Endo Staff Under Pressure

Understanding Colonoscopy-Related Ergonomic Hazards

Hello, I'm Dr. Marybeth Spanarkel



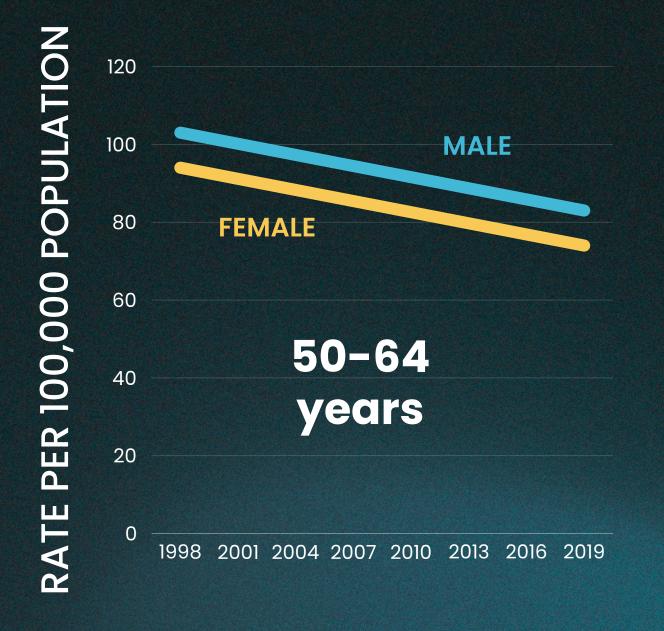
- Duke Medical School, University of Pennsylvania
- John Hopkins & NIH Training
- 25 years Clinical GI in Durham, NC
- Performed over 20,000 colonscopies
- Disclosures / COIs:
 - Co-Founder, Senior Medical Advisor,
 ColoWrap

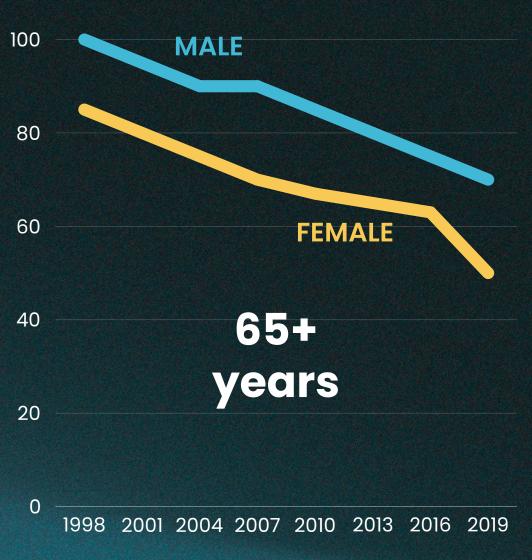
Today, let's discuss:

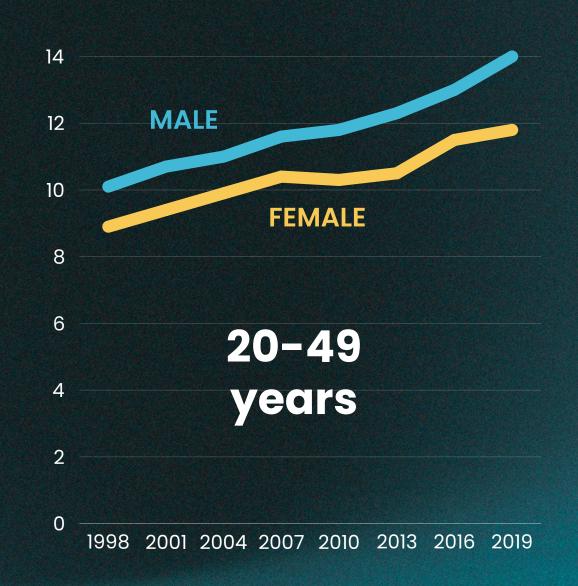
- 1. Importance of Colonoscopy
- 2. Manual Pressure & Repositioning
- 3. Hazards for Endoscopy Staff & Patients
- 4. Potential Solutions

Colonoscopy is here to stay.

Trends in Colorectal Cancer Incidence 1998-2019

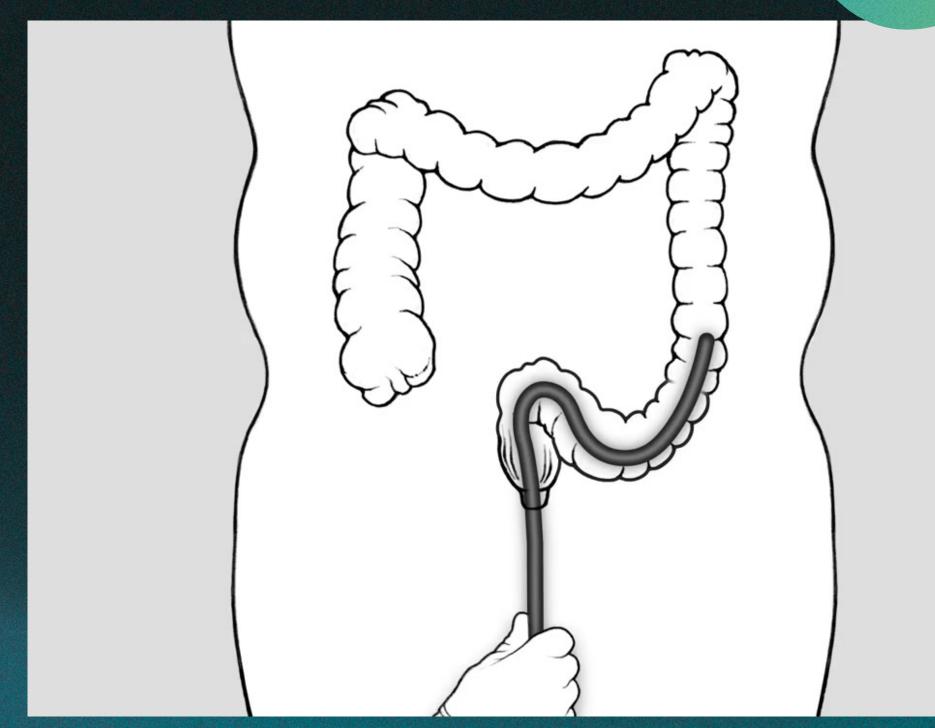






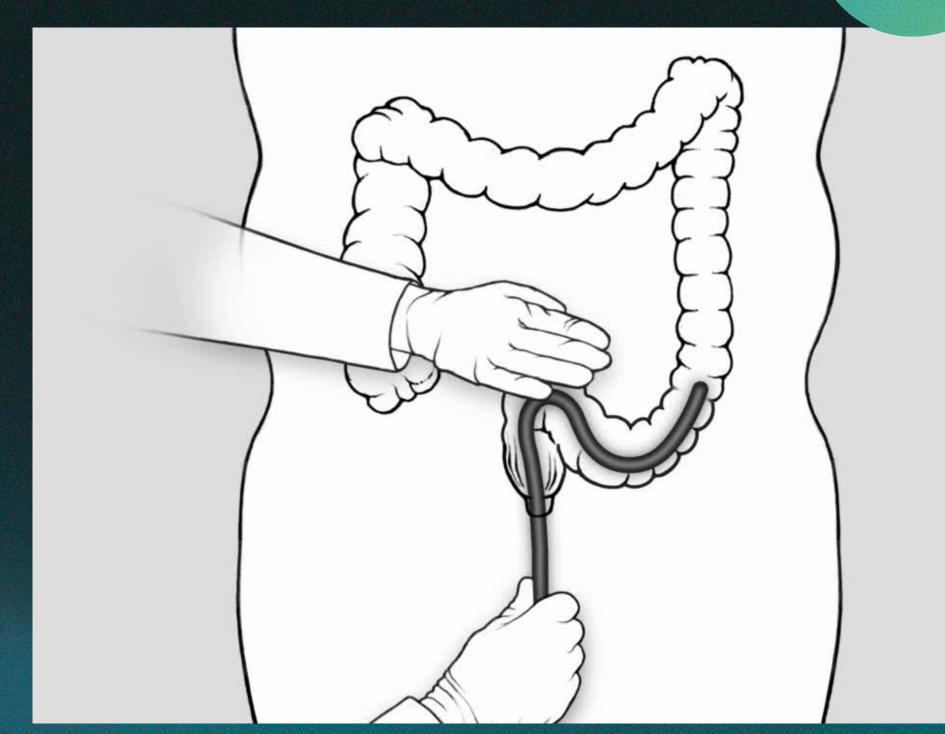
A Challenging Technical

Procedure



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Procedure

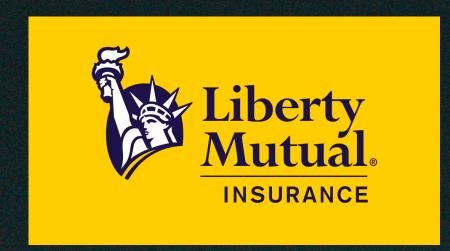


Status Quo: Make Endo nurses and techs deliver pressure

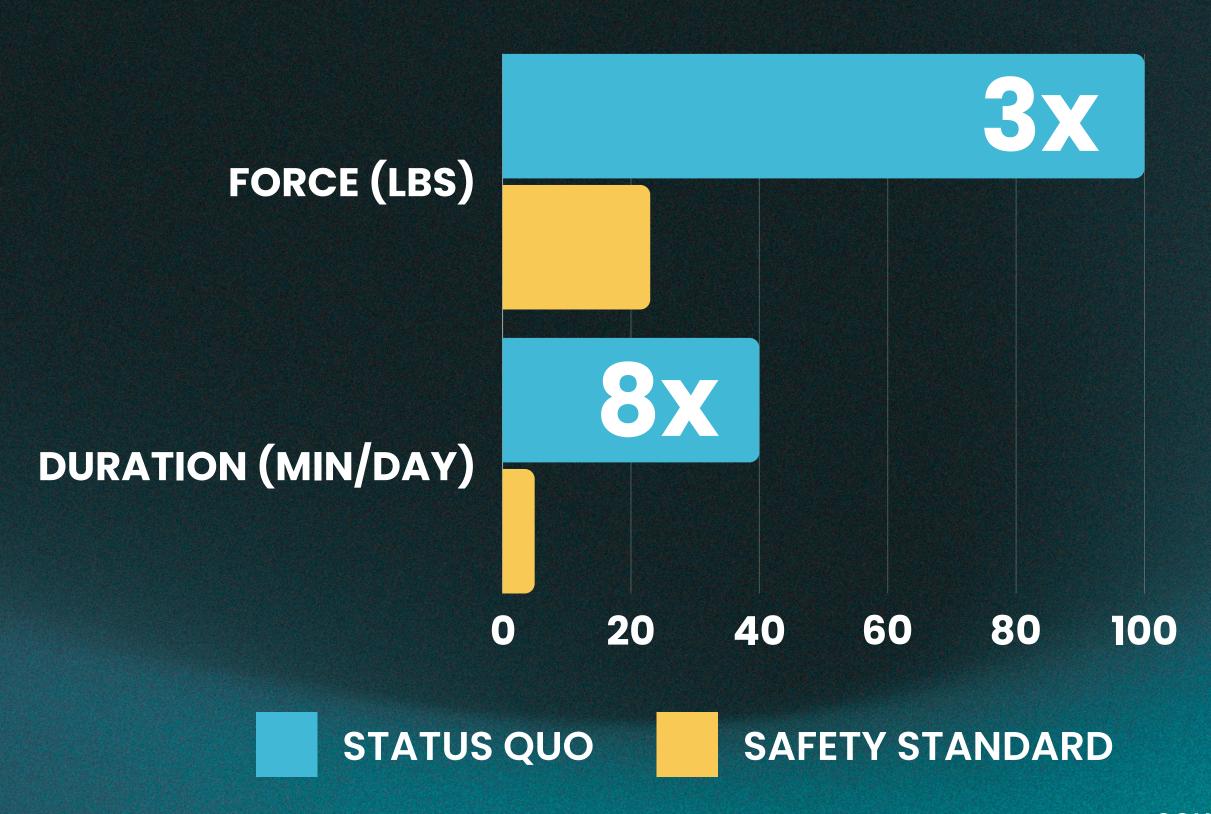




Extreme force and duration







4 minutes = 1/2 mile!



High Rates of MSDs in Endo Staff

of Endo staff report MSD from pressure 28% missed work

460/ used analgesics

TAO/ had surgery

Patient Risk Exists

2506 observed patient complication from manual pressure

- bruising
- post procedure pain
- [rare] splenic injury, mesenteric tear

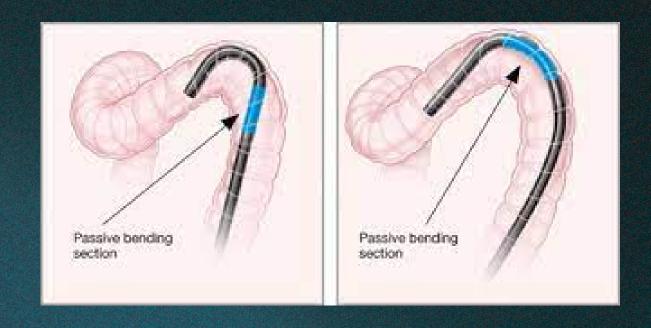
There has to be a better way to support colonoscopy...

1. Stop doing manual pressure?

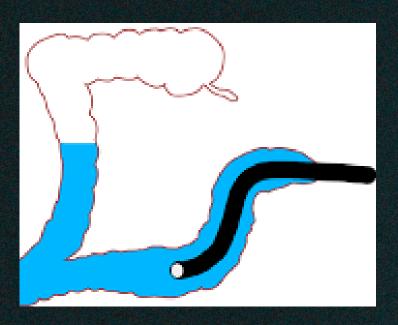
- 2. Apply manual pressure more safely?
- 3. Find an alternative?

Stop doing manual pressure?

Multiple attempts to solve the challenge of getting to cecum







None address the anatomical basis of looping

Apply manual pressure more safely?

Yes, Ais better than B



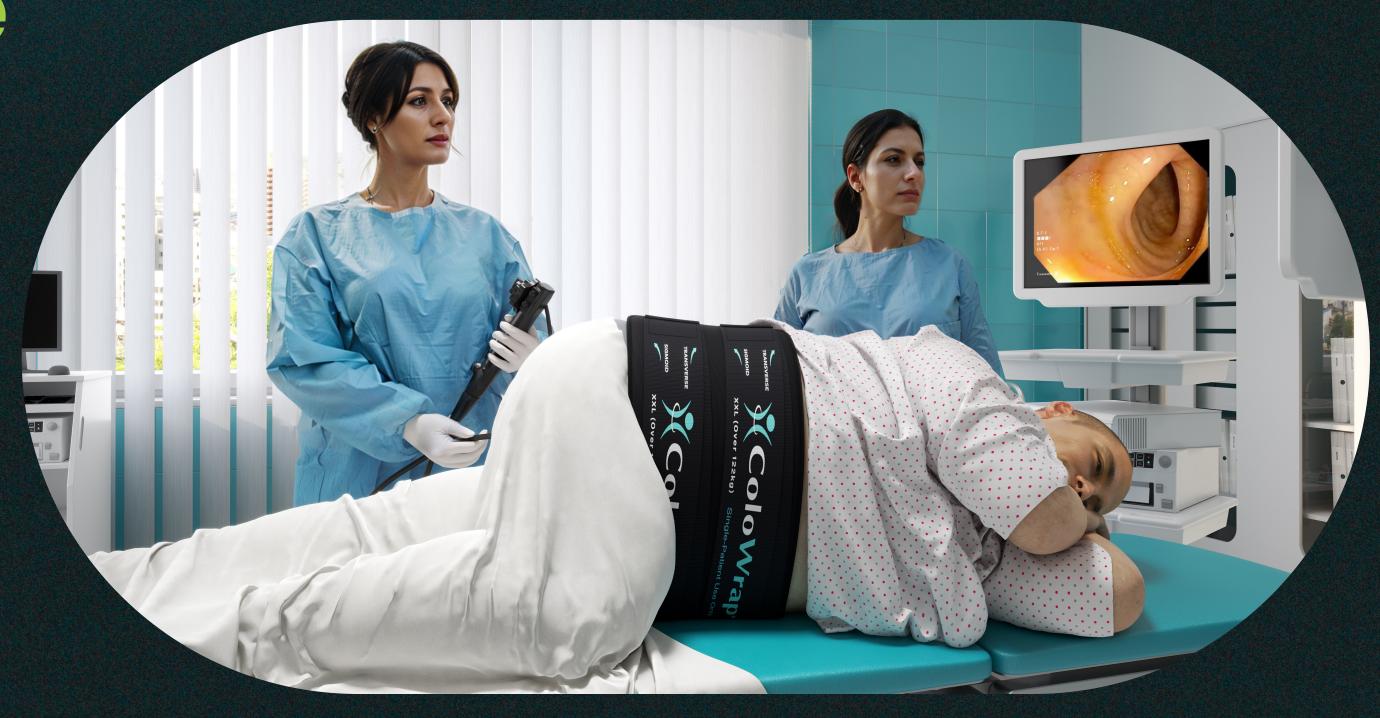


But how much? For how long?

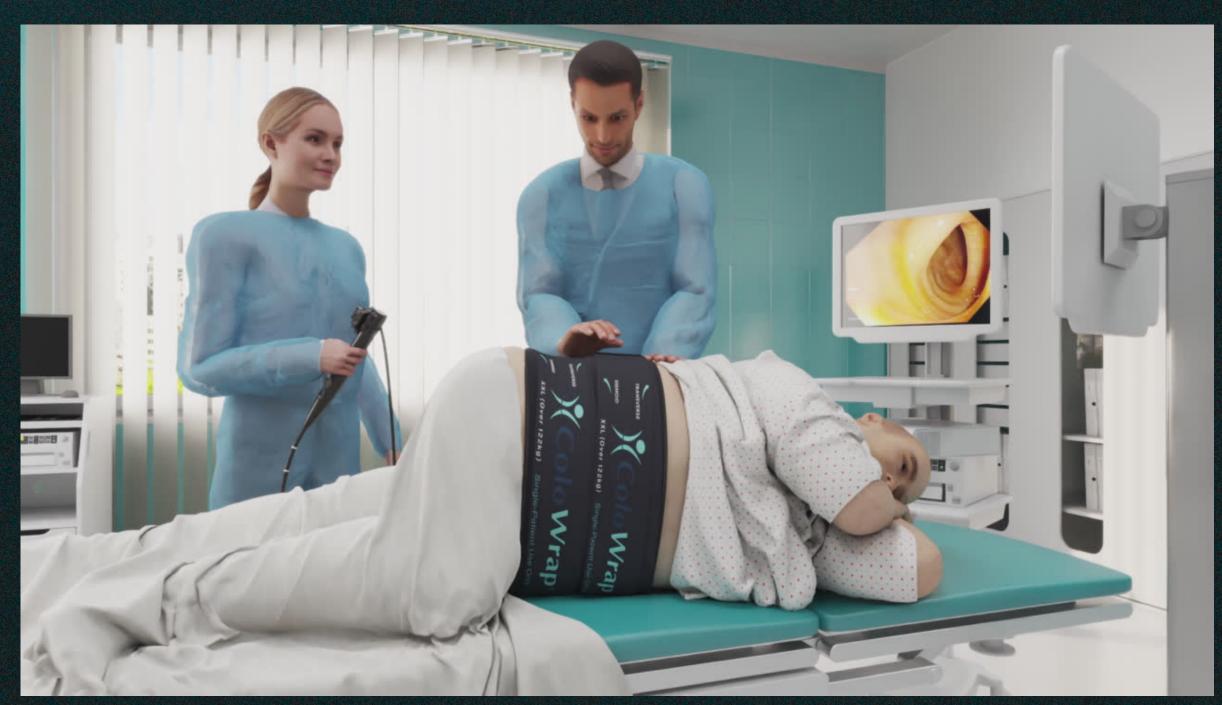
Find an alternative?

Colonoscopy Compression

Device



Colonoscopy Compression Device



Keep the Pressure, Lose the Pain

reduction in need for manual pressure

85%

reduction in staff-reported MSK pain

Clinical benefits for patients:

- Faster insertion time; less sedation
- Better polyp and adenoma detection

Let's review

- 1. Stop doing manual pressure?
- 2. Apply manual pressure more safely?
- 3. Find an alternative?

\$105,000

Average cost of one staff injury

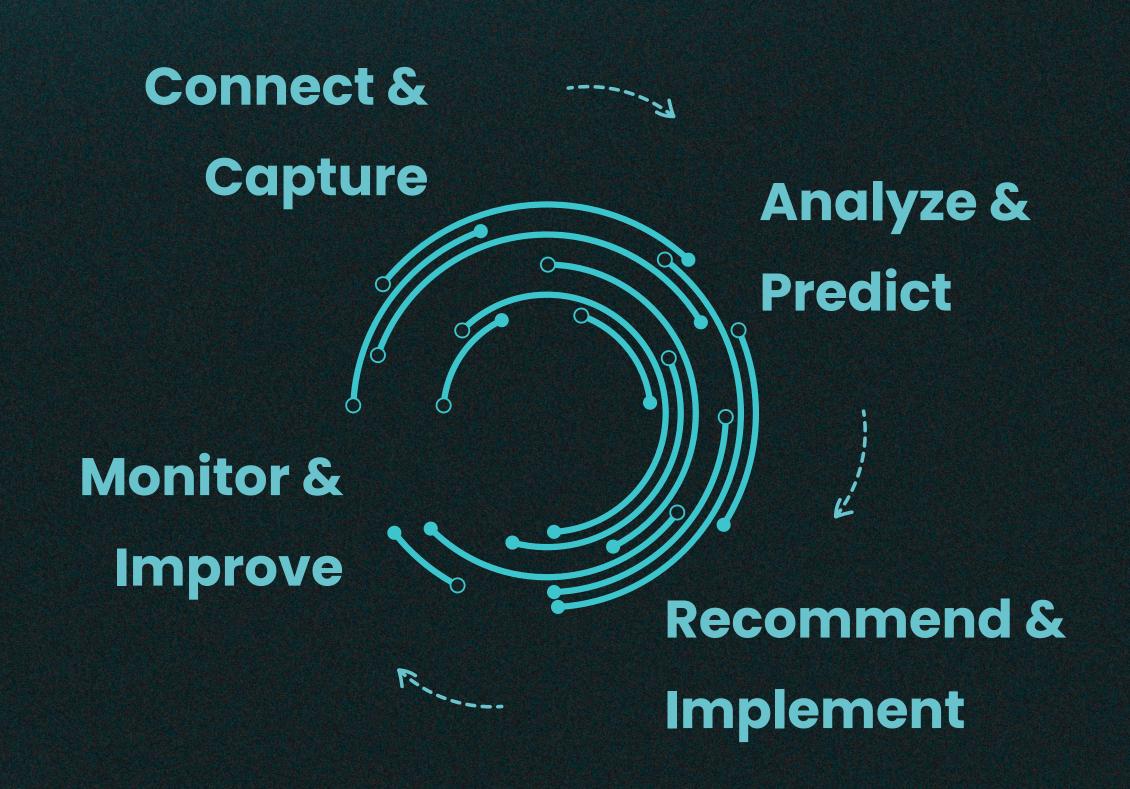
Up to 12%

Nurses leave profession annually MSK/Injury – Top 4 reasons

\$64,500

Direct cost of replacing one nurse

A 360° Process for High-Precision



The way we do colonoscopy today places unsustainable burden on Endoscopy staff

Take the initiative and examine the risks within your unit

Questions?