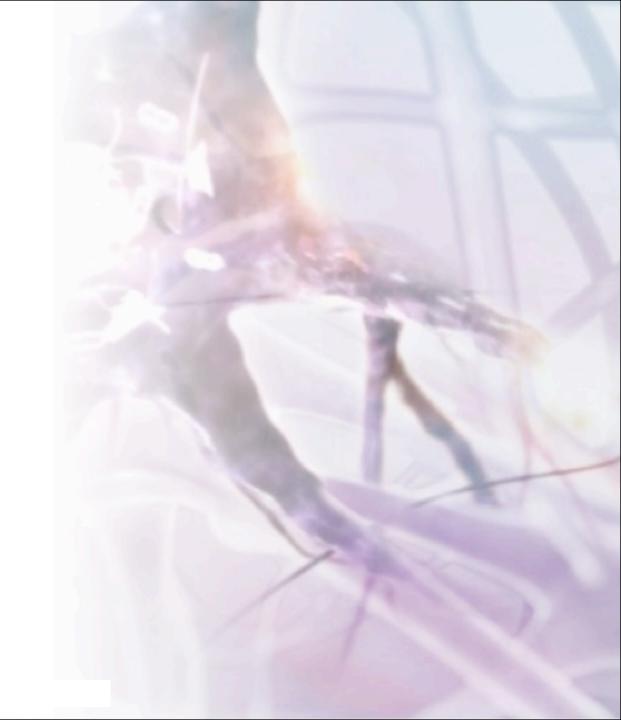


A Commercial-Stage Bioelectronic Medicine Company

Corporate Presentation May 2019



#### Disclaimer

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. All 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 will 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, no person undertakes any obligation to update any forward-looking statements for any reason after the date of this presentation.

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 of the prospectus, and are only predictions that may be inaccurate. You should read the Risk Factors set forth in our prospectus and other reports filed from time to time with the Securities and Exchange Commission, which factors may cause our actual future results may be materially different from what we expect. 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.



#### electroCore At-a-Glance

**NASDAQ: ECOR** 

Headquarters: Basking Ridge, NJ

No. of employees: 90

Market cap: ~\$110M (5/15/19)

Recent close: \$3.75 (5/15/19)

Cash & marketable securities (3/31/19): \$52.4M

Cash runway through mid-2020



gammaCore Sapphire<sup>™</sup>



# **Investment Highlights**

Platform Therapy	Only FDA-cleared non-invasive vagus nerve stimulator positioned to unlock the broad potential of bioelectronic medicine
Pharma Distribution	Distributed through standard specialty pharmacy channels
Large Initial Market	Primary headache market opportunity for cluster headache and migraine estimated to be in excess of \$4 billion
Pipeline in a Product	Opportunity to expand into additional large-markets, including neurology and rheumatology, with key pivotal trials initiated in 2018 and planned for 2019
High Margins	Low one-time, upfront device cost followed by high-margin electronic refill model
Strong IP Portfolio	Key patent coverage extends through 2033



#### **Experienced Management Team**



**Frank Amato** Chief Executive Officer & **Board Member** 28 years





J.P. Errico, Esq Founder, Chief Science & Strategy Officer & Board Member 25 years







**Brian Posner** Chief Financial Officer 35 years







Tony Fiorino, MD Chief Medical Officer 20 years









**Dan Duhart Chief Commercial Officer** 35 years







**Steve Mendez** Chief Technical Officer 30 years





**Eric Liebler SVP** of Neurology 22 years





Schering-Plough



**Ardelle Ferris VP of Market Access** 30 years



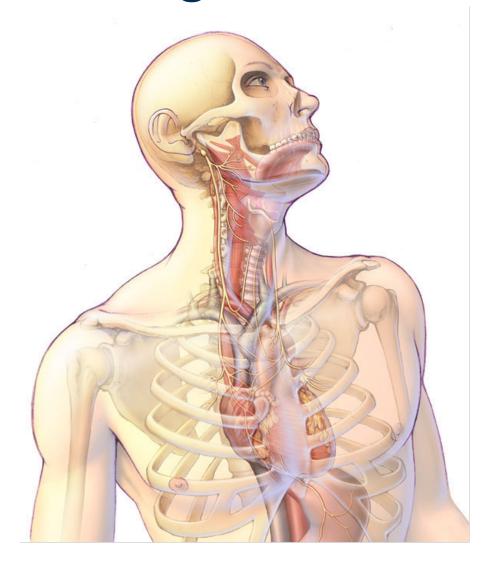


# Portfolio & Pipeline

Indication	PreClinical / Pilot Trials	Pivotal Trials	FDA Clearance	Commercial Launch	Key Milestones	
Acute Treatment of Episodic Cluster Headaches	ACT 1 & 2				FDA clearance April 2017 Full commercial launch 3Q 2018	
Acute Treatment of Migraine	PRESTO				FDA label expansion January 2018 Full commercial launch 3Q 2018	
Cluster Headache Prevention	PREVA				FDA label expansion November 2018 Full commercial launch 4Q 2018	
Migraine Prevention	PREMIUM 1 8	<b>2</b> 2			Final PREMIUM 1 trial data publication expected 2H 2019; PREMIUM 2 pivotal trial initiated November 2018	
Migraine in Adolescents	АТОМ				Pivotal trial initiating in 2019	
Post-Traumatic Headache					Preclinical studies in progress Preclinical results presented 1Q 2019 IRB for human pilot study submitted 1Q 2019	
Rheumatoid Arthritis						



#### The Vagus Nerve



The longest cranial nerve in the body; the communication link between the brain and the body

Stimulation of the vagus nerve affects many important autonomic functions in the brain and in the body, including neurotransmitter levels, inflammation levels, and metabolism



#### Clinical Potential of VNS

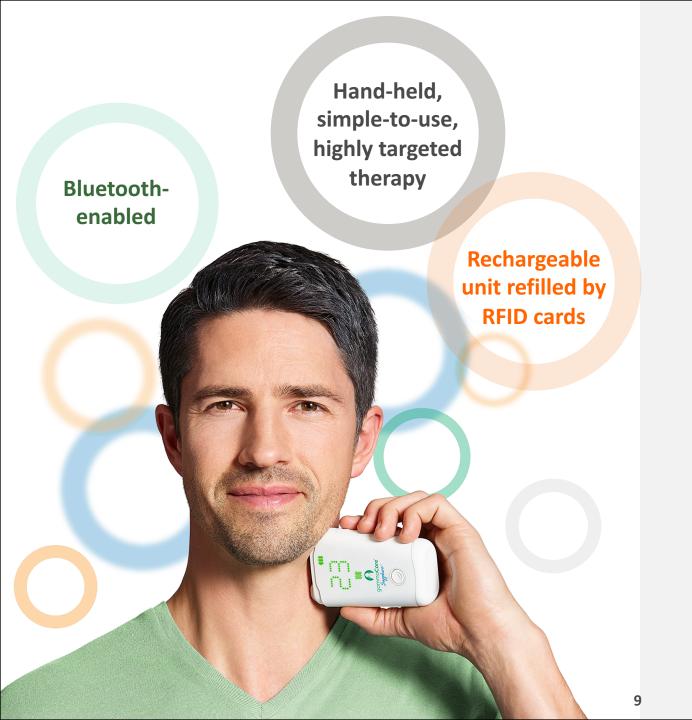


In the CNS, VNS effects are similar to multiple major classes of drugs, including SSRIs, SNRIs, GABA analogues, and acetylcholine esterase inhibitors

Peripherally, VNS affects immune activity, *suppressing* the expression of TNF-α and other inflammatory cytokines, resulting in effects similar to drugs used to suppress severe inflammation

**Autoimmune Diseases** 







# gammaCore Sapphire<sup>™</sup>

1<sup>st</sup> FDA-cleared non-invasive vagus nerve stimulator

- Fast acting, comfortable option for acute treatment and prevention, with only local, mild, and transient side effects
- Initial indications in cluster headache and migraine
- Unique RFID card authorization system for on-site specialty pharmacy encoding
- Bluetooth-enabled for novel web-based delivery of the therapy



## Unmet Need in Cluster Headache & Migraine

20X Cluster Headache
Suicide rate vs. the U.S. average



350,000 U.S. patients (approx. market \$400M<sup>1</sup>)

Up to eight 15-180 min attacks per day

Typically occur 4-24 weeks per year

Only FDA-cleared therapy for acute and preventive treatment of Cluster Headache

- 1. Estimated addressable market, based on industry sources.
- IMS Pharmetrics Plus.



36 million U.S. patients (\$3.8B<sup>1</sup> approx. market)

Triptans represent 80% of prescribed acute therapies

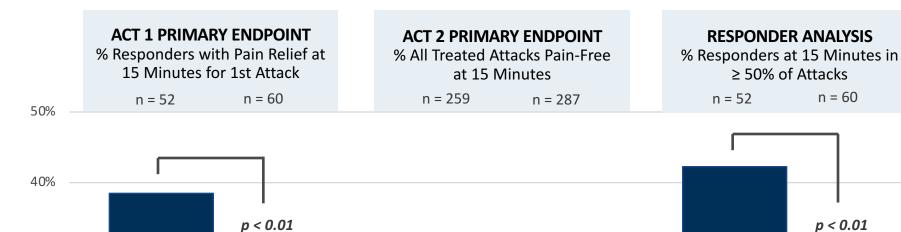
40% of patients are dissatisfied or unresponsive to triptans<sup>2</sup>

More than half of insured migraineurs are untreated<sup>2</sup>

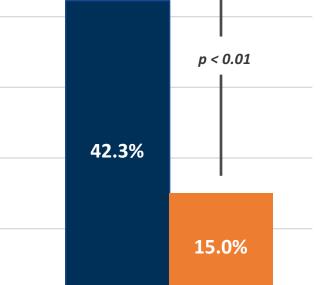


#### ✓ Acute Cluster Headache: ACT 1 & ACT 2

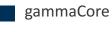
Pooled-analysis of Episodic Cluster Headache from ACT 1 & ACT 2 Trials



24.1%



n = 60







7.3%

p < 0.01

Response Rate (%)

30%

20%

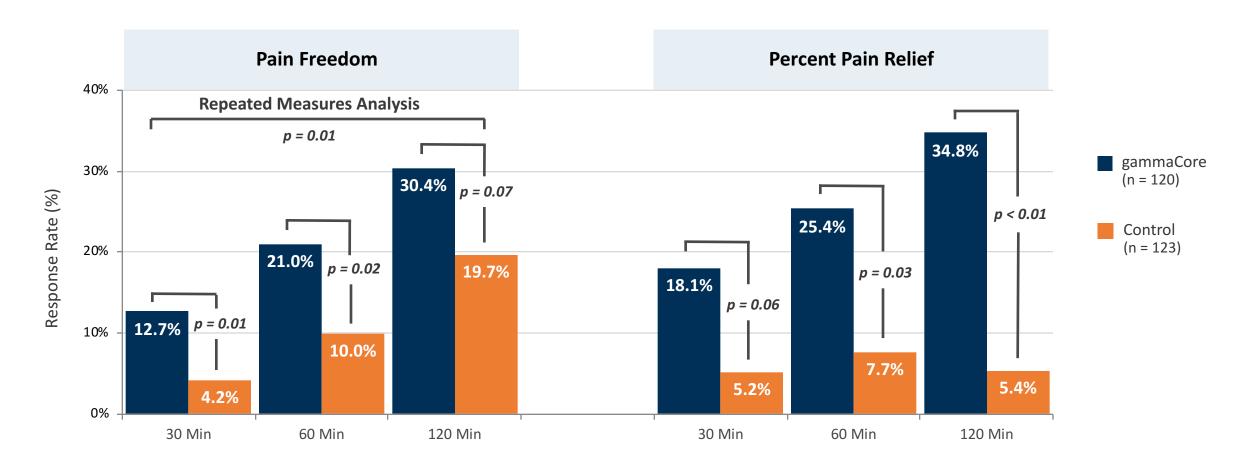
10%

0%

38.5%

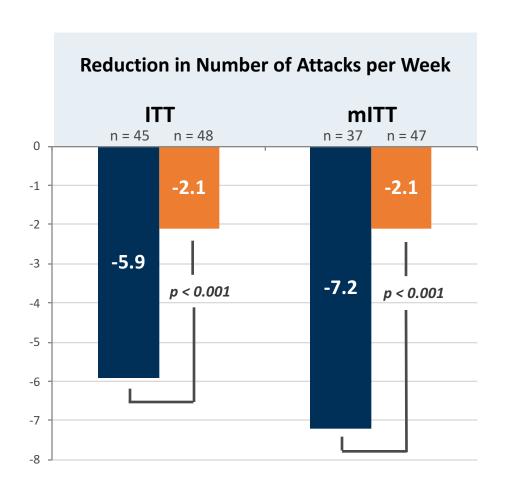
11.7%

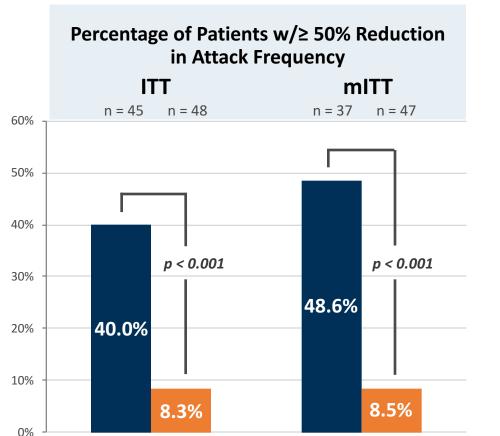
### ✓ Acute Migraine: PRESTO Trial

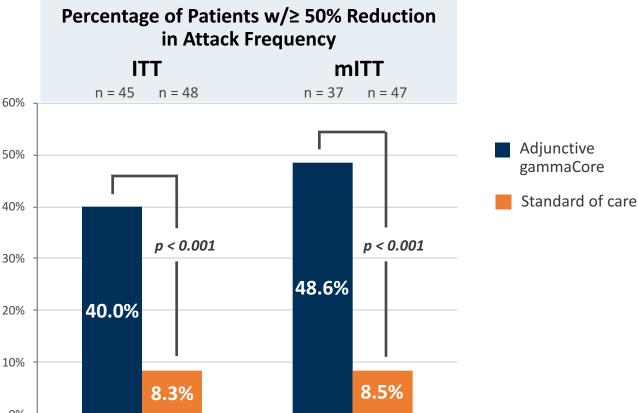




#### √ Cluster Headache Prevention: PREVA Trial







mITT - Patients who provided data in the randomized period sufficient to compare to baseline measurements



# Non-Invasive Therapy vs. Drug Alternatives

#### **Benefits of gammaCore**



Safe and well tolerated

Patient self-administered

Flexible daily dosing

Vast patient experience (~5M doses)

#### **Drawbacks of Current Drug Treatments**

Systemic side effects

Serious adverse events

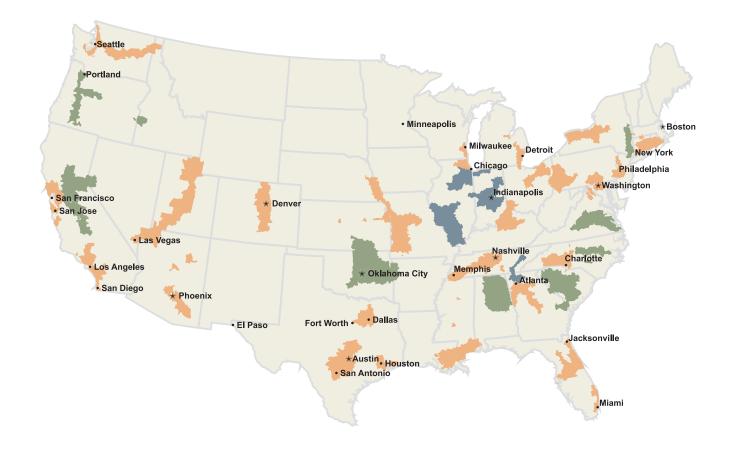
Potential drug/drug interactions

**CVD** contraindications

Potential for medication overuse headache



## **Building a National Commercial Presence**





15

**32 Sales Territories** 

## Market Penetration & Development Strategy

Unique Prescribing Physicians

2,170 as of 1Q 2019<sup>1</sup>

Filled Rx's

~3,000 in 1Q 2019<sup>1</sup>

Covered US lives

~60M as of 1Q 2019<sup>2</sup>

Revenue

Go-forward strategy: pull coverage contracts through to revenue



<sup>&</sup>lt;sup>1</sup> Cumulative since product launch

<sup>&</sup>lt;sup>2</sup> Including VA/DOD contracts, CVS Caremark and Highmark

## Pathway to Reimbursement

Aligned to stakeholder experience



**PHYSICIANS** 

Write a prescription for use at home



**PATIENTS** 

Acquire gammaCore from a specialty pharmacy with simple refill process



**PAYERS** 

Manage utilization through pharmacy or medical benefit reimbursement

#### **Commercial payer Response**

**Payer Engagement** 

**Reimbursement Path** 

**Suggested Payment** 

• CVS Caremark, Highmark, FSS reimbursement for ~ 60M lives as a pharmacy benefit

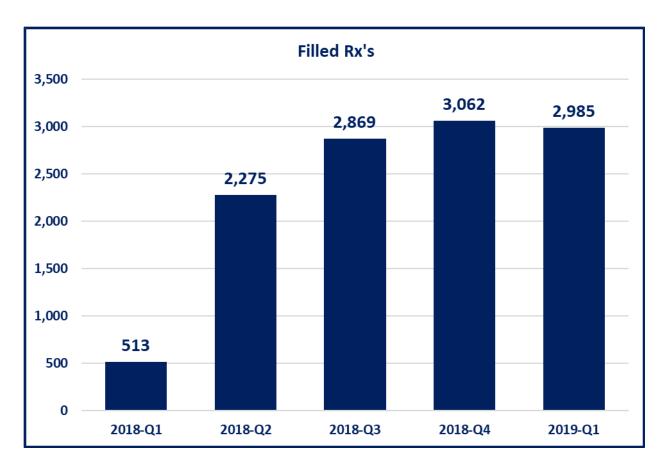
• Active discussions and negotiations with multiple national plans covering ~90M additional lives

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

No major payer hurdles to current pricing

electro**Core** 

## Growth in gammaCore Prescriptions



Updated as of March 27, 2019

2,170

UNIQUE PRESCRIBING PHYSICIANS SINCE PRODUCT LAUNCH

Refill Rx's +100%

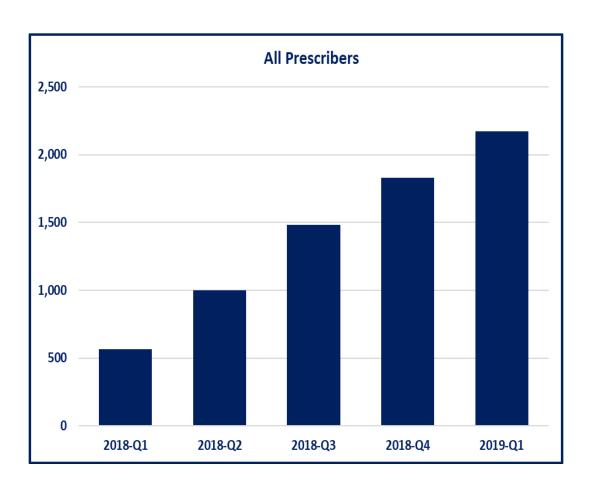
1Q19 vs. 4Q18

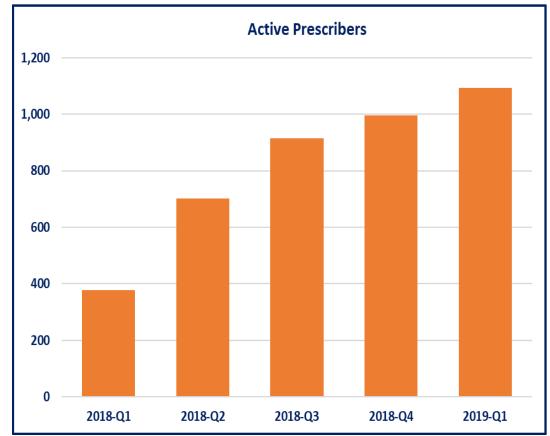
~11,700

PRESCRIPTIONS FILLED TO DATE IN THE UNITED STATES



## Growth in gammaCore Prescribers

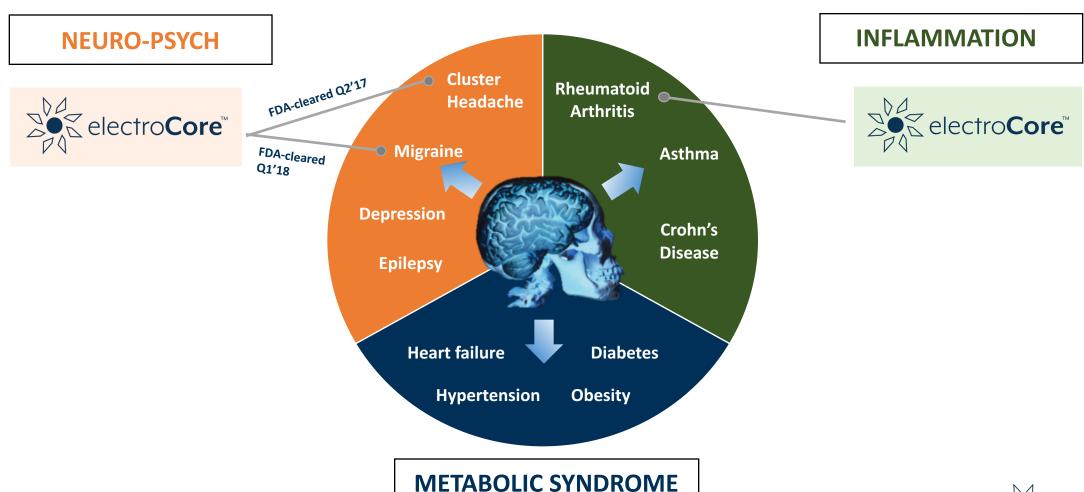






### A Pipeline in a Product

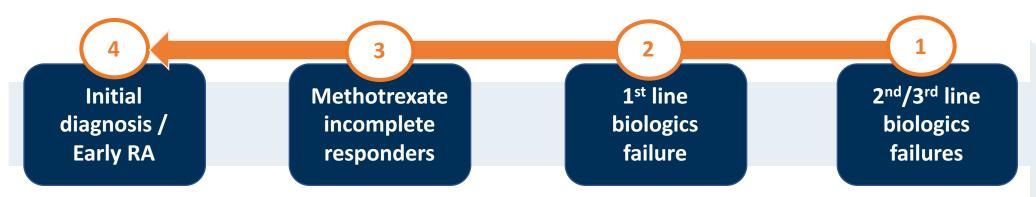
gammaCore is the only FDA cleared non-invasive VNS therapy



## Rheumatoid Arthritis (RA)

- Chronic progressive disease causing inflammation in the joints and resulting in painful deformity and immobility, especially in the fingers, wrists, feet, and ankles
- Affects approximately 1.3 million people in the US<sup>1</sup> and there are no currently approved nonsystemic therapies for RA
- Potential as a cost-effective, non-immunosuppressive alternative to the \$23.7 billion<sup>2</sup> anti-TNF drug class

#### Multiple penetration points into the RA market:



<sup>&</sup>lt;sup>1</sup> https://www.rheumatology.org/Learning-Center/Statistics/Prevalence-Statistics



<sup>&</sup>lt;sup>2</sup> 2017 worldwide sales, source Cowen & Co.

#### **Broad Intellectual Property Estate**

We are inventors/owners of all patents on which therapy relies

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

We have key patent coverage extending out through 2033, including:

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

>140
PATENTS AND PATENT APPLICATIONS

>70

Issued U.S. patents

>25

U.S. patent applications

>40

International patents and applications



# **Key Company Milestones and Goals**

4	1Q 2018	FDA cleared for acute migraine pain
4	2Q 2018	Completed Initial Public Offering
N. C.	3Q 2018	Commercial launch across US market (6,500 MDs)
	4Q 2018	FDA cleared for cluster headache prevention
N N	1Q 2019	Achieved target of <b>50M</b> covered lives*
	2Q 2019	Targeting FDA submission in migraine prevention
	3Q 2019	Achieve target of <b>75M</b> covered lives
	4Q 2019	Targeting FDA clearance for migraine prevention



## **Summary Financials**

\$ In thousands	1Q 2018	2Q 2018	3Q 2018	4Q 2018	1Q 2019
GAAP revenue	81	393	151	368	410
Research and Development	2,306	4,367	2,333	3,460	3,460
SG&A	6,825	12,007	11,273	12,397	11,000
Operating loss	(9,099)	(16,221)	(13,551)	(15,681)	(14,211)
Net loss	(9,499)	(17,782)	(13,203)	(15,335)	(13,862)
Shares outstanding	NA	29,450	29,450	29,450	29,633

Cash and equivalents (3/31/19): \$52,367

Shareholders equity (3/31/19): \$53,169

GAAP revenue set forth above for 1Q 2018, 2Q 2018, 3Q 2018, 4Q 2018 and 1Q 2019 does not reflect that the Company dispensed an additional approximately \$353,000, \$951,000, \$1,700,000, and \$1,600,000, respectively, in product sales value to patients through its patient voucher and co-pay assistance programs.



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#### Indication and Important Safety Information

gammaCore<sup>™</sup> (non-invasive vagus nerve stimulator) is indicated for:

- 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
- The acute treatment of pain associated with migraine headache in adult patients
- The safety and effectiveness of gammaCore have not been established in the acute treatment of chronic cluster headache
- gammaCore has not been shown to be effective for the prophylactic treatment of migraine headache
- The long-term effects of the chronic use of gammaCore have not been evaluated
- Safety and efficacy of gammaCore have not been evaluated in the following patients, and therefore it is NOT indicated for:
  - Patients with an active implantable medical device, such as a pacemaker, hearing aid implant, or any implanted electronic device
  - Patients diagnosed with narrowing of the arteries (carotid atherosclerosis)
  - Patients who have had surgery to cut the vagus nerve in the neck (cervical vagotomy)
  - Pediatric patients
  - Pregnant women
  - Patients with clinically significant hypertension, hypotension, bradycardia, or tachycardia
- Patients should not use gammaCore if they:
  - Have a metallic device such as a stent, bone plate, or bone screw implanted at or near their neck
  - Are using another device at the same time (e.g., TENS Unit, muscle stimulator) or any portable electronic device (e.g., mobile phone)

Note: This list is not all inclusive. Please refer to the gammaCore Instructions for Use for all of the important warnings and precautions before using or prescribing this product.

Available by Rx only. US Federal Law restricts this device to sale by or on the order of a licensed healthcare provider.

