

#### Faculty/Presenter Disclosure

**Presenter: Robert Bailey** 

Relationships that may introduce potential bias and/or conflict of interest:

- **Grants/Research Support:** Intercept Pharma, Tobira Therapeutic, Abbvie, Inventiva
- Advisory Board Member: Gilead, Abbvie, Takeda, Merck, Janssen

#### Colonoscopy is here to stay!

- Colon Cancer is the second most likely cause of cancer related death
- Colonoscopy screening has contributed to declining mortality rate by as much as 53% in the USA
- The Colorectal screening rate among people 50 to 74 years of age in North America is only 55 to 58%
- There are more colonoscopies to be done

American Journal of gastroenterology 2018

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#### So .....

Your patient has been referred for a colonoscopy And you want to do a good job.

Here comes a few thoughts to consider

Be certain your patients wants you to a good job but also be certain they are anxious at times very anxious

#### **Your Anxious Patient**

- 50% of patients have pre-colonoscopy anxiety moderate to severe
- Why? They are concerned about

**The preparation -** Heard its terrible **The test -**

Embarrassment, Pain, Complications, Sedation

**The diagnosis** – Fear of cancer

American Journal of gastroenterology 20 18

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# Official Anxieties Plus... "the day of" anxiety

- It was difficult to find parking
- Parking was expensive
- I'm going to be late
- The test has been delayed I am now late
- Nurse reminded me I should not drive the kids to school tomorrow
- I know parts of me will be exposed during this test
- Then the doctor he told me it would be possible to perforate my colon,.... and I might have to go to the operating room to fix it... but,... I better have it done.

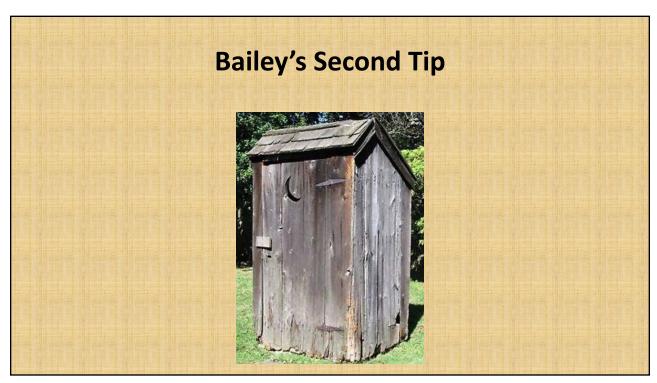
#### Bailey's Today Tip # 1

# TALK TO THE PATIENT, DEVELOP A RELATIONSHIP IDENTIFY THE CONCERNS TALK ABOUT THEM

- Before the prep give good information
- In the room remember the worries and address them.... embarrassment, pain, the procedure, the rarity but importance of finding cancer

Take time to ask a few personal questions to show the patient you too are human and understand the concerns and that you are more than open to talk.

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#### **Alberta Colon Preparation**

Your doctor will recommend a medicine for you to use to prepare for your colonoscopy, most likely be a prescription laxative tablet and/or a laxative powder that you will mix with 4 L (1.1 gal) of water.

Drink this solution over 1 to 2 hours before the test.

This solution may make you feel sick to your stomach.

MyHealth.Alberta.ca

Health Information and Tools > Colonoscopy

Editied by RJB

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#### **The Preparation**

The American Society of Gastrointestinal Endoscopy recommends bowel preparations be individualized for each patient based on efficacy, cause, safety, and tolerability

Maybe every cathartic works

Gastrointestinal Endoscopy 2015

#### Bailey Tip #2-Use the Bailey Prep-Its effective and much easier

#### Clear fluids the day of prep

- Milk magnesia 30 mls per hour x 3
- 500 mls any clear fluids every hour x 3
   (Soup, Tea, Ginger ale, coffee, Gin and tonic)
- Ducolax 10mgs po once every 3rd hour

Do the above 3 times

The timing depends on the time of the colonoscopy

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#### **Lets Get To The Scoping Tips!**

- Four simple measures taken together improve adenoma detection (7.6% improvement)
- 1)Taking more than six minutes on withdrawal
- 2) Retro flexing in the rectum
- 3) Buscopan use routinely to abolish peristalsis
- 4) Position change to optimize colon exposure

Quality Improvement Study:Endoscopy 2015 F1000 Research 2019

# Bailey's Today Tip #3Do the 4 simple measures and improve your skills and effectiveness

(adenoma detection improvement 7.6%)

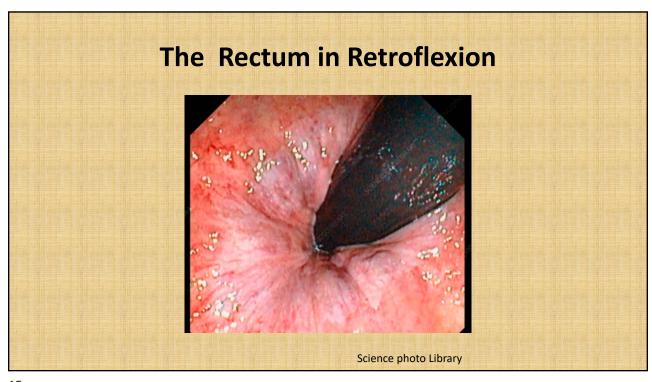
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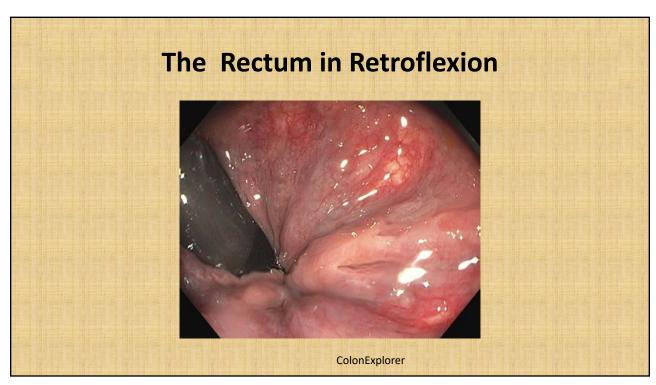
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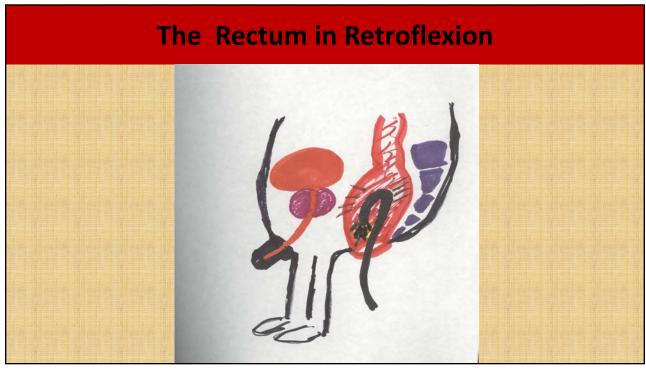
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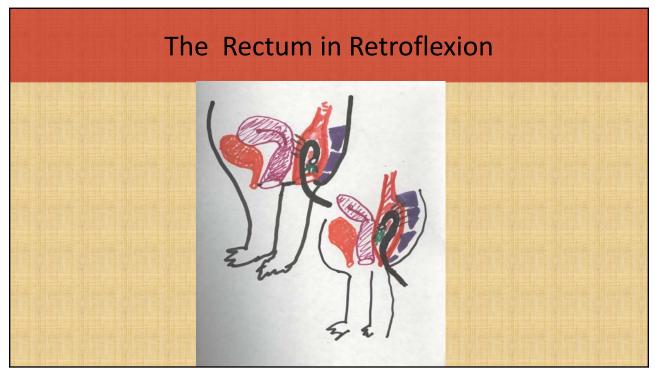
## Colonoscopy You need to see the rectum in retroflexion





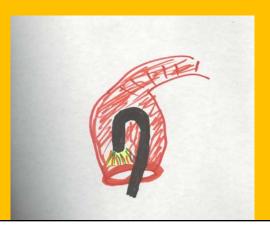






#### Bailey's Tip of the Day #3

### RETROFLEX IN THE RECTUM WITH "THE BEND" AGAINST THE SACRUM

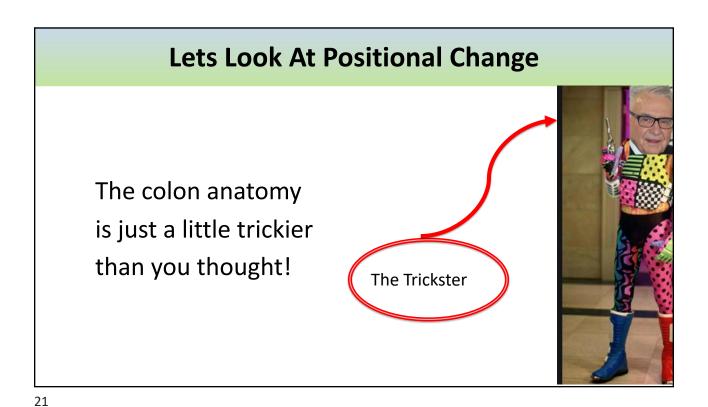


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# The Colon Is Often In Spasm Buscopan?

- Buscopan- antocholinergic- excellent safety profile, avoid in severe cardiac disease
- Shorten cecal intubation rate and better ileal intubation success-suggested
- No major pain influence
- Benefit when colonic spasm
- Polyp rate may be marginally improved

Therap Adv Gastroenterol 2017 Science Direct 2018 Frontline Gastroenterol 2018



The colon anatomy is just a little trickier than you thought.

Transverse colon anterior posterior posterior

Sigmoid colon

anterior

© 2010 Medicine Net, Inc

Appendix

Rectum

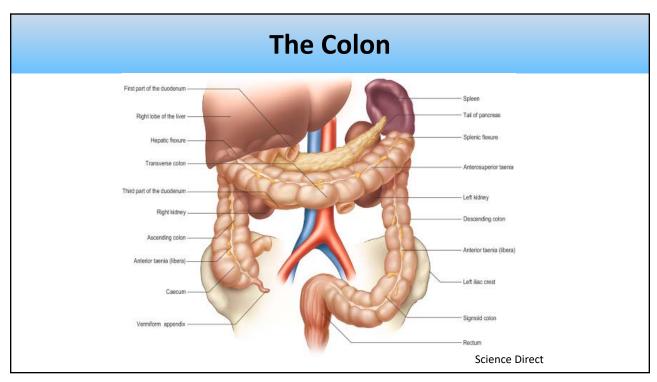
anterior

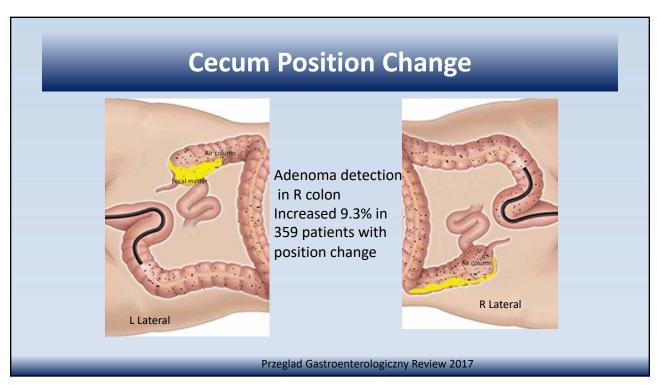
# Impact of the supine position versus left horizontal position on colonoscopy insertion: a 2-center, randomized controlled trial

- A total of 347 patients were randomized to the Supine group (175) or the Left Horizontal group (172).
- The Cecal intubation time in the Supine group was significantly shorter by 41 seconds (*P* < .001).
- The Decending colon intubation time was also shorter- by 10 seconds P = .001).
- The supine position had less pain, less difficulty, less need for positional change, and less need for abdominal compression
- As an economical and convenient method, the supine position can reduce time to the cecum, ease pain, and improve patients' acceptance of colonoscopy.
   Gastrointestinal Endoscopy Volume 89, Issue 6, June 2019,

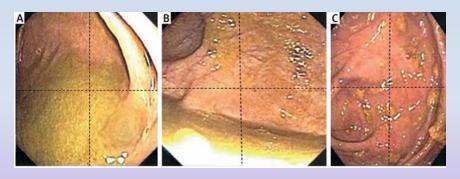
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# Descending Colon Intubation CIT 275 SECONDS CIT 275 SECONDS CIT 275 SECONDS Gastrointestinal Endoscopy Volume 89, Issue 6, June 2019,





#### Position often gets a better look at the cecum



Left lateral

Supine

Right Lateral

An additional 9.3% (11/118) of adenomas were detected in caecum and ascending colon following position change

Przeglad Gastroenterologiczny Review 2017

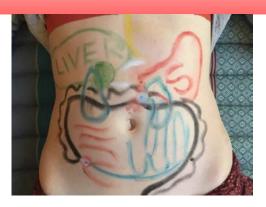
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#### **Bailey's Tip Again- Do The 4 Suggestions**

- Take your time withdrawing (6 Min)
- Retroflex in rectum
- Use Buscopan for any unwanted contractions
- Position the patient for better viewing-(even when they are deeply sedated

Gastrointestinal Endoscopy 2019)

## Then Ask Yourself Is There Any Need For Abdominal Pressure?



The Yoga Folks think so

The Glowing Body Yoga Studio Knoxville USA

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#### Tricky As It Is The Colon Can Be Even Trickier at Colonoscopy

- 91% colonoscopies develop a loop
- 79% N-loop in sigmoid
- 34% deep transverse colon
- 69% incorrectly diagnosed by the endoscopist
- Women more loops than men

Gastrointestinal Endoscopy 2000

#### Left Sided -- Loops And Troubles

- Post pelvic surgery
- Severe diverticular disease
- Slender women

#### Right Sided -- Loops And Troubles

- Obese patients
- Tall men

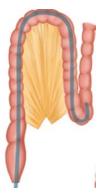
Waye, Athens Post Grad course 2017

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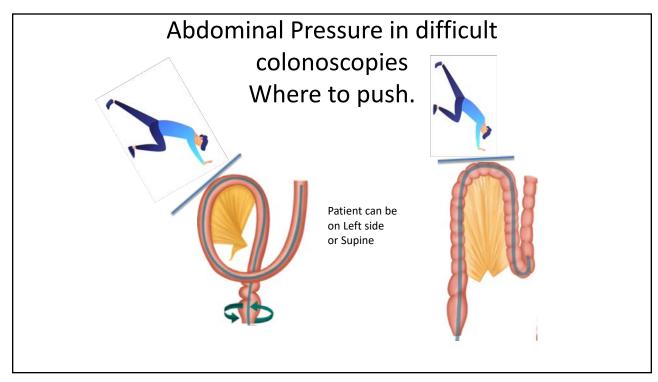
#### Sigmoid Loops – The Most Frequent Cause Of Trouble

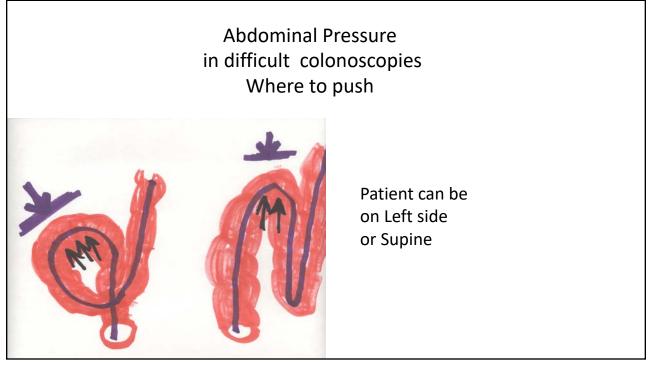






The alpha loop and the N loop





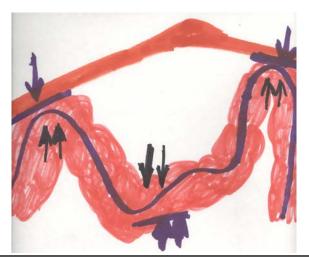
# Abdominal Pressure in difficult colonoscopies Where to push



Left colon Keep trying

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# Abdominal Pressure in difficult colonoscopies Where to push



Hands below the ribs for support, then pressure Best with 2 hands

You find the best spot Good Luck.



Abdominal
Pressure
in difficult
colonoscopies
Where to push

Support below the ribs

Different area Right lower quadrant

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# Abdominal Pressure in difficult colonoscopies

- Keeps loops straight
- Prevents formation of big loops
- May advance the endoscope
- Abdominal pressure and positional change works 52% of the time

Waye, Athens Post Grad course 2017 Gastrointestinal Endoscopy 2000

#### Bailey Tip #4

**Be Certain The Endoscopist And The Pusher Communicate.** 

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## Are There Any Tips To Make You Even Better?

Yes there are!



Original Thumb RJB

#### The Endocuff



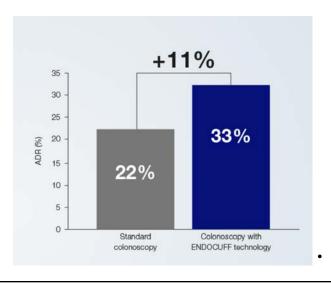
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#### **Endocuff Vision and Colonoscopy Performance**

- 410 colonoscopies: 137 precuff, 136 with cuff
- ❖ Adenoma Detection Rate increased 16% with cuff
- Insertion Time better by 1 minute

Tsaimoulos GIE 2018

Effect Of Endocuff-assisted Colonoscopy On Adenoma Detection Rate: Meta-analysis Of Randomized Controlled Trials.



**Endoscopy 2018** 

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#### The ADENOMA Randomized Control Trial

1772 patients-Endocuff vs Standard colonoscopy

Overall Adenoma Detection Rate: 36.2% to 40.9%

Fit + Screening Adenoma Detection: 50.9% to 61.7%

Cancers detected: 2.3% to 4.1%

Cecal Intubation time quicker by 1 minute

**GUT 2019** 

#### Bailey's Tip Re This Device

Endocuff –
Effective
and
Efficient



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# And Now Maybe the Biggest Tip of the Day-Lots of Water



#### Water and lots of it

#### 1) Water Immersion:

Water is used to assist insertion along with suction of air There is no attempt to maximize cleanliness Residual feces and water are suctioned upon withdrawal

#### 2) Water Exchange:

Simultaneous water infusion and suction at the same time for cleaning and maintaining a clear view on insertion

In both techniques on endoscope withdrawal, water is removed and carbon dioxide or air is insufflated

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#### Water and lots of it

Water exerts a gravitational effect and reduces colonic elongation thereby reducing loop formation procedure discomfort and sedation requirements

(Dig Endosco2015)

Water irrigation improves mucosal viewing and increases abnormal detection rates

(Am J Gastro 2017)

#### Support for Water Infusion

#### Cochrane Data Base 2015

- · Cecal intubation rate not improved
- · Adenoma detection rate augmented
- Most obvious benefit was reduction of procedure-related abdominal pain

Gastrointestinal Endoscopy 2018
Water vs Air for colonoscopy A meta-analysis of randomized contolled trials

- High adenoma detection rate,
- Cecal intubation time decreased,
- · Requirements for abdominal pressure decreased

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# Impact of water exchange colonoscopy on endoscopy room efficiency: a systematic review and meta-analysis

- Impact of water infusion colonoscopy adds for total time of two minutes to the procedure.
- There is significant improvement in patient centered outcomes
- The the bed sheets and get wet.
   Personal communication RAH Endo Nurses 2020
- Watch your shoes. Jerry Waye 2019

Gastrointes Endos 2019

## Water exchange colonoscopy tips and tricks

- Water infusion is the least painful insertion technique reducing pain and requirement for sedation
- Colon cleanliness is increased leading to adenoma detection rate increase overall as well as in screening colonoscopies
- Cecal intubation time is marginally longer but only a total of one or two minutes.

GIE 2019

G I E August 2019

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#### Bailey Tip of The Day

• Get using Water Infusion ie Water exchange

You will do a better job with happier patients

