electroCore™

A Commercial-Stage Bioelectronic Medicine Company

Nasdaq: ECOR

Corporate Presentation

March 2022

Forward Looking Statement

In addition to historical information, this presentation may contain forward-looking statements with respect to our business, capital resources, strategy and growth reflecting the current beliefs and expectations of management made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are subject to a number of risks, uncertainties and assumptions, and you should not rely upon forward-looking statements as predictions of future events. All forward-looking statements may be based upon current estimates and expectations about future events and financial and other trends. There is no guarantee that future results, performance or events reflected in the forward-looking statements will be achieved or occur. No person assumes responsibility for the accuracy and completeness of the forward-looking statements, and, except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons why actual results could differ materially from those or our situation may change in the future.

Forward-looking statements include all statements that are not historical facts and, in some cases, can be identified by terms such as "anticipates," "believes," "could," "seeks," "estimates," "intends," "may," "plans," "potential," "predicts," "projects," "should," "will," "would" or similar expressions and the negatives of those terms. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Forward-looking statements represent our management's beliefs and assumptions only as of the date they are made and are only predictions that may be inaccurate. You should read the Risk Factors set forth in our reports filed from time to time with the Securities and Exchange Commission, which factors may cause our actual future results to be materially different from what we expect.

Additionally, in an effort to provide additional information management believes is a useful indicator of operating performance for the period ended December 31, 2021, this presentation contains a financial measure not determined by generally accepted accounting principles (GAAP): Adjusted EBITDA net loss. A reconciliation to the most directly comparable GAAP financial measure of Net Loss is available on the presentation slide entitled “Adjusted EBITDA Reconciliation.” The rationale for management’s use of non-GAAP information is included in Exhibit 99.1 to the Company’s Form 8-K furnished with the SEC March 10, 2022, and in slide 14 of this presentation.

gammaCore

Sapphire™

1st FDA-cleared non-invasive vagus nerve stimulator

- Fast acting, highly targeted, comfortable, easy to use hand-held option
- Cleared for the prevention and treatment of cluster headache
- Cleared for the prevention of migraine and treatment of acute migraine in adults and adolescents
- Use alongside existing treatments; no drug-drug interactions or drug-like side effects
- Can use multiple times per day or month
- UK NICE guidance supporting cost-dominance in the first-year when gammaCore therapy is used in conjunction with standard of care

Investment Summary

Platform Therapy	FDA cleared; proprietary, non-invasive vagus nerve stimulator (nVNS) positioned to unlock the broad potential of bioelectronic medicine
Large Initial Market	Cluster headache and migraine estimated to affect more than 39 million[1] adults in the U.S.
Attractive Revenue Model	Recurring revenue business model
Strong IP Portfolio	Patent coverage extends beyond 2033

[1] American Migraine Foundation

nVNS and the Benefits of gammaCore

- The vagus nerve affects multiple organs and systems
- Activates multiple mechanisms of action
- Evidence supports possible future treatment for many indications
- Self-treating and no off-target effects
- Complementary to existing care

Unmet Need in Primary Headache

MIGRAINE

39 million U.S. adults[1]

Indirect costs associated with migraine in the U.S. has been estimated at $19.3 billion (inflated to 2019 (US$))[2]

Triptans represent 80% of prescribed acute therapies 40% of patients are dissatisfied or unresponsive to triptans[3]

More than half of insured migraineurs receive no Rx treatment[3]

gammaCore is FDA-cleared for migraine prevention and treatment of acute migraine

CLUSTER HEADACHE

400,000 U.S. patients[4]

Up to eight 15-180 min attacks per day

Considered one of the most painful conditions known; a “suicide headache”

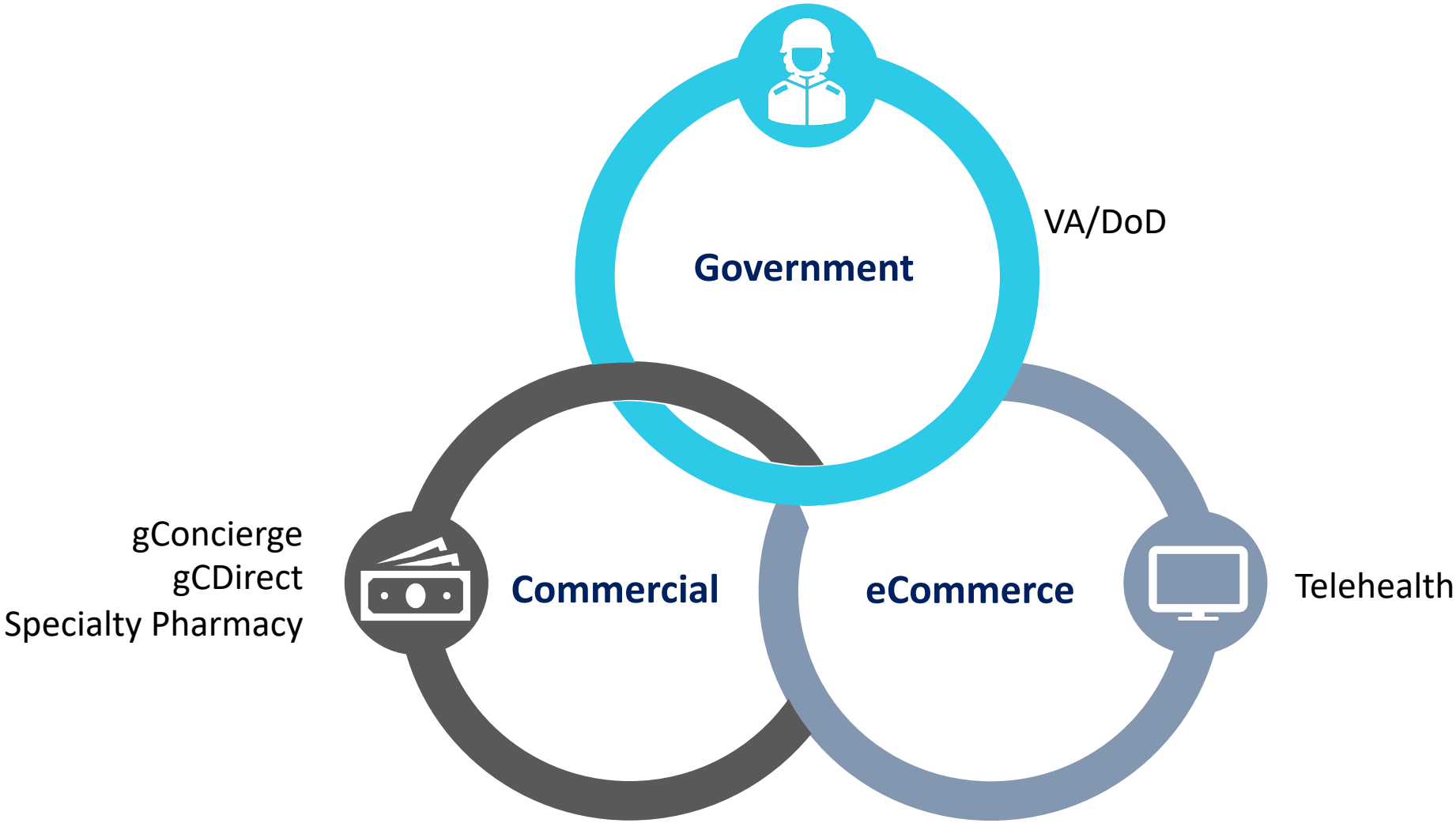
gammaCore is FDA-cleared for the prevention of all types of cluster headache and for the acute treatment of episodic cluster headache

nVNS is recommended as a first line treatment for both the acute and preventative treatment of cluster headache and highly relevant treatment option for patients suffering from migraine [5]

Identified as the only emerging treatment for cluster headache that has been shown to be effective in clinical trial for both the acute treatment of episodic cluster headache as well as the preventive treatment of cluster headache[6]

1. American Migraine Foundation
2. CPI for all urban consumers (CPI-U). Bureau of Labor Statistics. Accessed May 17, 2019.
3. IMS Pharmetrics Plus.
4. Cephalalgia. 2008 Jun;28(6):614-8. doi: 10.1111/j.1468-2982.2008.01592.x. Epub 2008 Apr 16.
5. Cephalalgia. 2020 Jul 27; In-Press. Non-invasive vagus nerve stimulation for primary headache: a clinical update
6. Nature Reviews: Neurology 2021 Mar 29; In-Press: Cluster headache pathophysiology - insights from current and emerging treatments. doi: 10.1038/s41582-021-00477-w. Epub ahead of print. PMID: 33782592

US Sales Channels



US Sales Channels: Details

	Pathway	Marketing Target/ Strategy	electroCore Customer	Coverage
Government	VA/DoD	Providers Direct to Veteran	Prosthetics	FSS, Open Market Access
Commercial	gConcierge	Providers DTC*	HCPs	Cash Pay
	gCDirect	Providers DTC*	Patients	Cash Pay
	Specialty Pharmacy	Providers DTC*	Specialty Pharmacy	Cash Pay, Insurance
eCommerce	Telehealth	DTC*	Vytal	Cash Pay

*Direct to Consumer

Active Channels With Revenue Growth Opportunities

Driving Department of Defense and Community Care Network sales through the roughly 1,300 Department of Veterans Affairs and Military Treatment Facilities

Growth in the UK by leveraging: 1) Broader coverage through the MedTech Funding Mandate, 2) Growth from the new eCommerce platform, 3) Support from the National Institute for Health and Care Excellence (NICE) for the treatment of cluster headache, 4) Scottish Health Technology Group (SHTG) adaptation for NHS Scotland on the use of gammaCore for cluster headache; and 5) similar approvals expected in Wales

Growth in U.S commercial channel driven at first by cash pay business models and bolstered by our efforts to gain insurance coverage

International expansion through recently executed distribution agreements covering Eastern Europe, Canada, Australia, Belgium, Luxembourg, the Netherlands, France, Qatar, Taiwan, China, Malaysia, Singapore and Indonesia

nVNS – A Platform Technology

NEUROLOGY/PAIN

Primary Headache[1]

Post-traumatic headache[2]

Parkinson's Disease[2]

Post-traumatic stress disorder[2,4]

Traumatic Brain Injury[2]

Subarachnoid hemorrhage[2]

Acute Stroke[2]

Opioid Use Disorder[2]

Migraine in Long COVID[1]

GASTROENTEROLOGY

Gastroparesis[2]

Post-operative Ileus[2]

INFLAMMATION

Reactive Airway Disease

Asthma exacerbations in known or suspected COVID-19 patients[3]

[1] Cleared indications

[2] Independent Investigator initiated studies ongoing

[3] Cleared through FDA Emergency Use Authorization

[4] Breakthrough Designation

gammaCore is the only FDA-cleared non-invasive VNS therapy in primary headache

gammaCore (nVNS) currently is FDA-cleared for prevention of migraine and cluster headache, and acute treatment of migraine and episodic cluster headache, as well as the acute and preventive treatment of migraine in adolescents between 12 and 17 years of age

Pipeline

Indication	Phase	Partnerships
Headache		
Primary Headache	Market	VA U.S. Department of Veterans Affairs
Post Traumatic Headache	Pivotal	
Subarachnoid Hemorrhage Headache	Pilot	Northwell Health
General Neurology		
Post Traumatic Stress Disorder	Pivotal	VA U.S. Department of Veterans Affairs; EMORY
Opioid Use Disorder	Pilot	GT; EMORY
Parkinson's Disease	Pilot	Newcastle University; Institute of Neurosciences Kolkata
Acute Neurological Injury		
Stroke	Pilot	HACETTEPE UNIVERSITY; Leids Universitair Medisch Centrum
Subarachnoid Hemorrhage Headache	Pilot	MGH MASSACHUSETTS GENERAL HOSPITAL
Gastrointestinal		
Post Operative Ileus	Pivotal	UNIVERSITY OF LEEDS
Nausea in gastroparesis	Pilot	JOHNS HOPKINS MEDICINE

Pipeline initiatives largely funded through non-company sources such as IITs and grants

Broad Intellectual Property Portfolio

electroCore owns all intellectual property on which the technology relies

Expansive pioneering IP coverage of non-invasive, transdermal neuro-stimulation in the neck

We have patent coverage extending beyond 2033:

- High-frequency burst signals capable of passing comfortably through the skin
- Low-pass signal filtration that reduces signal harmonics that cause pain
- Growing digital health portfolio

>170

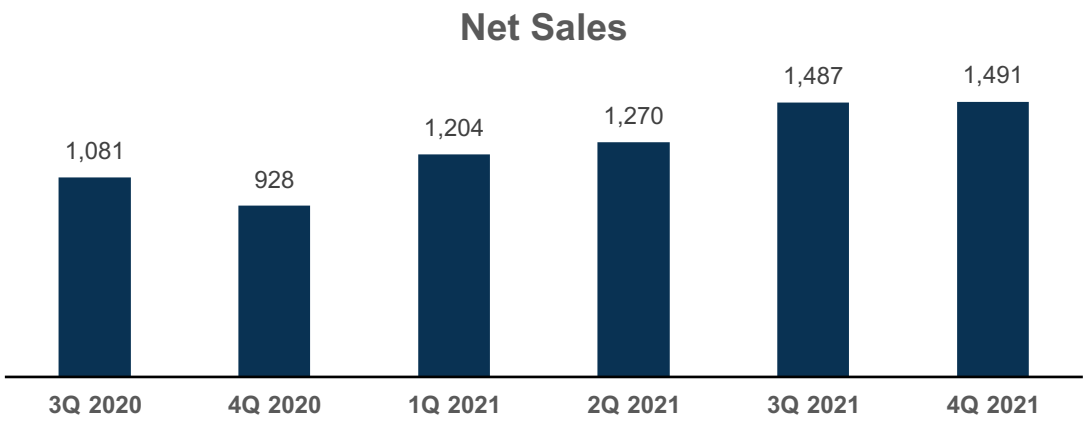
PATENTS AND PATENT APPLICATONS

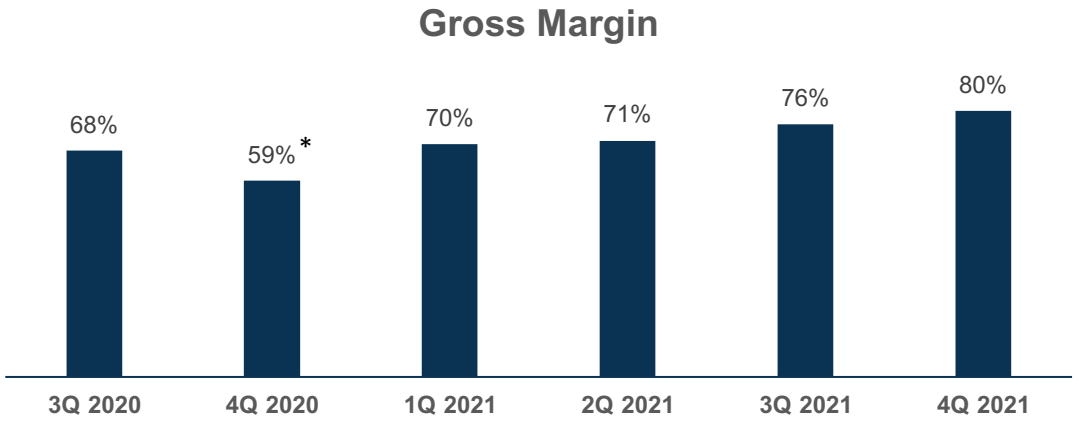
~100 issued U.S. patents

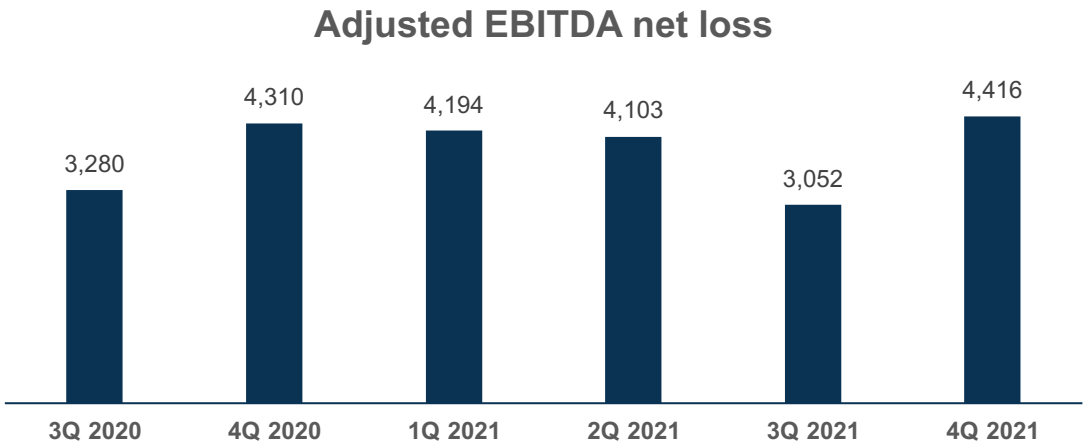
>30 U.S. patent applications

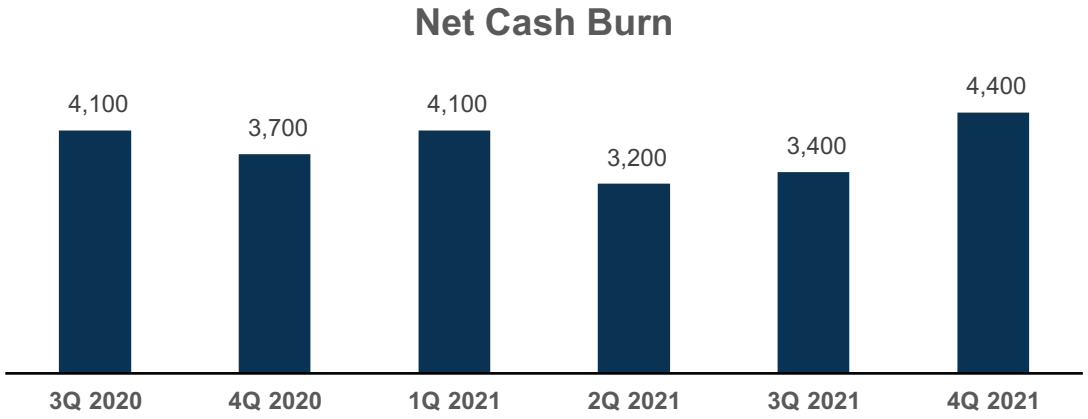
>40 International patents and applications

Summary Financials ($ in thousands)









- **Cash, Cash Equivalents & Marketable Securities as of 12/31/21: $34.7 million**
- **Preliminary Q1 2022 guidance (dated March 10, 2022):**
  - Q1 2022 Revenue: >$1.7 million
  - Q1 2022 Net Cash Consumed by Operations: <$5.0 million[1]

**Excludes increase in inventory reserves*

[1]The increase is largely expected to be due to seasonal factors affecting working capital and increased spending in Cash Pay initiatives

Adjusted EBITDA Reconciliation

	3Q 2020	4Q 2020	1Q 2021	2Q 2021	3Q 2021	4Q 2021
GAAP net loss	**$ (4,486)**	**$ (6,324)**	**$ (5,384)**	**$ (2,894)**	**$ (3,994)**	**$ (4,947)**
Provision (benefit) from income taxes	-	-	-	(885)	9	26
Depreciation and amortization	95	111	96	96	95	95
Stock-based compensation	743	776	942	838	760	762
Write-off of right of use operating lease	-	558	-	-	-	-
Increase in inventory reserves	-	434	-	-	-	70
Restructuring and other severance related charges	-	-	-	-	-	-
Legal fees associated with stockholders' litigation	371	136	151	166	77	187
Gain on extinguishment of debt	-	-	-	(1,422)	-	-
Total other income	(2)	1	1	(1)	-	(1)
Adjusted EBIDTA net loss	**$ (3,280)**	**$ (4,310)**	**$ (4,194)**	**$ (4,103)**	**$ (3,052)**	**$ (4,416)**

The company is presenting adjusted EBITDA net loss because it believes this measure is a useful indicator of its operating performance. electroCore management uses this non-GAAP measure principally as a measure of the company's core operating performance and believes that this measure is useful to investors because it is frequently used by the financial community, investors, and other interested parties to evaluate companies in the company's industry. The company also believes that this measure is useful to its management and investors as a measure of comparative operating performance from period to period. Additionally, the company believes its use of non-GAAP adjusted EBITDA net loss from operations facilitates management's internal comparisons to historical operating results by factoring out potential differences caused by gains and charges not related to its regular, ongoing business, including, without limitation, non-cash charges and certain large and unpredictable charges such as restructuring expenses.

The company defines adjusted EBITDA net loss as GAAP net loss, adjusting to exclude non-operating gains/losses, depreciation and amortization, stock-compensation expense, restructuring and other severance related charges, write-off of right of use operating lease, inventory reserve charges, legal fees associated with stockholders' litigation, and provision / benefit from income taxes. A reconciliation of GAAP net loss to Non-GAAP adjusted EBITDA net loss has been provided in the financial statement tables included in this press release.

Capitalization Table

Fully diluted as of December 31, 2021

Common shares	70,704,123	
Warrants	216,944	Exercise prices ranging from $5.68 to $15.30; expirations largely through August 31, 2022
Options	5,136,679	Weighted average exercise price = $4.61, options generally vest over 4-year period (first options granted June 21, 2018)
Restricted Stock Units	1,084,649	RSUs which vest through February 2025
Total	**77,142,395**	

Experienced Management Team

Dan Goldberger
Chief Executive Officer

Brian Posner
Chief Financial Officer

Peter Staats
Chief Medical Officer

RMS MEDICAL PRODUCTS
XTANT MEDICAL
synergy disc™ Synergy Disc Replacement, Inc.
SOUND SURGICAL TECHNOLOGIES LLC
CELLECTAR BIOSCIENCES
Alliqua BIOMEDICAL
JOHNS HOPKINS SCHOOL of MEDICINE
PREMIER PAIN CENTERS

Investment Summary

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[1] American Migraine Foundation

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Appendix

U.S. Reimbursement Pathway

Aligned to stakeholder experience

HEALTHCARE PROFESSIONALS
Write a prescription for use at home

PATIENTS
Acquire gammaCore from a specialty pharmacy or directly from the company with a simple refill process

PAYERS
Manage utilization through pharmacy or medical benefit reimbursement

Payer Response

CURRENT PAYER COVERAGE

CVS Caremark, Express Scripts, Highmark Blue Cross Blue Shield, North Dakota Blue Cross Blue Shield, Federal Supply Schedule (VA, DoD, Indian Health Service)

PAYER ENGAGEMENT

Active discussions with multiple regional and national plans leveraging unique Level II HCPCS code K1020 “Non-invasive vagus nerve stimulator”

REIMBURSEMENT PATH

Prescription model with periodic refill; can be reimbursed as pharmacy or medical benefit

Commercial Headache Reimbursement

CVS/Caremark
gammaCore is reimbursed by CVS/Caremark at a non-exclusionary co-pay of roughly $50 - $75/month for those beneficiaries who have a benefit design that does not differentiate between drugs and devices

Approximately five million CVS/Caremark members currently have a benefit design of this type

Express Scripts (ESI)
gammaCore is reimbursed by ESI on all National Standard Formularies at a preferred copay of roughly $25 - $45/month for those beneficiaries who have a benefit design that does not differentiate between drugs and devices

CMS (HCPCS)
Unique Level II Healthcare Common Procedure Coding System (HCPCS) code K1020 “Non-invasive vagus nerve stimulator” established by the Centers for Medicare and Medicaid Services, effective April 1, 2021

Medical Benefit Headache Reimbursement

Positive coverage Example: Highmark

U.S. FDA approved non-implantable vagus nerve stimulation devices (i.e. gammaCore) may be considered medically necessary for the abortive treatment of migraine or cluster headache under **ALL** of the following circumstances:

- The individual is aged eighteen (18) years or older; **and**
- The individual has a diagnosis of migraine or cluster headache; **and**
- The individual has failed or has contraindication or has intolerance to **at least two** medications from each of the following categories: NSAIDS, Triptans, and Ergotamines; **and**
- The individual must be re-evaluated in 30 days. In order to obtain renewal of the device, there must be documentation of significant efficacy in the medical record.

In order to maintain coverage for gammaCore, the following efficacy must be documented:

- Reduction of pain from moderate or severe to mild or pain free within 60 minutes, without the use of rescue medicine, for at least 50% of attacks.

U.S. FDA approved non-implantable vagus nerve stimulation devices (e.g., gammaCore) may be considered medically necessary for the preventive treatment of migraine headache or for the acute treatment of pain associated with migraine headache under **ALL** of the following circumstances:

- The individual is aged between twelve 12 to 17 years of age; **and**
- The individual has a diagnosis of migraine; **and**
- The individual has failed or has contraindication or has intolerance to **at least two (2)** medications from each of the following categories: NSAIDS, Triptans, and Ergotamines; **and**
- The individual must be re-evaluated in 30 days. In order to obtain renewal of the device, there must be documentation of significant efficacy in the medical record.

In order to maintain coverage for gammaCore, the following efficacy must be documented:

- Reduction of pain from moderate or severe to mild or pain free within 60 minutes, without the use of rescue medicine, for at least 50% of attacks.

Non-implantable stimulation devices not meeting the criteria as indicated in this policy are considered experimental/investigational and therefore, non-covered because the safety and/or effectiveness of this service cannot be established by the available published peer reviewed literature.

Procedure Codes

K1020

Expanding Federal Sales Opportunities

>20 million

covered lives between the VA (9m[1]), DoD (9.6m[2]), and Indian Health Service (2.2m[3]) across ~1,300[1,2] treatment facilities

~400,000 patients

saw VA healthcare providers for headache in 2018[4]

Migraine grew 10-fold

in the VA between 2004-2012[5]

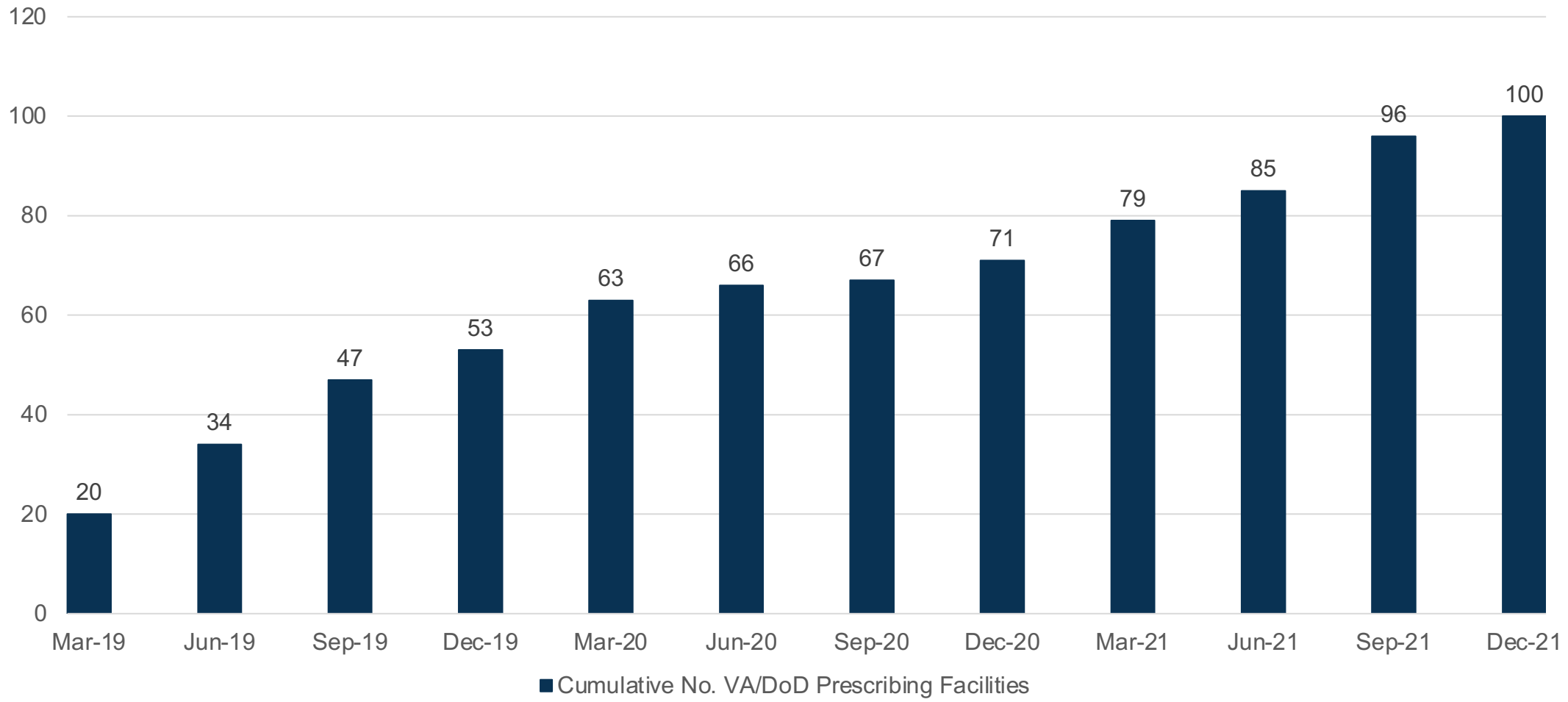
More than 27,000 veterans suffer from cluster headache[6]

VA | U.S. Department of Veterans Affairs

INDIAN HEALTH SERVICE · PHS · 1955 ·

[1] https://www.va.gov/health/aboutvha.asp [2] https://www.tricare.mil/About/Facts [3] https://www.ihs.gov/newsroom/factsheets/quicklook/ [4] Grinberg et al. Understanding the Prevalence and Geographic Distribution of Headache Disorders within the Veterans Health Administration. Poster presentation, AHS 2019 [5] Altalib et al. Increase in migraine diagnoses and guideline-concordant treatment in veterans, 2004-2012 Cephalalgia 2017;37:3-10 [6] Dr. Sico et al. The headache & Migraine Policy Forum: Chronic Headache Disorders & Toxic Exposure, 2021, pg. 5

Growth in VA/DoD Prescribing Facilities



~1,300[1,2] VA, DoD, and Indian Health Service treatment facilities

1. https://www.va.gov/health/aboutvha.asp
2. https://www.tricare.mil/About/Facts

Global Approvals

FDA-Cleared Indications for the US

- The preventive treatment of migraine headache in adolescent (age 12 and older) and adult patients.
- The acute treatment of pain associated with migraine headache in adolescent (age 12 and older) and adult patients.
- Adjunctive use for the preventive treatment of cluster headache in adult patients.
- The acute treatment of pain associated with episodic cluster headache in adult patients.
- Treatment of hemicrania continua in adults.
- Treatment of paroxysmal hemicrania in adults.

CE Marks for the EU/EFTA/EEA and UK

- Acute and/or prophylactic treatment of primary headache (migraine, cluster headache, and hemicrania continua) and medication overuse headache in adults.
- Treatment or prevention of symptoms of reactive airway disease, including asthma, bronchoconstriction, exercise-induced bronchospasm, and COPD.
- Adjunctive therapy for adults to reduce the symptoms of certain anxiety and depression conditions (including panic disorder, posttraumatic stress disorder, obsessive-compulsive disorder, and major depressive disorder).
- Adjunctive therapy in the prevention of partial onset and generalized seizures associated with epilepsy in adults.
- Adjunctive therapy for adults to reduce the symptoms of gastric motility disorders and irritable bowel syndrome (including nausea, vomiting, bloating/distention, early satiety, and abdominal pain).

Health Canada License for Canada

- Acute and/or prophylactic treatment of migraine in adolescents and adults and cluster headache in adults.

ARTG Certificate for Australia

- Acute and/or prophylactic treatment of migraine, cluster headache, and hemicrania continua in adults.

Indication and Important Safety Information

gammaCore Sapphire™ (non-invasive vagus nerve stimulator) is intended to provide non-invasive vagus nerve stimulation (nVNS) on the side of the neck.
gammaCore is indicated for:

- The preventive treatment of migraine headache in adolescent and adult patients.
- The acute treatment of pain associated with migraine headache in adolescent and adult patients.
- Adjunctive use for the preventive treatment of cluster headache in adult patients.
- The acute treatment of pain associated with episodic cluster headache in adult patients.
- Treatment of hemicrania continua in adults.
- Treatment of paroxysmal hemicrania in adults.

The effectiveness of gammaCore (nVNS) have not been established in the acute treatment of chronic cluster headache

Safety and efficacy of gammaCore have not been evaluated in the following patients, and therefore gammaCore is NOT indicated for:

- Patients diagnosed with narrowing of the arteries (carotid atherosclerosis).
- Patients who have undergone surgery for resection of the vagus nerve in the neck (cervical vagotomy).
- Pediatric patients (Younger than 12 years)
- Pregnant women
- Patients with clinically significant hypertension, hypotension, bradycardia or tachycardia

Patients should not use gammaCore if they:

- Have an active implantable medical device, such as a pacemaker, hearing aid implant, or any implanted electronic device
- Has a metallic device such as a stent, bone plate, or bone screw implanted in or near the neck
- You are using another device at the same time (e.g., TENS unit, muscle stimulator) or any portable electronic device (e.g., cell phone).

In the US, the FDA has not cleared gammaCore for the treatment of pneumonia and/or respiratory disorders, such as acute respiratory stress disorder associated with COVID-19.

Please refer to the gammaCore Instructions for Use for all of the important warnings and precautions before using or prescribing this product: www.gammacore.com

Please also see the instructions for Use for gammaCore CV for all the important warnings and precautions specific to gammaCore CV and its use pursuant to the Emergency Use Authorization (EUA): https://www.fda.gov/media/139970/download