


Smart FeedT

Pramod Bonde MD

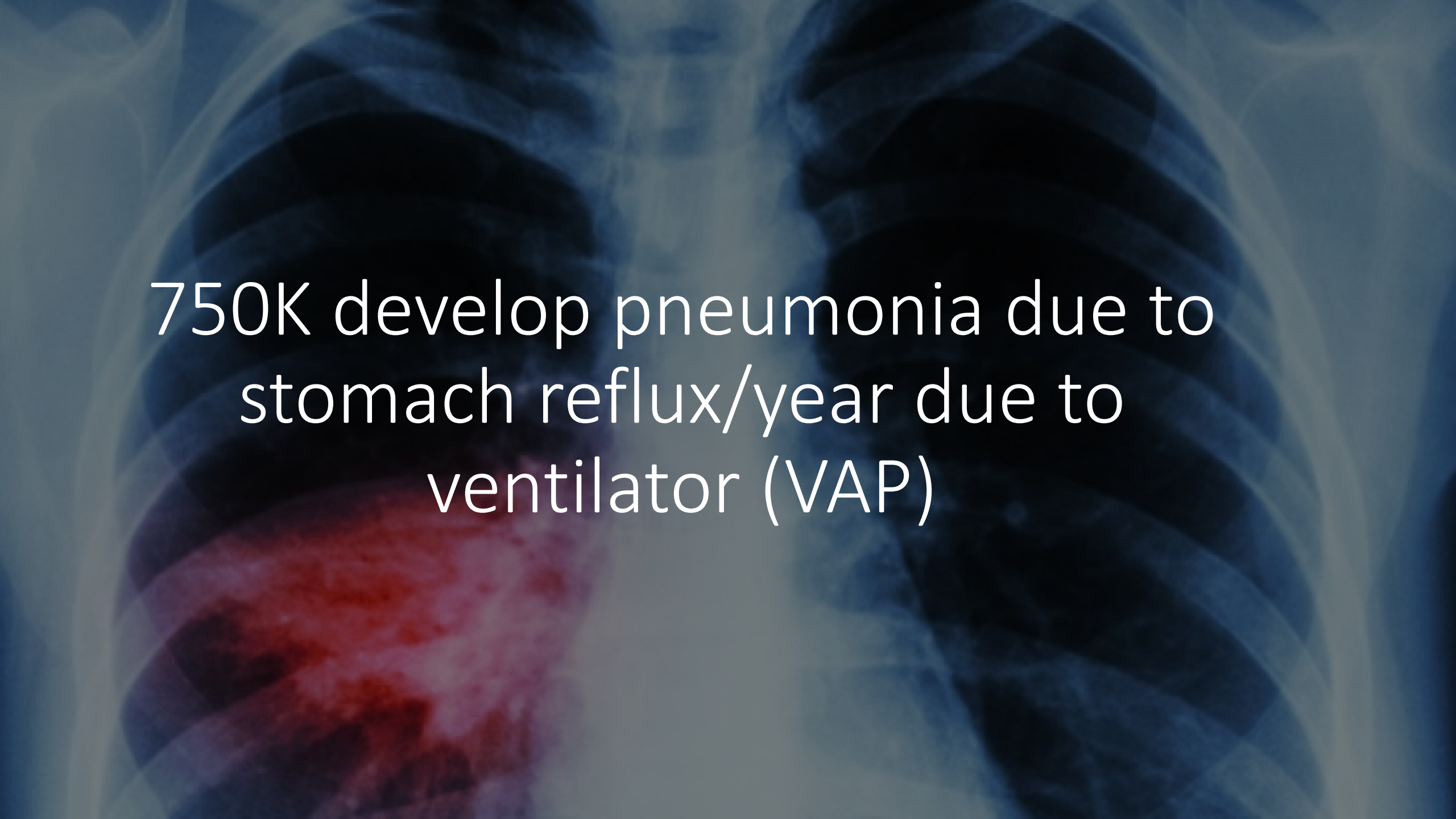
Founder
R2TPS LLC



5 million ICU
admissions

A photograph of an elderly male patient lying in a hospital bed, connected to a mechanical ventilator. The patient has a beard and is wearing a nasal cannula. The ventilator is a large piece of medical equipment with multiple monitors and tubes. The scene is set in an intensive care unit (ICU).

2.5 million on ventilators



750K develop pneumonia due to
stomach reflux/year due to
ventilator (VAP)

A photograph of a cemetery. In the foreground, a weathered, moss-covered gravestone stands on a grassy field. To its right, a row of vibrant red and pink flowers is planted in a low concrete border. The background shows more gravestones and green grass, slightly out of focus.

187,500 die due to VAP every year

Cost of pneumonia (VAP)

48 K per
patient

7 days of
extended
hospital stay

Problem (VAP)

Hospital Acquired Infections
(HAI):

Eat into Hospital margin

Not covered by payers

Monitored by Medicare

Problem (VAP)

Lying flat

Sedation- breathing tube

Muscle relaxant- help breathe with ventilator

Reflux of acid in esophagus and then into lungs to trigger pneumonia

Current feeding tubes don't restore normal emptying of esophagus and stomach

Solution

Smart FeedT

Every intubated patient needs a feeding tube

Restores esophageal and stomach motion: bioelectric stimulation

Detects & Clears saliva that pools at the back of throat that enters the lungs

Using resonant EM distribution

FDA Approval Process

510K process

Class II device

Plastic & single use

Approval 3-6 months



Savings

750 K cases of
pneumonia

36 billion USD/year

5.25 million hospital
days saved

Hospital (Market size)

1 million feeding tubes in ICU patients

1.5 Million in hospitalized patients

2.5 to 5.0 million feeding tubes used (1-2 tubes per patient) (unit)/year

Community (Market size)

0.5 million long-term feeding tubes

Tube changed every 6 weeks

10 tubes/year per patient

5 million feeding tubes (unit)

Reimbursement

In hospital: Medicare
part A

Community: Medicare
part B

Existing billing code(s)

Revenue (ICU only)

1 million get feeding tube

Unit cost : \$50

50 million per year (100% penetration)

25 million per year (50% penetration)

5 million per year (10% penetration)

Founder & CEO

- Entrepreneur, physician and scientist
 - Business & investment advisor: JSimple LLC
 - Team: Greg Semenza: Nobel prize, 2019
 - NIH: excellence award
-



Founder

- Thoracic surgeon-25 years
 - Expert in reflux injury
 - Pioneer in resonant EM transmission
 - Bonde Innovations LLC (CoRISMA): 27 million for 22.2% stake
 - FDA panel
-



Team (Engineering and R/D)

Jin Park

VP, Research and development

Daniel Olsen

Director, Quality assurance & production

Egemen Tuzun

Preclinical FDA Regulatory affairs

More than 20 years experience in pre-FDA GLP studies.



Investment and legal

John Visconti,
Visconti and Associates

Corporate legal team:

Khanna LLP



Regulatory experts

Jennifer Tomassello:
Senior policy advisor,
FDA and
congressional contact

CardioMed device
consultants,
Edgewater, MD

MCRA:
reimbursement
experts, Manchester,
CT

Science

This groundbreaking work: link between reflux and damage to lungs & esophagus

This work led to the invitation from Johns Hopkins for Dr. Bonde to continue his work.

Validation in extensive animal studies

Worlds first esophageal cancer vaccine developed by Dr Bonde based on this work



National Institutes
of Health



ROYAL COLLEGE OF
PHYSICIANS AND
SURGEONS OF GLASGOW



JOHNS HOPKINS
UNIVERSITY

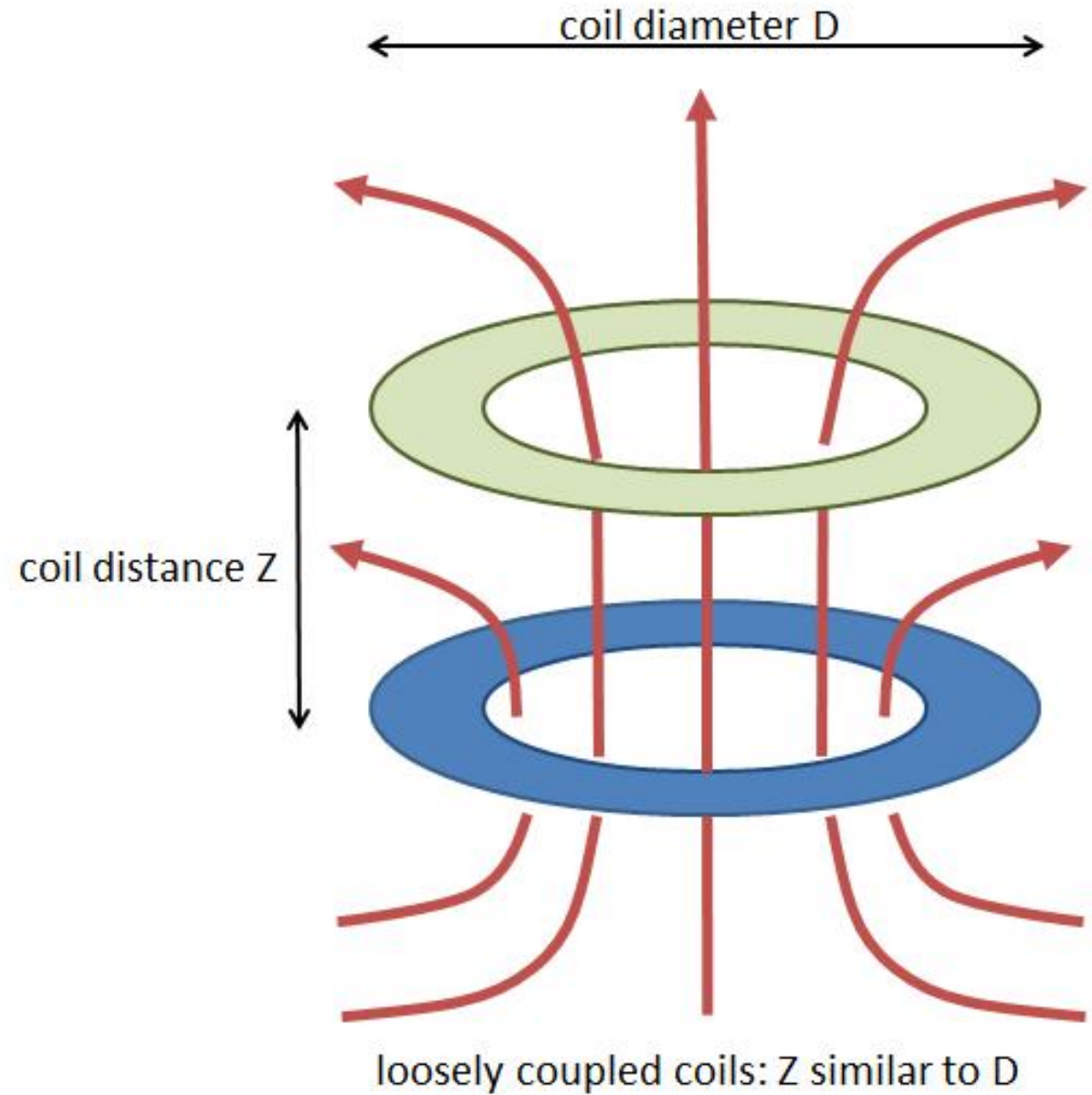


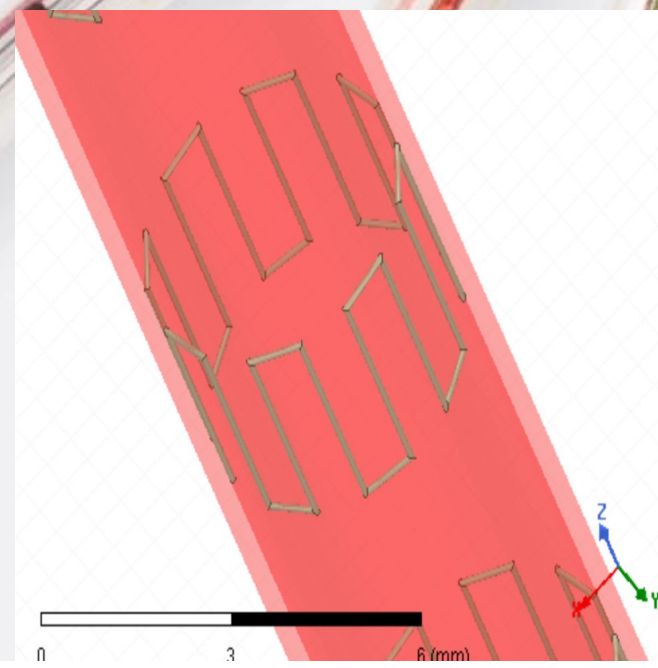
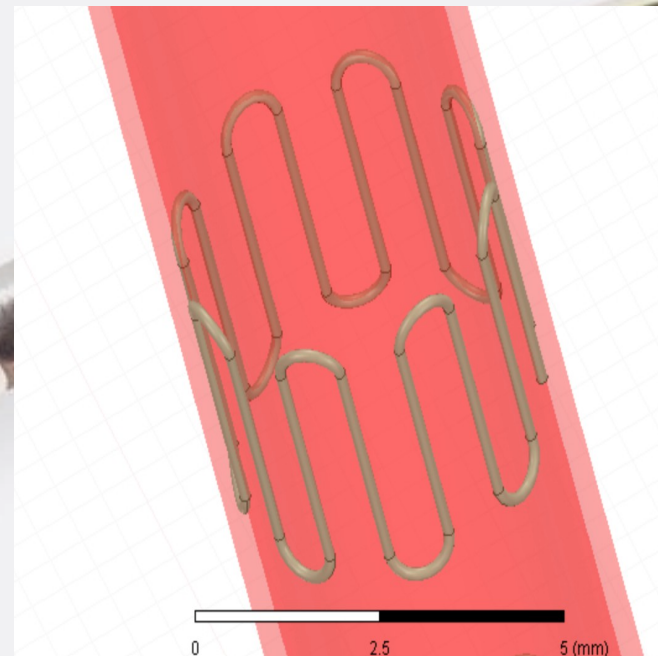
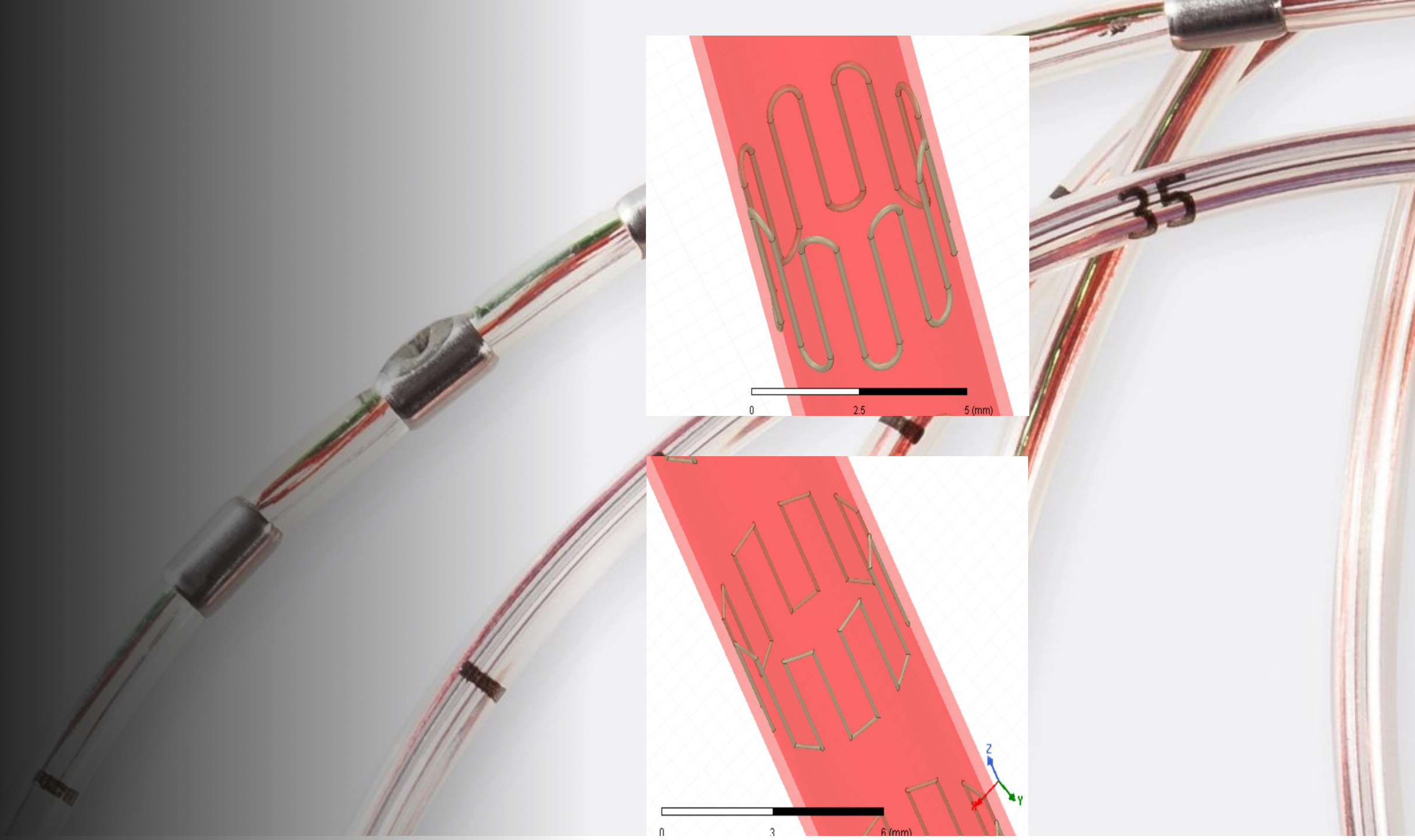
SCTS

Society for Cardiothoracic Surgery
in Great Britain and Ireland

Funding and grants

Resonant EM transfer





IP portfolio (six
identified and
four in works)



Foundational patents X 3



Patent on design



Patent on unclogging component



Patent on AI backed monitoring



Design of smart controller



Telemetry unit design

Market (expansion)

Dysphagia (Impaired Swallowing) with frequent aspiration	Narrowing in the esophagus or digestive tract (stricture)	Inability to take oral feedings due to head or neck trauma	Gastrointestinal cancer	Gastrointestinal complications due to trauma	Intestinal failure
Bowel Obstruction	Crohn's Disease(in severe cases)	Microscopic Colitis	Short bowel syndrome	Ulcerative Colitis	Prolonged anorexia
Bulimia	Severe protein-energy malnutrition	Coma or depressed sensorium	Liver failure	Critical illnesses (e.g., burns) causing metabolic stress	Dementia
		Neuro-Muscular Disorders	Pediatric Indications		

KOL (over 100 from top 15 institutions)

Gastroenterology
specialist

Thoracic surgeons-

- esophagus, stomach
& lung specialists

ICU specialists-

- Intensivists

Pulmonologists-

- lung specialists

ICU nurse
managers

ICU nurses

Hospital
administrators

Billing and coding
specialist

Reimbursement
specialists

Current therapy for prevention of VAP

Elevate head of bed-

- doesn't happen 24/7: procedures, change of sheets, turning

Motility drugs-

- takes days to work

Anti-acid drugs

- Not effective in reducing volume

Suction saliva-

- only done when nurse hears "gurgling" --- patient drowning in own secretions!

KOL- pressure points

Administrators:

- Hospital acquired infections- major drain on hospital margin

Intensive care specialists:

- Mortality and extended ICU stay clogs system

ICU nurses:

- Not easy to timely suction, assess and avoid reflux

Surgeons/physicians:

- Disappointing to see successful procedure only to have patients succumb to pneumonia

KOL- major ask

Restore natural
motility

Help empty
stomach

Prevent reflux

Measure reflux

- Time to intervene

Self propelled
tube

Help position
tube within
body

Help with
identifying and
de-clogging tube

Automatic
suction of saliva
and throat

Current feeding tubes

01

Passive conduit for
carrying liquid
food

02

Positioning within
wrong structure a
problem

03

De-clogging a
problem-often
needing change
out

04

Actually
exacerbates reflux
due to mechanical
presence across
the valve

Comparison

Current feeding tubes

Passive tubes to feed
Does not restore function
Does not prevent reflex of acid
Does not prevent pooling of saliva
Takes >24 -48hrs for accurate positioning
USD 30

Smart FeedT

Active: able to feed
Restores normal function
No reflux of acid
No saliva pooling
Accurate positioning
Self propulsion
USD 50

Silicon Valley Bank Exit Data

Smart FeedT is FDA Class II Device

	FDA Class II Devices
Median Exit	\$350 Million
Median Time to Exit	3.5 Years
Stage at Exit	41% Development Stage
	50% CE Mark only
	9% FDA Approved

Source: Silicon Valley Bank mid-year Report Healthcare Exits 2015-2018

Disrupt Existing Market

Reflux a common problem afflicting >2.5 million hospitalized patients

Expand Existing Market:

Nursing homes, post chemo patients, stroke patients account for
1.5 million

Expand Indications

Patients after gut operation or major operation who need nutrition

Expand Patient Eligibility

Hasten normal functioning of the esophagus and stomach with motility
problems, “not just feed but treat”

Access Expanded
Infrastructure

Skills, expertise already exists which can be leveraged

Opportunity

Major Market
Opportunity

Multiple
Disruptive
Features

Proven &
Experienced
Management

Strong
Investment
Fundamentals

“What you have is truly transformative”

Leading Thoracic Surgeon,
Johns Hopkins School of Medicine

“HAI market is ripe for disruption”

Former VP Clinical Affairs Abbott Labs

“Major effect on hospital margin”

Leading Administrator, New York Presbyterian Hospital

***“This transformative device market is a fertile
ground”***

Former Chief Medical Officer Medtronic

“Everybody will want to buy this company”

Former Chief Editor, MDDI

Funding and Milestones

Current Status

Seeking Seed Funding

- \$1M
- \$300k raised/pledged
- System Testing/IP
- 12 Months

Anticipated Future Funding

Series A

- \$10M
- Verification
- 510 (K) application
- 20 Months

Series B

- \$15M
- Clinical introduction
- Revenue neutral
- 38 months



Seed Terms (Convertible Debt):

Conversion Cap: \$5M
Interest: 8%
Series A Discount: 20%

Target Exit Window

Current Device Market Size



Projected market
growth



2021-2028 :
\$450 Billion - \$650 Billion



CAGR: 5.4%

A small bird, possibly a chickadee, is perched on the edge of a clear plastic bird feeder. The feeder has a black roof and a black base, and it is filled with birdseed. The scene is set in a snowy environment, with snow-covered branches and clusters of bright red berries visible in the background. The text "Don't just feed but treat!" is overlaid in the center of the image.

Don't just feed but treat!

