



JPM Healthcare Conference Presentation

January 2025



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NEUROPACE MISSION

**Transform the lives of people
suffering from epilepsy
by reducing or eliminating the
occurrence of debilitating seizures.**

NeuroPace Investment Highlights

Large, underpenetrated market	>\$55B total U.S. addressable market; >\$2B annual core market opportunity within Comprehensive Epilepsy Centers with additional upside from expanding outside Level 4 centers
Unique technology	Closed loop, brain-responsive neuromodulation system
Compelling clinical evidence	Differentiated outcomes that continue to improve over time; additional clinical data underway in Post-approval study (PAS) and in idiopathic generalized, pediatric focal, and LGS populations
Operating execution	Focused on revenue, gross margin and operating expense management; 2024 revenue growth 20%+
Healthy balance sheet	Sufficient capital to support key operating priorities through 2026
Future growth opportunities	Market expansion outside of Level 4 centers; indication expansion into the generalized epilepsy and pediatric focal patient populations

Management Team*



Joel Becker

Chief Executive Officer



Rebecca Kuhn

Chief Financial Officer



Martha Morrell, MD

Chief Medical Officer



Kelley Nicholas

Vice President, Sales

*Recent additions to leadership team in Research and Development, Marketing and Human Resources

Previous Experience





Drug-Resistant Epilepsy (DRE) is a Devastating, Highly Undertreated Disease with Significant Unmet Need

**Epilepsy is a disorder in which abnormal electrical
activity in the brain causes seizures**

4th most common neurological disorder in the U.S.¹

~\$28B direct medical costs in the U.S.¹

2-3X higher unemployment among epilepsy patients²

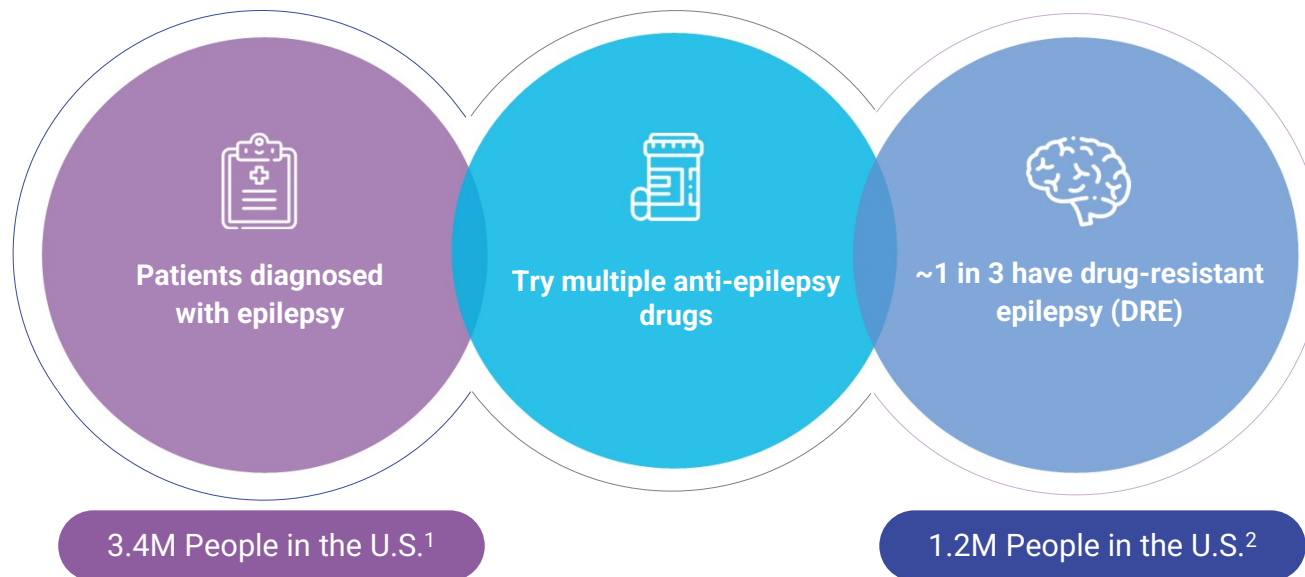
**Drug therapy is unable to control seizures for
1 in 3 patients^{3,4}**

¹Examining the Economic Impact and Implications of Epilepsy, AJMC, February 13, 2020. ²Epilepsy Across the Spectrum 12.4.26: <https://www.ncbi.nlm.nih.gov/books/NBK100603/> ³U.S. Center for Disease Control, August 10, 2017. ⁴Chen, Z., et al., JAMA Neurology, 2017.

U.S. Prevalence: 1/3 of Epilepsy Patients are Drug Refractory

Drug-resistant epilepsy (DRE) defined as a patient failing to achieve sustained seizure freedom after trying two antiseizure medications³

DIAGNOSIS & FIRST LINE TREATMENT



DRE patients who may not appear to be appropriate candidates for epilepsy surgery should still be referred to a tertiary epilepsy center to evaluate potential other interventions³

7 | ¹U.S. Center for Disease Control, August 10, 2017. ²Chen, Z., et al., JAMA Neurology, 2018. ³Jehi L, Jette N, Kwon C-S, Josephson CB, Burneo JG, Cendes F, Timing of referral to evaluate for epilepsy surgery: Expert Consensus Recommendations from the Surgical Therapies Commission of the International League Against Epilepsy. Epilepsia. 2022;00:1–16. <https://doi.org/10.1111/epi.17350>.

RNS System - Novel Therapy to Address Unmet Need

Brain-Responsive Neuromodulation System Provides Unique Window to the Brain



Monitors

Brain activity continuously



Recognizes & Responds

To patient-specific seizure patterns



Records

Ongoing iEEG data for physicians to review

Epilepsy Treatment that is

- Personalized
- Targeted
- Data-driven



Implantable Device with nearly 11-year battery



Physician Programmer

Patient Remote Monitor



Patient Data Management System

RNS System Data

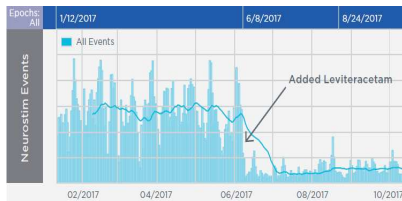
Allows Physicians to Actively Manage and Customize Ongoing Patient Care

Identify Seizure Triggers

Monitor Patient Progress

See Effects of Therapy Changes

Therapy change

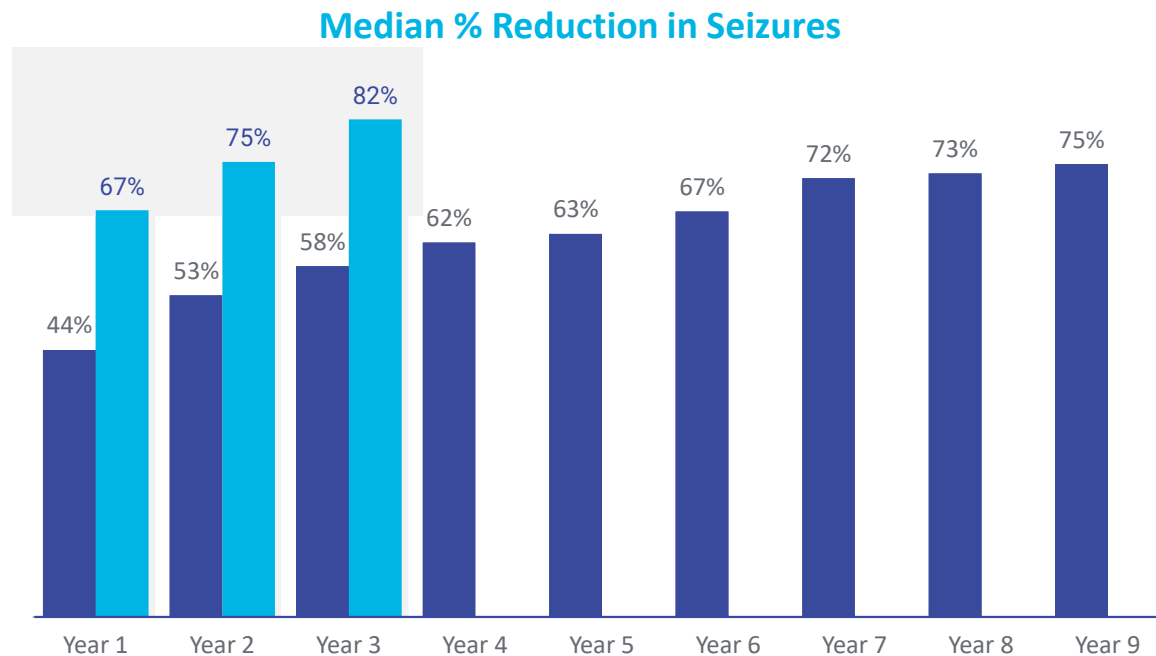


Reveal Seizure Cycles



Electrographic seizures

Impressive Seizure Reductions Improve Over Time



Original FDA Study Results:^{1,2}

- Statistically greater seizure reduction than sham therapy at 5 months
- 75% median seizure reduction at 9 years
- 28% of patients achieved ≥ 6 months of seizure freedom

Real World & FDA Post Approval Study Results:

- 67% median seizure reduction at 1 year^{3,4}
- 75% median seizure reduction @ 2 years⁴
- 82% median seizure reduction at 3+ years⁴
- ~1 in 3 patients with > 90% reduction in seizures⁴

Improvements shown in:

Cognitive Function | Quality of Life | Mental Health | SUDEP

★ PAS 3-year follow-up data submitted to FDA

Alternative Treatment Options Have Significant Risks and Side Effects

Epilepsy Surgery

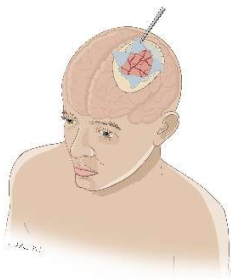
Irreversible destructive procedure

Carries neurocognitive risks: impaired memory, reduced naming ability, and loss of some part of their visual field

~20% of patients are ideal candidates¹

Resection

Laser Ablation



Neuromodulation Competitors

Fixed anatomical target

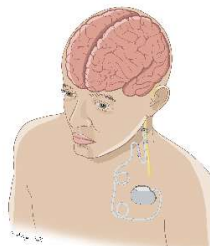
Not responsive to brain activity

Lengthy stimulation cycles result in side effects: depression, memory impairment, and sleep disruption

No detailed iEEG recordings or event trending

VNS

DBS



RNS Therapy

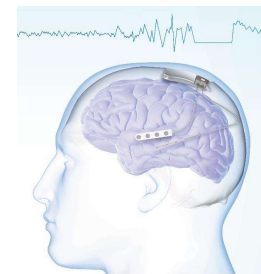
Therapy at seizure source only when needed

Responds to patient specific abnormal events

No stimulation related side effects

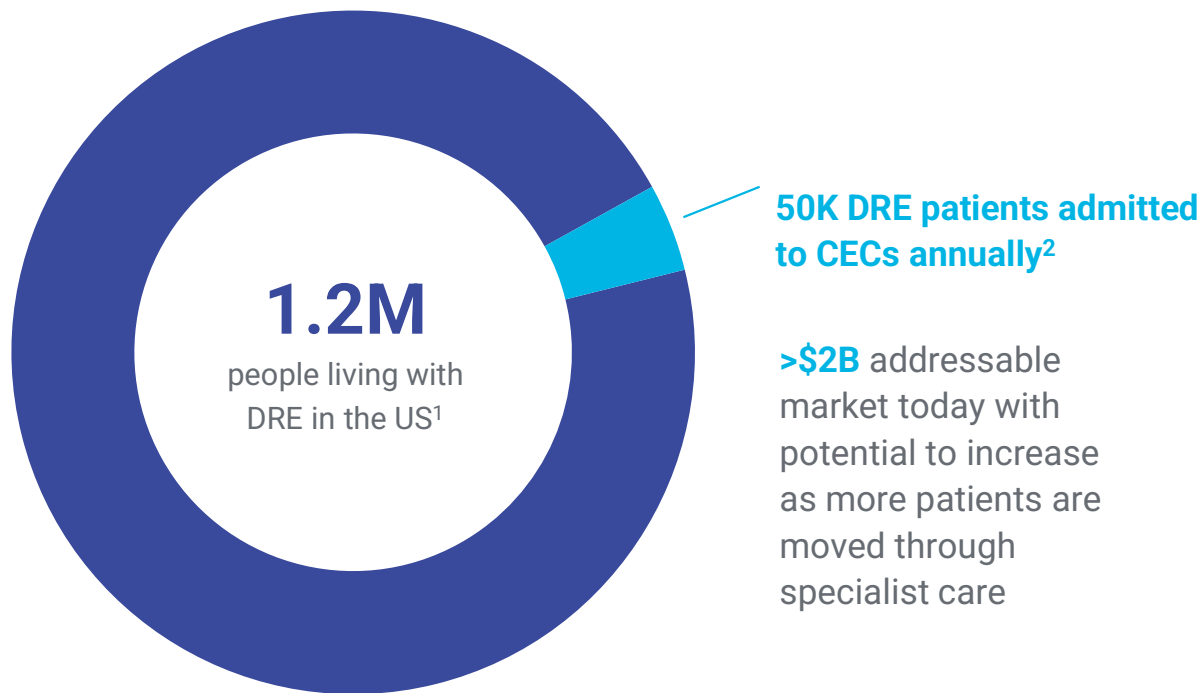
Reduced risk of SUDEP

Detailed iEEG recordings and event trending



Closing the Treatment Gap

CEC Growth Opportunity



MACRO TRENDS

- Number of CECs increased from 151 in 2012 to 256 in 2019³
- 150% increase in number of epileptologists per capita from 2012 to 2019³
- Epilepsy monitoring unit (EMU) admissions increased 5% per year from 2016 to 2019³
- Patient advocacy groups advocating for increased care
- ILAE treatment recommendations for DRE encourage more/earlier evaluation of interventional treatment⁴
- Improved diagnostics and therapies lowering barriers for patients

¹Chen, Z., et al., JAMA Neurology, 2017. ²Definitive Healthcare Claims Database for Epilepsy Patients who received Inpatient VEEG in 2019
³Ostendorf, et al, Epilepsia, 2022 ⁴Jehi L, Jette N, Kwon C-S, Josephson CB, Burneo JG, Cendes F, Timing of referral to evaluate for epilepsy surgery: Expert Consensus Recommendations from the Surgical Therapies Commission of the International League Against Epilepsy. Epilepsia. 2022;00:1–16. <https://doi.org/10.1111/epi.17350>

Current Patient Population Focus



6.5K

DRE patients get treatment beyond drugs annually³



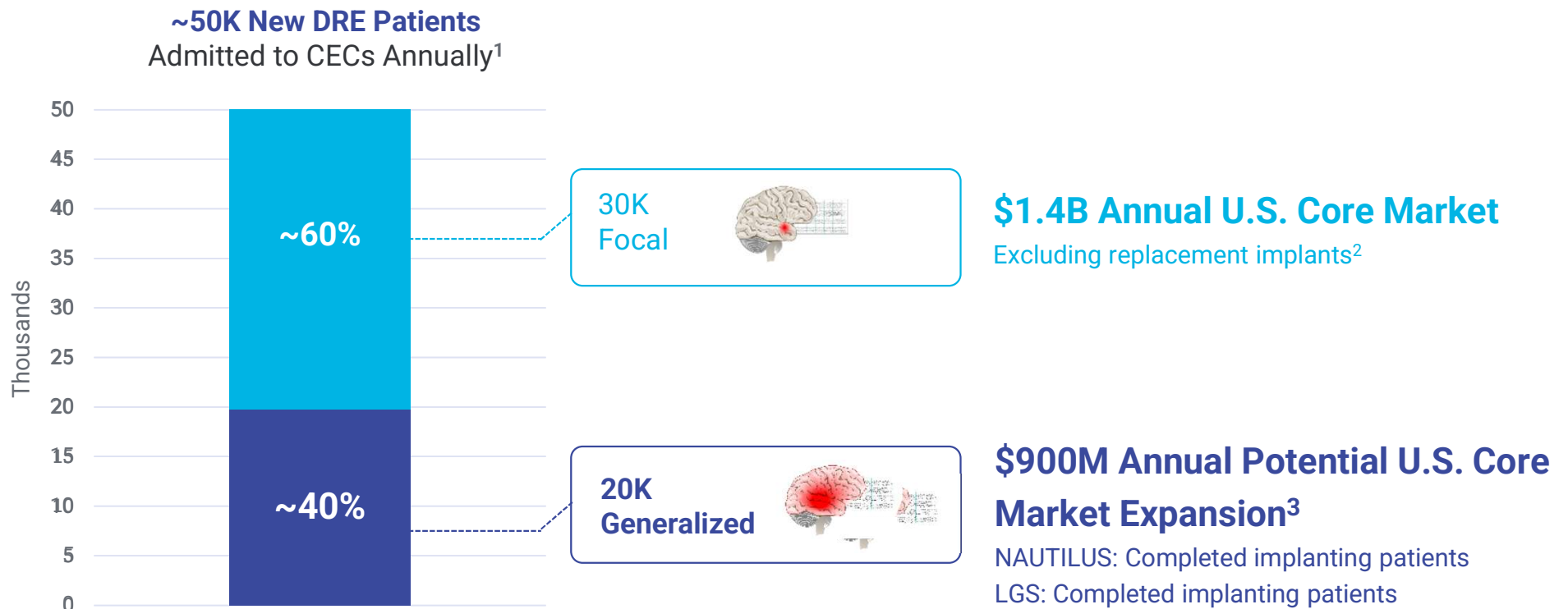
50K DRE

patients admitted to Comprehensive Epilepsy Centers annually²

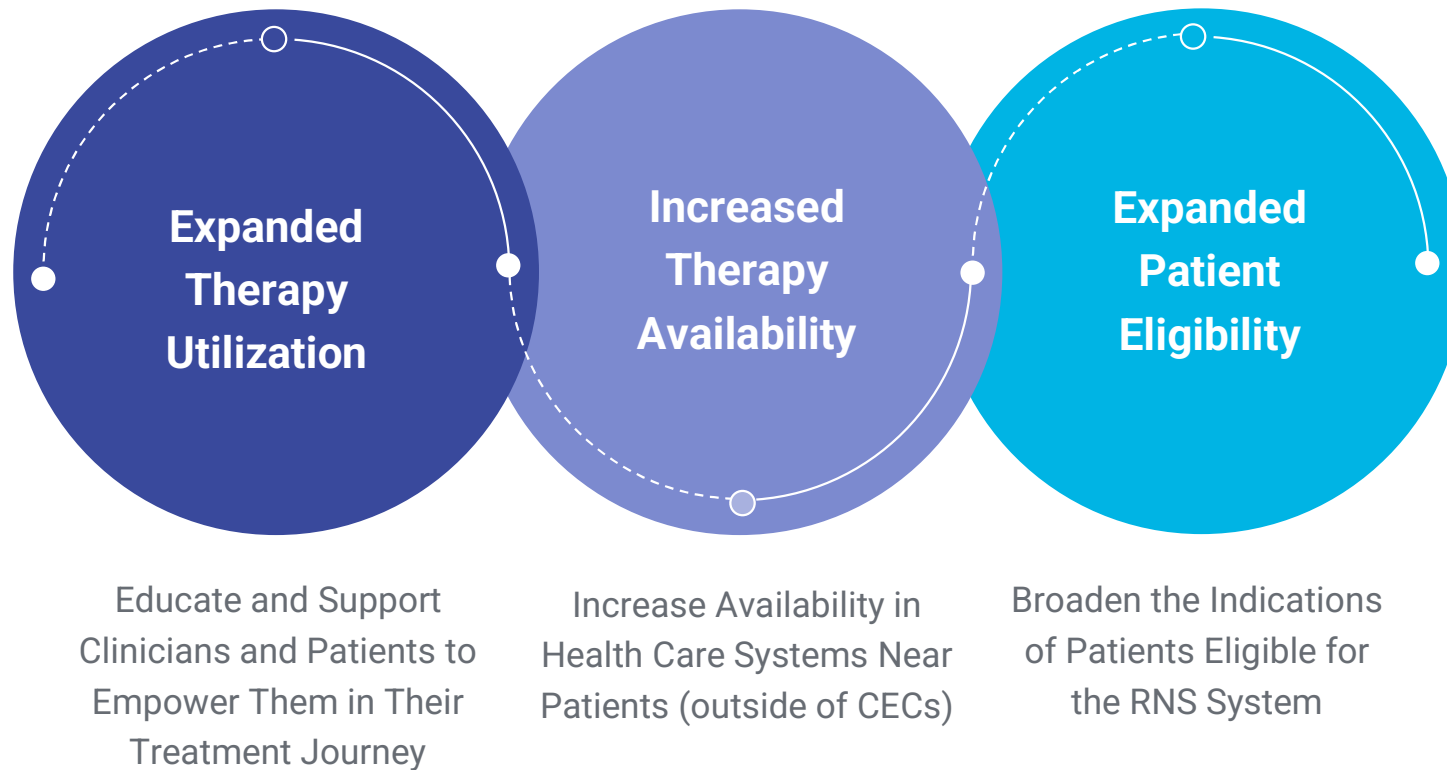


Significant Opportunity Exists to Close the Treatment Gap!

Annual Core U.S. Market Opportunity at CECs >\$2 Billion

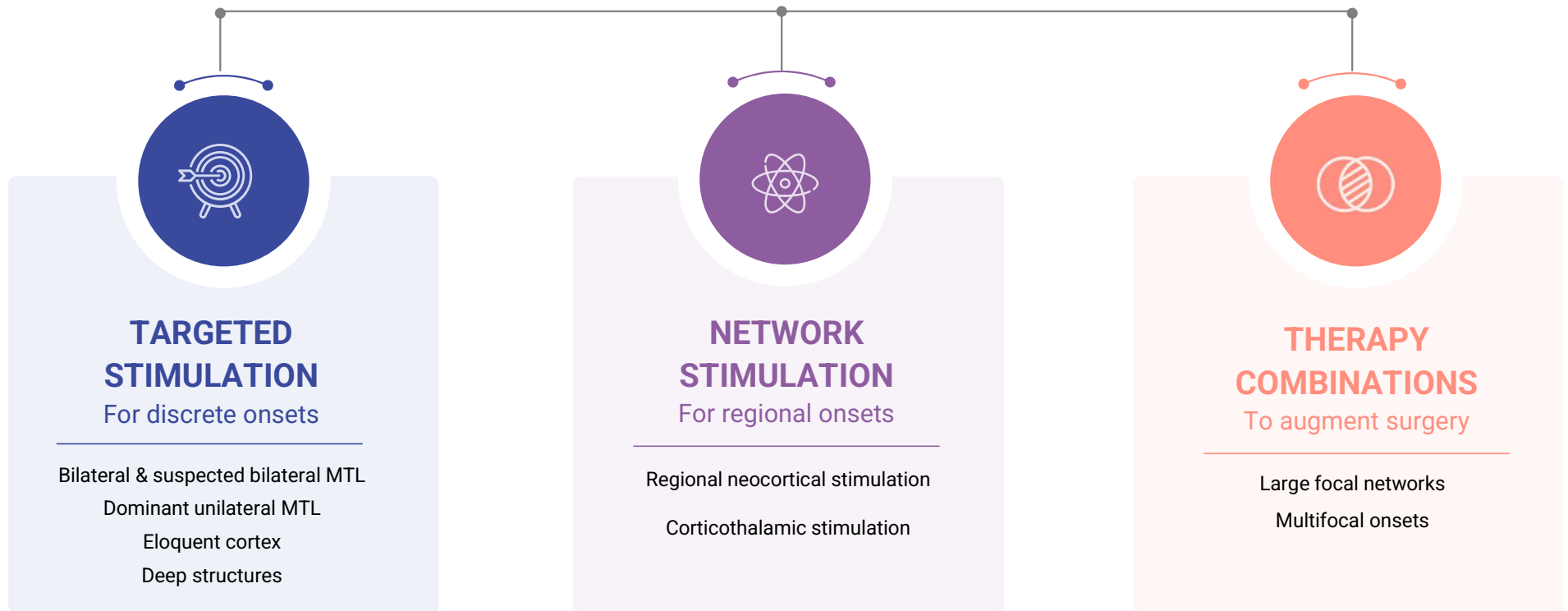


Closing the Epilepsy Treatment Gap Through Expanded Therapy Access



Expanded Therapy Utilization: Strategies for Focal, Refractory Epilepsy

RNS® System Enables Diverse Treatment Approaches



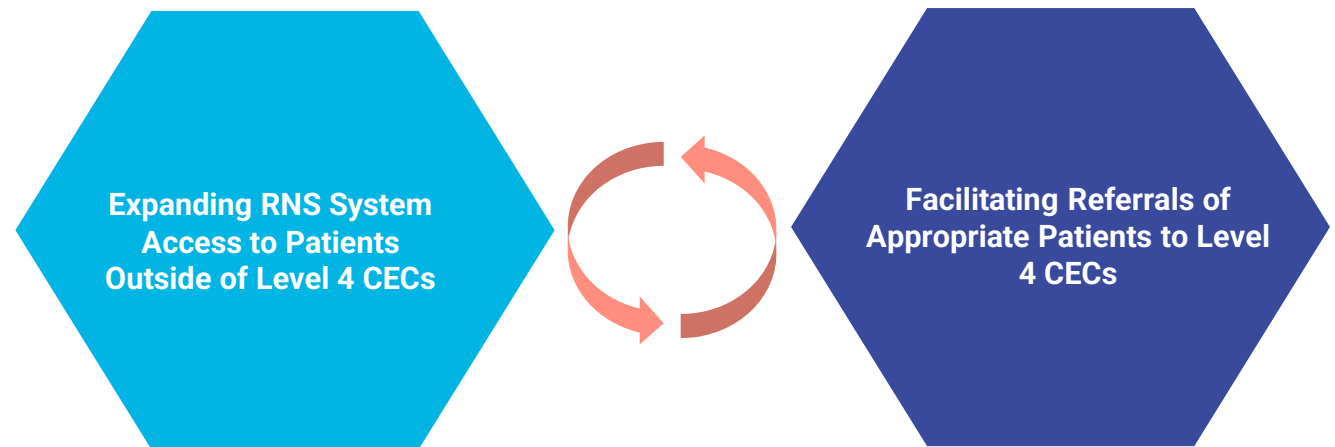
Market Expansion: Project CARE – Bringing the RNS System into the Community

Community Expansion – Making the RNS System Accessible to Patients and Clinicians outside of Level 4 CECs

- Expanding to additional 1,800 epileptologists and all functional neurosurgeons practicing outside of Level 4 CECs
- Significant expansion of RNS System TAM
- Palpable interest: patients implanted in community before official pilot launch

Project CARE Timeline

- 2024: Pilot Activities
- 2025: Program Expansion



Indication Expansion: Generalized Epilepsy

Patient Eligibility Indication Expansion – RNS System indication for Generalized Epilepsy

- 40% of DRE market
- Shorter diagnostic process
- Shorter time from patient identification to implant



Generalized Epilepsy Clinical Trials

- **NAUTILUS**
 - Breakthrough Device Designation status
 - Enrollment and implants complete
 - One-year follow-up to be complete in March 2025
- **Lennox-Gastaut Syndrome (LGS)**
 - NIH-funded
 - Enrollment and implants complete

2023

2024-2025

2025-2026

Closing the Treatment Gap: Enhanced RNS Therapy Access

CECs: Focus on Adoption Across Clinicians and Expanded Therapy Utilization by current prescribers

- Build on encouraging initial implant growth
- Network stimulation
- Clinical evidence

2023

2024-2025

2025-2026

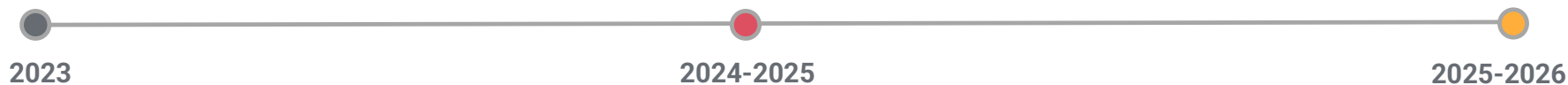
Closing the Treatment Gap: Enhanced RNS Therapy Access

Community Expansion: RNS System Access outside of Level 4 CECs / building referral pathways

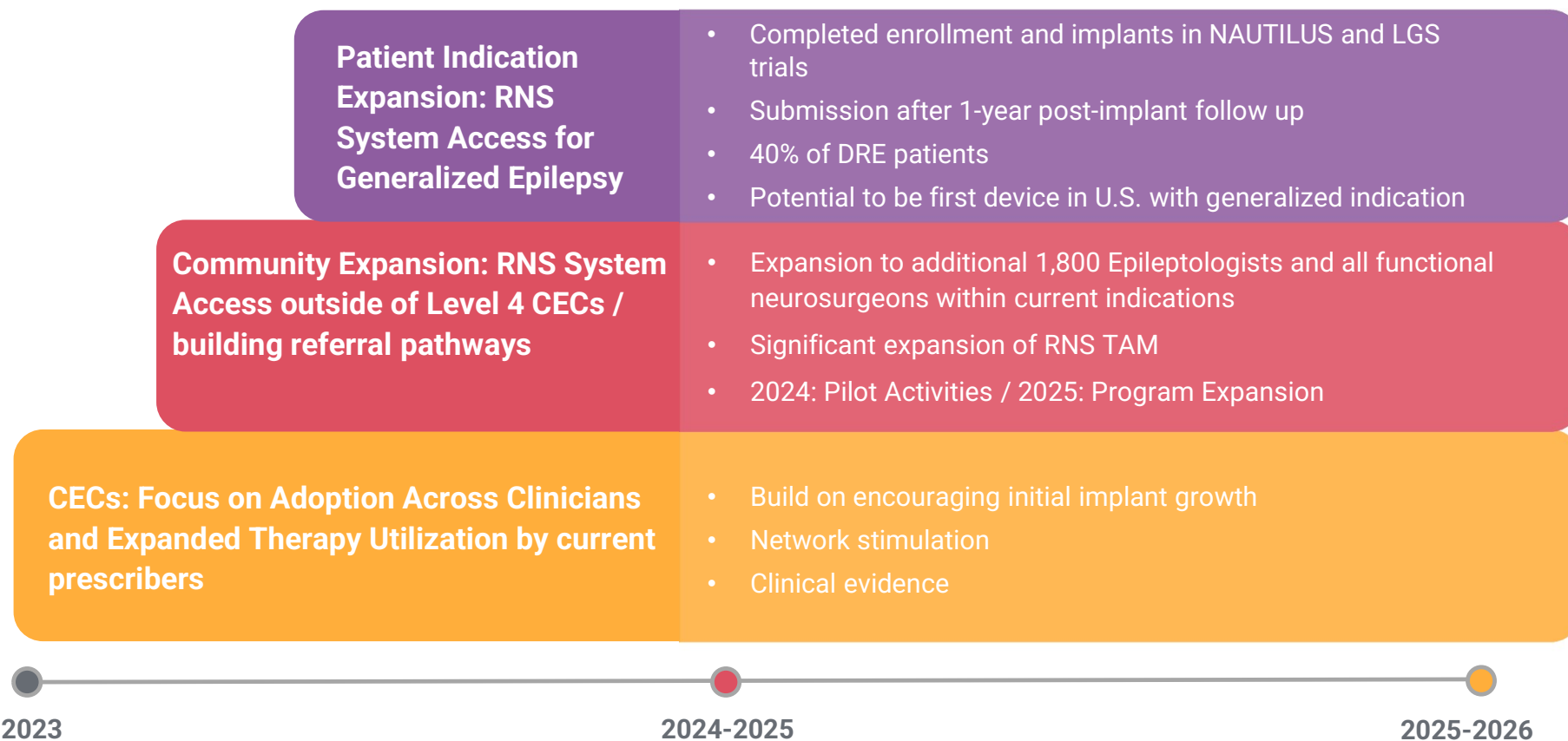
- Expansion to additional 1,800 Epileptologists and all functional neurosurgeons within current indications
- Significant expansion of RNS TAM
- 2024: Pilot Activities / 2025: Program Expansion

CECs: Focus on Adoption Across Clinicians and Expanded Therapy Utilization by current prescribers

- Build on encouraging initial implant growth
- Network stimulation
- Clinical evidence



Closing the Treatment Gap: Enhanced RNS Therapy Access



Leveraging the Power of the RNS System's Data Collection, Brain Monitoring and Analysis Capabilities

Strategic Collaboration Demonstrates NeuroPace's Data Offers a Window to the Brain® and May Help Inform Treatment Strategies

First of its kind collaboration: initial step into extending the benefits of NeuroPace's unique data monitoring and analysis capabilities to more patients and physicians:

- Collaboration uses data collected from currently implanted RNS System patients who enroll in a clinical-stage biotechnology company's proof of concept, Phase 2a, clinical trial.
- NeuroPace provides information and insights to help evaluate the impact of an investigational product candidate on certain biomarkers associated with focal seizures.

Key objective: Leverage NeuroPace's unique ability to monitor, sense, record brain activity and treat patients to provide value to more patients by offering insights into potential future therapies and helping further refine how patients implanted with the RNS System can be optimally treated.

DIXI Partnership Offers Comprehensive Solution for Seizure Localization



Focal Seizures

Start in specific locations of the brain

Stereo EEG electrodes are used in CECs for seizure localization

- Determine starting location and transmission network of seizures
- Stereo EEG is less invasive, offers faster patient recovery, and has become the predominate approach for intracranial monitoring



Distribution of DIXI Stereo EEG Products Leads to Earlier Patient Engagement



Accelerates core RNS business by helping to inform therapy decisions earlier

- ~2/3 of RNS patients go through intracranial EEG monitoring as part of the diagnostic process
- Most patients that have stereo EEG procedure are not currently getting RNS Therapy – growth potential



Provides visibility into diagnostic evaluation pipeline

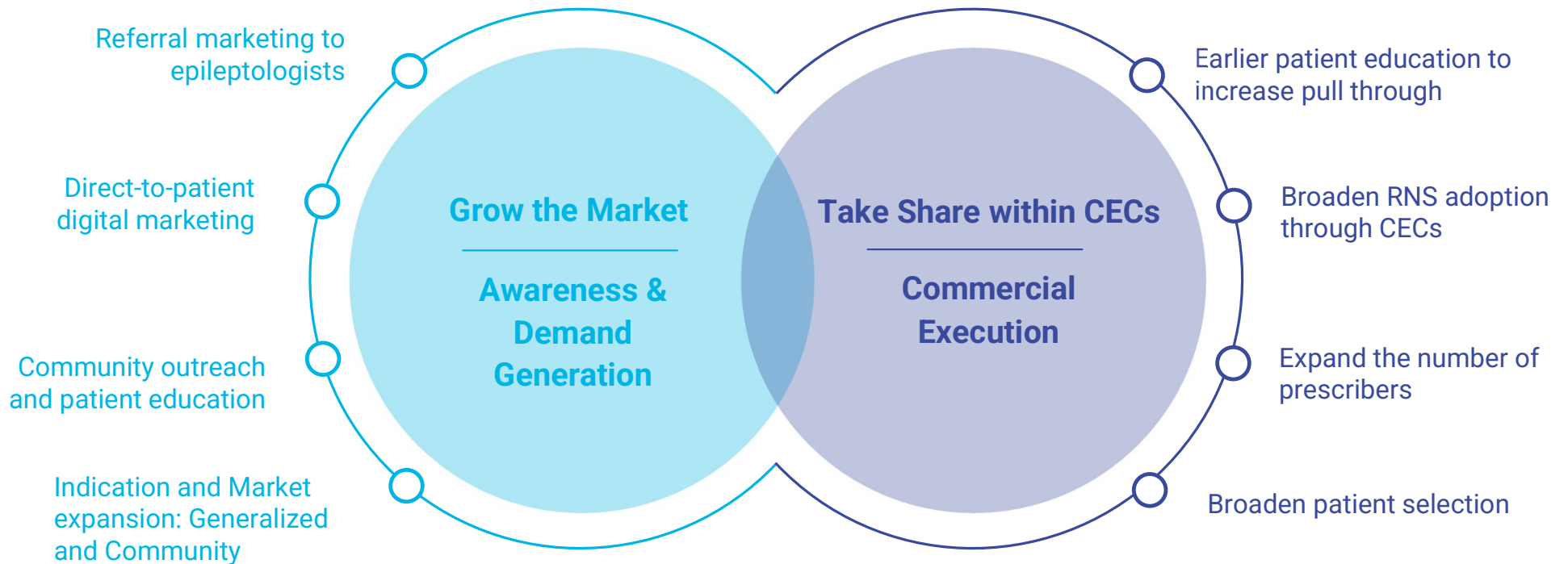
- Typically 2-3 months from stereo EEG procedure to RNS implant



Additional revenue source leveraging existing field team

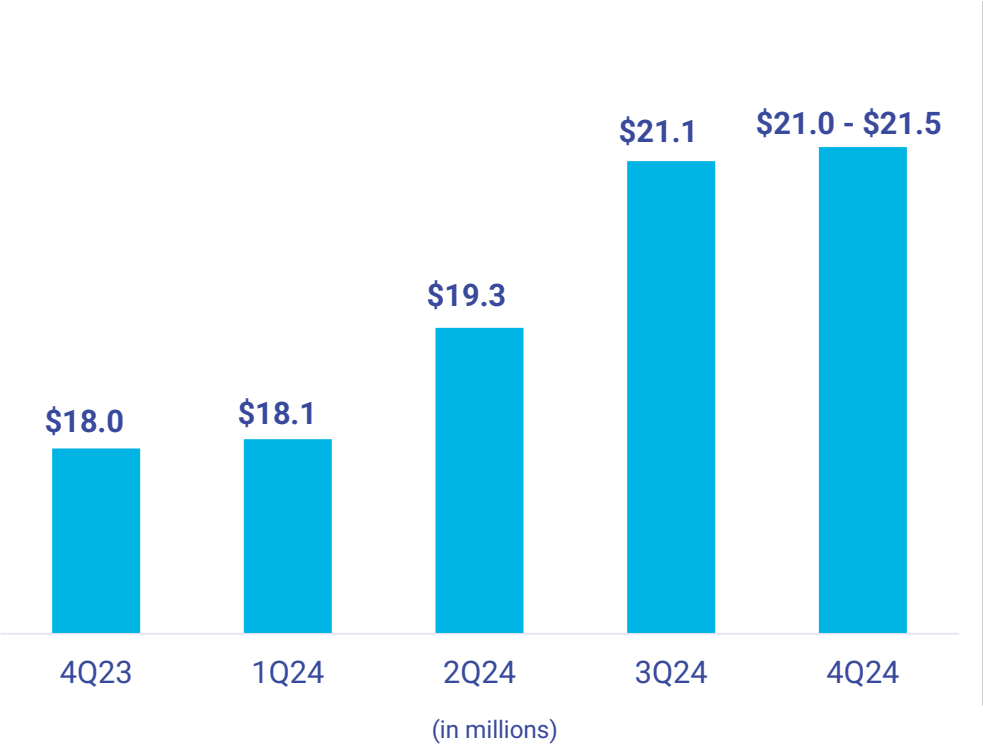
- Same account and physician call point - neurosurgeons and epileptologists at CECs
- Most NeuroPace RNS implanting centers are not currently using DIXI electrodes – growth potential
- Intracranial monitoring market in the United States is estimated to be between \$25 million to \$40 million

Closing the Treatment Gap to Drive Long-Term Growth



Financial Performance

Total Cash Balance of approximately \$52.8M (as of 12/31/2024) provides sufficient capital to support key operating priorities



	Preliminary 4Q24	Preliminary FY2024
	(unaudited)	(unaudited)
Revenue	\$21.0M - \$21.5M	\$79.4M - \$79.9M*
Revenue growth (y/y)	17% - 19%	21% - 22%

*initial 2024 revenue guidance: \$73M - \$77M

Summary

Positioned for growth and focused on revenue, operating discipline, and effective cash management

Prioritizing utilization and adoption of the RNS System across existing and new clinicians

Project CARE to expand access to the RNS System outside of Level 4 centers

Indication expansion efforts into IGE on track with NAUTILUS pivotal trial enrollment and implants complete



Transforming the lives of people suffering from epilepsy by reducing or eliminating the occurrence of debilitating seizures



In-Person and Virtual Investor Day to Discuss RNS[®] System in Drug-Resistant Epilepsy

Tuesday, January 28, 2025 | 9:00 AM - 12:00 PM ET
New York, NY and Live Webcast

[CLICK HERE TO REGISTER & ATTEND](#)