

#### INVESTOR DAY

#### Welcome

Lishan Aklog, MD Chairman & CEO

December 13, 2023

Shaun O'Neil, MBA President & COO

#### Agenda

10:00–10:20am The Lucid Diagnostics Story Lishan Aklog, MD 10:20–10:30am A Lifetime of Preventing Cancer Deaths Stan Lapidus 10:30–10:50am Esophageal Cancer: A Surgeon's Perspective Philip Woodworth, MD 10:50-11:20am Realizing EsoGuard's Commercial Opportunity Shaun O'Neil, MBA 11:20–11:35am EsoGuard: Unprecedented Precancer Detection Lishan Aklog, MD 12:15–12:35pm EsoGuard in My Practice Seper Dezfoli, MD 12:35–1:00pm Pathway to Profitability Dennis McGrath 1:00-1:20pm Fireside Chat with Lucid Executive Leaders Suman Verma, MD, PhD, Deepika Lakhani, PhD, Victoria Lee, MD, Natalie Carfora 1:20–1:40pm Fireside Chat with Physician Experts Seper Dezfoli, MD, Philip Woodworth, MD, Brian deGuzman, MD 1:40-3:00pm Meet & Greet Reception Gordon Reading Room



#### **INVESTOR DAY**

#### The Lucid Diagnostics Story

Lishan Aklog, M.D. Chairman & CEO

December 13, 2023



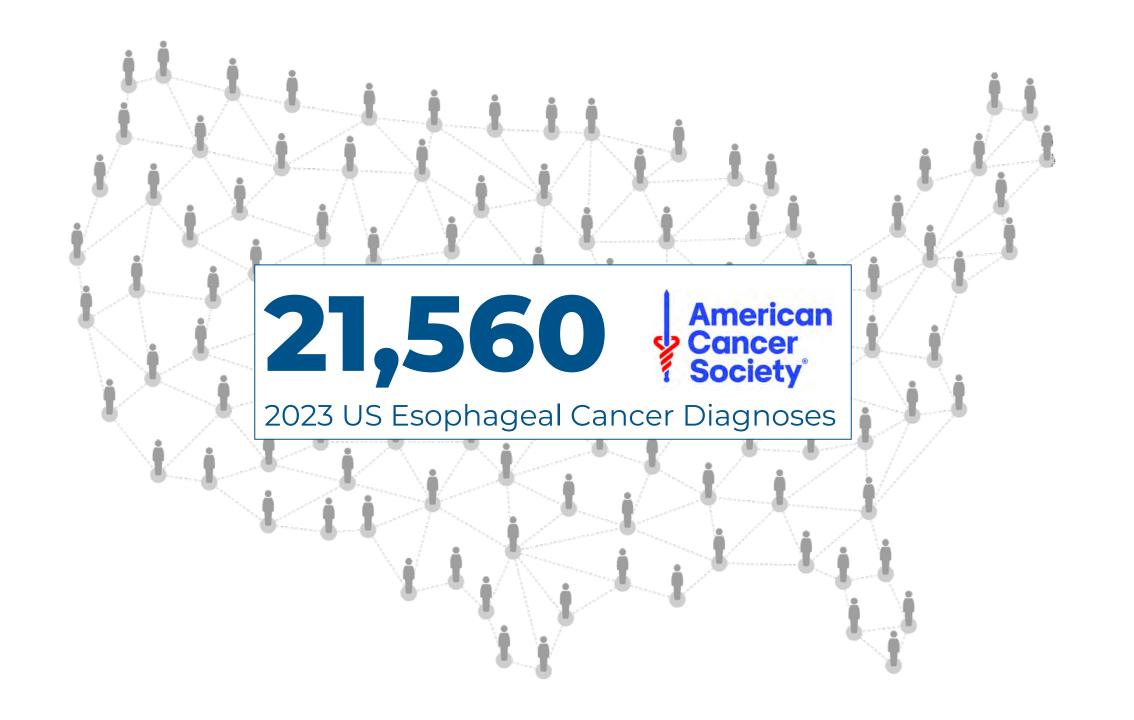
## 40

mm mm mm mm mm mm mm mm Near death sentences

### 

# 8 of 40

mm mm mm mm mm mm mm mm mm still alive after five years







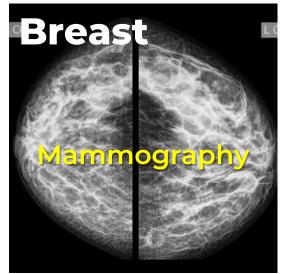
What if...

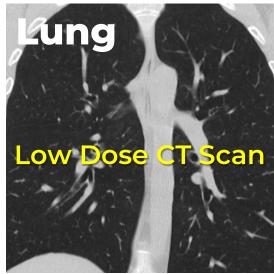
Cancer

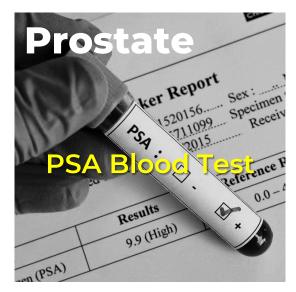
could be...

PREVENTED

### **Early Cancer Detection**



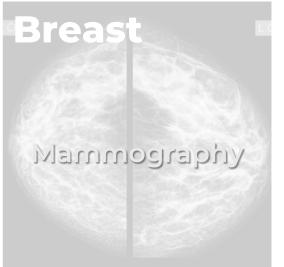




### **Early Cancer Detection**

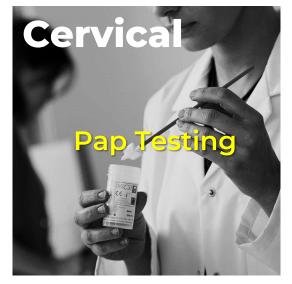
VS.

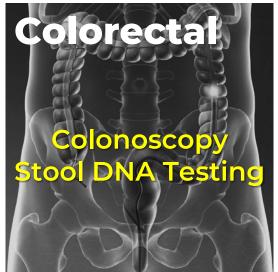
### **Cancer PREVENTION**











### The Deadly Three

#### 5-Year Cancer Survival

	Overall	Early Stage
Pancreatic	13%	44%
Esophageal	22%	49%
Liver	22%	<b>37</b> %

More 2023 deaths than Colorectal and Breast Cancer Combined





### The Deadly Three

	Cancer Survival	
	Overall	Early Stage
Pancreatic	13%	44%
Esophageal	22%	49%
Liver	22%	<b>37</b> %

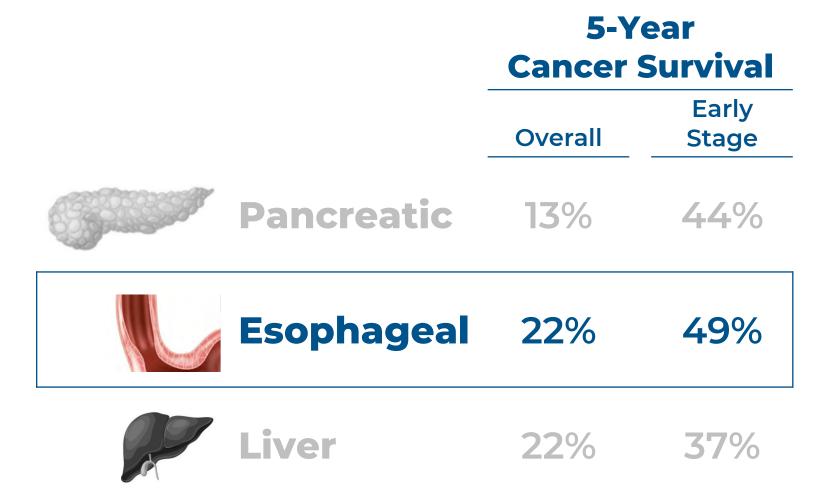
5-Voor

Need to PREVENT cancer through PRECANCER DETECTION to impact survival





#### The Deadly Three



Esophageal PRECANCER can now be detected





### Esophageal Cancer

CAN be...

PREVENTED











Sanford Markowitz, MD, PhD



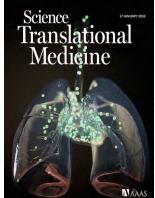
Amitabh Chak, MD



Joseph Willis, MD



Helen Moinova, PhD

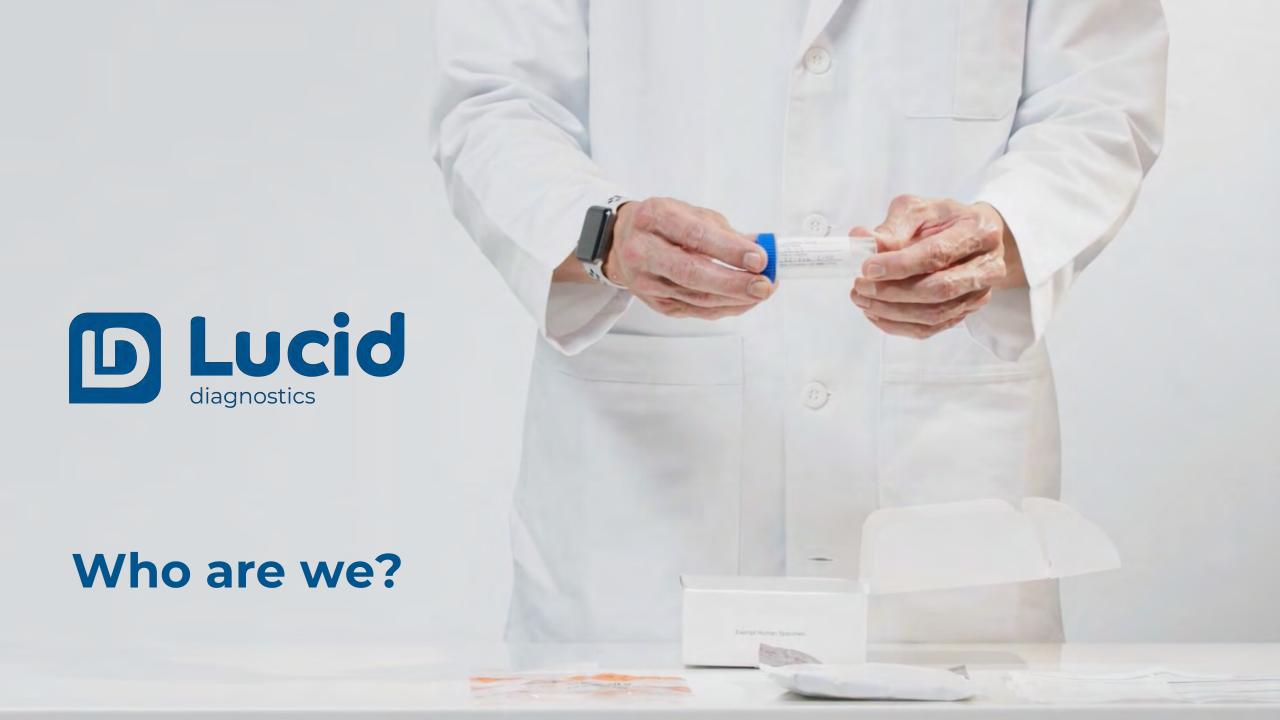


SCIENCE TRANSLATIONAL MEDICINE | RESEARCH ARTICLE

CANCER

Identifying DNA methylation biomarkers for non-endoscopic detection of Barrett's esophagus

Helen R. Moinova, <sup>1</sup> Thomas LaFramboise, <sup>2,3</sup> James D. Lutterbaugh, <sup>1</sup> Apoorva Krishna Chandar, <sup>1</sup> John Dumot, <sup>1</sup> Ashley Faulx, <sup>1</sup> Wendy Brock, <sup>1</sup> Omar De la Cruz Cabrera, <sup>4</sup> Kishore Guda, <sup>2</sup> Jill S. Barnholtz-Sloan, <sup>2</sup> Prasad G. Iyer, <sup>5</sup> Marcia I. Canto, <sup>6</sup> Jean S. Wang, <sup>7</sup> Nicholas J. Shaheen, <sup>8</sup> Prashanti N. Thota, <sup>9</sup> Joseph E. Willis, <sup>2,10,11</sup>\* Amitabh Chak, <sup>1,2,11</sup>\* Sanford D. Markowitz <sup>1,2,3,11</sup>\*



### High margin asset with massive market opportunity

Well-honed multi-faceted commercial strategy

World-class leadership team and board

Operationally excellent multidisciplinary field and laboratory team

Committed and passionate physician ambassadors













At-Risk Patients Recommended for Precancer Testing

\$1,938

At-Risk Patients Recommended for Precancer Testing

At-Risk Patients Recommended for Precancer Testing

\$1,938

**Medicare Payment** 

At-Risk Patients Recommended for Precancer Testing

\$1,938

**Medicare Payment** 

~\$60 Billion

Total Addressable Market Opportunity

At-Risk Patients Recommended for Precancer Testing

\$1,938

**Medicare Payment** 

~\$60 Billion

Total Addressable Market Opportunity

At-Risk Patients Recommended for Precancer Testing

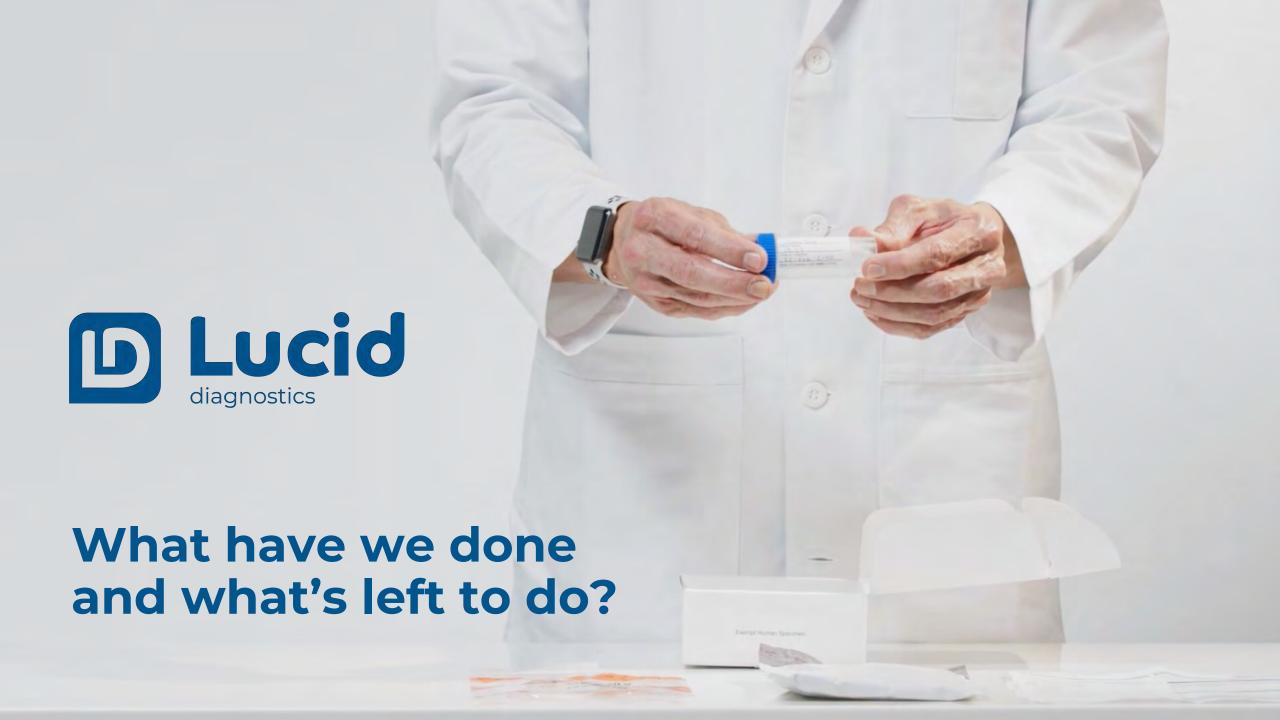
\$1,938

**Medicare Payment** 

~\$60 Billion

90 Percent

**Gross Margin** 



#### **Lucid Accomplishments and Near-Term Goals**

#### COMMERCIAL

Sales And Marketing Processes

Locked down sales and marketing process to secure physician adoption

Patient Acquisition Strategy

Designed and implemented multipronged patient acquisition strategy (LTC, sLTC, mLTC, CYFT)

Cell Collection
Strategy

Optimized cell collection training and execution (99% technical success)

#### **LABORATORY**

**✓** CLIA/CAP Laboratory

Acquired CLIA/CAP laboratory and successfully transferred assay from contracted lab

EsoGuard Performance & Efficiency

Optimized EsoGuard assay performance and efficiency (<5% QNS, <10d TAT)

**▼** Target Gross Margin

Optimized assay and device COGs to achieve 90% GM

#### **Lucid Accomplishments and Near-Term Goals**

#### **CLINICAL EVIDENCE**

Clinical Validity

Expanded Clinical Validity evidence beyond STM (BETRNet, Cleveland VA, BE-1) with unprecedented precancer detection

Clinical Utility

Published three peer-reviewed Clinical Utility studies with near-perfect concordance

#### REIMBURSEMENT

Revenue Cycle Management

- Upgraded RCM infrastructure resulting in dramatic improvements in claims processing and payment
- Market Access Team
- Strengthened team with new VP, Market Access and VP, Employer Markets

Medical Policy
Coverage

Leverage CU data to drive medical policy coverage, including pilot programs such as Coverage with Evidence Development (CED)

Direct Contracting

Drive direct contracting with self-insured employers and entities to offer EsoGuard as a benefit





Philip Woodworth, MD FACS

# Esophageal Cancer



# INSTITUTE OF ESOPHAGEAL AND REFLUX SURGERY

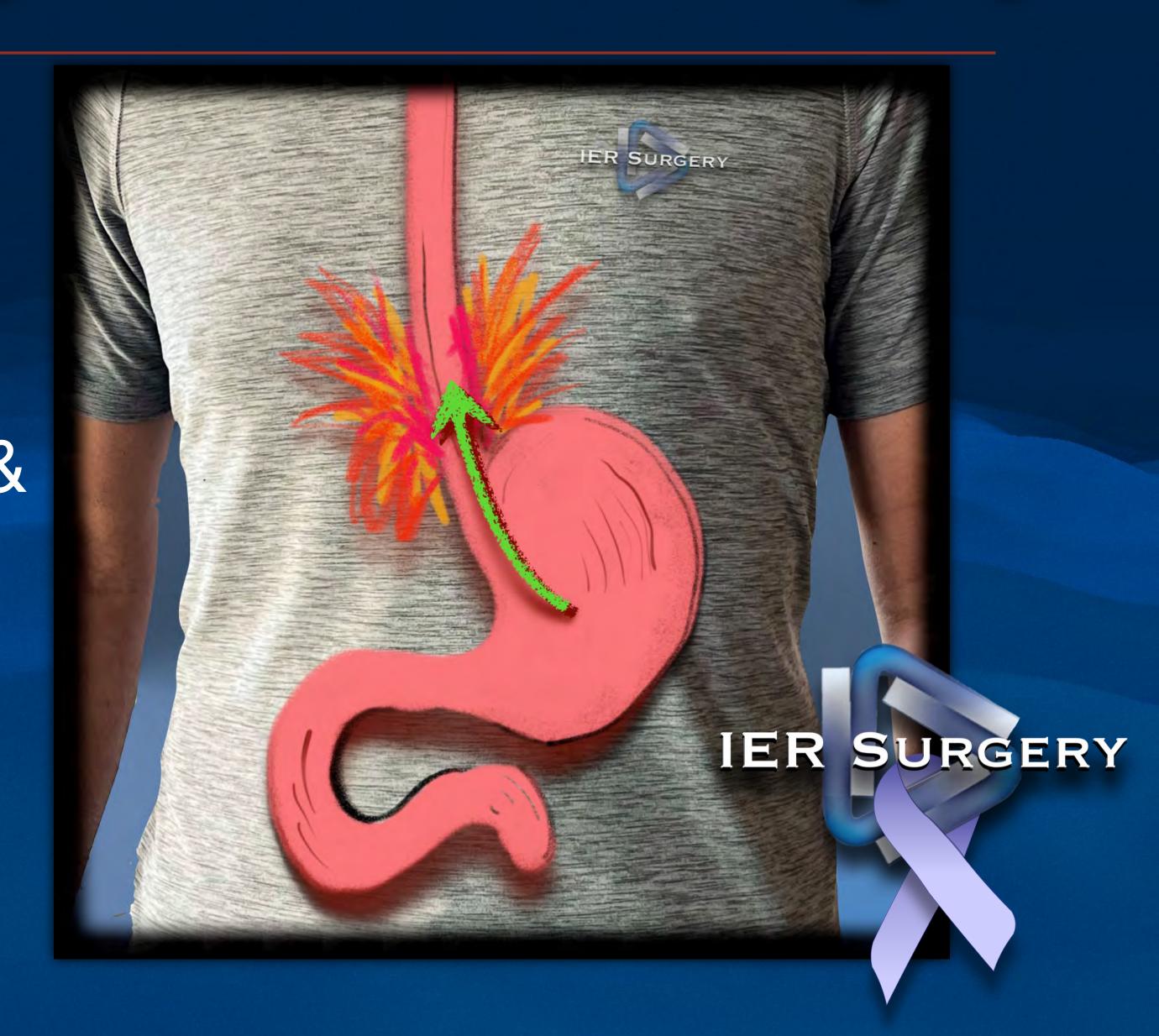
DENVER, CO

Center for Robotic Surgery<sup>TM</sup>

At Sky Ridge Medical Center

## Institute of Esophageal and Reflux Surgery

Partnership of
Surgeons,
Advanced Practitioners, &
Researchers
focused on
FOREGUT DISEASE



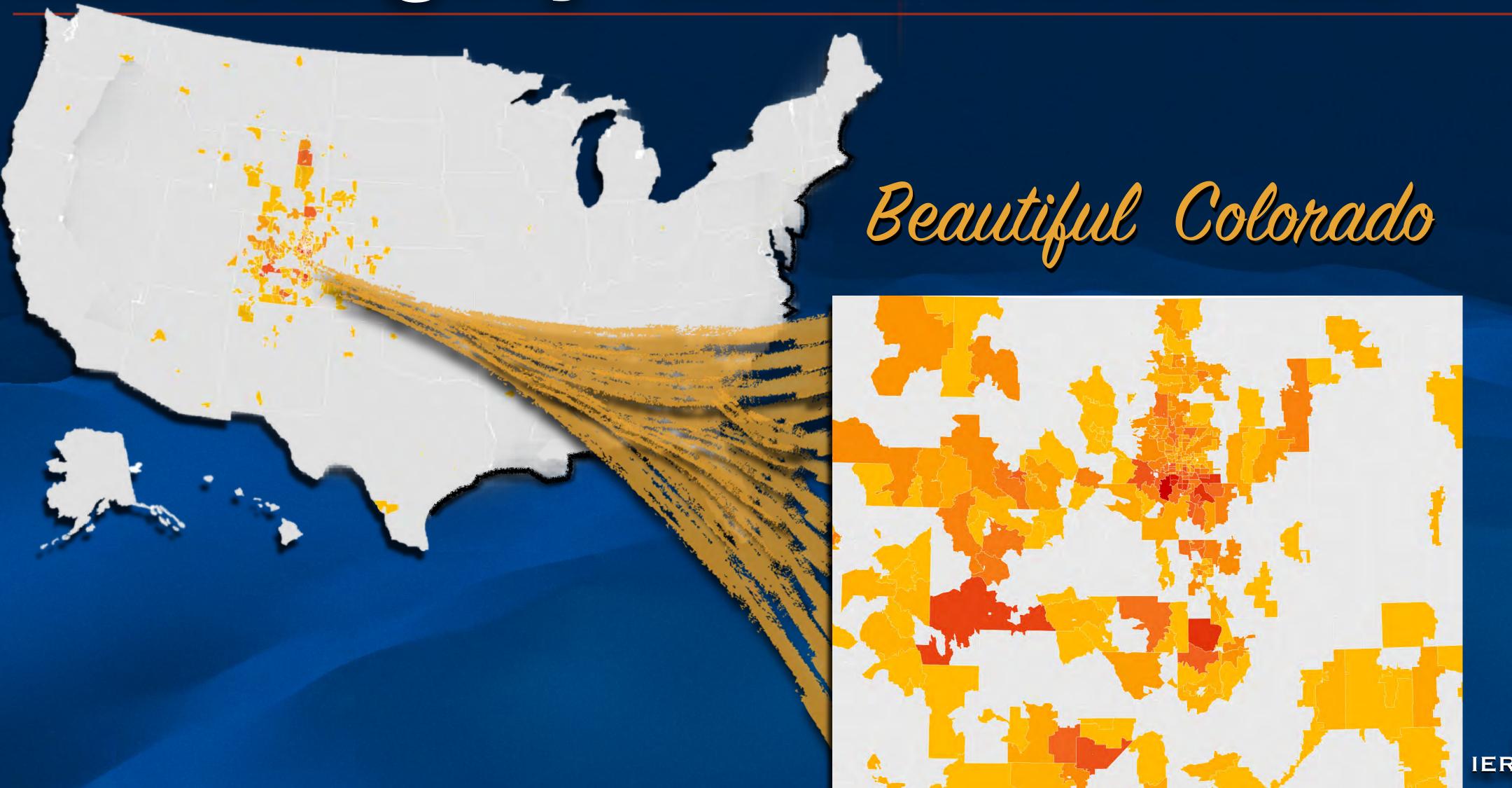
## Institute of Esophageal and Reflux Surgery

...there is also a therapy dog

Sienna.



#### IER Surgery GERD Referrals



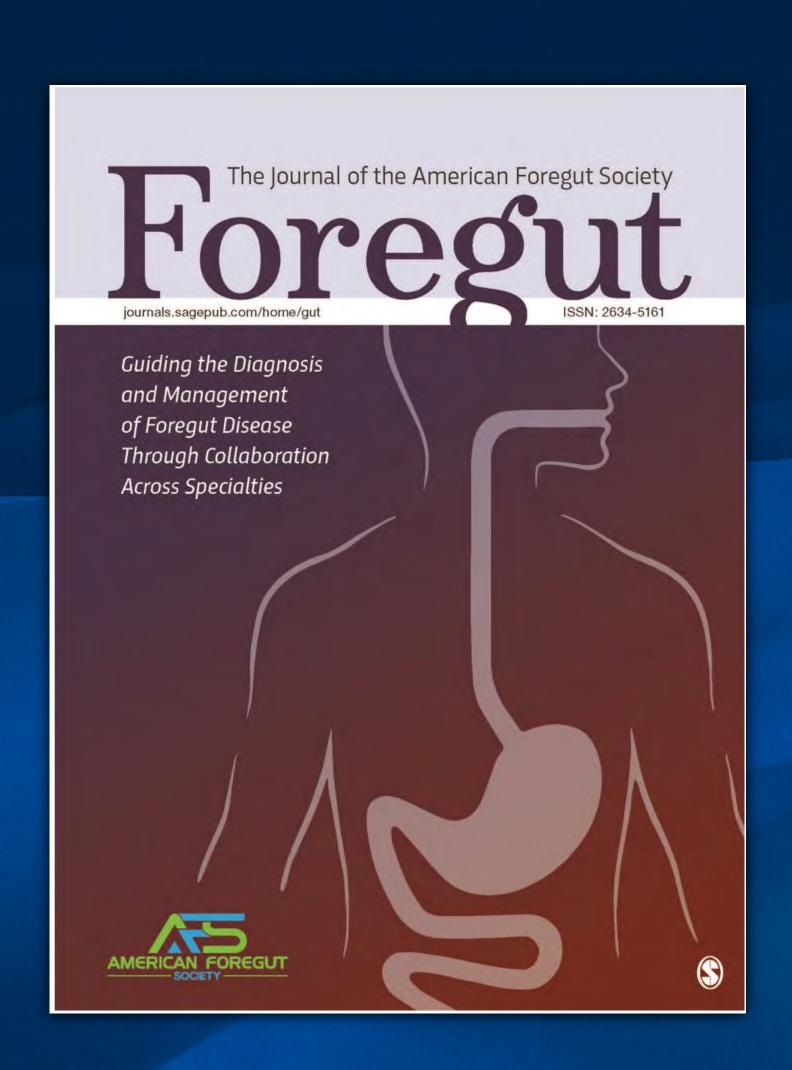


#### Objectives

- 1. To explain the basics of GERD / Esophageal Cancer
- 2. To appreciate incidence of GERD / Esophageal Cancer
- 3. To understand issues with the GERD treatment algorithm
- 4. To identify an opportunity to improve the algorithm
- 5. To know the value EsoGuard provides

#### What is GERD?

#### GERD is a FOREGUT Disease

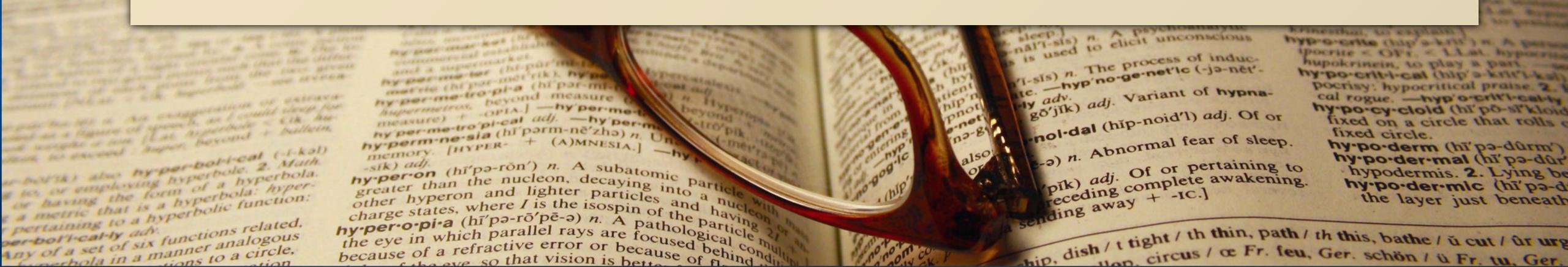


- The **Foregut** is the anterior part of the alimentary canal, from the mouth to the second portion of the duodenum.
- The most common condition driving people to seek health care evaluation is GERD.

#### GERD Definition

#### Gastroesophageal reflux disease (GERD)

— a digestive disorder that occurs when acidic stomach juices, or food and fluids back up from the stomach into the esophagus.



#### GERD Definition



#### Key issues is when:

-regurgitation of stomach (gastric) contents into the esophagus becomes frequent & severe enough to impact daily life.

#### Classic Symptoms

- Heartburn burning under the breastbone
- Regurgitation or bitter taste in back of mouth
- Problem swallowing food sticking
- Indigestion
- Chest pain

#### Worrisome Signs

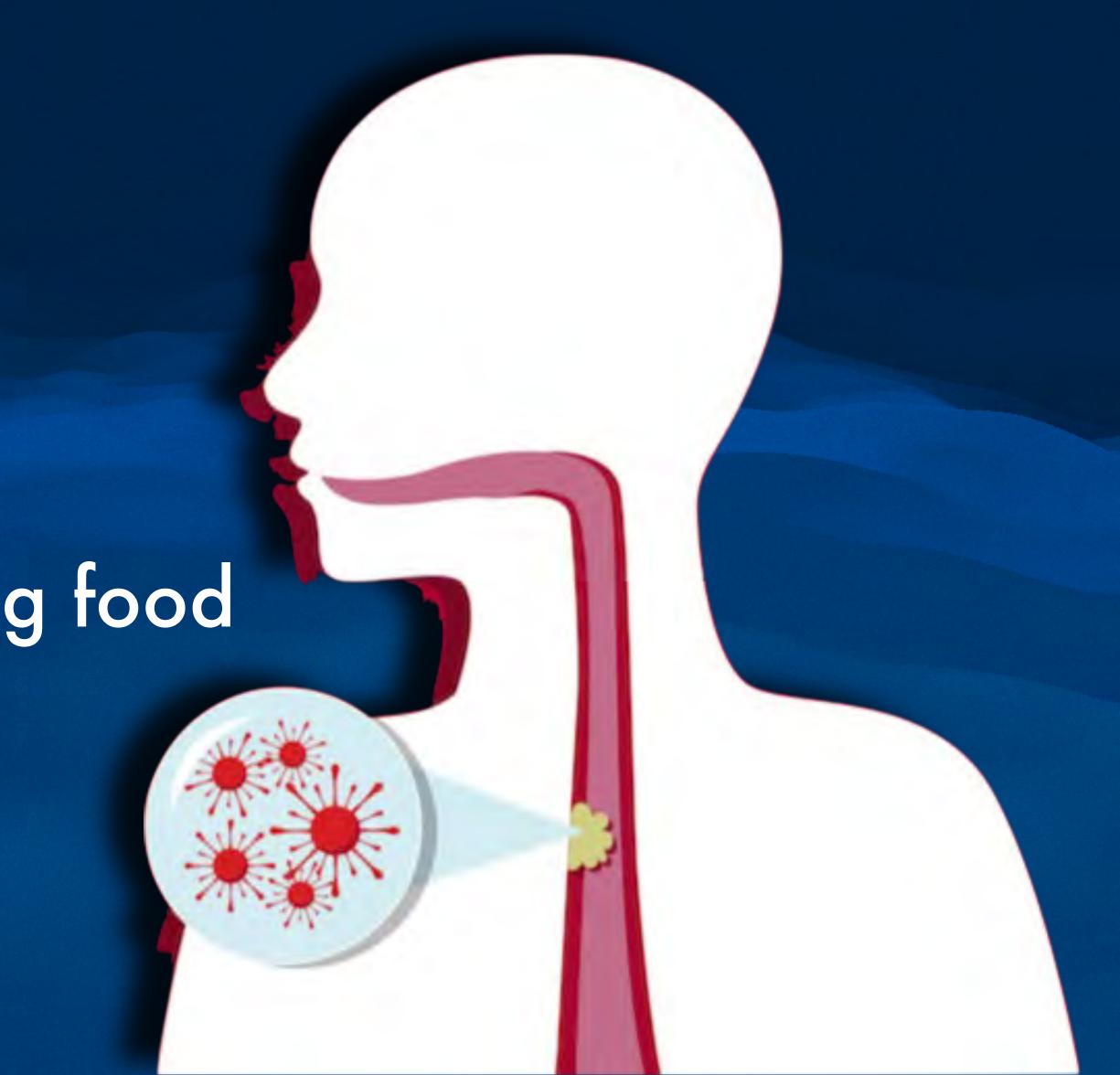
Unexplained weight loss

Blood in saliva

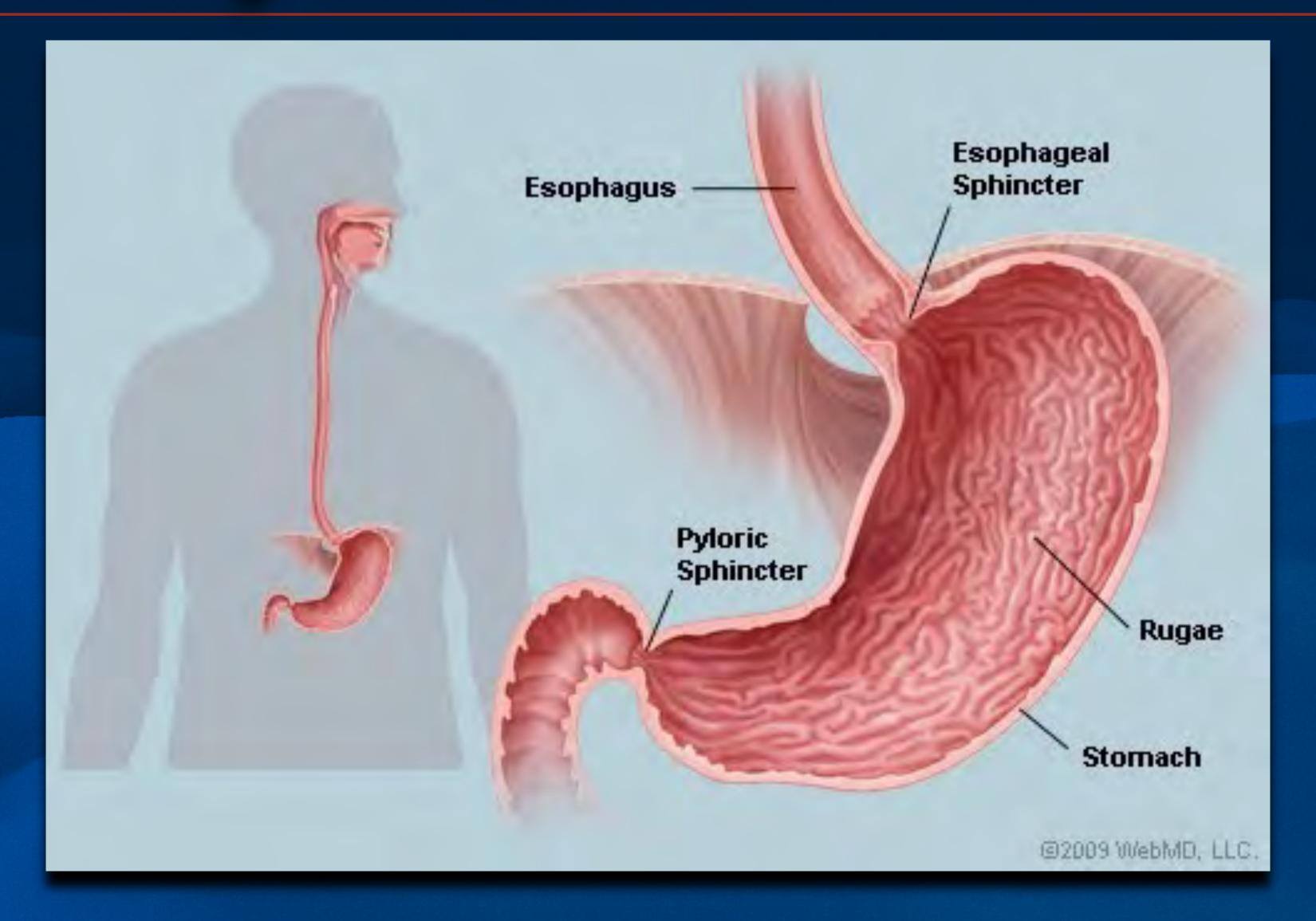
• Severe problems swallowing food

\* Think - Esophageal Cancer

★ LATE signs = poor prognosis



# Anatomy Lesson



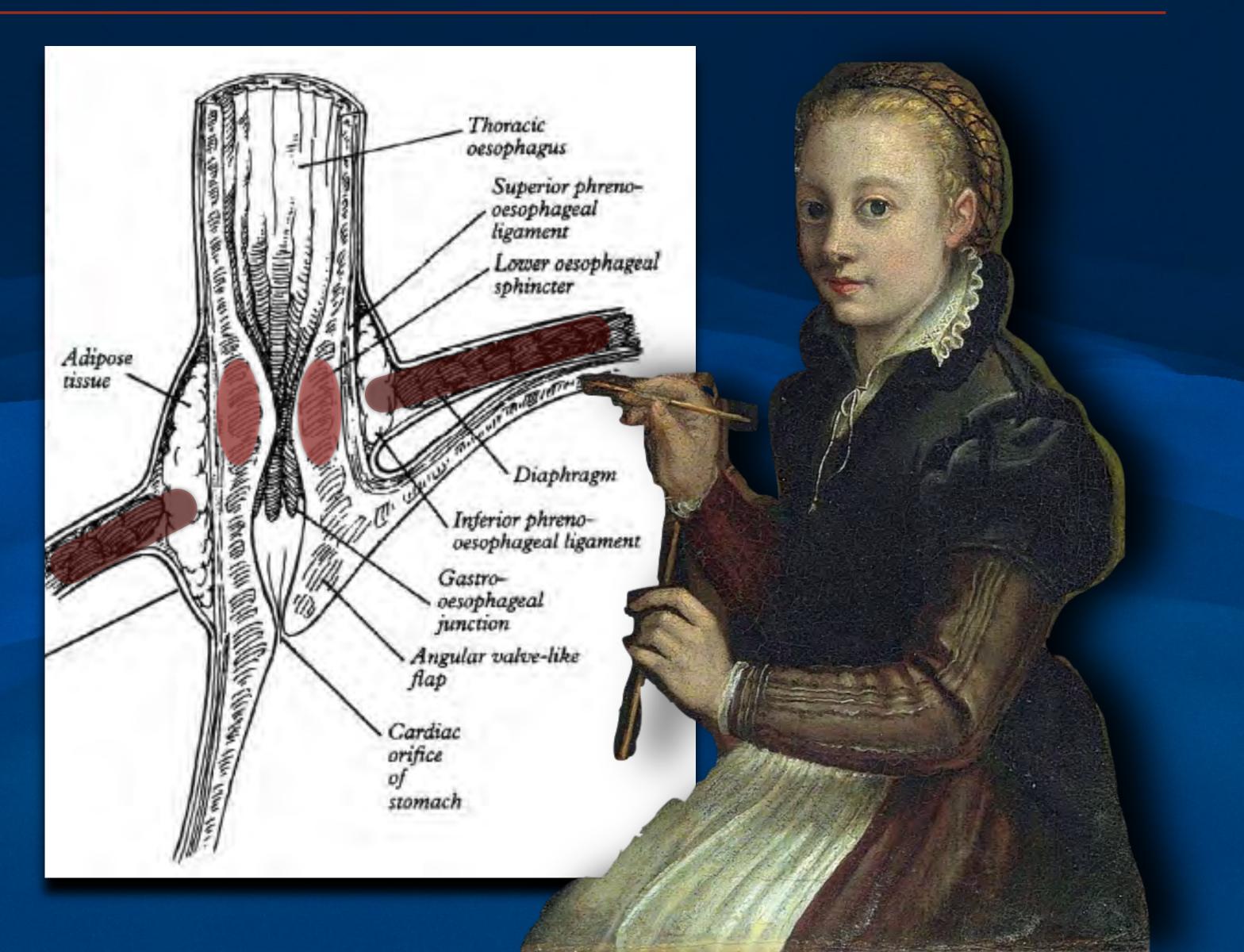
#### Anatomy Lesson

Lower Esophageal Sphincter Mechanism

#### Two Parts:

Lower Esophageal
 Sphincter (LES)

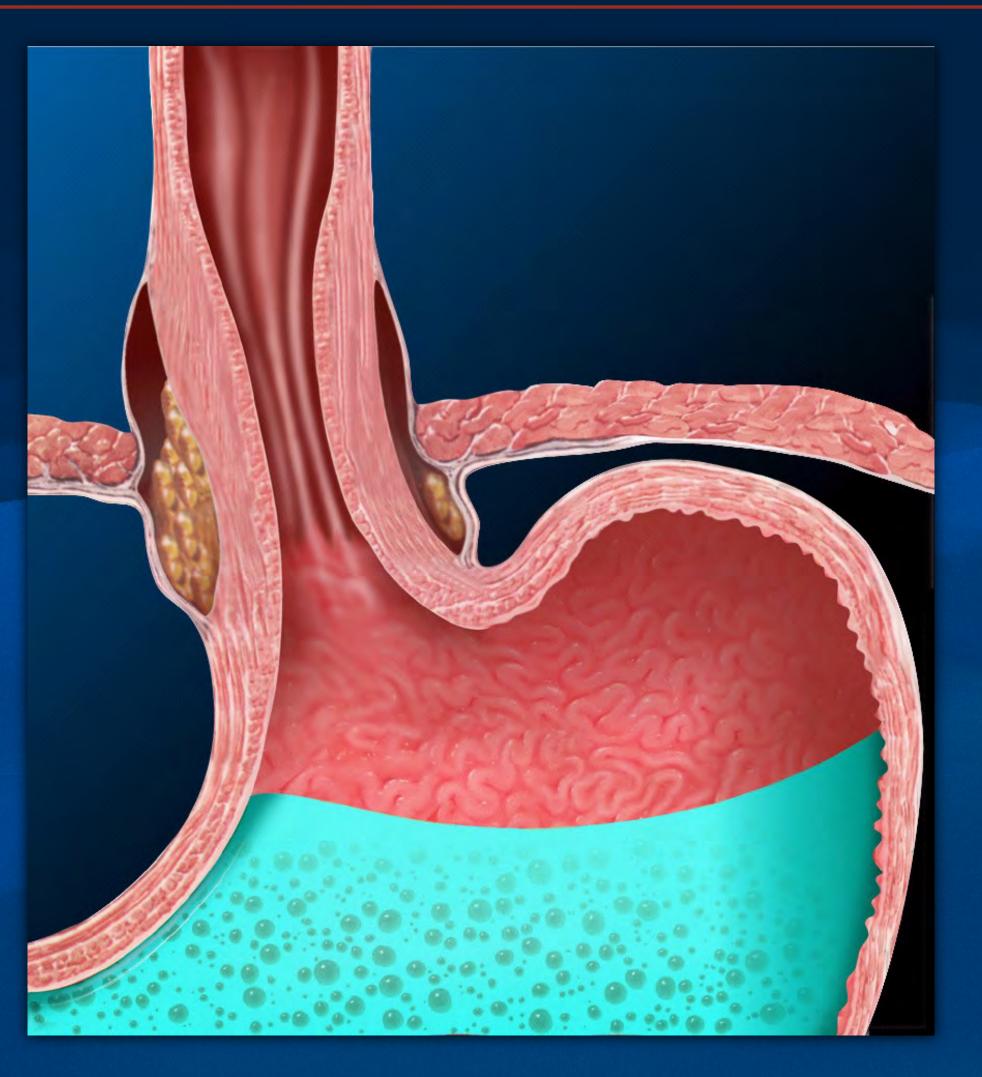
2) Diaphragm Pinch



#### GERD = Valve Failure

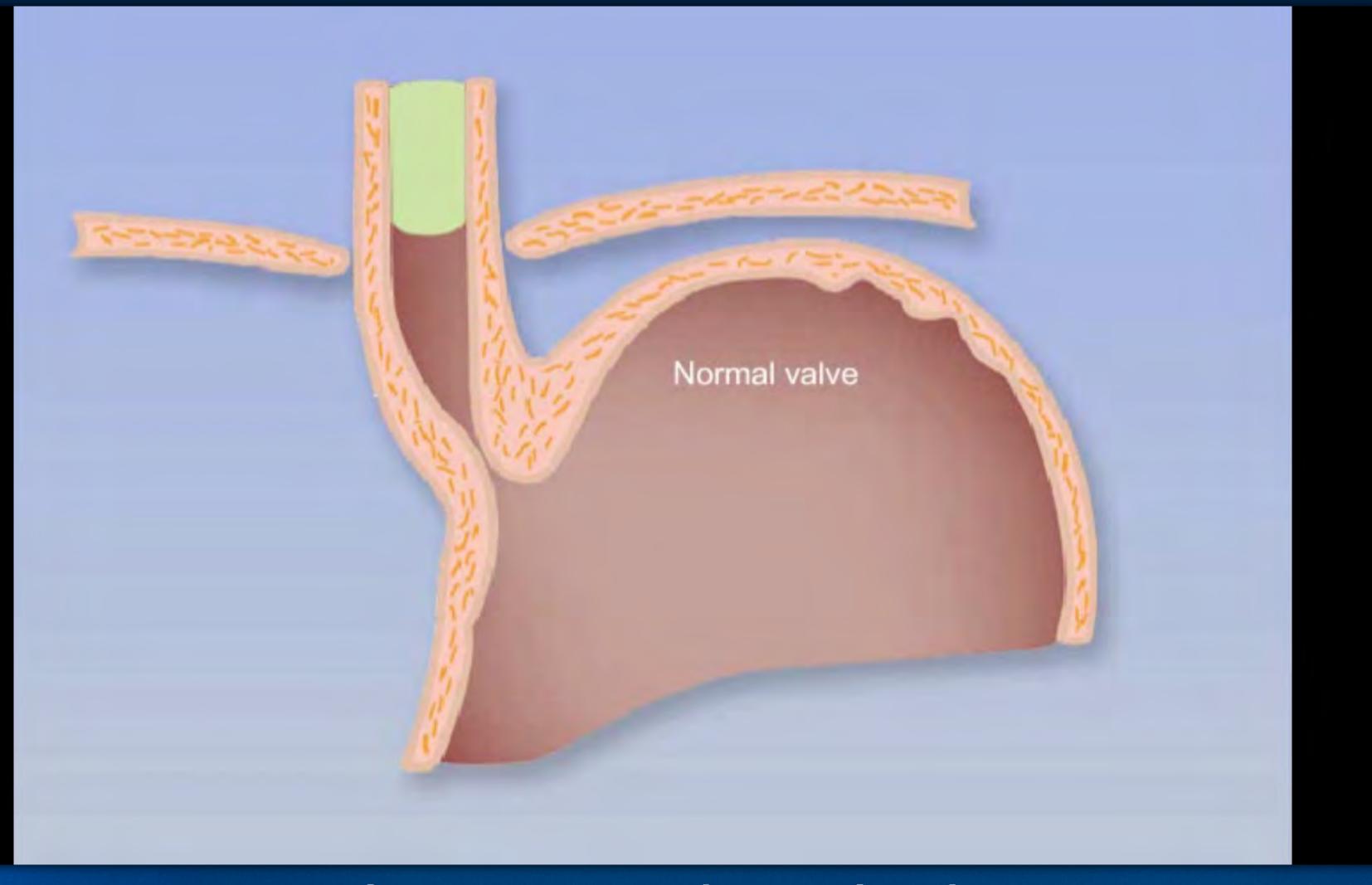


#### LES Valve Works



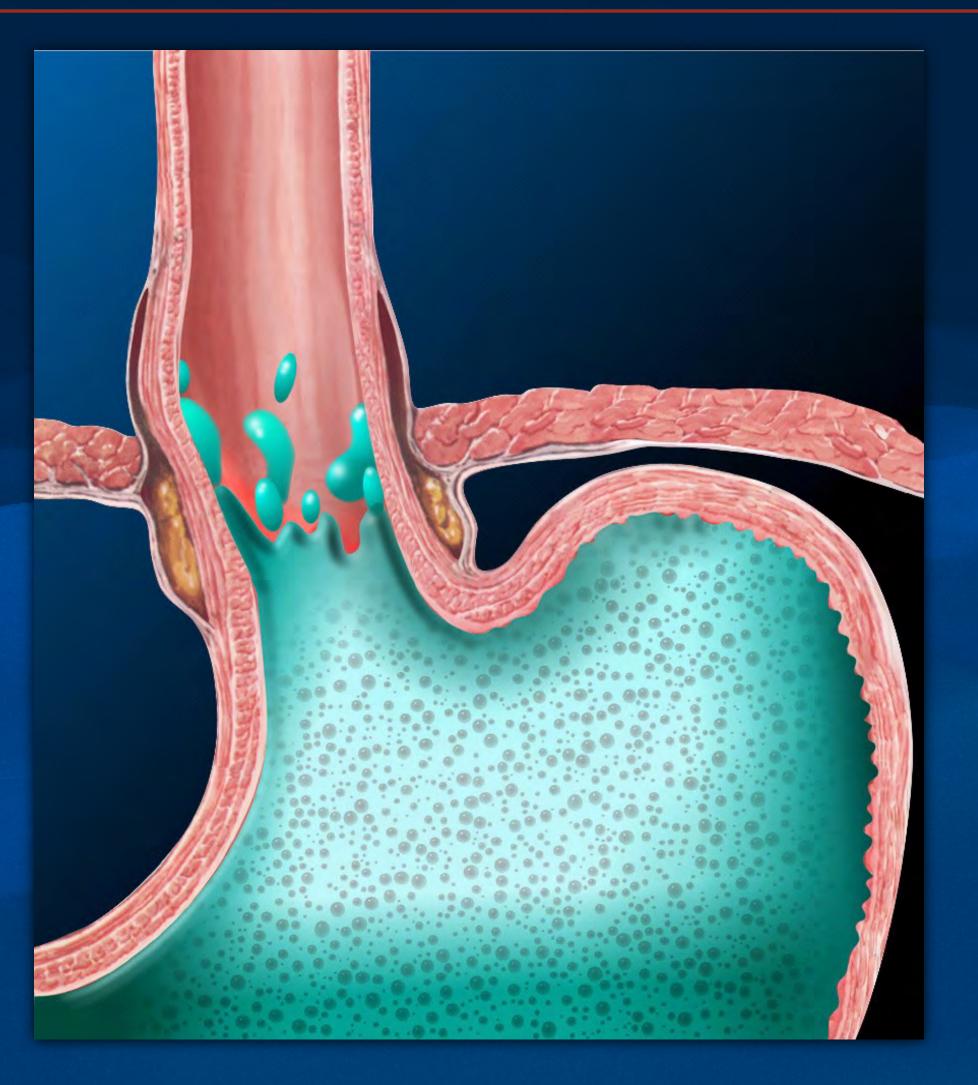
Normal

#### LES Valve: Good



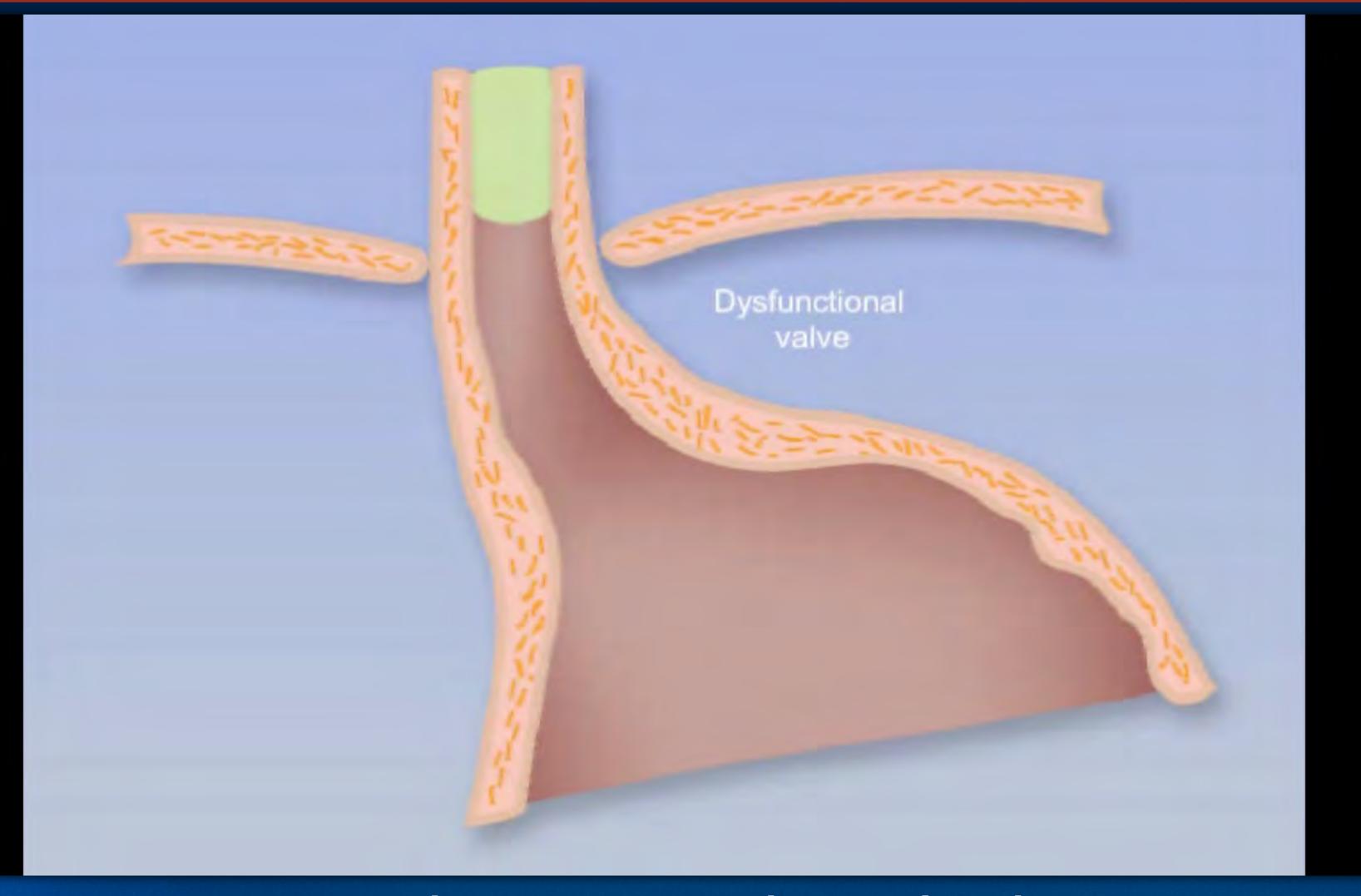
Normal - Lower Esophageal Sphincter

#### LES Valve Fails - Reflux



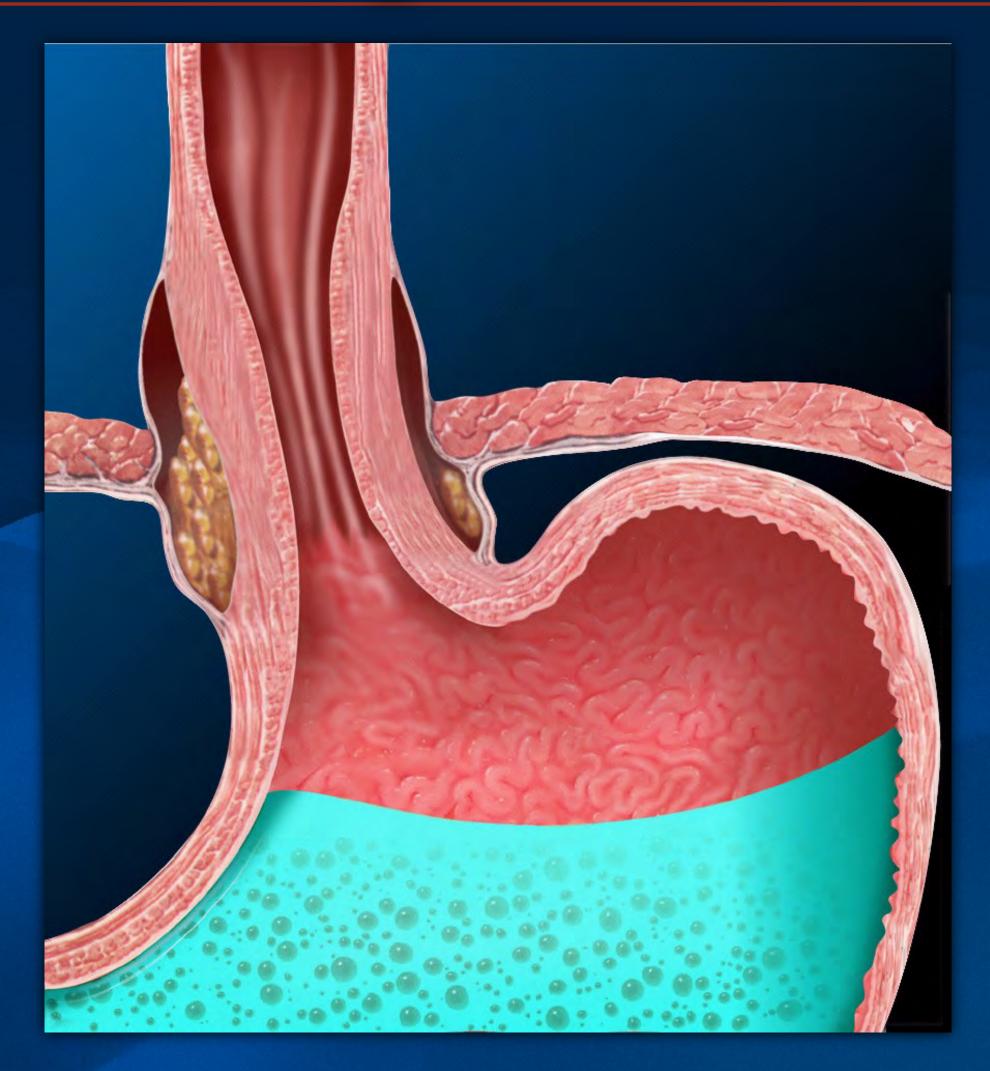
GERD

#### LES Valve: Bad



Compromised - Lower Esophageal Sphincter

# Side by Side



Normal

GERD patient

#### Where is GERD?





#### North America

Only one of the 15 studies published since the original review reported GERD prevalence in the USA. This was a survey carried out in 2003 among residents aged 20–95 years in Olmsted County, Minnesota, USA (table 1).8 A bowel-disease questionnaire that included questions assessing reflux symptoms was sent to 4194 individuals, and 2273 questionnaires (54.2%) were completed and returned. A total of 411 individuals (18.1%) had GERD, defined as at least weekly heartburn and/or regurgitation. This prevalence estimate is similar to that reported in papers published in 1997 and 1999 assessing the same underlying population (approximately 20% in both

... prevalence of GERD in the USA to be 18.1-27.8%...

80% overall in the USA12), and is sociodemographically similar to the US white population. Another paper included in the 2005 review reported the prevalence of at least weekly heart-burn and/or regurgitation in an employed population in the southern USA to be 27.8%.13 Taken together, the four studies that reported the prevalence of GERD defined as at least weekly heartburn and/or regurgitation (not heartburn and regurgitation separately) in the original review and the updated searches show the prevalence of GERD in the USA to be 18.1%–27.8% (sample size-weighted mean 19.8%)."

El-Serag HB, Sweet S, Winchester C, et al. Update on the epidemiology of gastro-oesophageal reflux disease: a systematic review. Gut. 2014. 63(6): 871-80.

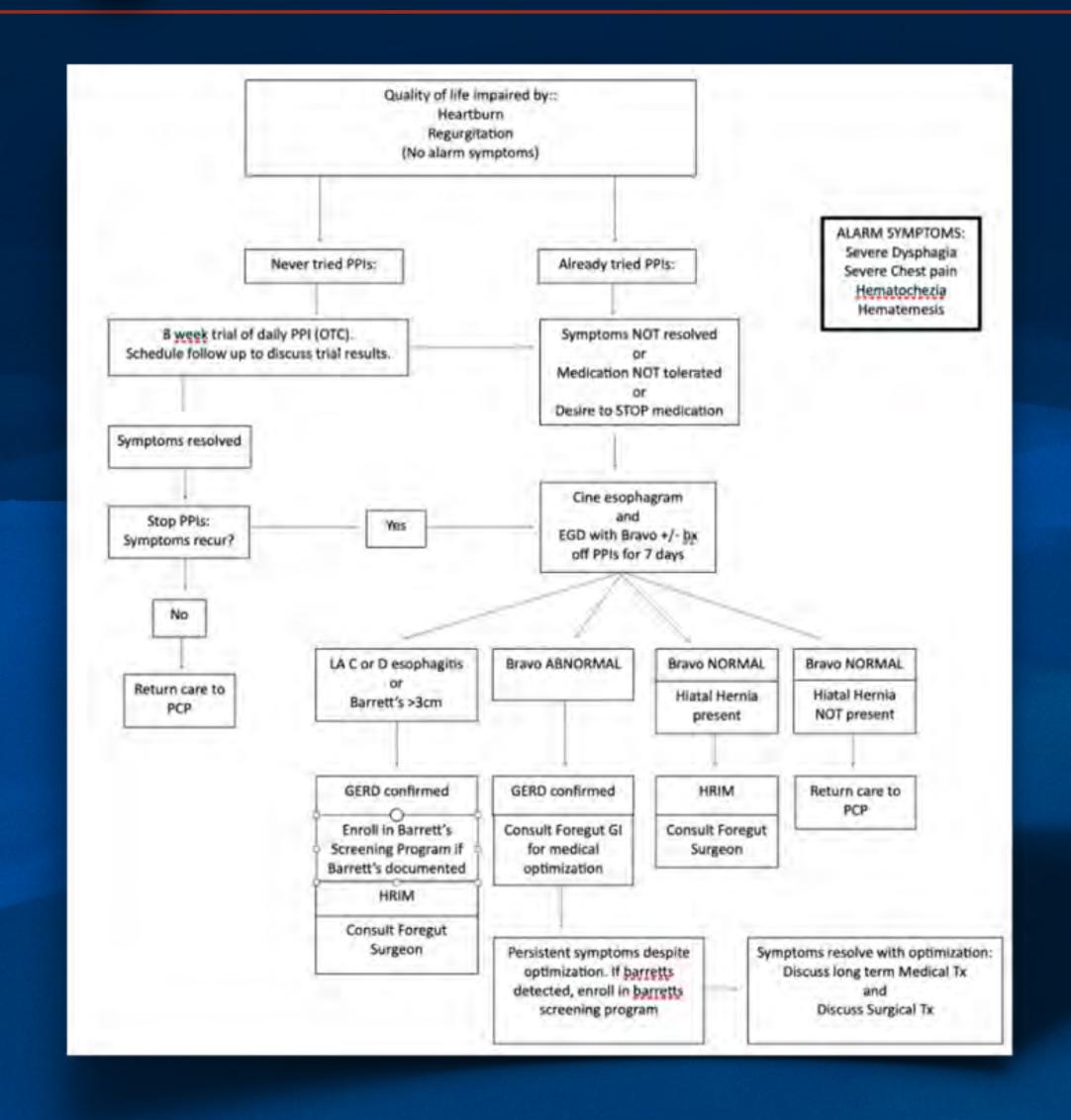




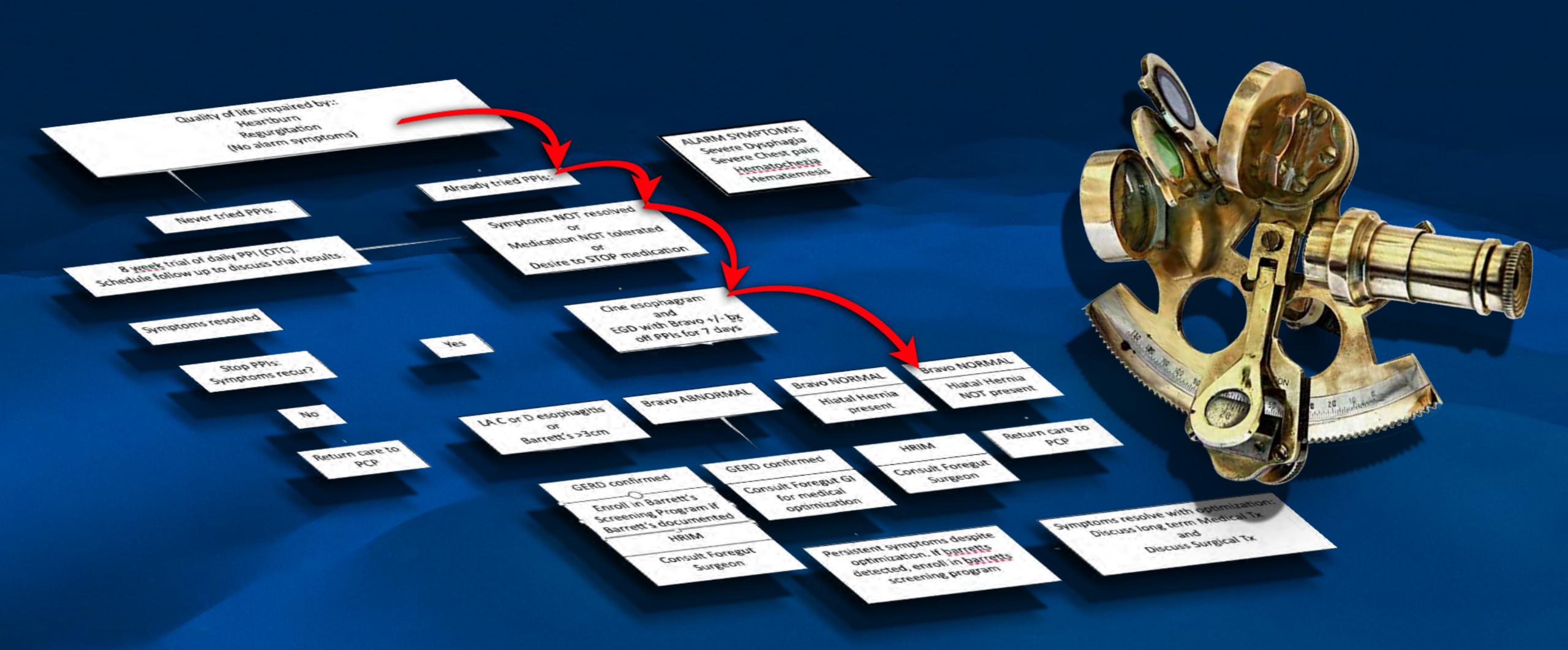
# How are we managing GERD?

#### We're NOT!

# GERD Algorithm



#### GERD is Complex to Navigate



#### Patients - Self Directed



#### OTC Medications

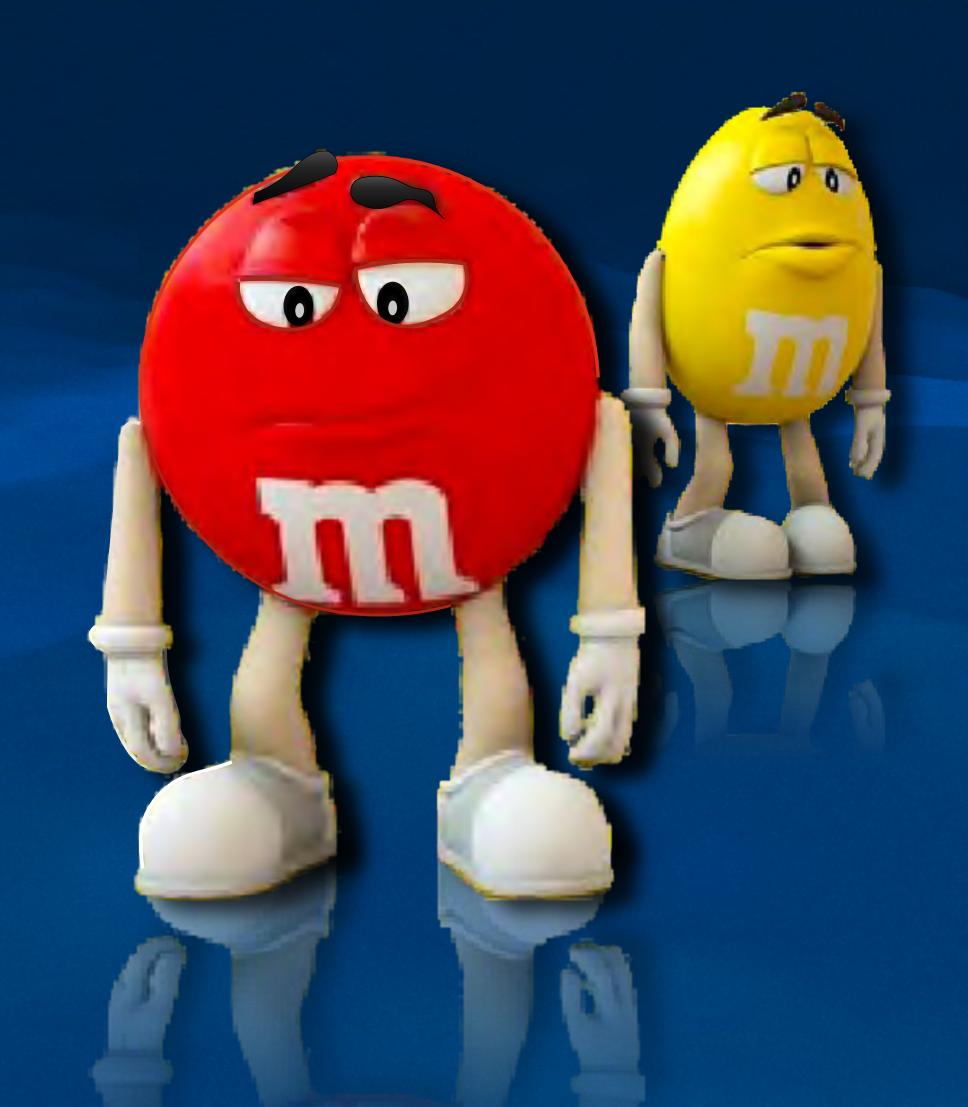


#### Primary Care Physicians



#### Lifestyle Modifications

- NO Alcohol
- NO Caffeine
- NO Chocolate
- Don't eat late
- Sleep Sitting Up
- Lose Weight
- Stop Smoking



Long wait for GI





#### Easier to write a Rx



### GERD is HUGE Drug Market



- 113 million PPI Rx's filled globally<sup>1</sup>
- \$13 billion sales worldwide<sup>2</sup>
- US alone 21 million people<sup>3</sup>

- 1. Madanick RD. Proton pump inhibitor side effects and drug interactions: much ado about nothing? Cleve Clin J Med, 2011. 78(1): p. 39–49.
- 2. Katz MH. Failing the acid test: benefits of proton pump inhibitors may not justify the risks for many users. Arch Intern Med, 2010. 170(9): p. 747–8.
- 3. El-Serag HB, Sweet S, Winchester CC, Dent J. Update on the epidemiology of gastroesophageal reflux disease: a systematic review. Gut. 2014;63(6):871–880.

# Not really fixing the problem

#### Better Living via Chemistry

#### Acid Base Neutralization

$$HC_2H_3O_2(aq) + KOH(aq) > H_2O(a) + KC_2H_3O_2(aq)$$
 $HC_2H_3O_2(aq) + OH(aq) > H_2O(a) + C_2H_3O_2$ 
 $HC_2H_3O_2(aq) + OH(aq) > H_2O(a) + C_2H_3O_2(aq)$ 

Problems with Medical Therapy

Doesn't actually stop reflux

- you keep refluxing stomach liquids that are not acidic

- regurgitation will continue

#### High Dissatisfaction



American Gastrointestinal Association Clinical Guidelines 2022 - as many as half of suspected GERD patients get no relief from acid suppression.

Studies also indicate that 40-50% of patients are dissatisfied with the results of medical therapy for GERD.

#### Problems with Medical Therapy

Doesn't stop progression to Esophageal Cancer



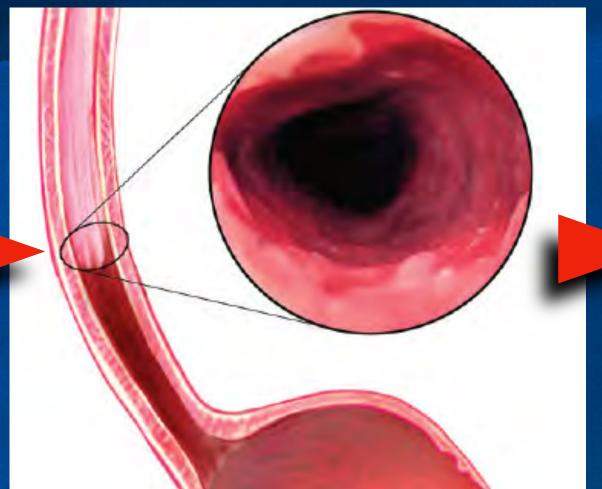
#### Progression to Cancer

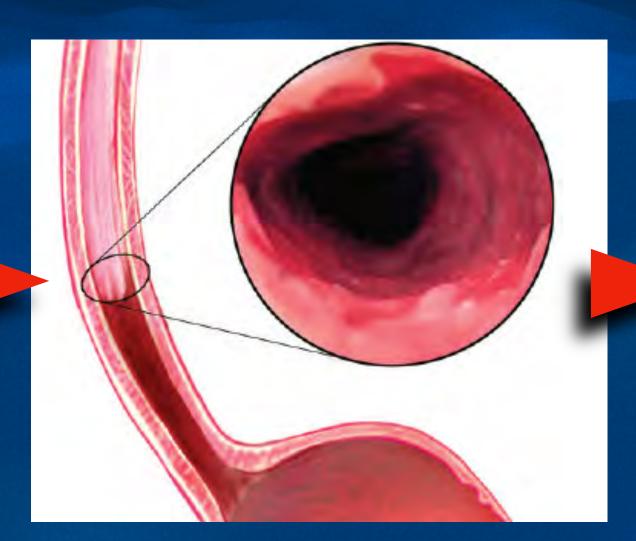
Gastroesophageal Reflux (GERD) Nondysplastic Barrett's Esophagus (NDBE) Dysplastic Barrett's Esophagus (LGD, HGD)

Esophageal
Adenocarcinoma
(EAC)
CANCER

**PRECANCER** 

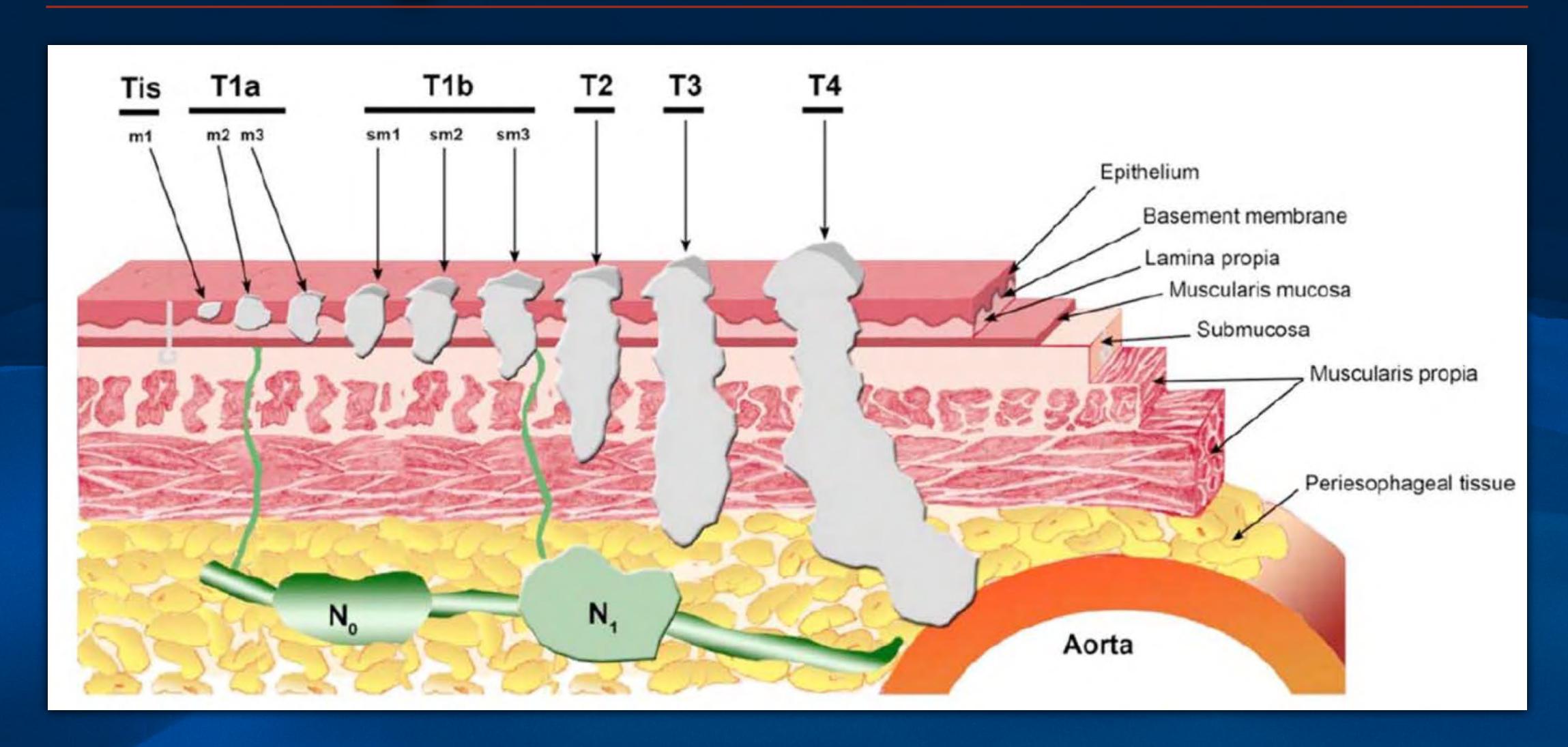




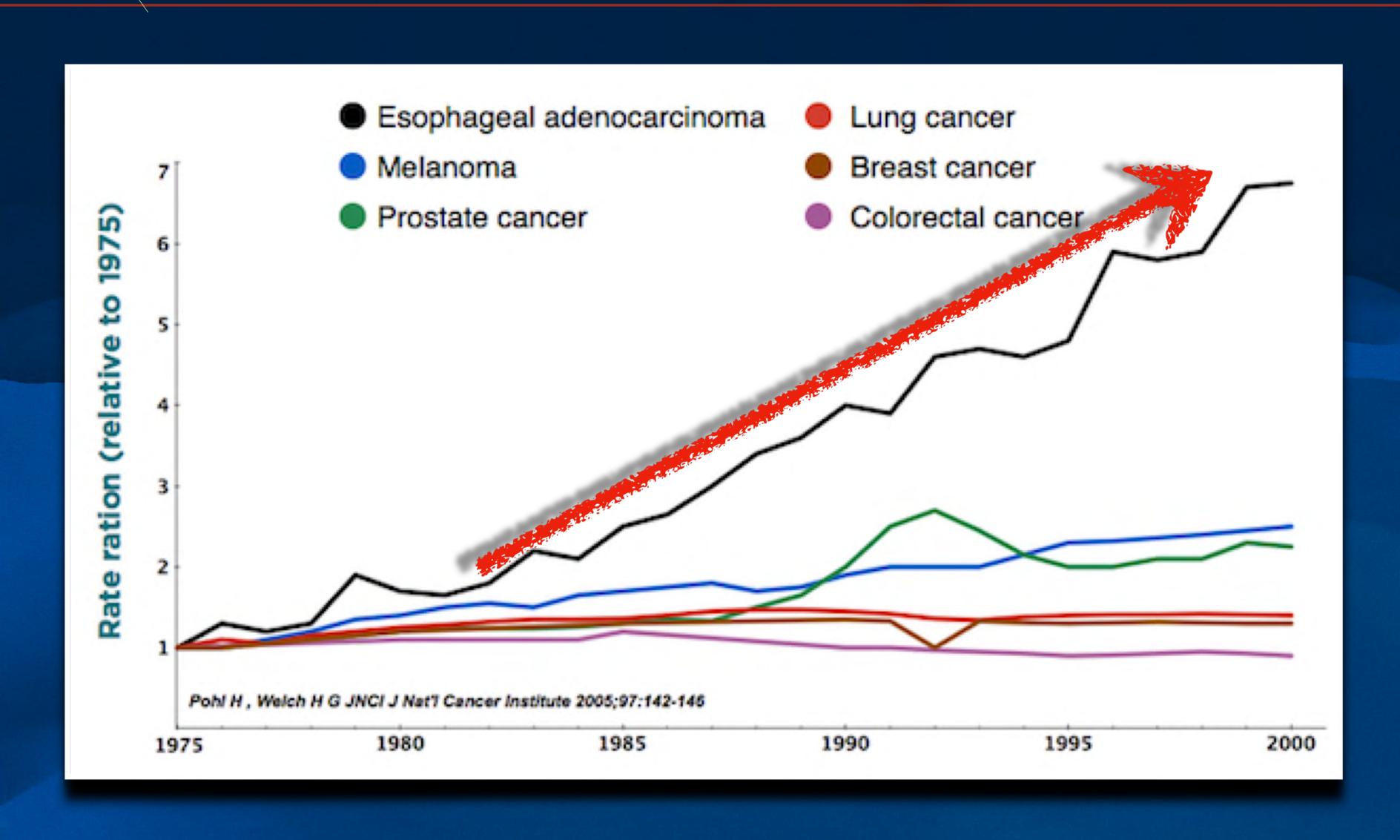




#### Progression of Cancer



#### Incidence of Esophageal Cancer



#### Esophageal Cancer

Estimated New Cases in 2023

21,560

% of All New Cancer Cases

1.1%

Estimated Deaths in 2023

16,120

% of All Cancer Deaths

2.6%

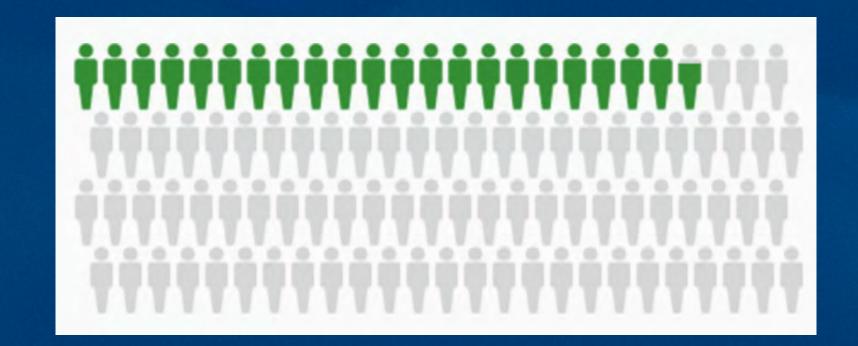


\*https://www.statfacts/html/esoph.html December 9,.2023

5-Year Relative Survival

21.7%

2013-2019



Gray figures = died from esophageal cancer Green figures = those who have survived 5 years or more

#### Breast Cancer

Estimated New Cases in 2023

297,790

% of All New Cancer Cases

15.2%

Estimated Deaths in 2023

43,170

% of All Cancer Deaths

7.1%

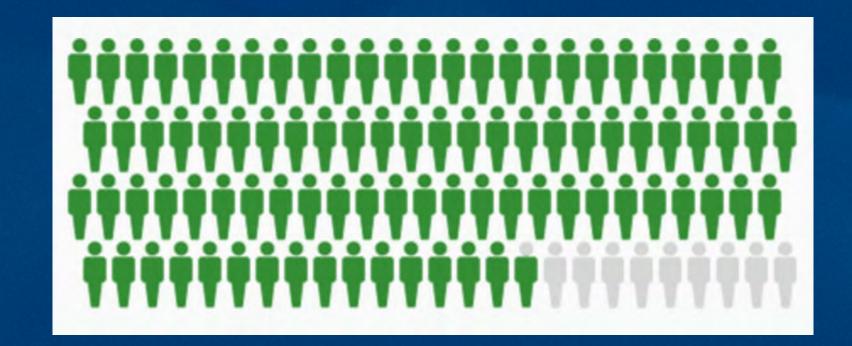


\*https://www.now/statfacts/html/breast.html December 9,.2023

5-Year Relative Survival

90.8%

2013-2019



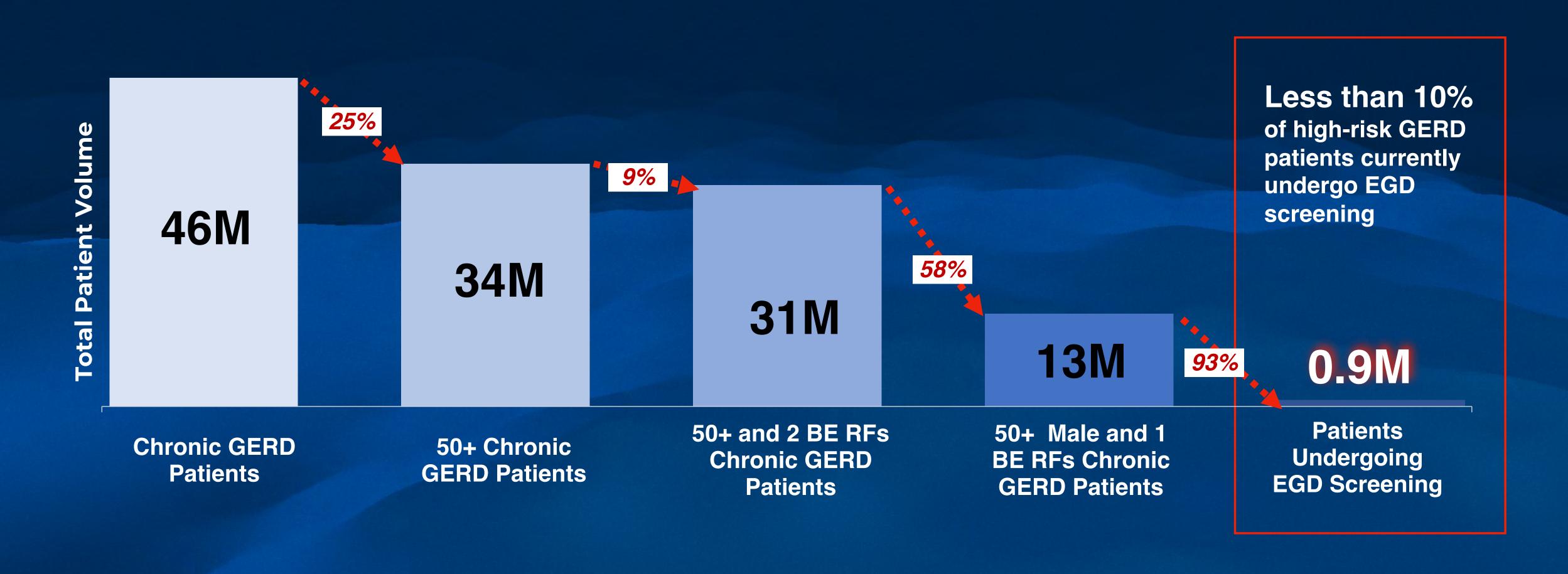
Gray figures = died from breast cancer Green figures = those who have survived 5 years or more

### Are Meds Helping?

Increase in esophageal cancer parallels the use of acid-suppressive medications

Even if PPIs aren't causing cancer (and some think they may be), they certainly aren't stopping it

## Inadequate Screening



Sources: DRG; Deloitte Analysis, on file Lucid Dx

### Esophageal Cancer



"Our current approach to the prevention and management of gastroesophageal reflux disease is an abstract failure."

Jeff H. Peters, MD

## Quick Story

"EsoCheck & Heartburn Chef"

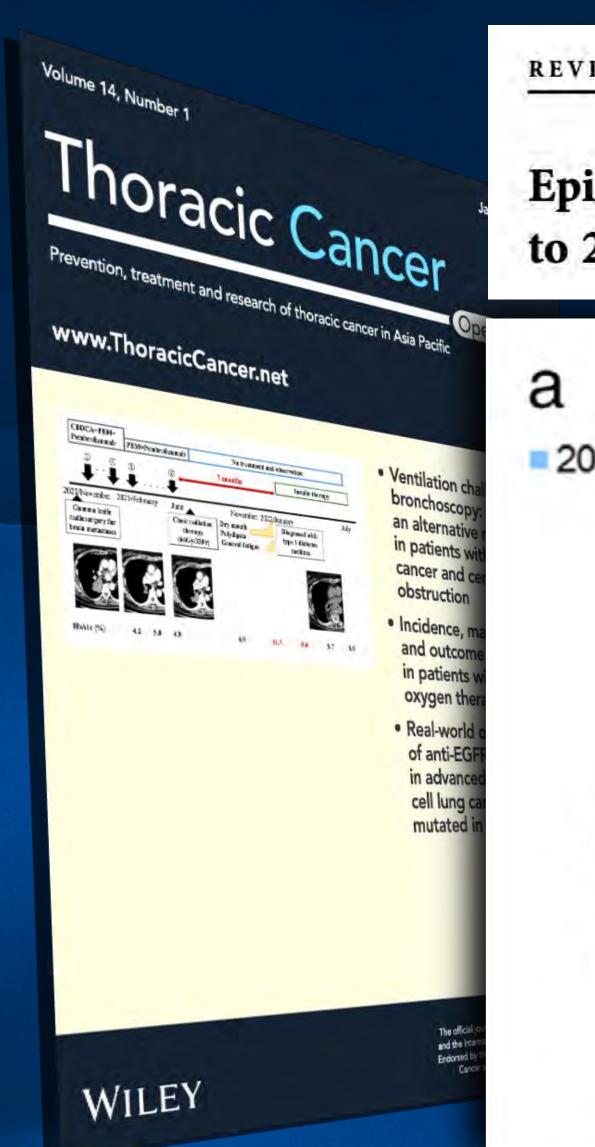


#### Perspective of the Future

## Patients are Everywhere

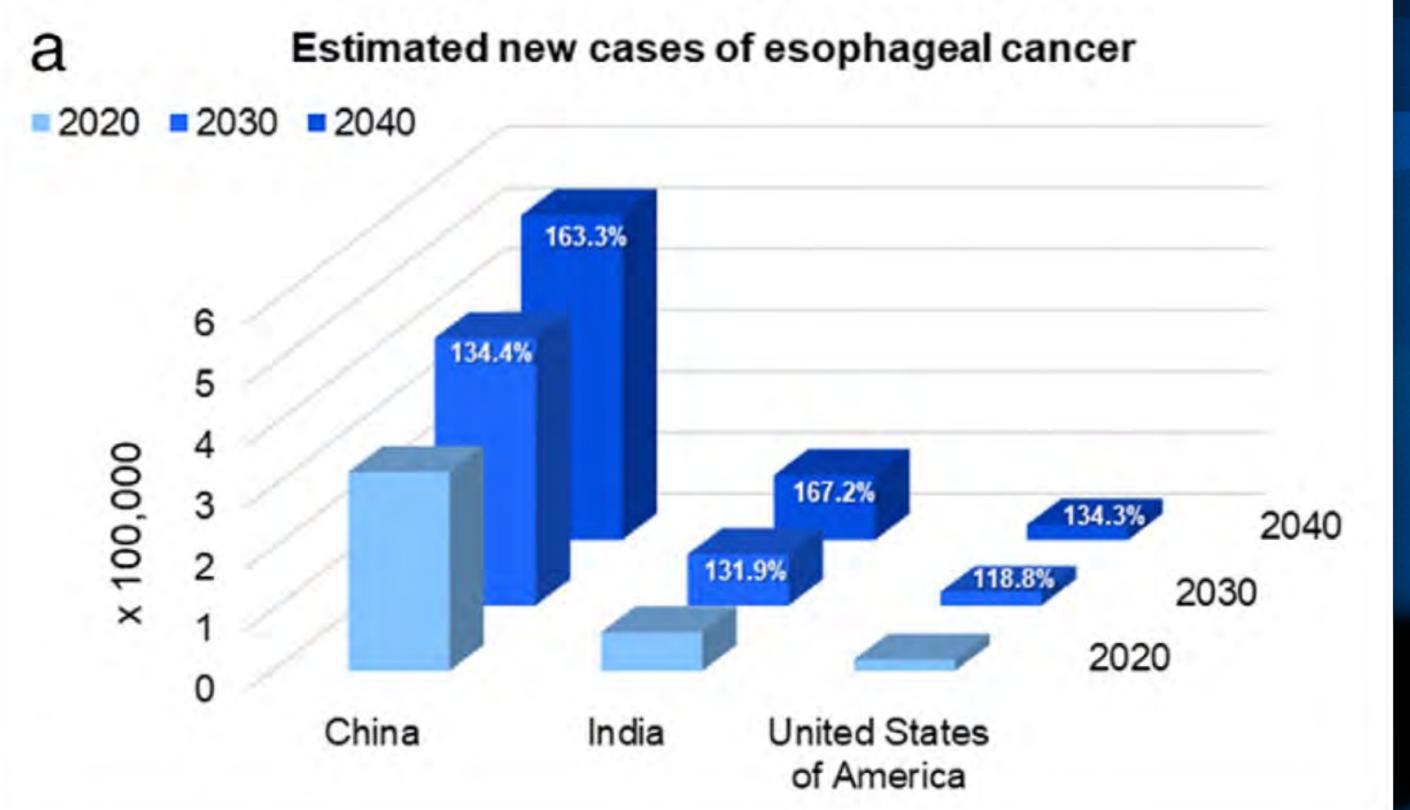


## Things are going to get worse

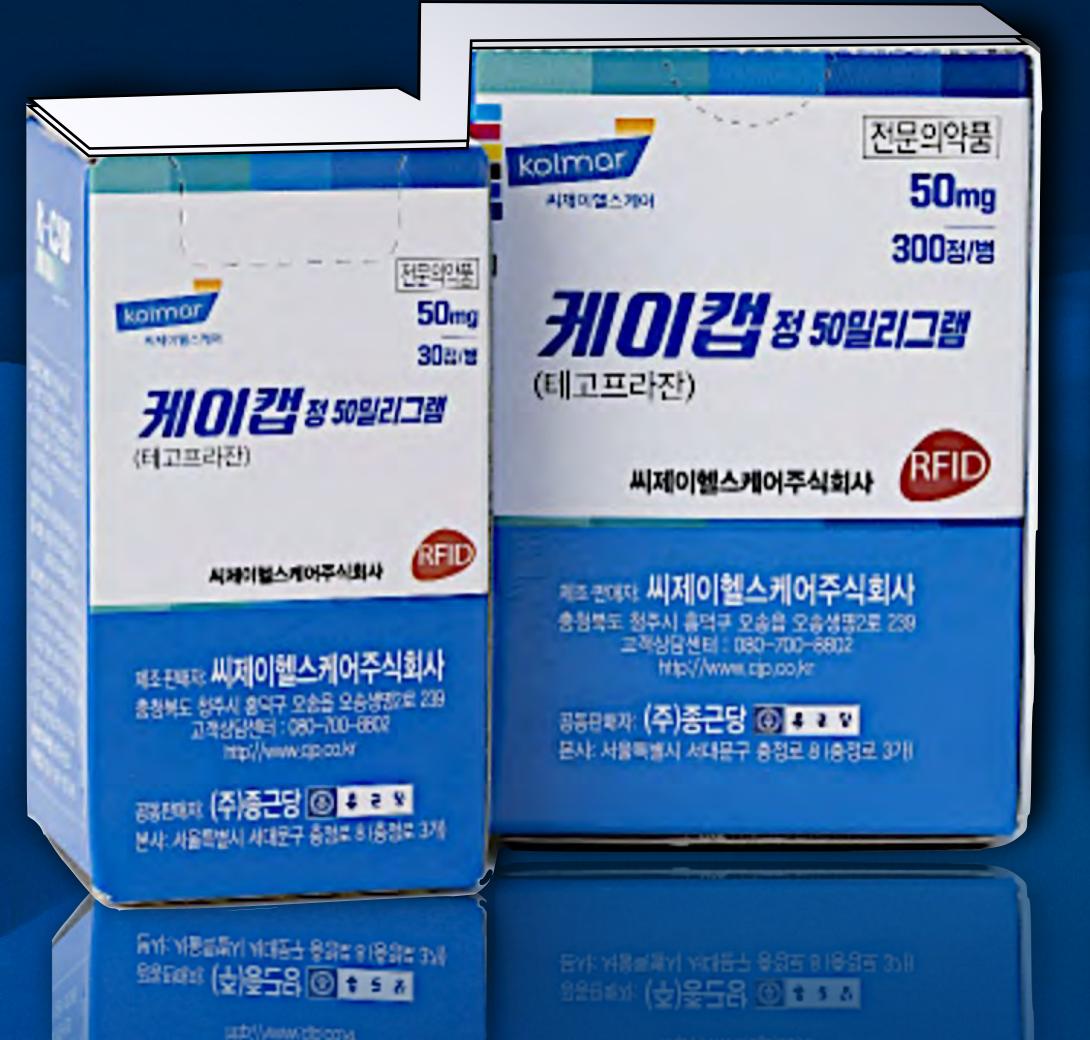


Epidemiology of esophageal cancer in 2020 and projections to 2030 and 2040

Thorac Cancer. 2023 Jan; 14(1): 3–11.

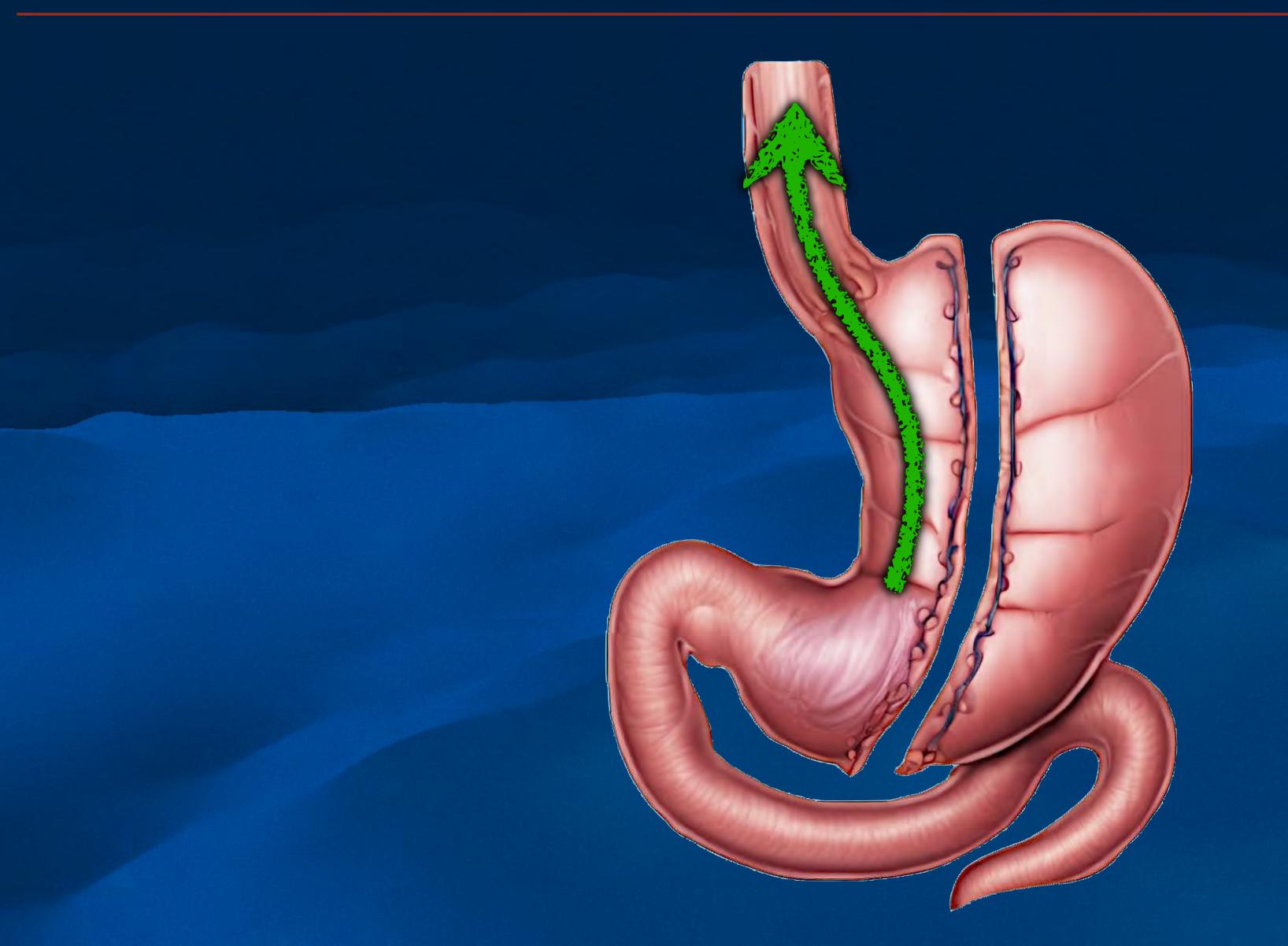


#### PCABS





### Sleeve Gastrectomy



#### Aging Population

#### **ACID REFLUX**

I read in the news that long-term use of the proton pump inhibitors I take for acid reflux may be linked to dementia. What else I can do for digestive relief?

HILE THERE IS no definite science showing that proton pump inhibitors (PPIs) cause dementia, some studies have shown that the longer you take them, the greater your dementia risk. Though PPIs are a powerful tool in fighting reflux and its negative health consequences, it might make sense to explore other long-term options.



#### Progression to Cancer

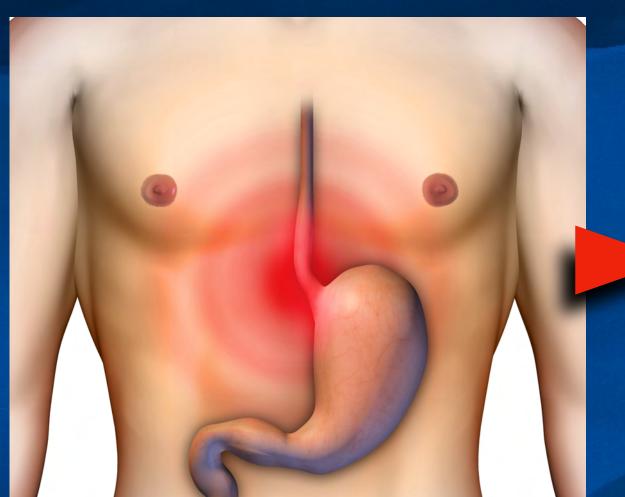
#### **EARLY DETECTION**

Nondysplastic Barrett's Esophagus (NDBE) Dysplastic Barrett's Esophagus (LGD, HGD)

#### TOO LATE

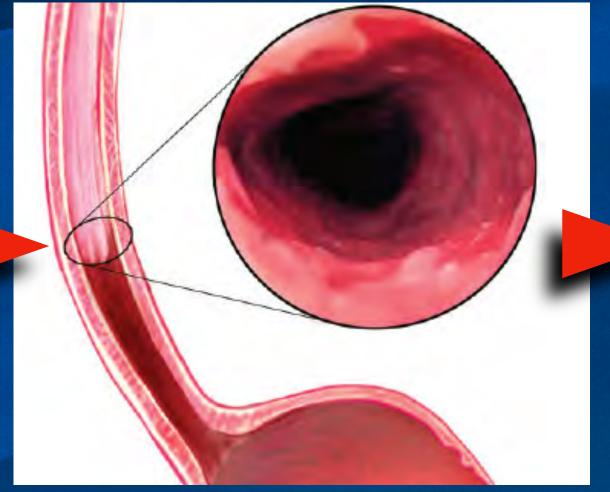
Esophageal
Adenocarcinoma
(EAC)
CANCER

#### **PRECANCER**

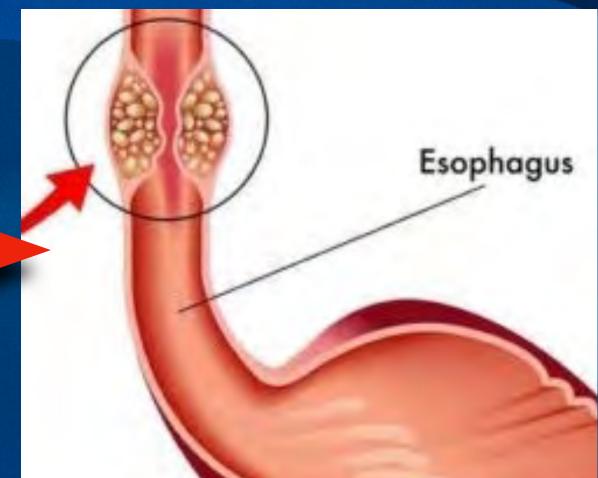


Gastroesophageal

Reflux (GERD)







## Window of Opportunity

ABINITATE SE EN BORNES SE EN S

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EARLY DETECTION

Nondysplastic Barrett's Esophagus (NDBE)

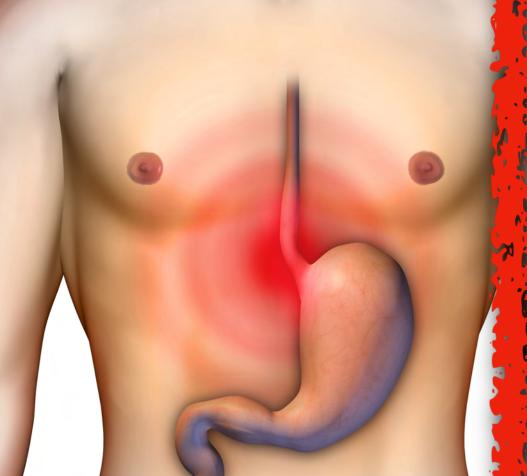
Dysplastic Barrett's Esophagus (LGD, HGD)

**TOO LATE** 

Esophageal Adenocarcinoma (EAC)

CANCER

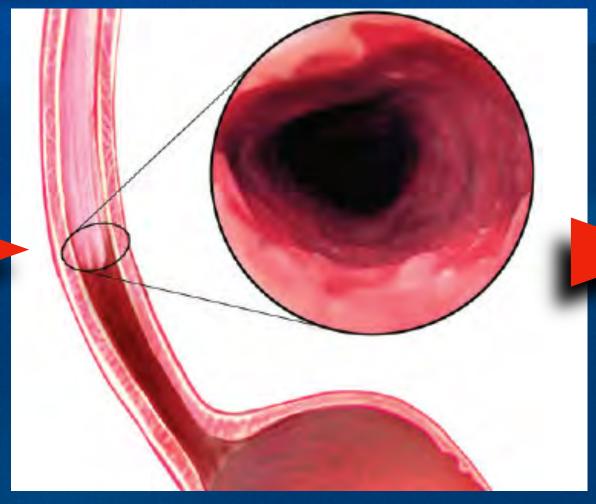


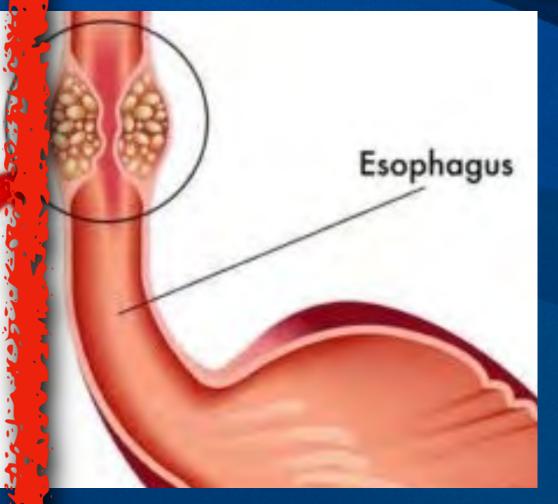


Gastroesophageal

Reflux (GERD)







## Screening...for Everyone



### Referral is Easy for PCP

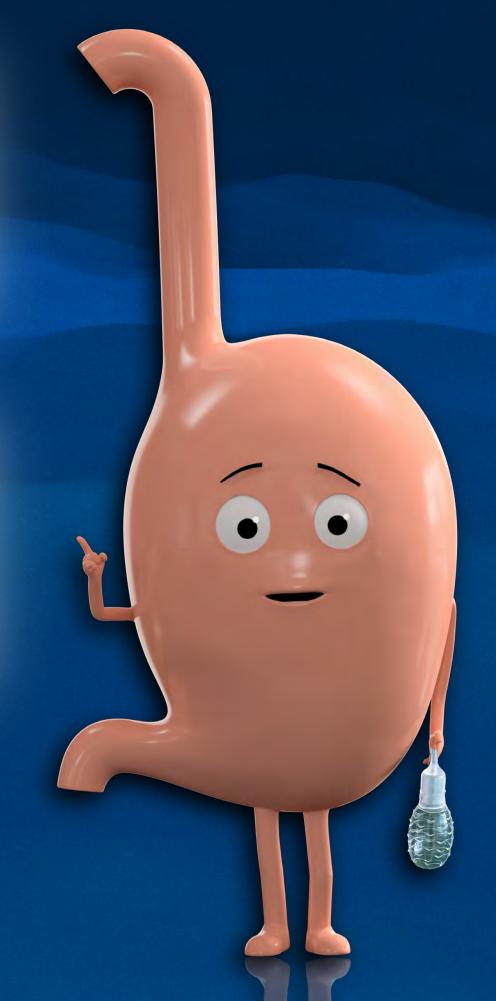


#### EsoCheck

cell collection device

#### EsoGuard

esophageal DNA test

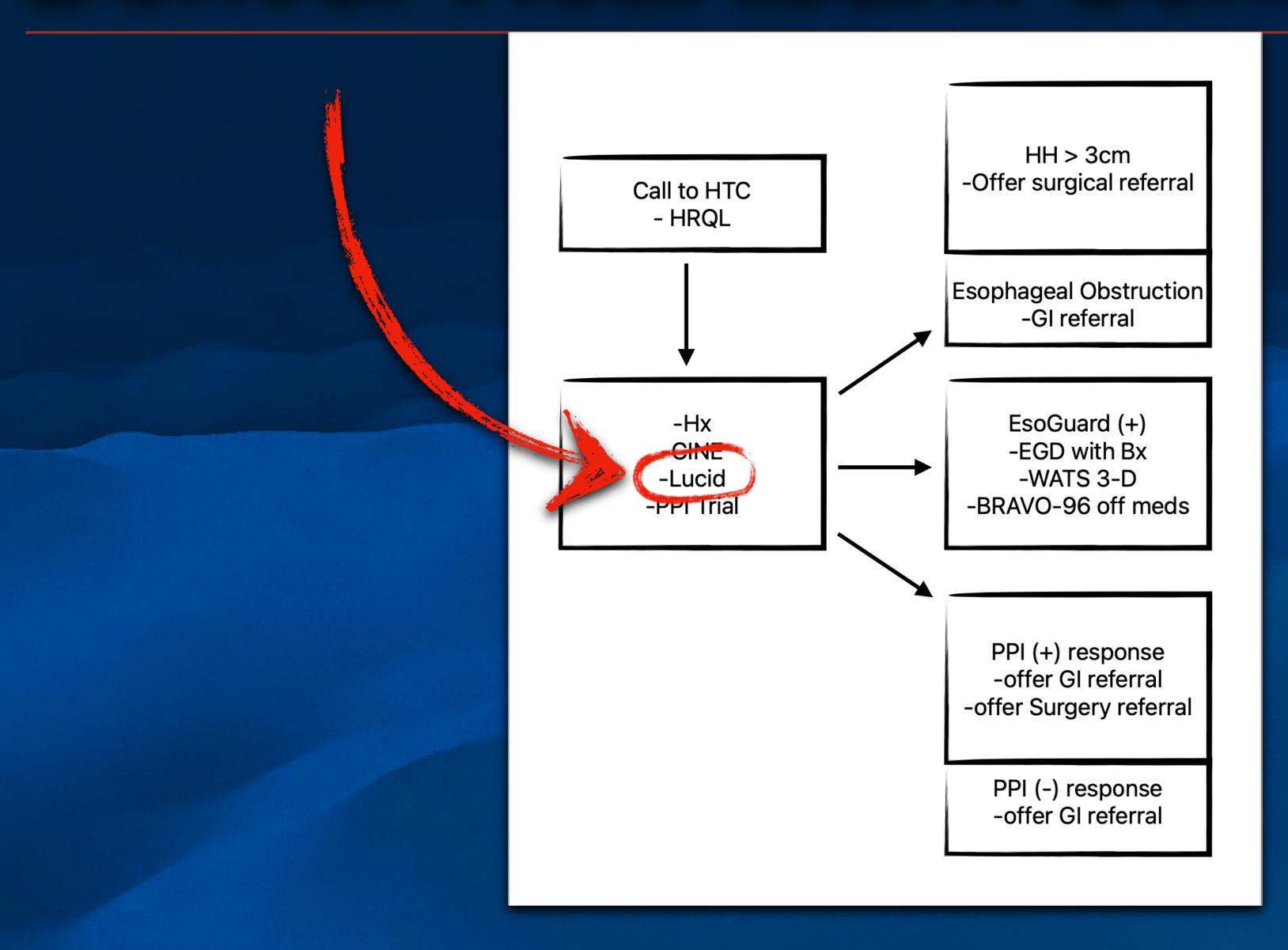


#### Lucid is well Positioned



Lucid Test Center Lone Tree, Colorado

#### Denver Heartburn Center

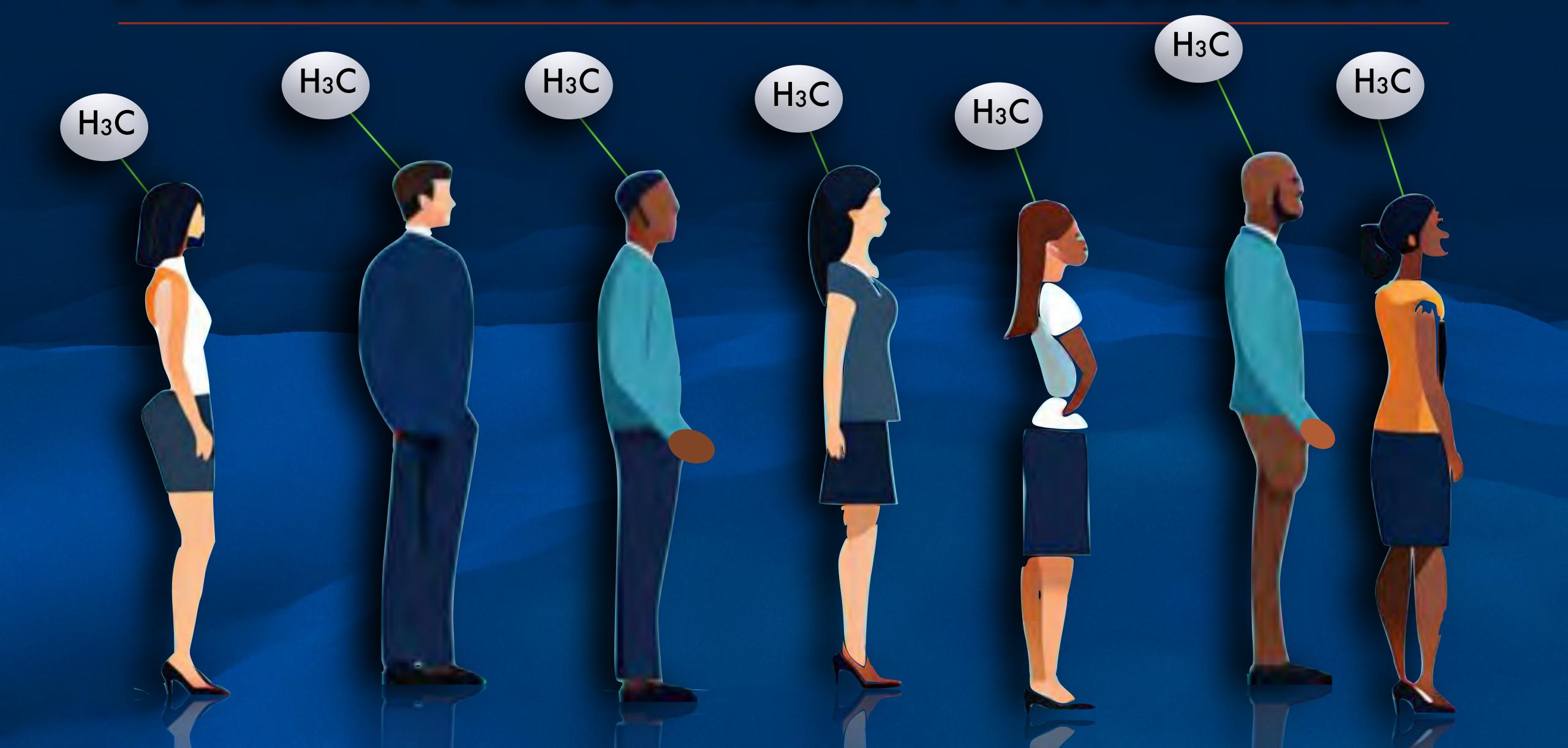


# DNA Methylation\* NH<sub>2</sub> NH<sub>2</sub> H<sub>3</sub>C cytosine methylated cytosine

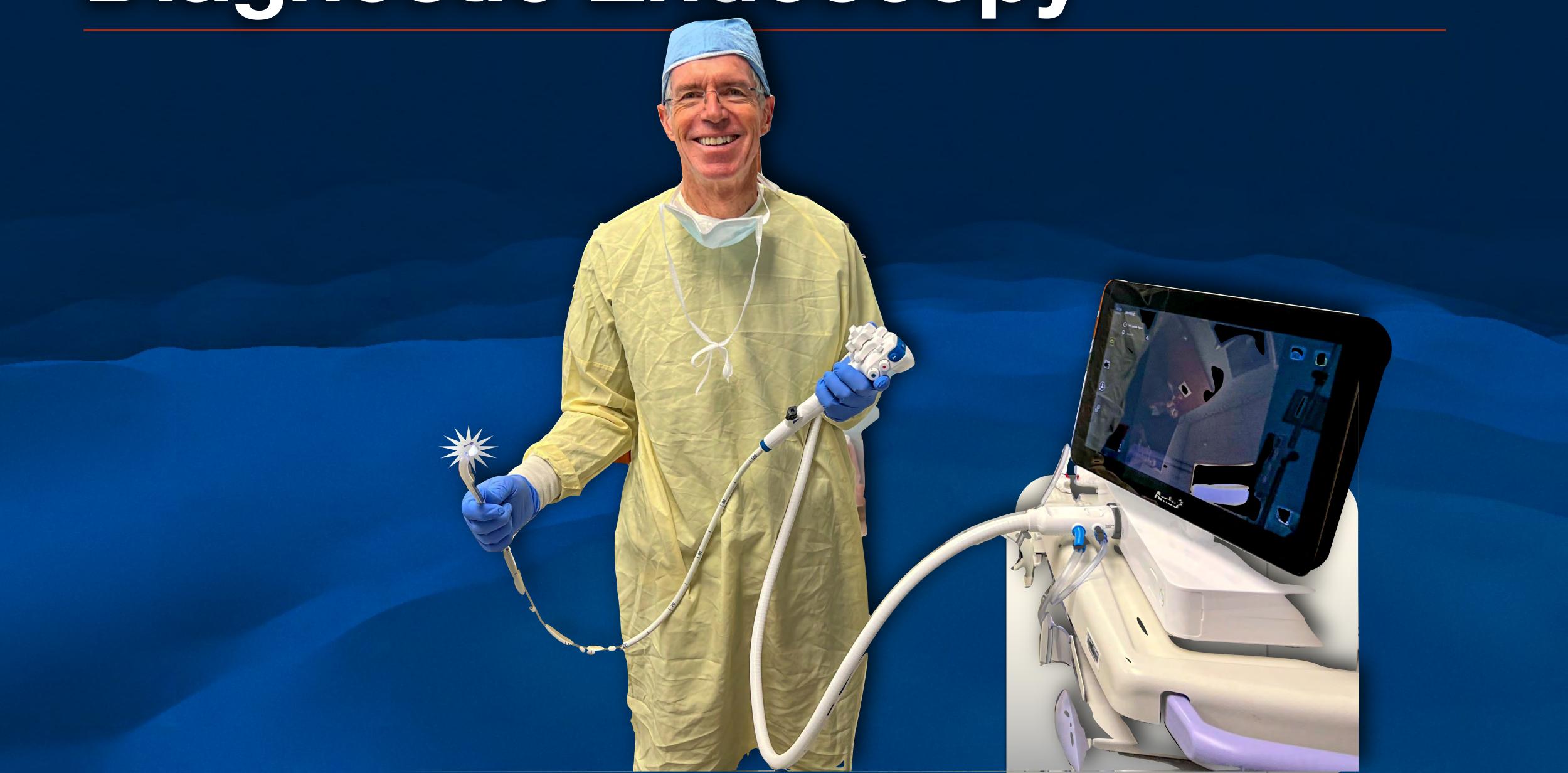
## Identify Critical Patients



#### Patient Enrollment / Retention



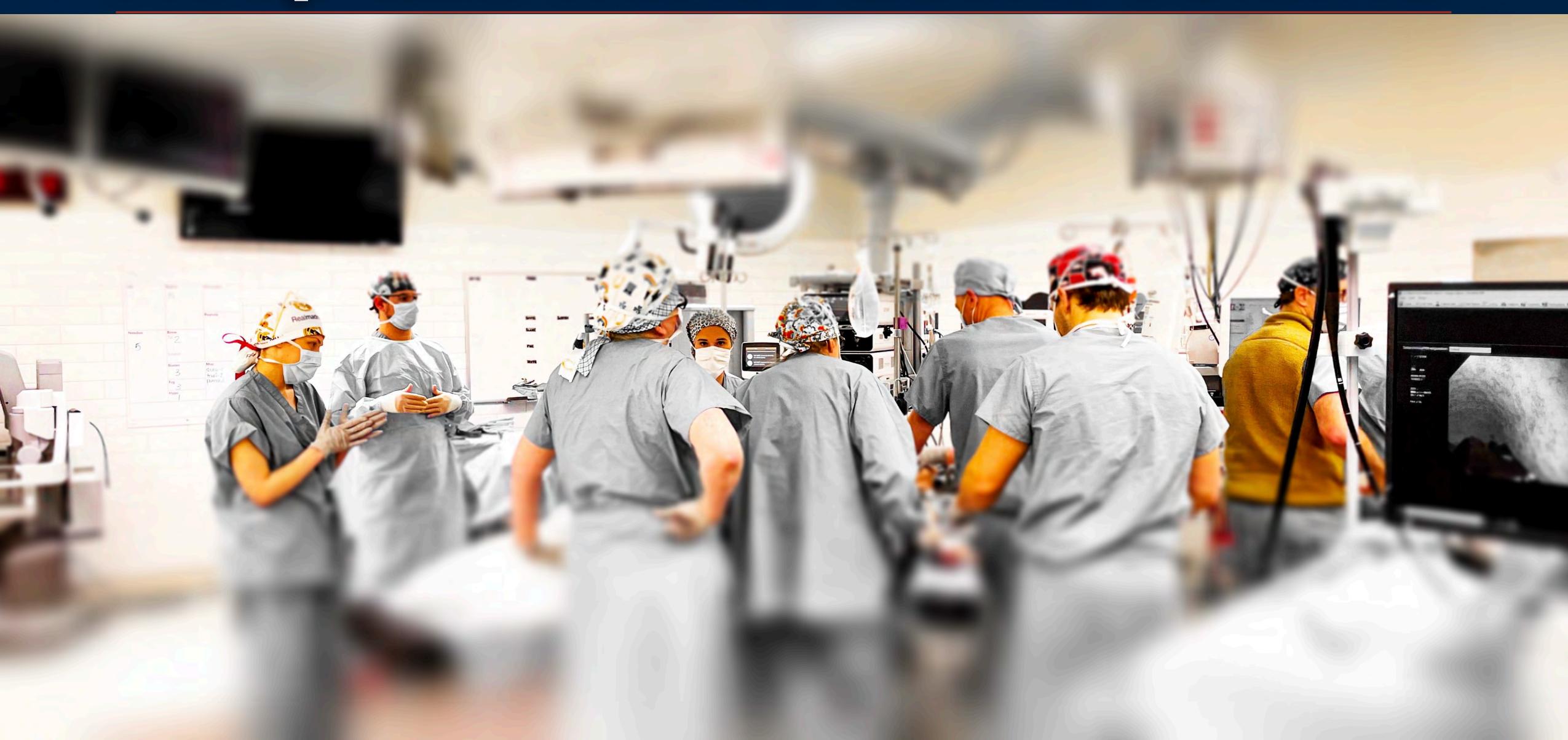
### Diagnostic Endoscopy



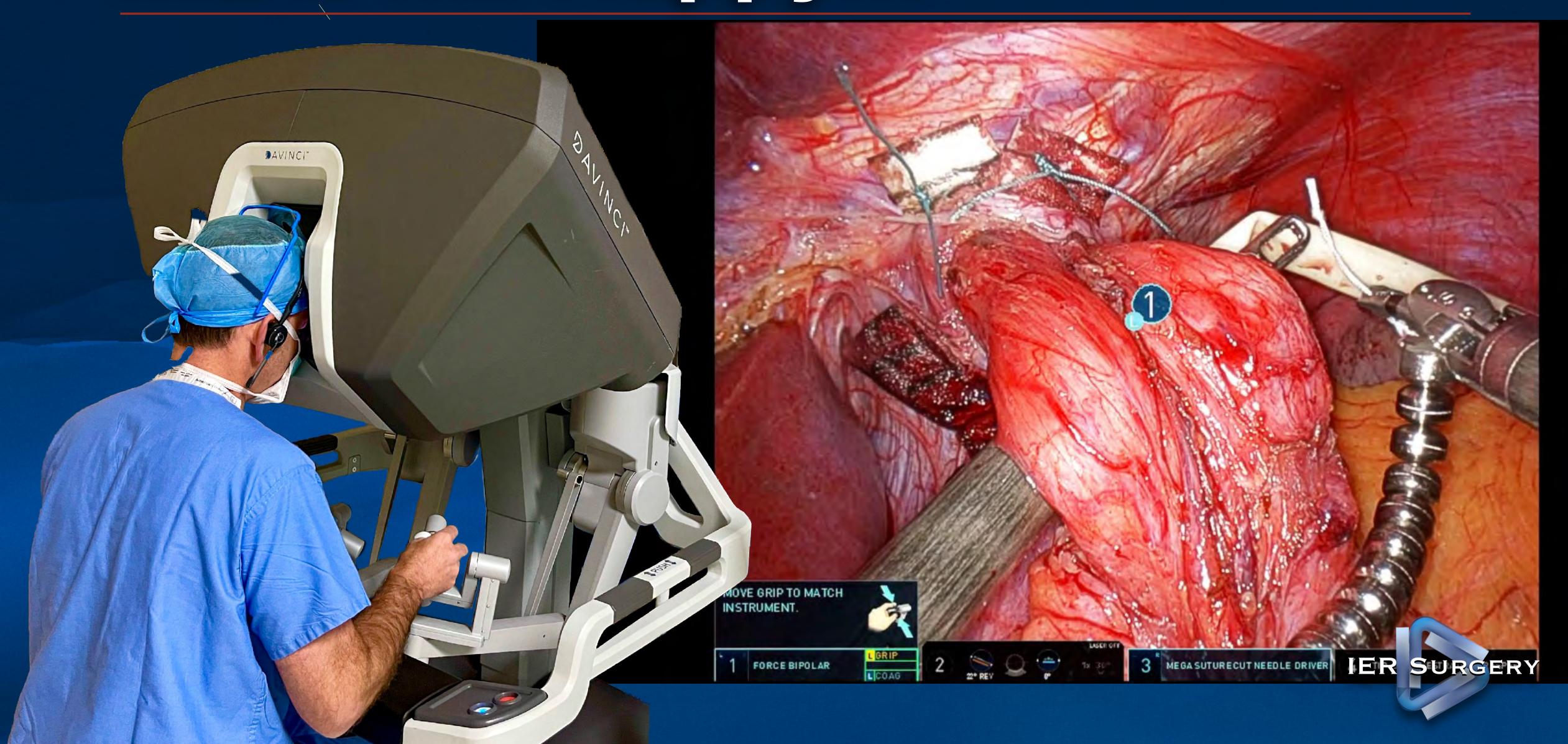
### Early Intervention = Cure



#### Hospitals want Patient Volume



## Make me Happy...



# Surgery Stops GERD



## Let's wrap this up.



#### What do we want?

#### We want a Parade



#### We Gather when we Succeed



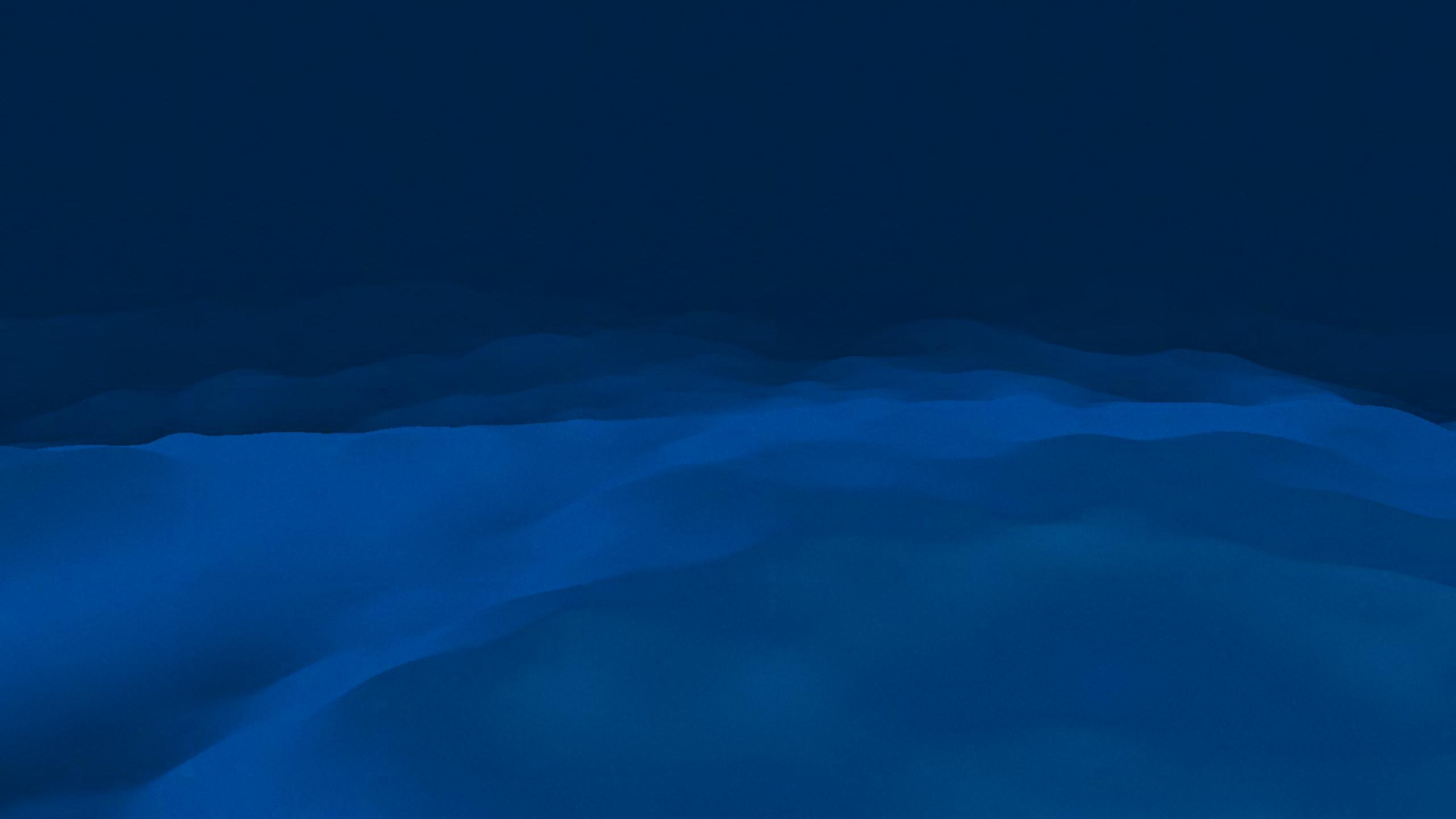
## Esophageal Cancer Kills



ESOPHAGEAL CANCER AWARENESS











## **INVESTOR DAY**

## Realizing EsoGuard's Commercial Opportunity

Shaun O'Neil, MBA
President and Chief Operating Officer

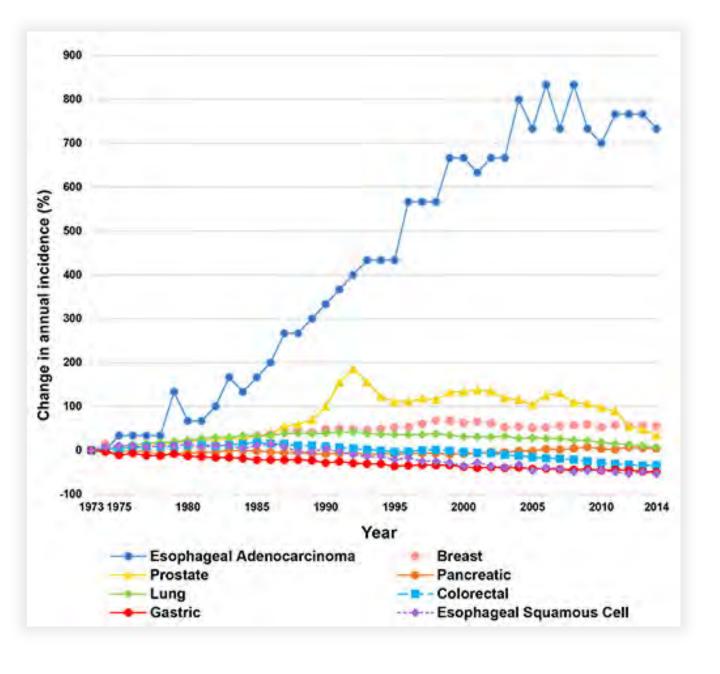
December 13, 2023

Nasdaq: LUCD

# Esophageal Adenocarcinoma (EAC) has increased over 500%

in the past 4 decades

#1 rate of increase of any cancer



**The Opportunity** 







Source: Deloitte Research, DRG, GIE Journal



## Guidelines support screening for Barrett's esophagus, the only known precursor to esophageal cancer



## Diagnosis and Management of Barrett's Esophagus: An Updated ACG Guideline

Nicholas J. Shaheen, MD, MPH<sup>1</sup>, Gary W. Falk, MD, MS<sup>2</sup>, Prasad G. Iyer, MD, MS<sup>3</sup>, Rhonda F. Souza, MD<sup>4</sup>, Rena H. Yadlapati, MD, MHS (GRADE Methodologist)<sup>5</sup>, Bryan G. Sauer, MD, MSc (GRADE Methodologist)<sup>6</sup> and Sachin Wani, MD<sup>7</sup>

Barrett's esophagus (BE) is a common condition associated with chronic gastroesophageal reflux disease. BE is the only known precursor to esophageal adenocarcinoma, a highly lethal cancer with an increasing incidence over the last 5 decades. These revised guidelines implement Grading of Recommendations. Assessment, Development, and Evaluation

These revised guidelines implement Grading of Recommendations, Assessment, Development, and Evaluation methodology to propose recommendations for the definition and diagnosis of BE, screening for BE and esophageal adenocarcinoma, surveillance of patients with known BE, and the medical and endoscopic treatment of BE and its associated early neoplasia. Important changes since the previous iteration of this guideline include a broadening of acceptable screening modalities for BE to include nonendoscopic methods, liberalized intervals for surveillance of short-segment BE, and volume criteria for endoscopic therapy centers for BE. We recommend endoscopic eradication therapy for patients with BE and high-grade dysplasia and those with BE and low-grade dysplasia. We propose structured surveillance intervals for patients with dysplastic BE after successful ablation based on the baseline degree of dysplasia. We could not make recommendations regarding chemoprevention or use of biomarkers in routine practice due to insufficient data.



Figure 3. Nonendoscopic Barrett's esophagus detection devices. (a) Encapsulated and expanded Cytosponge device. (b and c) Encapsulated and expanded EsophaCap device. (d and e) Retracted and inflated Esocheck device.

6. We suggest that a swallowable, nonendoscopic capsule device combined with a biomarker is an acceptable alternative to endoscopy for screening for BE



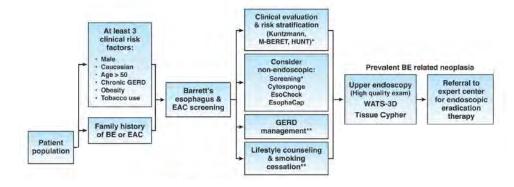
#### AGA Clinical Practice Update on New Technology and Innovation for Surveillance and Screening in Barrett's Esophagus: Expert Review

V. Raman Muthusamy, <sup>1</sup> Sachin Wani, <sup>2</sup> C. Prakash Gyawali, <sup>3</sup> and Srinadh Komanduri, <sup>4</sup> for the CGIT Barrett's Esophagus Consensus Conference Participants

<sup>1</sup>Vatche and Tamar Manoukian Division of Digestive Diseases, University of California, Los Angeles, Los Angeles, California; <sup>2</sup>Division of Gastroenterology and Hepatology, University of Colorado School of Medicine, Denver, Colorado; <sup>3</sup>Division of

#### BEST PRACTICE ADVICE STATEMENTS:

- 1. Screening with standard upper endoscopy may be considered in individuals with at least 3 established risk factors for Barrett's esophagus (BE) and esophageal adenocarcinoma, including individuals who are male, non-Hispanic white, age >50 years, have a history of smoking, chronic gastroesophageal reflux disease, obesity, or a family history of BE or esophageal adenocarcinoma.
- 2. Nonendoscopic cell-collection devices may be considered as an option to screen for BE.





# 2022 American College of Gastroenterology Guidelines Recommends BE Screening in High-Risk Patients with:

#### **Chronic GERD**



5-Year History or Severe Symptoms

#### **3 of 6 Additional Risk Factors**







Age Over 50



White Race



**Central Obesity** 



Family
History of
BE/EAC



**Smoker** 



Source: Deloitte Research, DRG, GIE Journal

## **EsoGuard Commercial Opportunity**

~30 Million

At-Risk Chronic GERD Patients Recommended for Screening X

\$1938

**Medicare Payment** 

~\$60 Billion

Total Addressable US Market

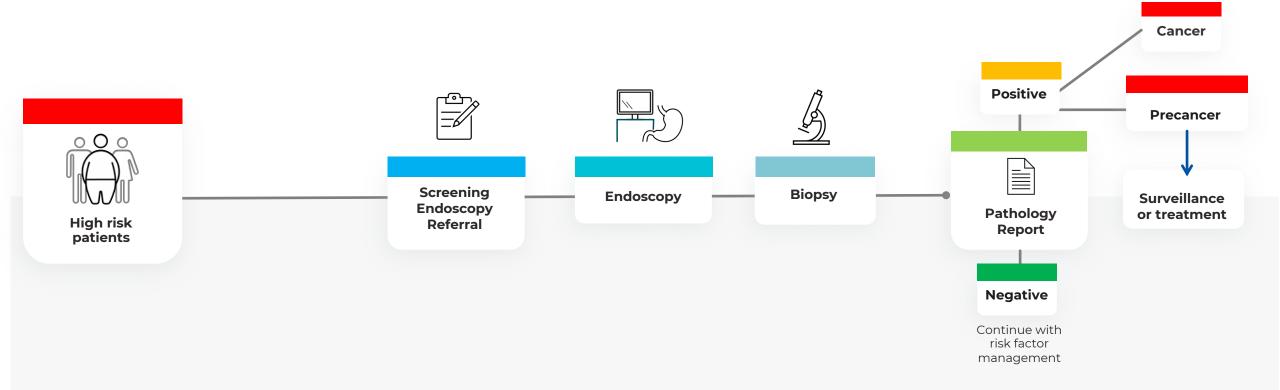
EsoGuard Estimated Gross Margin at Volume

**Over 90%** 

Source: Deloitte Research, DRG, GIE Journal



## Ideal patient journey

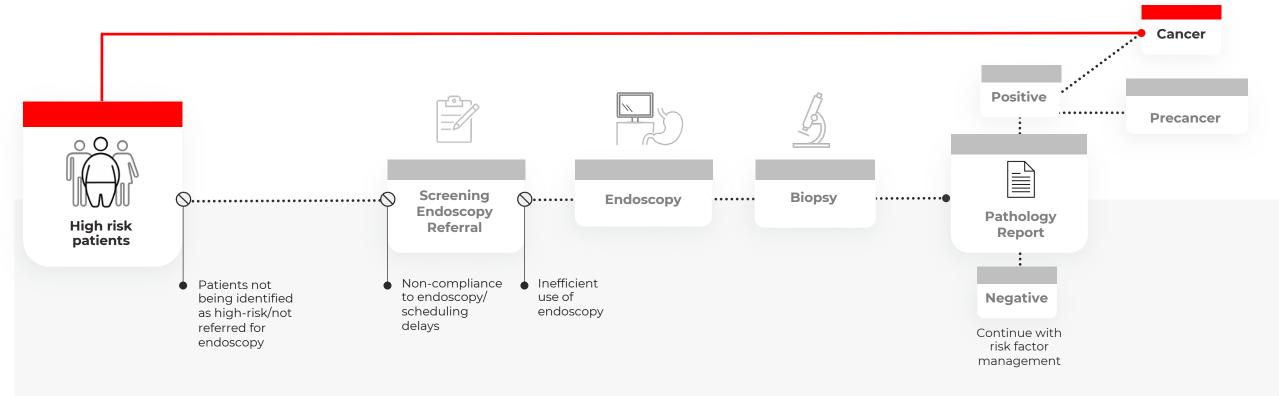


## Current patient journey & gap in care

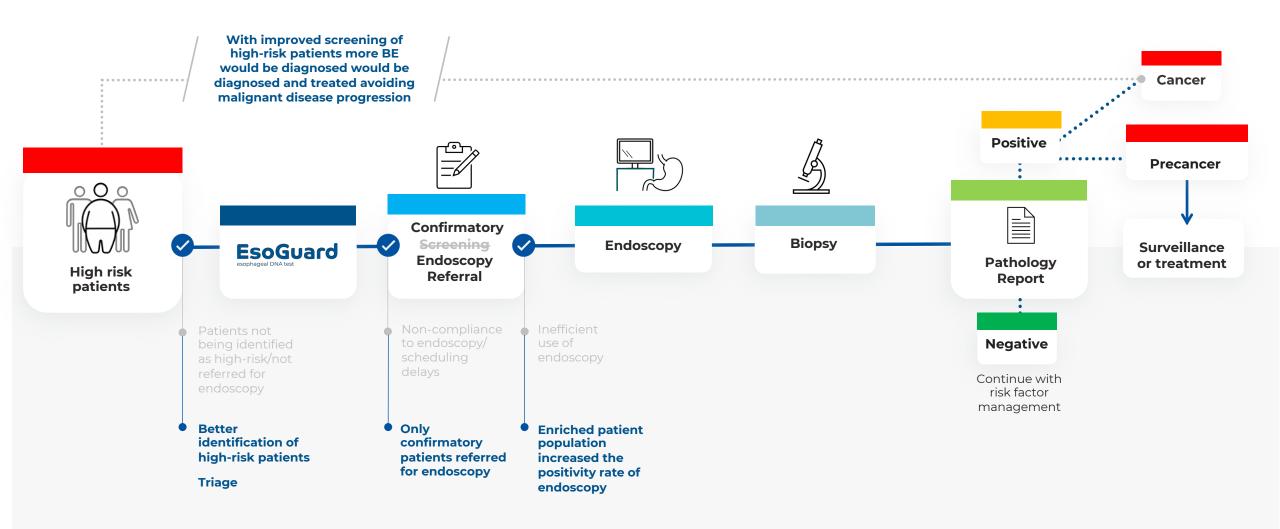


#### **Cancer Diagnosis**

because patients aren't being screened, they are being diagnosed with late-stage cancer

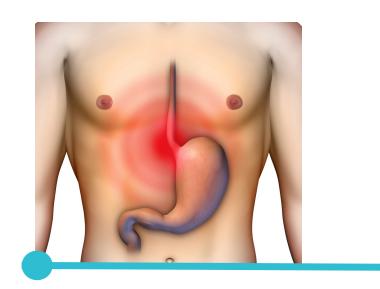


## Patient journey with the EsoGuard solution

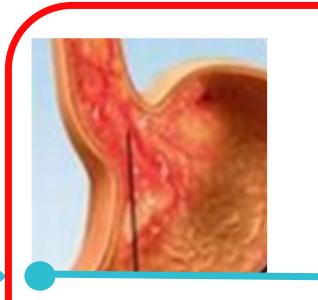


#### **EsoGuard**

## Disease State — GERD / Barrett's Esophagus

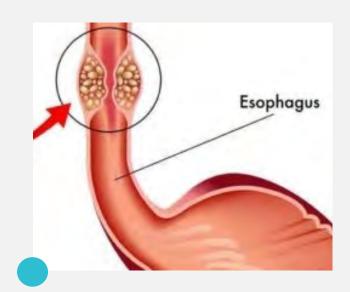


GASTROESOPHAGEAL REFLUX (GERD)



BARRETT'S ESOPHAGUS (BE)

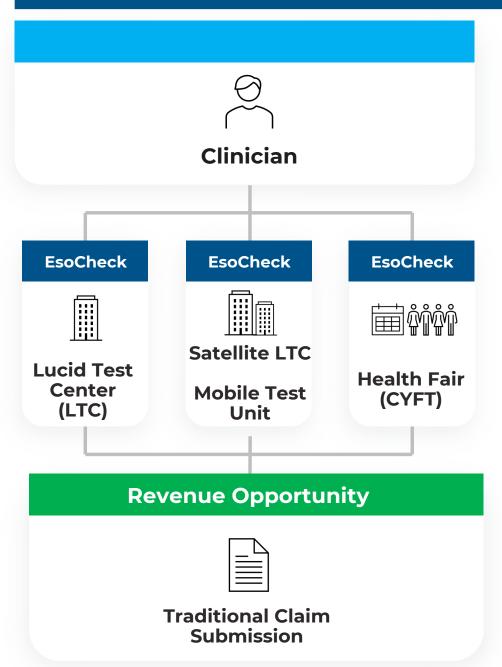
Cancer prevention —
Diagnose and treat BE
before it progresses

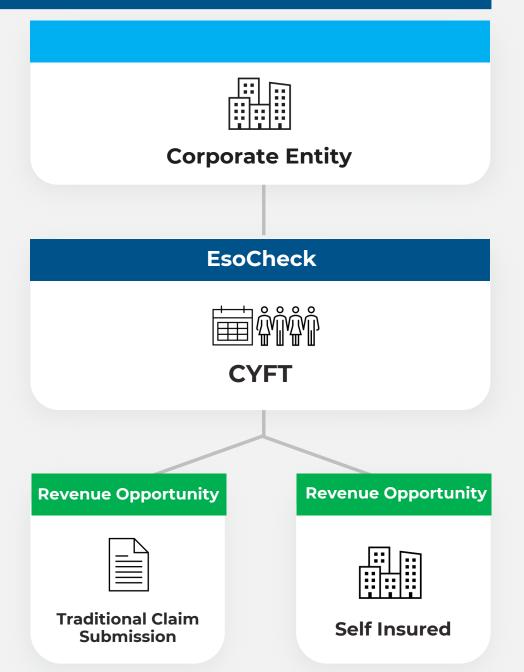


ESOPHAGEAL ADENOCARCINOMA



#### **Patient Acquisition**

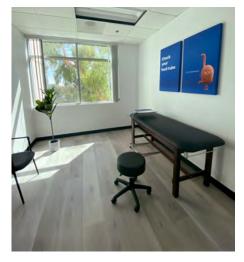






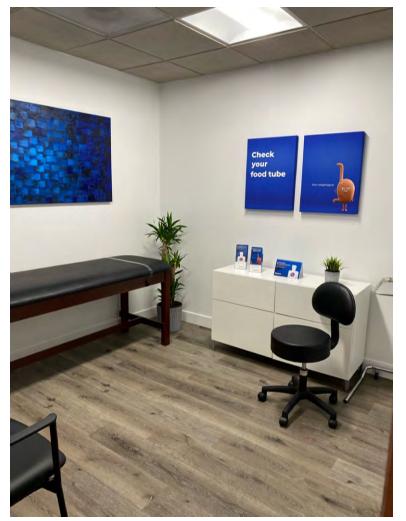
## **LTCs**



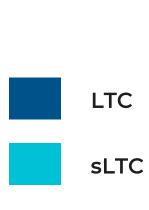








## sLTC





## **EsoGuard Mobile Test Unit**













# Firefighters are at increased risk for esophageal cancer<sup>1</sup>

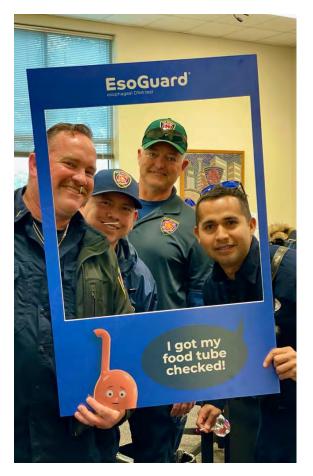
**62% higher risk** of developing esophageal cancer<sup>2</sup>

**39% increased risk** of dying from esophageal cancer<sup>2</sup>





## #CheckYourFoodTube Esophageal Precancer Testing Events



















Won-

**Advocate** 



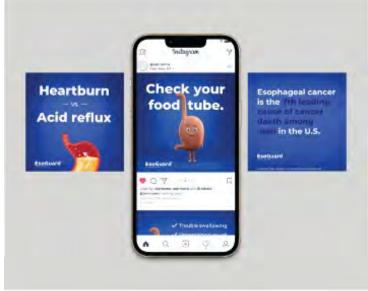










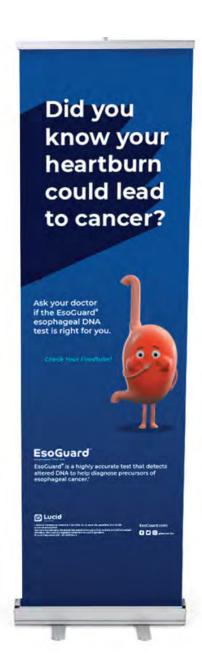


#### **Patient Education**

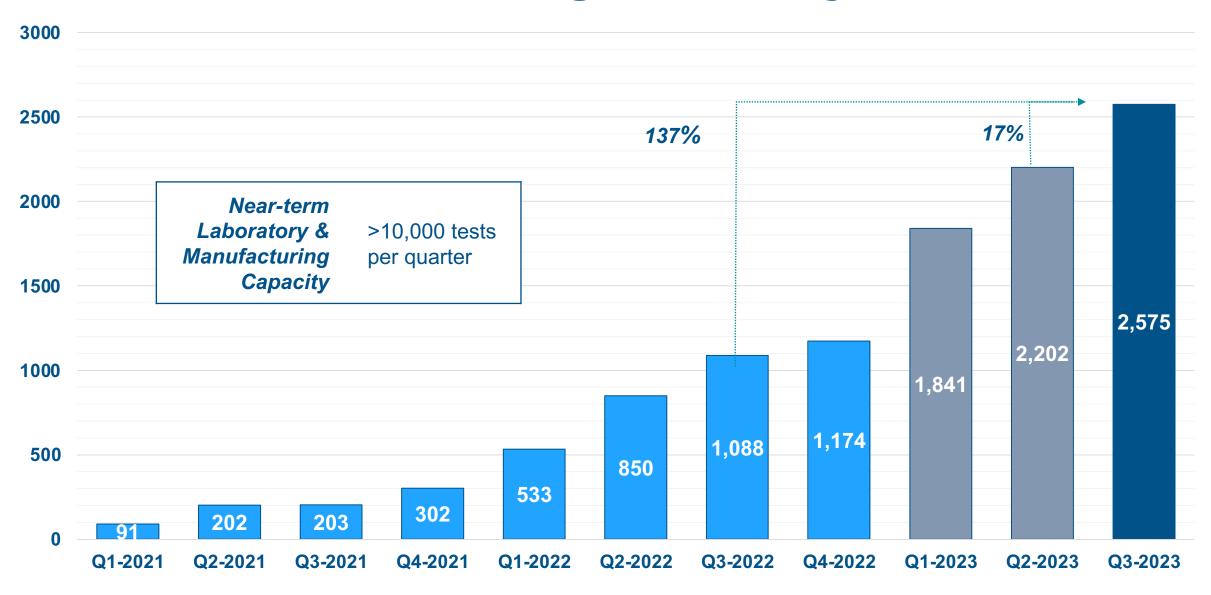








## **EsoGuard Testing Volume by Quarter**





### Path to Revenue

### **Traditional Claims Submission**



Revenue Cycle Management (RCM

Claim Submission Prior Authorization Appeals

#### Payment Coverage Revenue Growth

### **Medical Policy**

Commercial Payor (Pilot Programs) CMS - MolDx

### **Direct Contracting**

- Testing at first contracted employer has begun
- New VP, Employer
   Market with 30+ years
   experience in
   employer benefits
   sales
- Robust active pipeline

### **CMS**







Thank you.





# **INVESTOR DAY**

### **EsoGuard in My Practice**

Seper Dezfoli, MD Gastroenterologist

December 13, 2023

## **BE** is the Precursor Condition to EAC

**EARLY DETECTION** 

TOO LATE

Gastroesophageal Reflux (GERD) Nondysplastic Barrett's Esophagus (NDBE)

Dysplastic Barrett's Esophagus (LGD, HGD) Esophageal Adenocarcinoma (EAC)

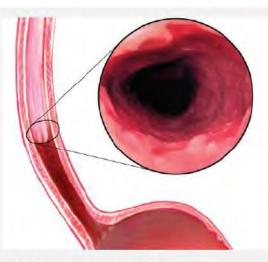
#### **PRECANCER**



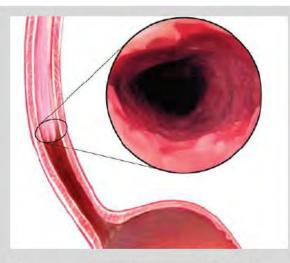


Commonly known as reflux or chronic "heartburn"

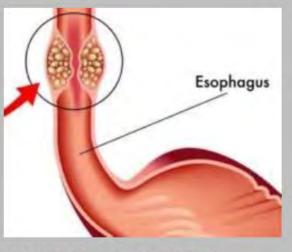
10 to 20 Million patients are deemed "High Risk" 1



Benign metaplastic transformation of lower esophageal lining from repeated exposure to gastric fluid



Pre-cancerous progression from NDBE to low-grade dysplasia (LGD) to high-grade dysplasia (HGD)



Most common esophageal cancer, Intramucosal or Invasive

733% increase over the last 40 yrs<sup>2</sup>

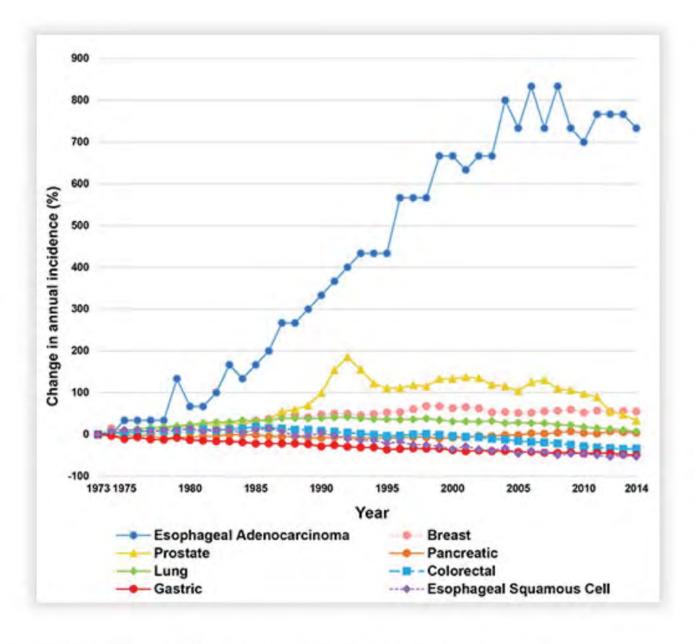
#1 rate of increase of any cancer, Highly lethal ( < 20% 5-yr survival)

<sup>1</sup> Based on ACG Screening Guidelines (Shaheen, 2022) 2(Runge, 2015)

# Esophageal Adenocarcinoma (EAC) has increased over 733%

in the past 4 decades

#1 rate of increase of any cancer



### The Unmet Clinical Need

# Increasing incidence

#### 733% Increase

(EAC) has increased over 733% in the past 4 decades<sup>1</sup>

# Highly lethal cancer

~80% of EAC patients die within 5 years of diagnosis²

**~59 patients diagnosed**with EAC per day<sup>2</sup>

**~44 patients die** of EAC per day<sup>2</sup>

# Low screening rates, even for high-risk patients

#### Less than 10%

of high-risk GERD patients undergo EGD screening<sup>3</sup>

#### **40% EAC patients**

do not have a history of heartburn<sup>4</sup>

Over 90% of EAC patients never knew they had treatable Barrett's Esophagus<sup>5</sup>

#### Preventable

Barrett's Esophagus (BE) is the only known precursor to EAC<sup>6</sup>

When detected early, patients with BE can either undergo surveillance or highly effective treatment<sup>7,8</sup>

Thuy-Van P. Hang, MD; Zachary Spiritos, MD, MPH; Anthony Gamboa, MD; Zhengjia Chen, PhD; Seth Force, MD; Steve Keilin, MD; Nabil Saba, MD; Bassel El-Rayes, MD; Qiang Cai, MD, PhD; Field Willingham, MD, MPH. THE EPIDEMIOLOGY OF ESOPHAGEAL ADENOCARCINOMA IN THE UNITED STATES. Program No. P0265. ACG 2018 Annual Scientific Meeting Abstracts. Philadelphia, Pennsylvania: American College of Gastroenterology

https://seer.cancer.gov/explorer/

Deloitte Analysis, on file Lucid Dx

Mikolašević, I., Bokun, T., & Filipec Kanižaj, T. (2018). Gastroesophageal reflux disease, Barrett esophagus, and esophageal adenocarcinoma - where do we stand?. Croatian medical journal, 59(3), 97–99. https://doi.org/10.3325/cmi.2018.59.97

Gut 2015 Jan;64(1):20-5. doi: 10.1136/gutjnl-2013-305506. Epub 2014 Apr 3.

<sup>6.</sup> Shaheen, N.J., et al., Diagnosis and Management of Barrett's Esophagus: An Updated ACG Guideline. Am J Gastroenterol, 2022. 117(4): p. 559-587.

Shaheen, N.J., et al., Durability of radiofrequency ablation in Barrett's esophagus with dysplasia. Gastroenterology, 2011. 141(2): p. 460-8.

<sup>8.</sup> Qumseya, B., et al., ASGE guideline on screening and surveillance of Barrett's esophagus. Gastrointest Endosc, 2019. 90(3): p. 335-359.e2.

### Similar to current in-office cancer screening

Quick, in-office cell collection (without sedation)

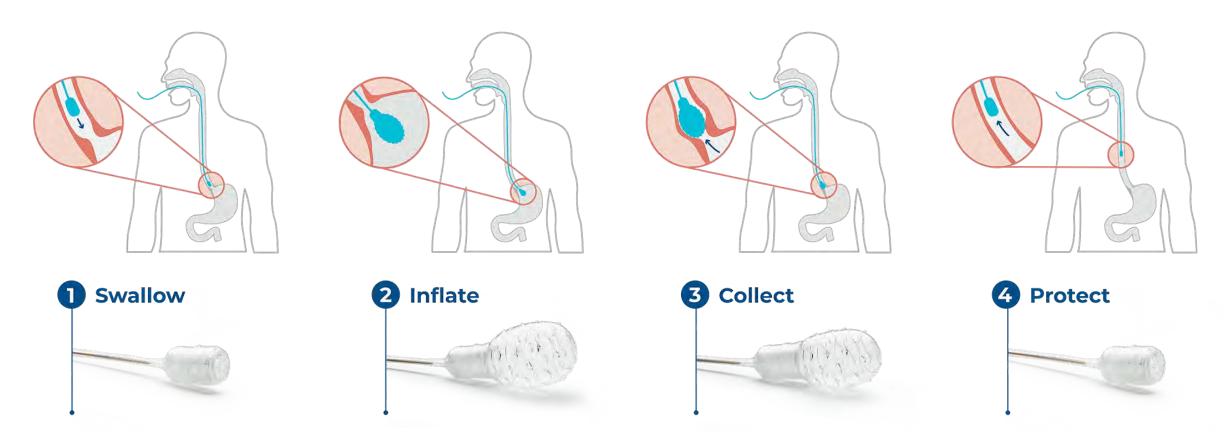
Highly accurate test

Binary, easy to interpret result– Positives referred to a specialist

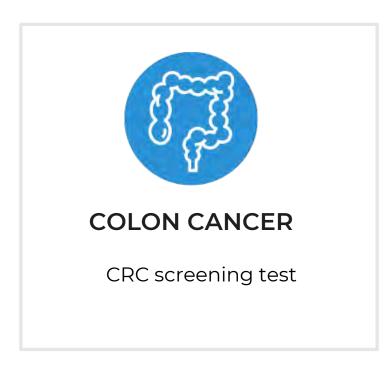
5(1)/8	
Cervical Cancer	کی) Esophageal Cancer
Pap Test	<b>EsoGuard</b> esophageal DNA test
YES	YES

# A non-invasive five-minute office-based procedure to collect cells from the esophagus





### **Paradigm Shift in Gastroenterology**





# Partnering with Lucid Diagnostics



disease state and EsoGuard



### PATIENT — 47-year-old man

Came in for a routine colonoscopy, inquired about his 'occasional reflux'

#### **Risk Factors**

- Chronic GERD
- Male sex
- Age > 50 years
- **White race**
- **⊘** Tobacco smoking
- Obesity
- **⊘** Family History

#### **Positive EsoGuard**

#### **Endoscopy ordered:**

Short segment Barrett's esophagus (precancer) visualized, *Biopsies confirmed*.

#### Two other incidental findings:

- H. pylori (a Class I carcinogen that causes stomach cancer)
- Small tumor within the wall of his stomach

#### **IMPACT:**

Without EsoGuard this patient would have been left with silent undiagnosed disease. Had he not had the EsoGuard in the first place, he would have never found out about the other two, very serious, conditions.





# INVESTOR DAY

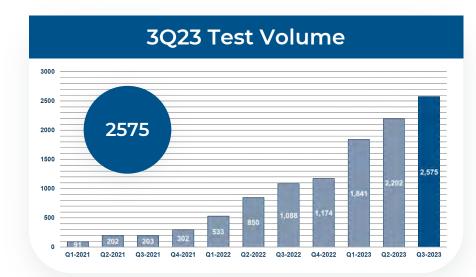
# **Pathway to Profitability**

An Illustrative Example

Dennis McGrath
Chief Financial Officer

December 13, 2023

### Q3 2023 - Inside the Numbers



3Q23 Revenue \$783k

EsoGuard ASP \$2.499 **Medicare Discount** (\$561) Medicare Rate \$1,938

#### **30 Test Volume** 2,575

Pendina Reimbursement Decision (30%)\* -773

**Submitted Claims** Adjudicated 1.803

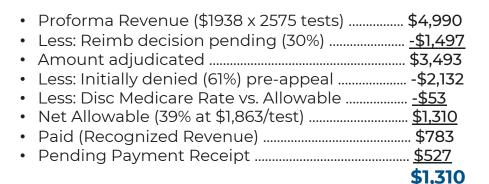
Initially Denied (61%)\* -1,100

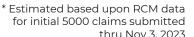
Resulting in 703 Allowable Amt\* (39%)

**Net Allowable** Payment at ~\$1,863 per test

\$1,310,000



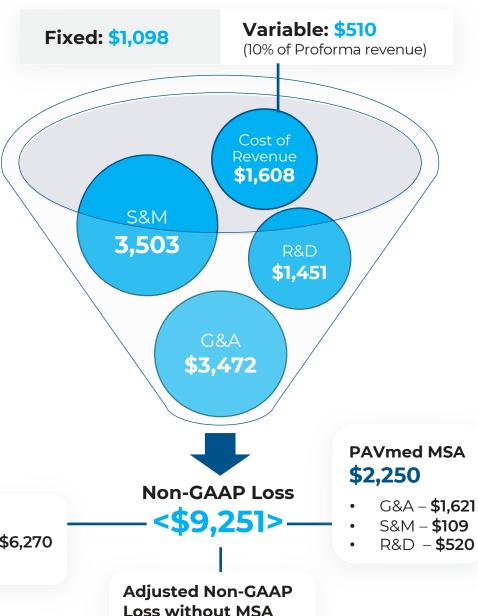




#### **3Q23 Cash Burn Rate:**

- Direct Operations \$6,270
- MSA **\$2,250**

### **3Q23 Non-GAAP OPEX**



\$7.001

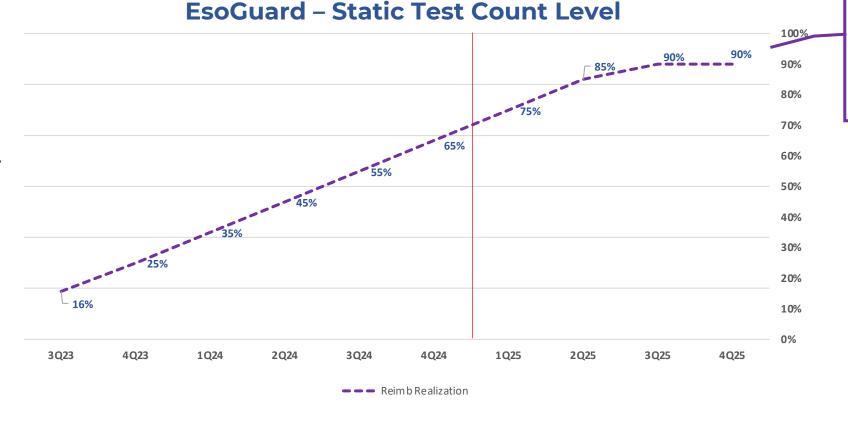
thru Nov 3, 2023



### **Static Model**

#### **Assumptions:**

- I. Test Count Flat
- Prorata Reimb Improvement over 8 quarters
- 3. OPEX Flat
- 4. MSA paid in stock

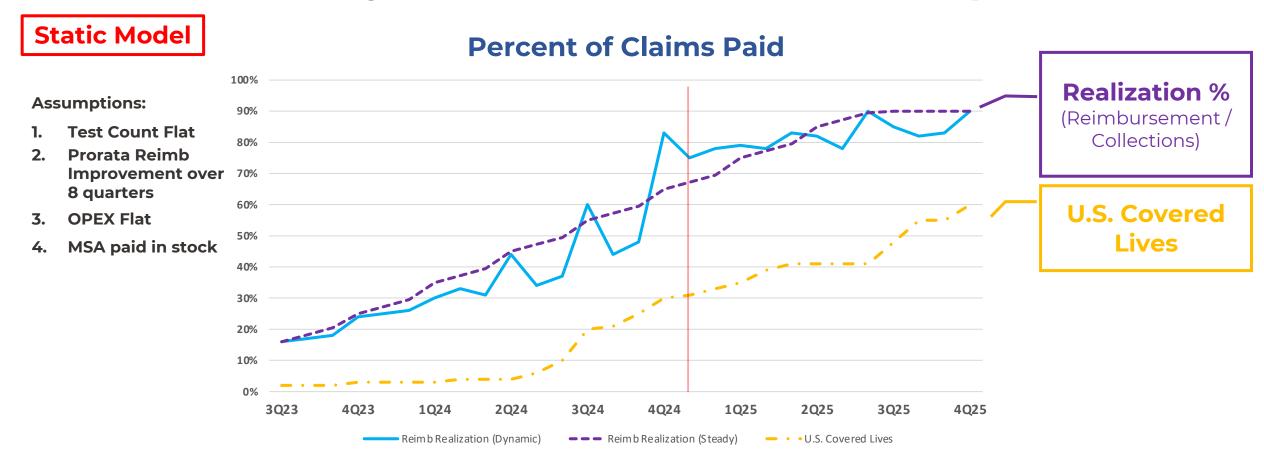


### **Reimbursement Assumption:**

3Q23 Claims Paid (Realization %) was approx. 16% ~ Collection Goal set to 90% by end of 2025.

Realization % (Reimbursement /

Collections)



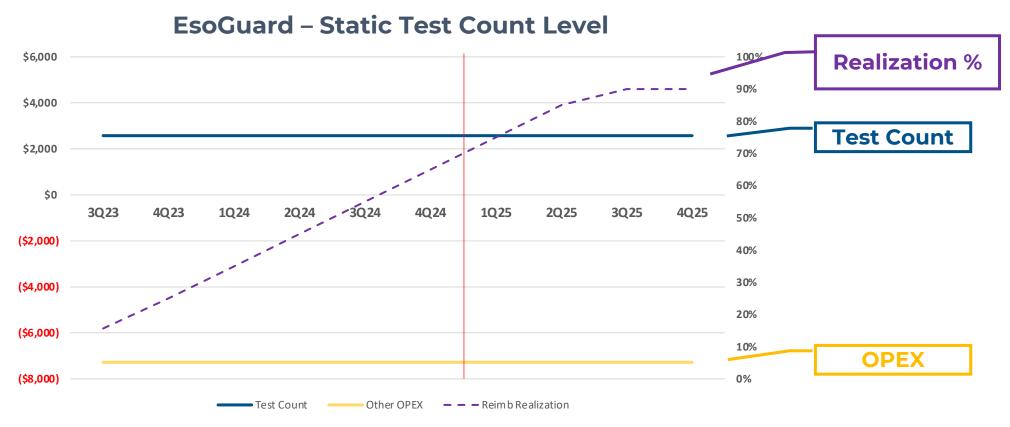
### **Key Takeaway:**

Reimbursement timing (Cash Collection & Medical Policy) is not fully predictable. However, Clinical Data + Claims History + Appeals Persistence favors steady progress.

### **Static Model**

#### **Assumptions:**

- 1. Test Count Flat
- 2. Prorata Reimb Improvement over 8 quarters
- 3. OPEX Flat
- 4. MSA paid in stock

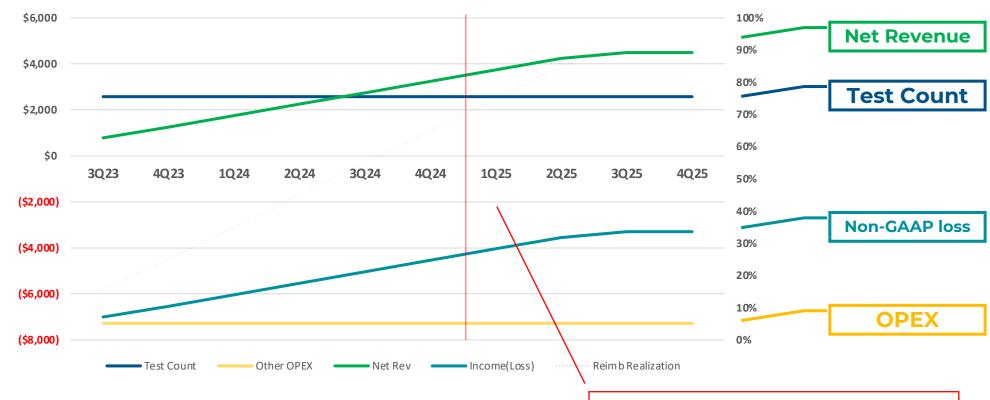


### **Static Model**

#### **Assumptions:**

- 1. Test Count Flat
- 2. Prorata ReimbImprovement over8 quarters
- 3. OPEX Flat
- 4. MSA paid in stock

#### **EsoGuard – Static Test Count Level**



Reimbursement progress alone can cut burn rate by 42% without any change in the current quarterly test volume (2575).

### **Key Takeaway:**

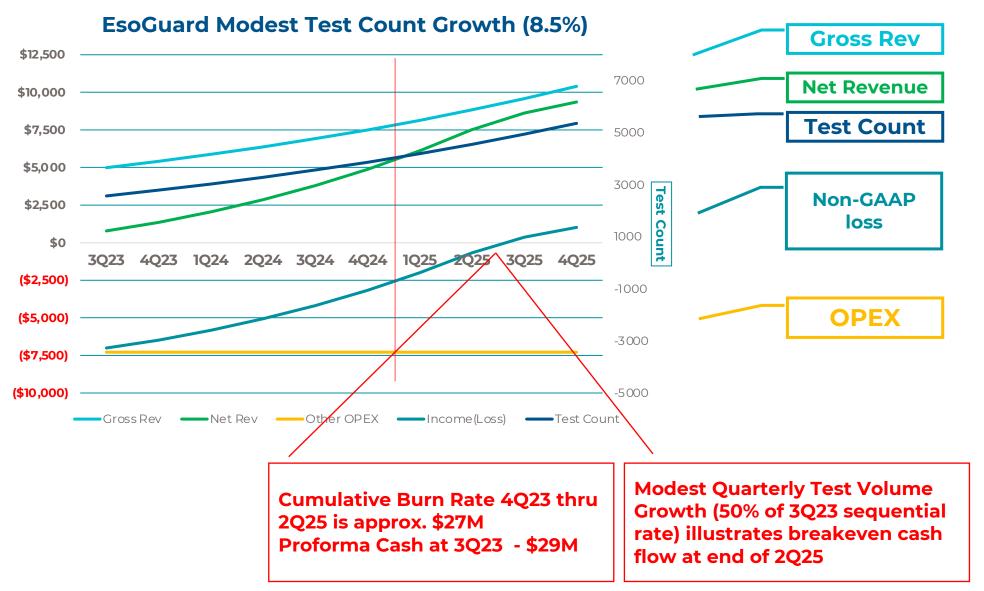
High Margin + Modest Reimbursement favors speed to cash flow breakeven.



#### **Conservative Growth**

#### **Assumptions:**

- Modest Test Growth (50% of 3Q23 rate)
- 2. Prorata Reimb
- 3. OPEX Flat
- 4. MSA paid in stock

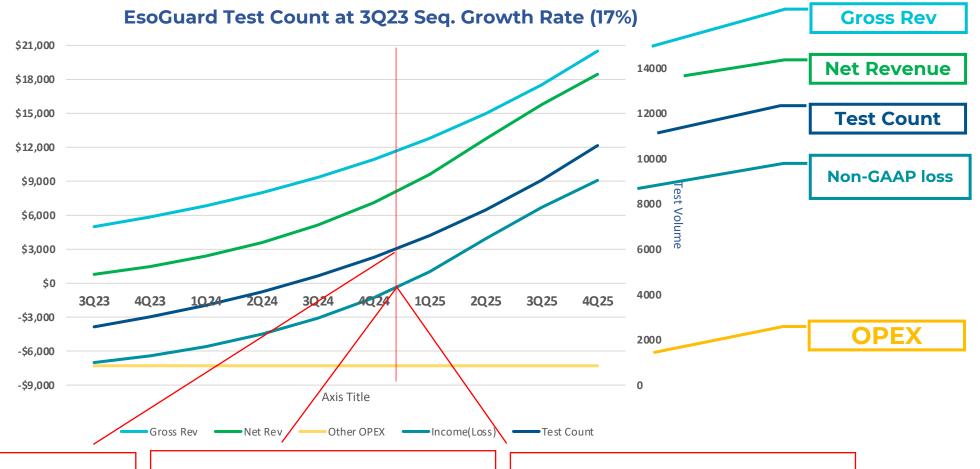




#### **Steady Growth**

#### **Assumptions:**

- 1. Steady Test Growth (3Q23 rate = 17%)
- 2. Prorata Reimb
- 3. OPEX Flat
- 4. MSA paid in stock



Test Volume ~ 6,000

Realization/Collection rate ~65%

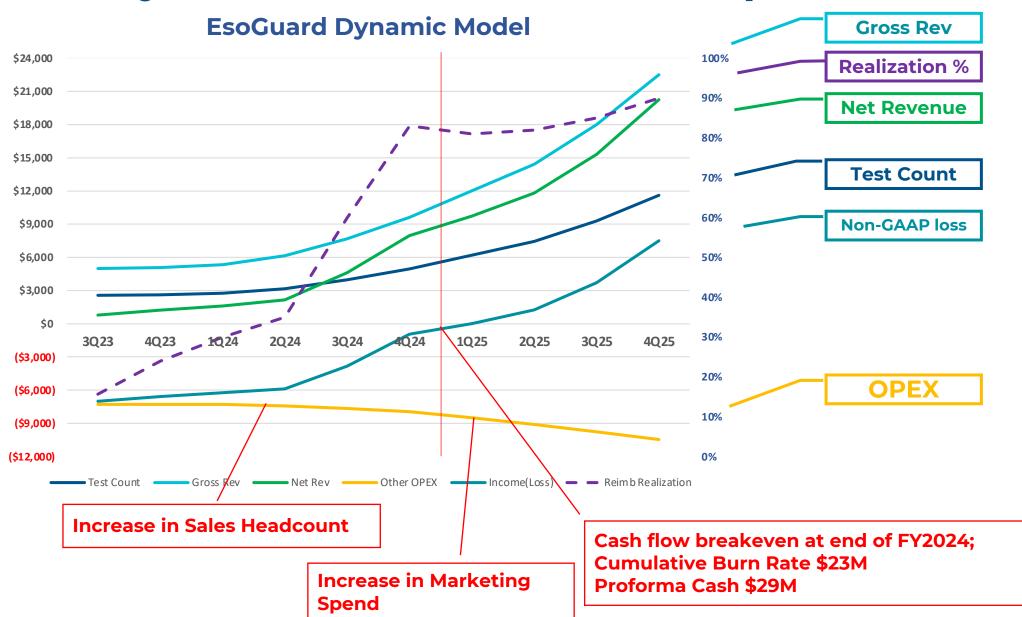
Cumulative Burn Rate 4Q23 thru 4Q24 is approx. \$21M Proforma Cash at 3Q23 - \$29M Quarterly Test Volume Growth continues at 3Q23 sequential rate; illustrates breakeven cash flow at end of FY2024



# Dynamic Model

#### **Assumptions:**

- Investment in S&M in response to Reimb changes
- 2. MSA paid in stock



# Thank you.

