



NeurAxis, Inc.



Reimagining an Evidence-Based, Drug Free Alternative For Children

August 27, 2024

NeurAxis is committed to providing solutions that create value and provide better patient outcomes. We believe in improving lives and minimizing suffering. Through innovation and research, we are reimagining the future of patient care.

Forward Looking Statements

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

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This PowerPoint discusses ongoing research activities and investor-directed information with percutaneous electrical nerve field stimulator (PENFS) technology. Please note, that the PowerPoint includes information about technology and intended uses of that technology which have not been reviewed or approved/cleared by the U.S. FDA, and is being provided for informational purposes only. NeurAxis does not recommend or suggest the use of its PENFS™ IB-Stim™ device for uses beyond those that are cleared by the U.S. FDA. See <https://ibstim.com/important-information/>.

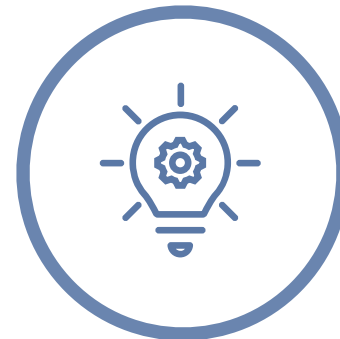
NeurAxis PENFS¹: First FDA Indicated Treatment for Pediatric FAP/IBS²



Strong Data = Strong Policy Coverage & Reimbursement = Strong Revenue Growth

Large Global Market with Significant Unmet Need

- \$23B+ TAM³ for target pipeline indications
 - \$9B+ TAM³ for target pediatric indications (near-to-mid term)
 - \$14B+ TAM³ for target adult indications (mid term)
- Large unmet clinical need: high refractory, off label pharmacological treatments with adverse side effects

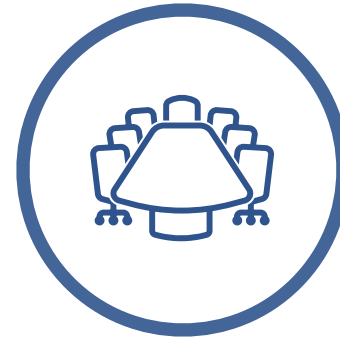


Unique, Innovative Product Supported by Clinical Evidence

- Novel treatment targeting the brain-gut-axis
- Differentiated PENFS technology
- 700+ published patients⁴
- Easy-to-learn and efficient procedure

Clear Commercial Pathway

- FDA De Novo clearance
- Technology specific CPT billing code
- Major Insurance Payer Coverage initiated
- Strong IP on Device and Method

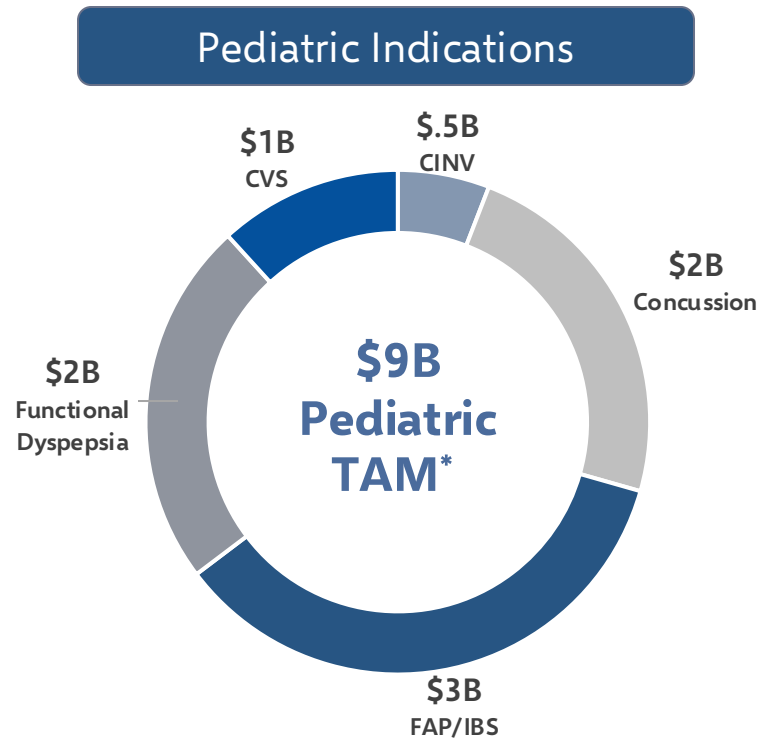


Seasoned Management and Board

- Experienced management team and Board of Directors
- Operations and infrastructure built to scale
- Path to profitability

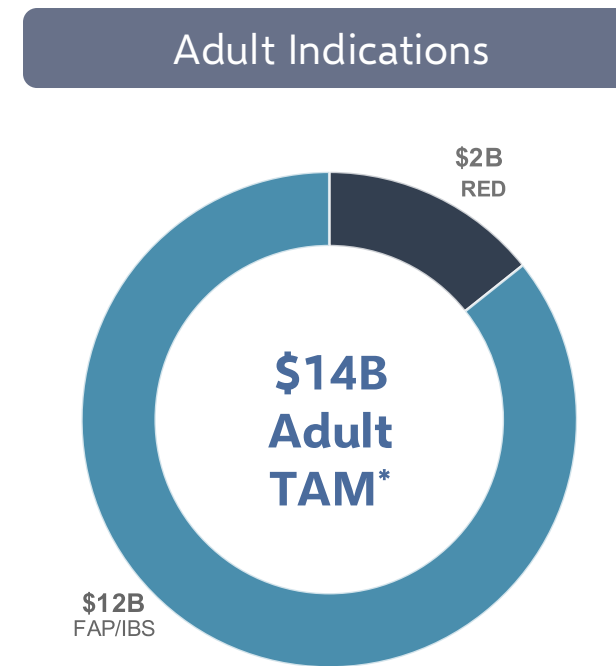
1. Percutaneous Electrical Nerve Field Stimulation
2. FAB/IBS: Functional Abdominal Pain/Irritable Bowel Syndrome
3. Total Addressable Market (TAM) - Calculated by the total number of patients we target to treat multiplied by the revenue potential from each patient
4. Published patient - a patient who went through a study and the study was analyzed and now the study has been published in a peer-reviewed journal

\$23B+ Total Addressable U.S. Market for Pipeline Indications



Why Pediatrics?

- Significant unmet need
- Lack of FDA approved treatment options
- Single call point for future indications



Entering Pediatric markets first with:

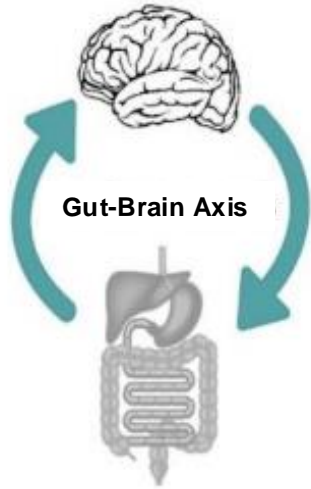
- First FDA cleared treatment for Pediatric FAP/IBS
- Growing Body of Clinical Evidence
- Coding, Coverage and Payment
- KOL and AAP/NASPGHAN endorsement

DGBIs: A Problem with an Unmet Need

- No FDA-approved therapies for children with abdominal pain-related disorders of the gut-brain interactions (DGBIs)
- Disorders negatively impact quality of life and ability to function (attend school, sports, and social activities)
- Insufficient data to support the use of the most prescribed drugs, some with serious side effects
- A growing number of families and providers are seeking non-pharmacologic alternatives for children



Abnormal processing of signals to and from the gut

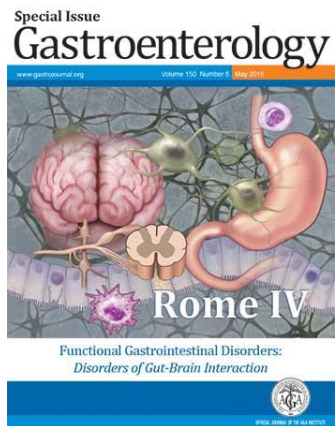
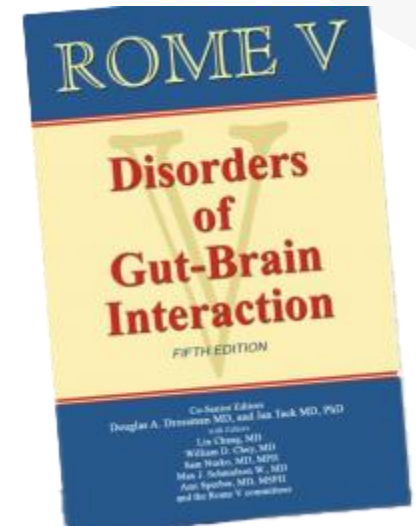


Disorders of
the Gut-Brain
Interaction
(DGBIs)

Functional
Dyspepsia

Irritable
Bowel
Syndrome

Cyclic
Vomiting
Syndrome



Functional Dyspepsia – pain or discomfort located in the upper abdomen

Irritable Bowel Syndrome (IBS) –characterized by abdominal discomfort or pain associated with defecation or a change in bowel habit.

Cyclic Vomiting Syndrome – recurrent episodes of intense nausea and vomiting lasting hours to days with intervals of normal wellbeing lasting weeks to months.

Data Does Not Support Standard Pharmacotherapy in Children with IBS



No data to support use of Antidepressants in Children with Functional Abdominal Pain:

- Amitriptyline (TCA) did not beat placebo in RCT¹
- Citalopram (SSRI) did not beat placebo in RCT²

Significant Risk of TCA Side Effects in Children:



- Increased risk of suicidal ideation (black box warning)³
- Mood changes
- EKG disturbance⁴
- Long-term risk of dementia⁵

Substantial Patient Need for Safe & Effective, Non-Pharmacological Alternatives:

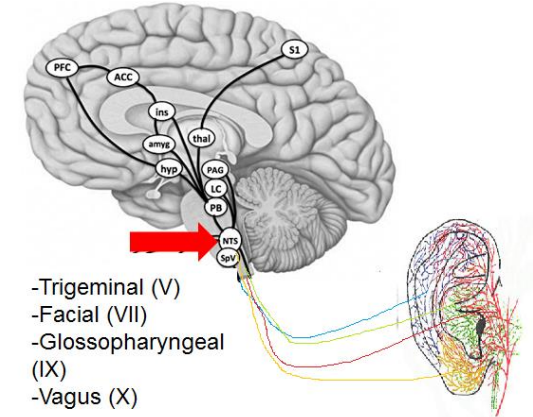
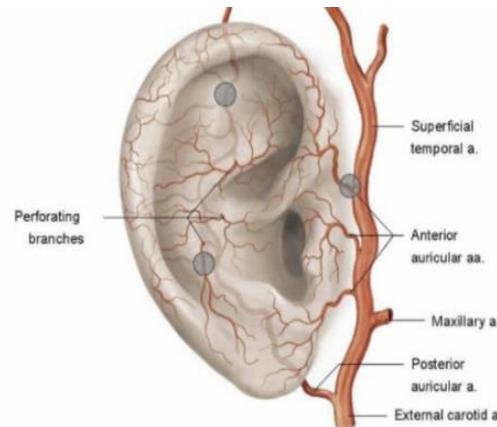
- Growing number of families seeking alternative therapies for pain in children⁶

1. Saps M, Youssef N, Miranda A, et al. Multicenter, randomized, placebo-controlled trial of amitriptyline in children with functional gastrointestinal disorders. *Gastroenterology*. 2009;137:1261-1269.
2. Roohafza H, Pourmoghadass Z, Saneian H, Gholamrezaei A. Citalopram for pediatric functional abdominal pain: a randomized, placebo-controlled trial. *Neurogastroenterol Motil*. 2014;26:1642-1650.
3. Jick H, Kaye JA, Jick SS. Antidepressants and the risk of suicidal behaviors. *JAMA*. 2004;292:338-343.
4. Chogle A, Saps M. Electrocardiograms changes in children with functional gastrointestinal disorders on low dose amitriptyline. *World J Gastroenterol*. 2014;20:11321-11325.
5. Coupland CAC, Hill T, Denning T, Morris R, Moore M, Hippisley-Cox J. Anticholinergic Drug Exposure and the Risk of Dementia: A Nested Case-Control Study [published online ahead of print, 2019 Jun 24]. *JAMA Intern Med*. 2019;179:1084-1093.
6. Groenewald CB, Beals-Erickson SE, Ralston-Wilson J, Rabbitts JA, Palermo TM. Complementary and Alternative Medicine Use by Children With Pain in the United States. *Acad Pediatr*. 2017;17:785-793.

Percutaneous Electrical Nerve Field Stimulation (PENFS)



How Does Neuromodulation Work?



1. Access

Direct access to central nervous system (CNS) through peripheral cranial nerves

2. Stimulate

Stimulation reduces firing of amygdala

3. Change

Induces changes in brain pathways/connectivity

Established Technology with Demonstrated Safety and Efficacy



What is IB-Stim™

- PENFS system intended for patients 11-18 years of age with functional abdominal pain (FAP) associated with IBS
- Aids in pain reduction via neuromodulation to branches of Cranial Nerves (V,VII,IX and X)
- Non-drug and non-surgical device therapy that can be placed in an outpatient clinic
- Used 120 hours per week for up to 3-4 consecutive weeks*


FDA De Novo
Clearance

CPT CAT III
Effective July 1,2022

* FDA guidance of 3 weeks not to exceed 4 weeks

IB-Stim™ Advantages Over Traditional Care

| IB-Stim™ | | Traditional Care |
|----------------------------|---------------------|--|
| FDA Indicated | FDA Clearance | No FDA Approved Treatments |
| Non-Drug Alternative | Physicians/ Parents | Rx often Containing FDA Black Box Labels |
| Minimal | Side Effects | Suicidal Ideation, Depression, & Weight Gain |
| Targets The Brain Gut Axis | Delivery | Localized and Peripheral |



MASSACHUSETTS

Blue Cross Blue Shield of Massachusetts is an independent licensee of the Blue Cross and Blue Shield Association

Medical Policy
Percutaneous Electrical Nerve Field Stimulation for Irritable Bowel Syndrome

Table of Contents

- [Policy: Commercial](#)
- [Policy: Medicare](#)
- [Authorization Information](#)
- [Coding Information](#)
- [Description](#)
- [Policy History](#)
- [Information Pertaining to All Policies](#)
- [References](#)
- [Endnotes](#)

Policy Number: 922
 BCBSA Reference Number: N/A
 NCD/LCD: N/A

Related Policies
 Cranial Electrotherapy Stimulation and Auricular Electrostimulation [#362](#)

Policy¹
Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity Medicare HMO BlueSM and Medicare PPO BlueSM Members

IB-STIM® may be considered **MEDICALLY NECESSARY** in children and adolescents when **ALL** of the

Patient Journey



2. Consultation

General Pediatrician

- Pain is generalized, non-specific, showing no “red flags”
- Counsels on lifestyle changes
 - If no benefit, trial of medication
 - If no benefit, referral to Pediatric Gastroenterologist

Families often skip PCP since referral is not required

Pediatric Gastroenterologist

- Blood work (CBC, metabolic panel, inflammatory markers, celiac screen) and stool test
 - If negative, treatment with medication is started
 - Antidepressants (TCAs and SSRIs) used for pain
 - Anti-histamine (Cyproheptadine)
 - Anti-spasmodics (Hyoscyamine)
 - Cognitive behavioral therapy, where available


FDA cleared IB-Stim™ can be used first vs. traditional, off-label pharmacotherapy-based approach



1. Persistent Pain

Patient experiences frequent and often debilitating abdominal pain (weeks, months or years)



5. Follow-Up

- Patient takes off at home after 5 days, gets a 2-day break, then visits a physician for next prescribed treatments for up to 4 weeks.
- Further follow up visits / titration as needed



4. Use/Care

- Stays on for 120 hours (5 days)
- No special care requirements except to avoid getting wet

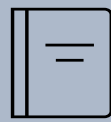


3. Placement

- Outpatient (in-office) procedure placement by acting Physician
- Requires no anesthesia

IB-Stim™ Research – By the Numbers

Strong Data = Strong Policy Coverage & Reimbursement = Strong Revenue Growth



16 Current Publications
Utilizing NeurAxis' PENFS Technology

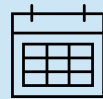
10 Types of Studies



Double Blind
Placebo Controlled

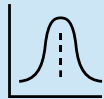


Long-Term
Data



Registry
Data

Clinical fMRI
Study



Quality of
Life Data



Real World
Clinical Data

Animal
Mechanistic Study

Head-to-Head
vs. SoC

Health
Economic Study

Safety
Data

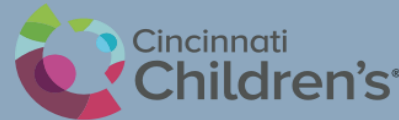
13 Children's Hospital Study Sites



**Boston
Children's
Hospital**



Riley Children's Health
Indiana University Health



**Cincinnati
Children's**



**CHOC
Children's**



**Children's
Wisconsin**



Duke Children's

IB-Stim Publications in Children with DGBIs

Effect of percutaneous electrical nerve field stimulation on mechanosensitivity, sleep, and psychological comorbidities in adolescents with functional abdominal pain disorders

Neha R Santucci¹ | Christopher King² | Khalil I. El-Chammas¹ | Anundorn Wongteerasut¹ | Alisara Damrongmanee¹ | Kahleb Graham¹ | Lin Fei³ | Rashmi Sahay³ | Cheryl Jones¹ | Natoshia R. Cunningham⁴ | Robert C Coghill²

Percutaneous Electrical Nerve Field Stimulation in Children and Adolescents With Functional Dyspepsia—Integrating a Behavioral Intervention

Neha R. Santucci, MD^{1,2}; Alan J. Beigarten, MS¹; Fatima Khalid, MS¹; Khalil I. El-Chammas, MD^{1,2}; Kahleb Graham, MD^{1,2}; Rashmi Sahay, MD³; Lin Fei, PhD²; Kristin Rich, PhD^{2,4}; Michael Mellon, PhD^{2,4}

Prospective study of the effect of auricular percutaneous electrical nerve field stimulation on quality of life in children with pain related disorders of gut-brain interaction

Ashish Chogle^{1*}, Kaajal Visnagra², Jamie Janchoi^{1,3}, Tammy Tran¹, Rachel Davis³, Nicole Callas¹ and Elisa Ornelas^{1,3}

The microbiome in adolescents with irritable bowel syndrome and changes with percutaneous electrical nerve field stimulation

Daniel F. Castillo^{1,2} | Lee A. Denson^{1,2} | David B. Haslam³ | Kevin A. Hommel⁴ | Nicholas J. Ollberding^{2,5} | Rashmi Sahay⁵ | Neha R. Santucci^{1,2}

Percutaneous Electrical Nerve Field Stimulation for Drug-Refractory Pediatric Cyclic Vomiting Syndrome

Karrento, Katia MD^{*}; Venkatesan, Thangam MD[†]; Zhang, Liyun MSc[‡]; Pawela, Louis BS^{*}; Simpson, Pippa PhD[‡]; Li, B U.K. MD^{*}

Percutaneous electrical nerve field stimulation compared to standard medical therapy in adolescents with functional abdominal pain disorders

Neha R. Santucci^{1,2*}, Rashmi Sahay², Khalil I. El-Chammas^{1,2}, Kahleb Graham^{1,2}, Mikaela Wheatley^{1,2}, Madeleine Vandenbrink², Jennifer Hardy² and Lin Fei³

Percutaneous Electrical Nerve Field Stimulation Compared to Standard Medical Therapy in Adolescents with Functional Abdominal Pain Disorders

Neha R. Santucci^{1, 2*} Rashmi Sahay¹ Khalil I. El-Chammas^{1, 2} Kahleb Graham^{1, 2} Mikaela Wheatley^{1, 2} Madeleine Vandenbrink² Jennifer Hardy² and Lin Fei³

Percutaneous Electrical Nerve Field Stimulation Improves Comorbidities in Children with Cyclic Vomiting Syndrome

Katja Karrento^{1*}, Liyun Zhang², William Conley¹, Zeeshan Qazi³, Thangam Venkatesan⁴, Pippa Simpson², B U. Li¹

A multicenter registry study on percutaneous electrical nerve field stimulation for pediatric disorders of gut-brain interaction

Ashish Chogle¹ | Khalil El-Chammas² | Neha Santucci² | Monica Grimm³ | Lev Dorfman² | Kahleb Graham² | Daniel R. Kelly⁴ | Jason E. Dranove⁴ | Rachel Rosen⁵ | Samuel Nurko⁵ | Joseph Croffie⁶ | Keshawadhana Balakrishnan⁷ | Eric H. Chiou⁷ | Liyun Zhang³ | Pippa Simpson³ | Katja Karrento³

Percutaneous electrical nerve field stimulation for adolescents with irritable bowel syndrome: Cost-benefit and cost-minimization analysis

Eric Shah | Shanti Eswaran, Kimberly Harer, Allen Lee, Borko Nojkov, Prashant Singh, William D. Chey

Neurostimulation for abdominal pain-related functional gastrointestinal disorders in adolescents: a randomised, double-blind, sham-controlled trial

Katja Kovacic, Keri Hainsworth, Manu Sood, Gisela Chelimsky, Rachel Unteutsch, Melodee Nugent, Pippa Simpson, Adrian Miranda

Impact of auricular percutaneous electrical nerve field stimulation on gut microbiome in adolescents with irritable bowel syndrome: A pilot study

Geetanjali Bora, Samantha N. Atkinson, Amy Pan, Manu Sood, Nita Salzman, Katja Karrento

Impaired Vagal Efficiency Predicts Auricular Neurostimulation Response in Adolescent Functional Abdominal Pain Disorders

Katja Kovacic, MD¹, Jacek Kolacz, PhD^{2,3}, Gregory F. Lewis, PhD²⁻⁴ and Stephen W. Porges, PhD^{3,5}

Minimal adverse effects profile following implantation of periauricular percutaneous electrical nerve field stimulators: a retrospective cohort study

Arthur Roberts¹, Alec Sithole², Marcos Sedghi³, Charles A Walker⁴, Theresa M Quinn⁵

Efficacy of Auricular Neurostimulation in Adolescents With Irritable Bowel Syndrome in a Randomized, Double-Blind Trial

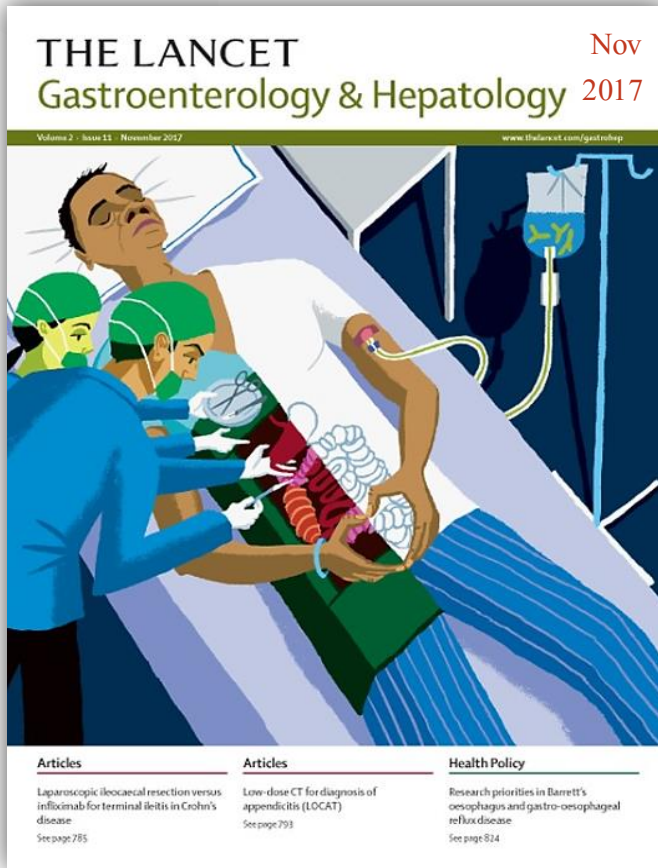
Amornluck Krasaelap, Manu R. Sood, B U. K. Li, Rachel Unteutsch, Ke Yan, Melodee Nugent, Pippa Simpson, and Katja Kovacic

Impaired Vagal Efficiency Predicts Auricular Neurostimulation Response in Adolescent Functional Abdominal Pain Disorders

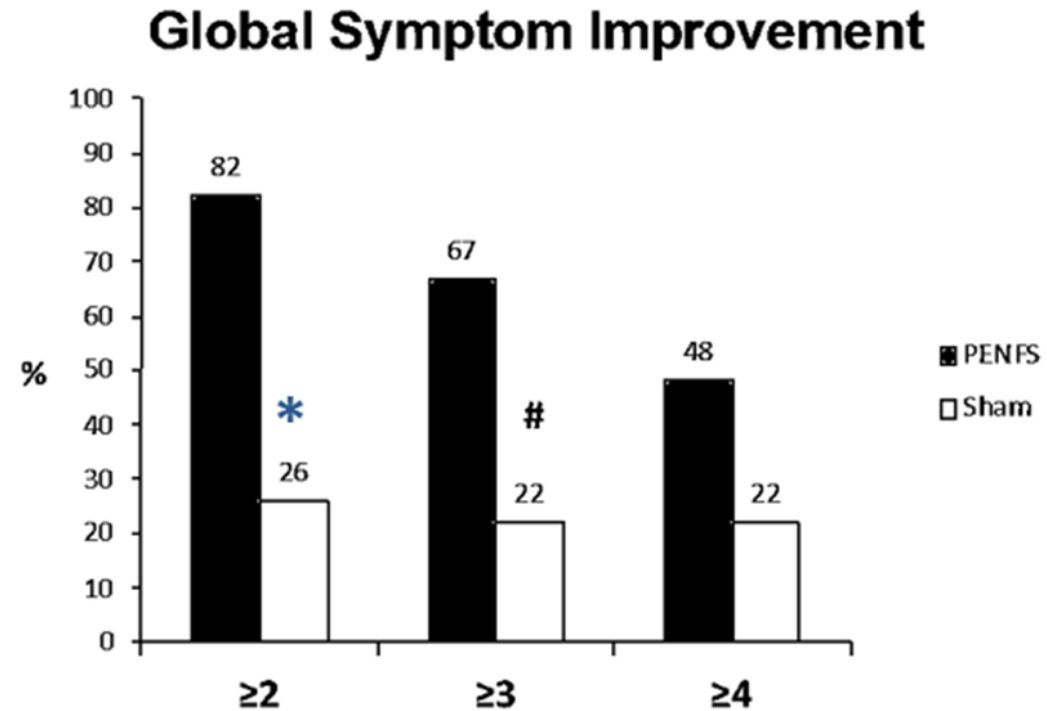
Katja Kovacic, MD¹, Jacek Kolacz, PhD^{2,3}, Gregory F. Lewis, PhD²⁻⁴ and Stephen W. Porges, PhD^{3,5}

Am J Gastroenterol 2020;115:1534–1538. <https://doi.org/10.14309/ajg.0000000000000753>

Growing Body of Clinical Evidence



Improvement of Global Symptoms in Patients with Irritable Bowel Syndrome

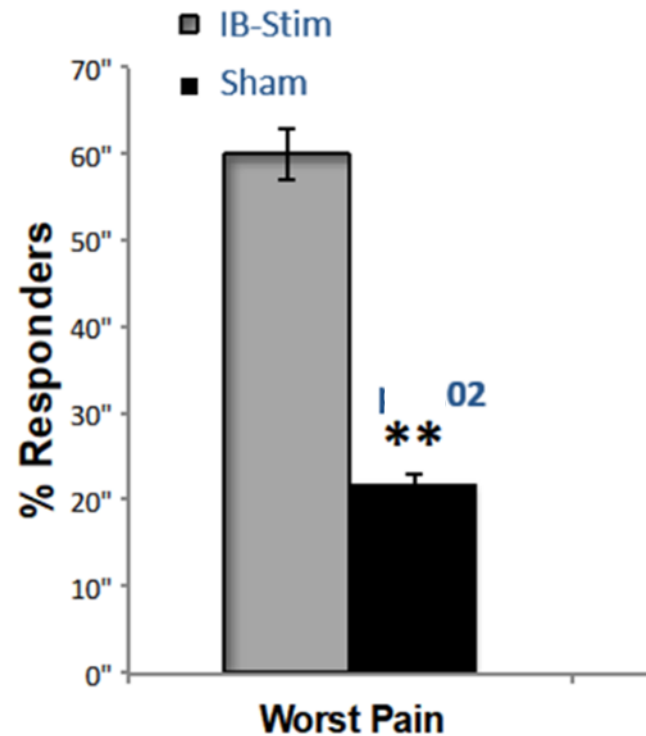


Percent of patients reporting improvement of global symptoms using Symptom Response Scale score ≥ 2 ($p \leq 0.001$), ≥ 3 (# $p = 0.002$) and ≥ 4 ($p = 0.077$)

FDA Benchmark for Clinically Meaningful Endpoint



≥30% Improvement in Pain



Treatment for abdominal pain-related functional gastrointestinal disorders in adolescents:

Number Needed to Treat (NNT):

The number of patients that need to be treated for one patient to get the targeted improvement (≥30% improvement).

IB-Stim NNT=3

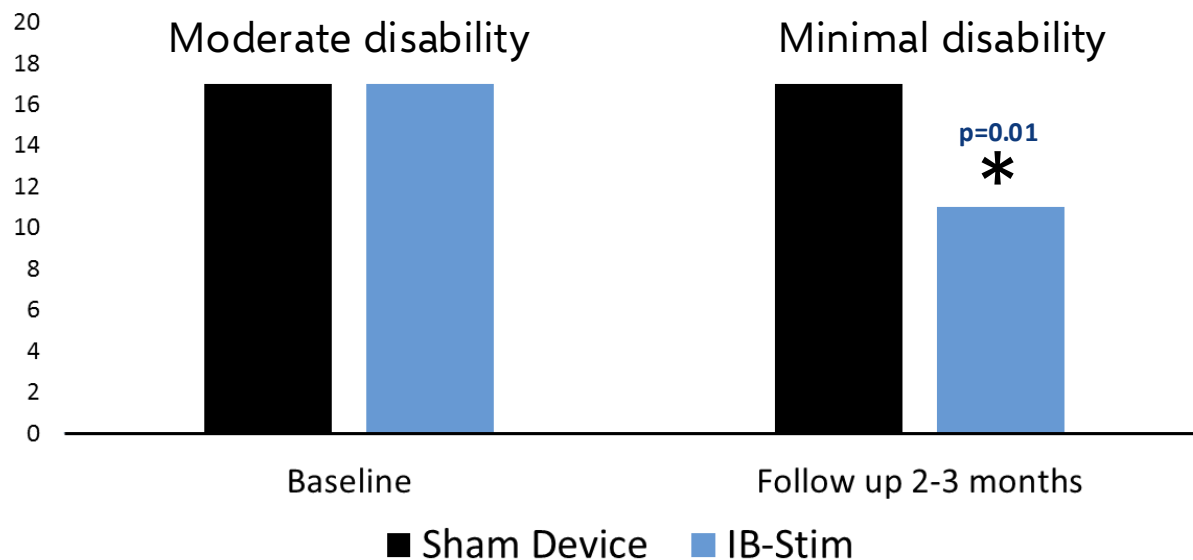
IBS drugs in adults (lubiprostone, linaclotide, and rifaximin)
NNT=6 to 14²

1.Krasaelap A, et al. Efficacy of Auricular Neurostimulation in Adolescents With Irritable Bowel Syndrome in a Randomized, Double-Blind Trial. Clinical Gastroenterology & Hepatology. Clin Gastroenterol Hepatol. 2020;(9):1987-1994

2.Wall GC, et al. Irritable bowel syndrome: a concise review of current treatment concepts. World J Gastroenterol 2014.

Functional Disability Scores at Long-Term Follow-Up

Improvement in Functional Disability in Patients with Irritable Bowel Syndrome




Improving functional disability (attending school and activities) is a marker of overall health and clinically meaningful beyond subjective pain measures

* Based on functional disability index (FDI) developed and validated tool to assess difficulties in daily functioning due to chronic pain.

Largest Pediatric Registry in Children with DGBI

A multicenter registry study on percutaneous electrical nerve field stimulation for pediatric disorders of gut-brain interaction

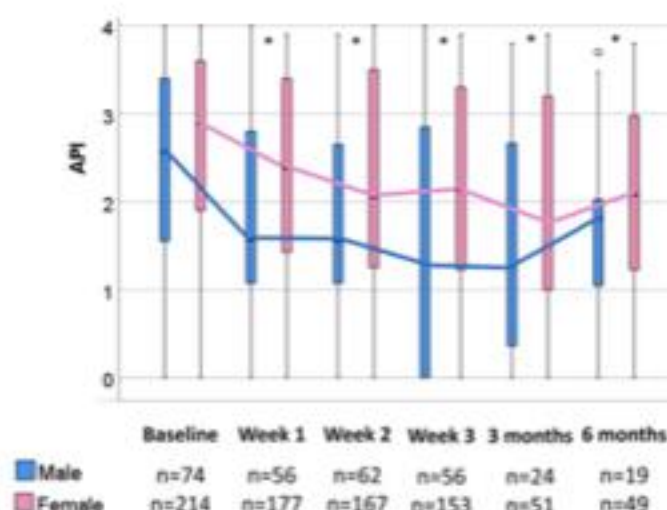
Ashish Chogle¹ | Khalil El-Chammas² | Neha Santucci² | Monica Grimm³ | Lev Dorfman² | Kahleb Graham² | Daniel R. Kelly⁴ | Jason E. Dranove⁴ | Rachel Rosen⁵ | Samuel Nurko⁵ | Joseph Croffie⁶ | Keshawadhana Balakrishnan⁷ | Eric H. Chiou⁷ | Liyun Zhang³ | Pippa Simpson³ | Katja Karrento³ 

- Pediatric registry with “real world” clinical data
- 61% had failed ≥ 4 medication prior to treatment
- Sustained efficacy in abdominal pain up to 6-12 months after 4 weeks of IB-Stim treatment

A multicenter registry study on percutaneous electrical nerve field stimulation for pediatric disorders of gut-brain interaction. J Pediatr Gastroenterol Nutr. 2024

TABLE 1 Participating centers

| Participating centers | |
|--|--------------------|
| Center | Number of patients |
| Cincinnati Children's Hospital | 89 |
| Children's Hospital of Orange County | 75 |
| Children's Wisconsin | 65 |
| Atrium Health Levine Children's Hospital | 31 |
| Boston Children's Hospital | 18 |
| Riley Hospital for Children | 11 |
| Texas Children's Hospital | 3 |



Percutaneous electrical nerve field stimulation compared to standard medical therapy in adolescents with functional abdominal pain disorders

Neha R. Santucci^{1,2*}, Rashmi Sahay³, Khalil I. El-Chammas^{1,2}, Kahleb Graham^{1,2}, Mikaela Wheatley^{1,2}, Madeleine Vandenbrink², Jennifer Hardy¹ and Lin Fei³

IB-Stim was equivalent or better than standard medications used for FAPDs

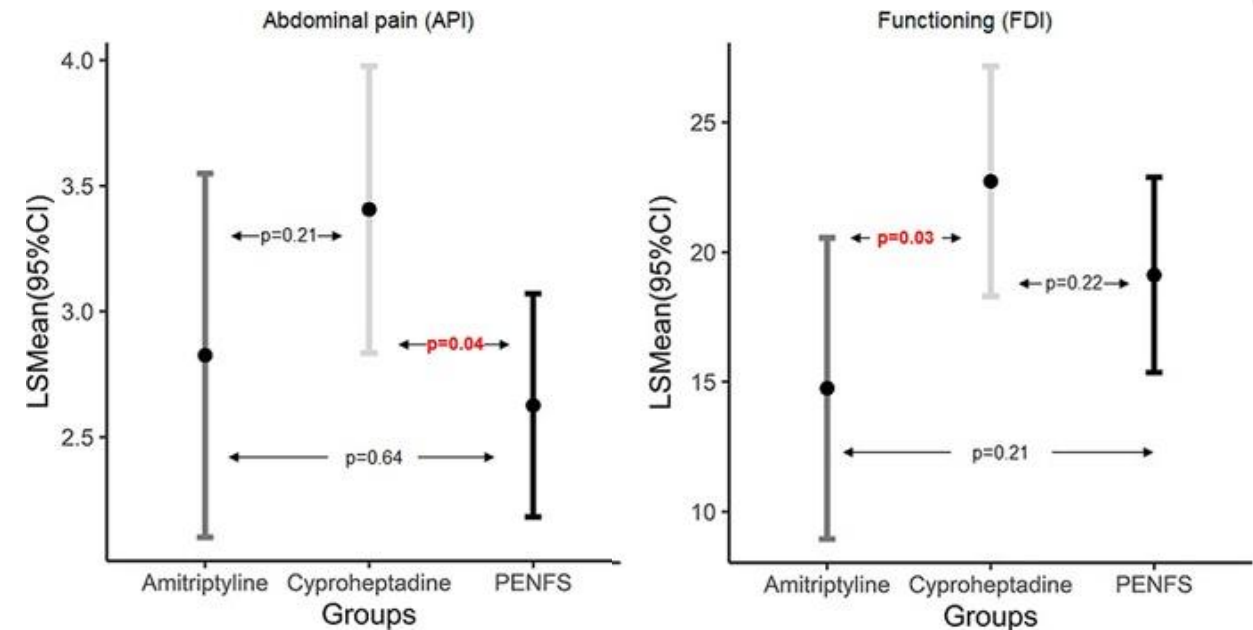
TABLE 2 Changes in measures in each group.

| Treatment | Measure | Visit | LS means (LCL, UCL) | Diff LS means (LCL, UCL) ^a | p-value |
|-----------------|---------|----------|-------------------------|---------------------------------------|---------|
| PENFS | API | Baseline | 2.776 (2.398, 3.153) | | |
| | | 3 mFU | 2.006 (1.512, 2.499) | -0.77 (-1.169, -0.371) | 0.001 |
| | NSS | Baseline | 2.45 (2.039, 2.861) | | |
| | | 3 mFU | 1.738 (1.01, 2.466) | -0.712 (-1.456, 0.032) | 0.059 |
| Cypro-heptadine | FDI | Baseline | 20.244 (16.09, 24.399) | | |
| | | 3 mFU | 14.382 (8.215, 20.55) | -5.862 (-11.652, -0.073) | 0.048 |
| | API | Baseline | 3.555 (2.77, 4.34) | | |
| | | 3 mFU | 3.252 (2.456, 4.049) | -0.303 (-1.022, 0.416) | 0.377 |
| Amitriptyline | NSS | Baseline | 2.603 (2.026, 3.181) | | |
| | | 3 mFU | 2.054 (1.463, 2.645) | -0.550 (-1.259, 0.160) | 0.117 |
| | FDI | Baseline | 23.785 (19.161, 28.408) | | |
| | | 3 mFU | 20.604 (15.161, 26.047) | -3.181 (-8.053, 1.691) | 0.185 |
| Amitriptyline | API | Baseline | 3.113 (2.045, 4.182) | | |
| | | 3 mFU | 2.3 (1.186, 3.413) | -0.814 (-1.553, -0.074) | 0.034 |
| | NSS | Baseline | 2.007 (1.192, 2.822) | | |
| | | 3 mFU | 1.445 (0.579, 2.311) | -0.562 (-1.262, 0.138) | 0.101 |
| Amitriptyline | FDI | Baseline | 15.944 (8.352, 23.537) | | |
| | | 3 mFU | 11.709 (2.597, 20.82) | -4.236 (-12.195, 3.723) | 0.259 |

Examined using Chi square test.

PENFS, percutaneous electrical nerve field stimulation; API, abdominal pain index; NSS, nausea severity scale; FDI, functional disability inventory; LS, least square; LCL, lower control limit; UCL, upper control limit.

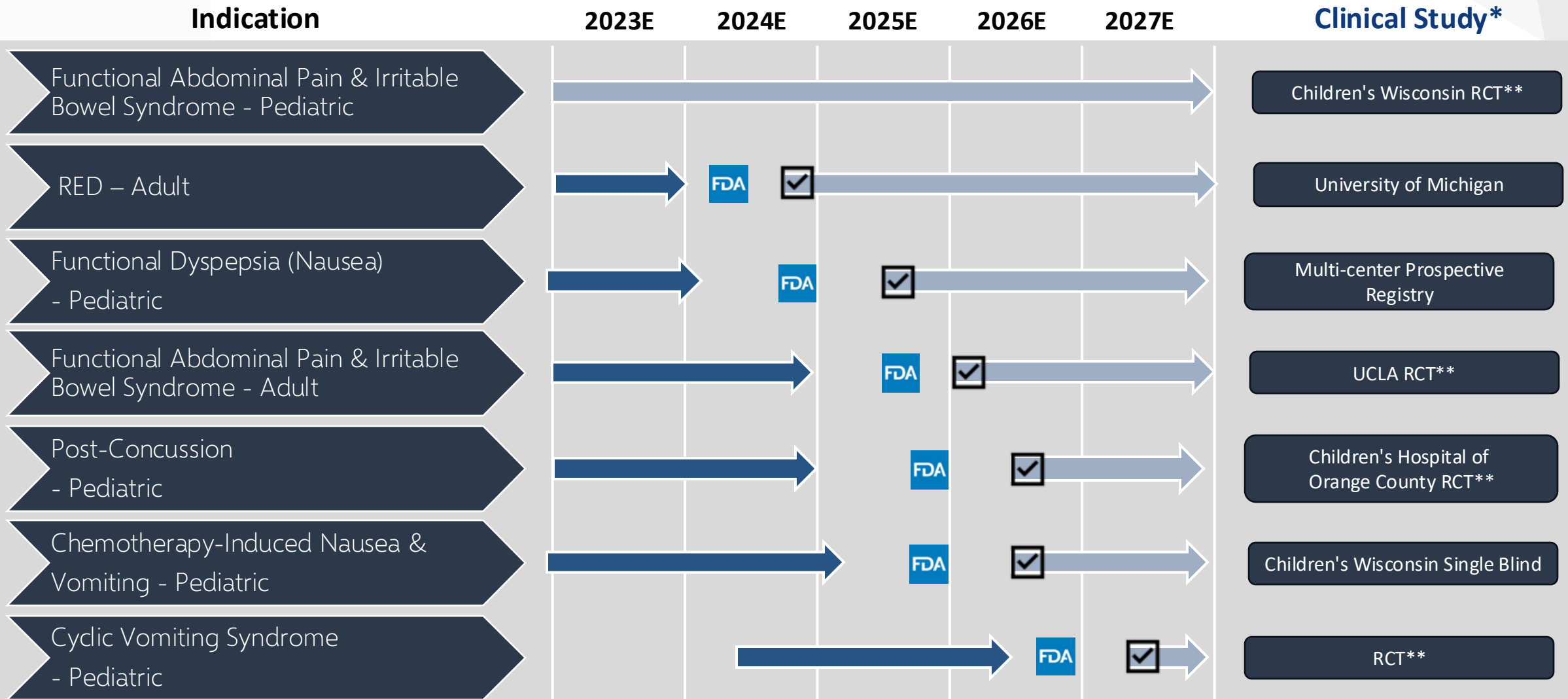
^aNegative values indicate reduction in outcome scores from baseline to 3month Follow Up visit.



IB-Stim™ vs. Drugs Competitive Landscape

| | | Antidepressants | | Adult Use (Peripherally Acting at the Gut Level) | | | |
|--|---------------------------|---|---|--|--------------------------|-------------------------------------|---|
| | IB-Stim™ | Amitriptyline | Citalopram | Amitiza | Linzess | Trulance | Viberzi |
| FDA Approved for IBS in Children and Adolescents | ✓ | | | | | | |
| Improves Functional Disability | ✓ | | | | | | |
| Targets Brain-Gut Axis | ✓ | ✓ | ✓ | | | | |
| Better Than Placebo for Pain in IBS | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| Improves Pain Catastrophizing | ✓ | | | | | | |
| Improves Global and Somatic Symptoms | ✓ | | | | | | |
| Most Serious Potential Side Effects | Localized Skin Irritation | Suicidal Ideation, Dementia (long term use) | Suicidal Ideation, Dementia (long term use) | Abdominal Pain, Allergic Reaction | Diarrhea, Abdominal Pain | Diarrhea, Serious Allergic Reaction | Pancreatitis, Serious Allergic Reaction, Intestinal Obstruction |
| Easily Accessible | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

FDA Pipeline - Indications and Timelines



Clinical Study
 FDA Submission
 FDA Indication
 Launch / Commercialization

* Independently sponsored clinical studies; NeurAxis contributes to research funding, devices and other costs. **RCT – Randomized Controlled Clinical Trial

Expanding Portfolio of Next Generation Devices for Disorders of Gut-Brain Interaction

RECTAL EXPULSION DEVICE [RED]

- Developed at the University of Michigan enabling comprehensive constipation care for every adult gastroenterology practice
- RED is a self-inflating balloon expulsion test that allows for point-of-care testing to effectively identify patients with an evacuation disorder
- FDA 510(k) submission on track for June 2024 with expected clearance in Q4 2024



RESPONSIVE DESIGN

Designed to meet a specific need in the office as a point of care decision and fit into the workflow and time available of the physician



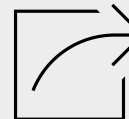
UNIQUE FEATURES

- Self-inflating
- Enables point-of-care testing (In-office use)
- Provides immediately actionable binary test results



MARKET

- ~\$2B market opportunity
- Current balloon expulsion testing requires a separate visit to a GI physiology laboratory
- Anorectal manometry is too expensive to be practical



REIMBURSEMENT

- Current CAT I CPT Code 91120
- Medicare reimbursement: \$519.15

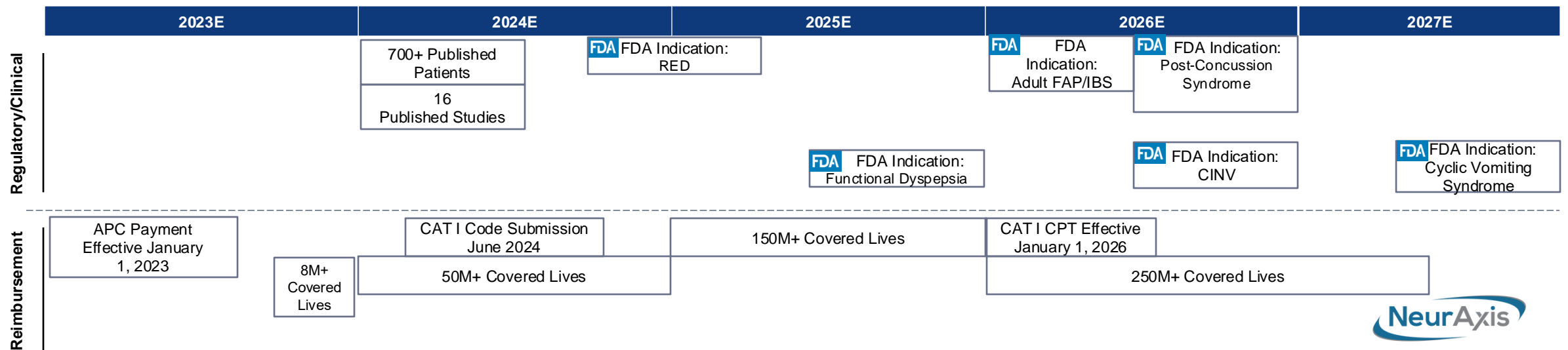
IB-Stim Reimbursement Market Access Plan Established



Strong Data = Strong Policy Coverage & Reimbursement = Strong Revenue Growth



- | | | | | |
|--|---|---|--|---|
| <ul style="list-style-type: none"> • Versus Placebo • Long-term Data x 2 • Comparison vs. Soc Rx • Multi-center Registry <ul style="list-style-type: none"> ○ ~300 patients • Positive Health Economic Data | <ul style="list-style-type: none"> • NASPGHAN Written Support • AAP Written Support | <ul style="list-style-type: none"> • CareFirst BCBS • BSBS Nebraska • Quartz Wisconsin • BCBS South Carolina • BCBS Massachusetts • CS HealthVine | <ul style="list-style-type: none"> • BCBS Kansas City • Highmark BCBS • FL Blue • BCBS VT • Geisenger • BCBS of North Dakota | <ul style="list-style-type: none"> • CAT III (Effective July 2022) • CAT I Application (June 2024) • CAT I Code (Effective January 2026) |
|--|---|---|--|---|



IB-Stim Go-to-Market Strategy

Strong Data = Strong Policy Coverage & Reimbursement = Strong Revenue Growth

2024 Policy Coverage

| Total Plans | Total # Lives covered |
|-------------|-----------------------|
| 12 plans | ~24M |

| Insurance Plans | # Lives covered |
|-----------------------|-----------------|
| CareFirst BCBS | 3.5M |
| BCBS of MA | 3M |
| BCBS of SC | 770k |
| BCBS of Nebraska | 340k |
| Quartz Wisconsin | 335k |
| CareSource HealthVine | 120k |
| BCBS Kansas City | 1M |
| Highmark BCBS | 7M |
| Florida Blue | 6M |
| BCBS VT | 200K |
| Geisenger | 600K |
| BCBS North Dakota | 310K |

Commercialization Strategy



On strength of clinical evidence, targeting guideline changes that support IB-Stim™ as standard of care

Launched internal Prior Authorization Team

Increasing D2C Marketing in States with Policy Coverage

Hiring W-2 Reps in States with Policy Coverage



Direct Sales Force

Reimbursement Strategy

Technology Specific CPT coding

| | |
|------------|--|
| CPT code* | <ul style="list-style-type: none"> CAT III code (0720T) |
| List Price | <ul style="list-style-type: none"> \$1,195 |

Engaging with AAP and NASPGHAN to apply for CAT I CPT code in 2024

Customers



~33k

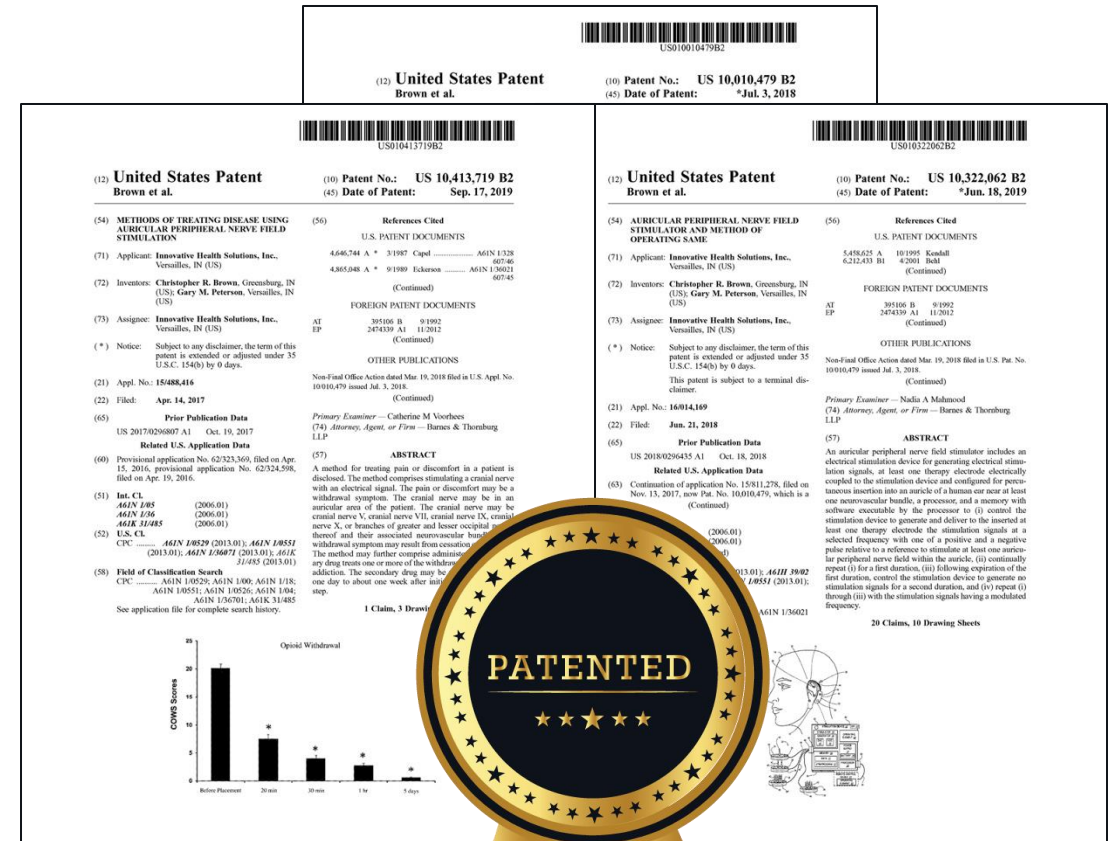
U.S. Pediatricians

~10k

U.S. Adult Gastroenterologists

NeurAxis IP Portfolio

- 11 issued and 9 pending patents
 - Device
 - Method
- U.S. IP runs through 2039 as of now
- International IP in process
- Freedom to operate completed



Collaborative Contract Manufacturing Partner



In-House Capabilities

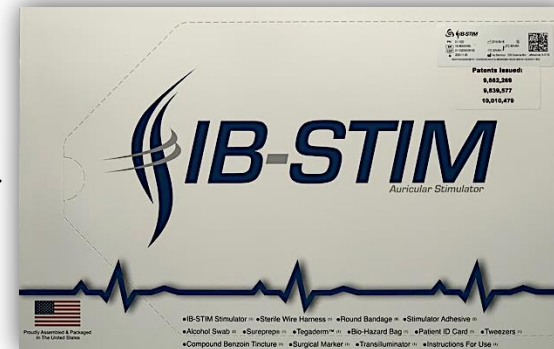
- Office and factory in Indiana
- 69,000 square foot facility
 - Offices, factory, environmentally controlled room, warehouse, parts processing, assembly, quality control
- Medical device focused manufacturing established in 1990

Manufacturing Capacity

- Controlled, repeatable, monitored production process
- Kit production capacity sufficient for all NeurAxis projected needs
- New dedicated room built in 2022 for NeurAxis equipment and production
 - All NeurAxis materials now maintained in the room
 - Environmentally controlled build room

Quality Management System

- ISO 13485:2016 Certified
- FDA registered
- ITAR Registered



Medical Advisory Board



Dr. Samuel Nurko



Dr. Carlo Di Lorenzo



Dr. Rachel Rosen



Dr. Kahlil El-Chammas



Dr. Miranda van Tilburg



Dr. Leonel Rodriguez



Board of Directors



Beth Keyser
Board Member



Mitch Watkins
Board Member



Kirstin Ferge
Board Member



Brian Carrico
*Chief Executive Officer,
Board Member*



Dr. Chris Brown
*Director Of Innovation,
Founder, Board Member*

Collective Experience



Management Team



Brian Carrico
*Chief Executive Officer,
Board Member*



Dr. Adrian Miranda
Chief Medical Officer



Timothy Henrichs
Chief Financial Officer



Dr. Tom Carrico
Chief Regulatory Officer



Dr. Chris Brown
*Director of Innovation,
Founder, Board Member*



Key Investment Highlights

Strong Data = Strong Policy Coverage & Reimbursement = Strong Revenue Growth



Large Global Market with Significant Unmet Need

- \$23B+ TAM³ for target pipeline indications
 - \$9B+ TAM³ for target pediatric indications (near-to-mid term)
 - \$14B+ TAM³ for target adult indications (mid term)
- Large unmet clinical need: high refractory, off label pharmacological treatments with adverse side effects



Unique, Innovative Product Supported by Clinical Evidence

- Novel treatment targeting the brain-gut-axis
- Differentiated PENFS technology
- 700+ published patients⁴
- Easy-to-learn and efficient procedure



Clear Commercial Pathway

- FDA De Novo clearance
- Technology-specific CPT billing code
- Major Insurance Payer Coverage initiated
- Strong IP on Device and Method



Seasoned Management and Board

- Experienced management team and Board of Directors
- Operations and infrastructure built to scale
- Path to profitability

1. Total Addressable Market (TAM) - Calculated by the total number of patients we target to treat multiplied by the revenue potential from each patient
2. Published patient - a patient who went through a study and the study was analyzed and now the study has been published in a peer-reviewed journal