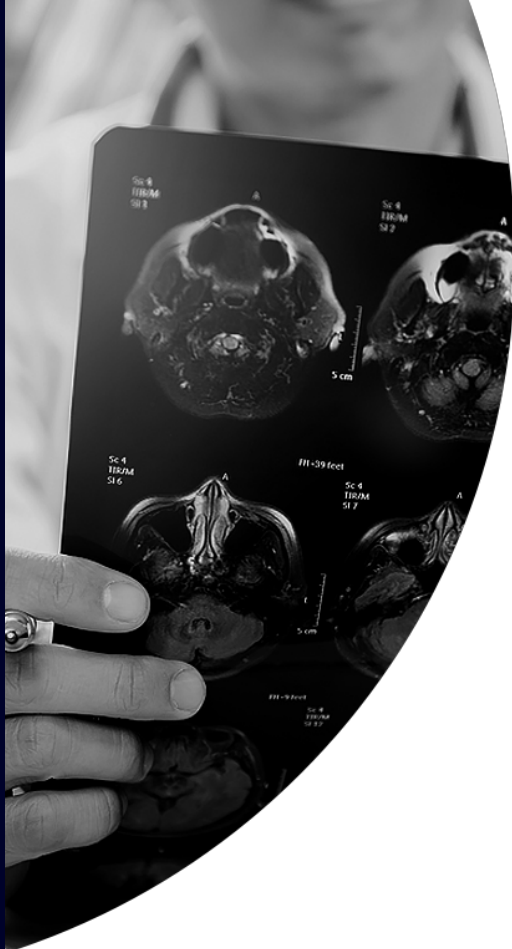
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Edward Andrie

Mr. Andrie most recently served as the General Manager of the Neuromodulation franchise at LivaNova PLC. Prior to LivaNova, Mr. Andrie served as Sorin's Vice-President of Strategy & Business Development. He also has previously held executive positions with Boston Scientific and Baxter, leading large product portfolios in both neuromodulation and cardiac devices. Mr. Andrie has been a co-founder and CEO for several early-stage medical device companies in both the neuromodulation and cardiovascular industries. In addition, he has also served on the board of many privately held medical device companies. Mr. Andrie received his MBA from Stanford Graduate School of Business and his B.S. in Chemical Engineering from the University of Notre Dame.



Financial Information

NASDAQ: NMTC	Financial Data
Price: ¹	\$7.35
90-Day Price Range: ¹	\$3.93 - \$13.50
Daily Volume – Last 30 Day Average: ¹	34,583
Market Capitalization: ¹	\$87.5 Million
Shares Outstanding: ¹	11.9 Million
Shares in Float: ¹	~ 7.9 Million
Warrants: ¹	7.5 Million (WAEP = \$6.06)
Stock Options: ¹	1.1 Million (WAEP = \$5.86)

¹ As of March 31, 2021

Key Takeaways

- Substantial market opportunity
- Disruptive, patented technologies
 - Address a significant and unmet need
 - Expectation - substantially improved outcomes
 - Meet the need to lower costs
 - Established reimbursement
- First FDA clearance Q4 2019 with second product in the works
- Majority of NeuroOne's products expect U.S. FDA 510(k) process
- Mayo and Cleveland Clinic have successfully used devices in humans and/or animals
- Zimmer Biomet commercial launch initiated in 2021
- Platform technology potential for multiple applications:
 - Diagnostic and therapeutic capabilities
 - Brain related disorders, spinal cord stimulation, and A.I.
- Experienced Management Team, Advisory Boards, and Board of Directors
- Growing patent portfolio

Key Partnerships





Thank You

Dave Rosa

President and Chief Executive
Officer

NeuroOne