

GI Pearls and... Diagnostic Errors

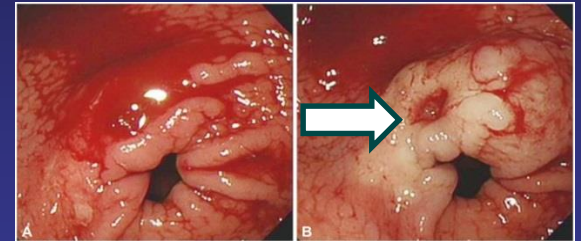
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Disclosures

- Editor: NEJM J Watch Gastro (esophageal)
: WebMD/MedScape (Gastro)
- Consultant: Pfizer, Aries, CRH Medical

Helicobacter pylori testing

- 34 year old Hispanic epigastric pain 2 weeks
 - worse with eating
 - melena for the last 24 hrs
- Emergent upper endoscopy: 1 cm prepyloric ulcer
 - active bleed which is controlled by endoscopic therapy
 - antral biopsies: *Helicobacter pylori*
- PPI, clarithromycin, amoxicillin, metronidazole x 14 d
 - 8 week PPI
- Seen back in the office 10 weeks off all meds
- You recommend:



Next Test

- A H pylori serology (IgG)
- B H pylori serology (IgA)
- C Repeat endoscopy with biopsy
- D Stool for HP antigen
- E No further test- observation for recurrence

H.Pylori testing

- Appropriate testing document eradication
 - stool antigen for H.pylori
 - urea breath test
 - biopsy (only if endoscopy to be repeated)
- Repeat testing >4 weeks post completion Rx
- PPIs may affect sensitivity/specificity of non-serologic testing
 - hold PPI at least 1 week

H pylori Treatment

- Most patients will be better served first line Tx:
 - bismuth quadruple therapy or
 - concomitant therapy consisting of

PPI, clarithromycin, amoxicillin, metronidazole

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H. Pylori - Pearls

- 14 day treatment duration
- New treatments-quadruple based tx
- All treated patients- document eradication
- Serology testing not for eradication f/u

CRC Screening

Fecal Blood Testing

- 52 yr old Caucasian male seen annual physical exam
- Initial screening colonoscopy (age 50)
 - mild diverticulosis and hemorrhoids
 - GI colonoscopist recommended repeat 10 yrs
- He reports his father recently diagnosed CRC age 86
- What test would you recommend for CRC screening?

Next Test

- A Hemoccult testing x 3 (FOBT)
- B Fecal immunohistochemical test x1 (FIT)
- C Fecal DNA (Cologuard)
- D No test at present
 - repeat colonoscopy 10 yrs after first exam
- E EpiProColon (Septin 9 serum assay)

CRC Screening

- After high quality screening colonoscopy
 - no alternative screening if colonoscopy to be repeated
- FOBT no longer recommended (replaced by FIT)
 - Improves sensitivity/specificity
 - Any + FIT warrants colonoscopy

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CRC Screening Pearls

- FIT replaces FOBT
- No interval seen testing if 10 yr colonoscopy
- Family hx CRC >60
 - First degree relative begin at 40 then q 10
- Age to stop
 - USPTF 85 yr
 - MSTF- consider comorbidities (life <10 yrs)

Abdominal Pain Evaluation

- 24-year-old Caucasian woman RUQ pain
 - dull ache with intermittent stabbing severe pains
 - improved with recumbence
 - intermittent nocturnal awakening (rolled her right side)
 - no change with meals/ associated relief with BM
 - no radicular pain

Abdominal Pain Evaluation

- Onset:
 - backpacking hiking vacation trip to Europe
 - swinging backpack/carrying infant extended hiking
- Return home month ago but since
 - experienced it on two separate occasions
 - severe enough that she went to the emergency room
 - normal CAT/labs x2
- PE: point tender RUQ over gallbladder area
 - more tender flexes abdominal muscles/raises off bed
 - no rebound/normal BS/no rashes


Next Test

- A CCK Hida (evaluation ejection fraction)
- B MRCP
- C ERCP
- D Referral for upper endoscopy
- E Local heat/analgesics

Abdominal Pain Evaluation

- Good history/classic physical finding
 - abdominal wall pain
- Carnett's sign
 - patient supine/ find exact point maximally tender
 - fold arms flex up
 - examiner kept fingers point of max tenderness
- Carnett's hypothesis
- Savings average \$900 per case /avoidance testing

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Abdominal Pain – Carnett's Pearls

- Local heat/NSAIDs/topical analgesics
- Look for causes
 - habitus/posture
 - take good history
 - look at back/posture/shoulders/pelvis tilt

Clostridium difficile Testing

- 75 yr old female acute diarrheal illness
- Recent tx amoxicillin for URI
- No prior history of diarrheal disease
- C difficele + glutamate dehydrogenase (GDH)
 - Rx flagyl 500 mg tid for 10 days
- Seen your office 2 weeks post treatment
 - resolution diarrhea now normal BM

What is best recommendation for next test?

Next Test

- A C. difficile glutamate dehydrogenase (GDH)
- B CDI Nucleic Acid Amplification Gene Testing
- C EIA detection toxin A+B toxin
- D No CDI test at present
- E Immune deficiency evaluation

Clostridium difficile Testing

- 50% responded to treatment
 - asymptomatically can shed *C difficile* spores 6 weeks
- After successful treatment
 - stool assays often remain + for months
 - indicating ongoing colonization w/o clinical disease

JAMA Intern Med 2015 ;175(11): 1746-1747
Am J Gastroenterol 2013; 108:478–498;
Clin Infect Dis. 2018; doi: 10.1093/cid/cix1085

Clostridium difficile Testing

- Repeated demonstration stool + by laboratory assays
 - repeated stool test of cure *not recommended*
 - even more so patients *not have ongoing diarrhea*

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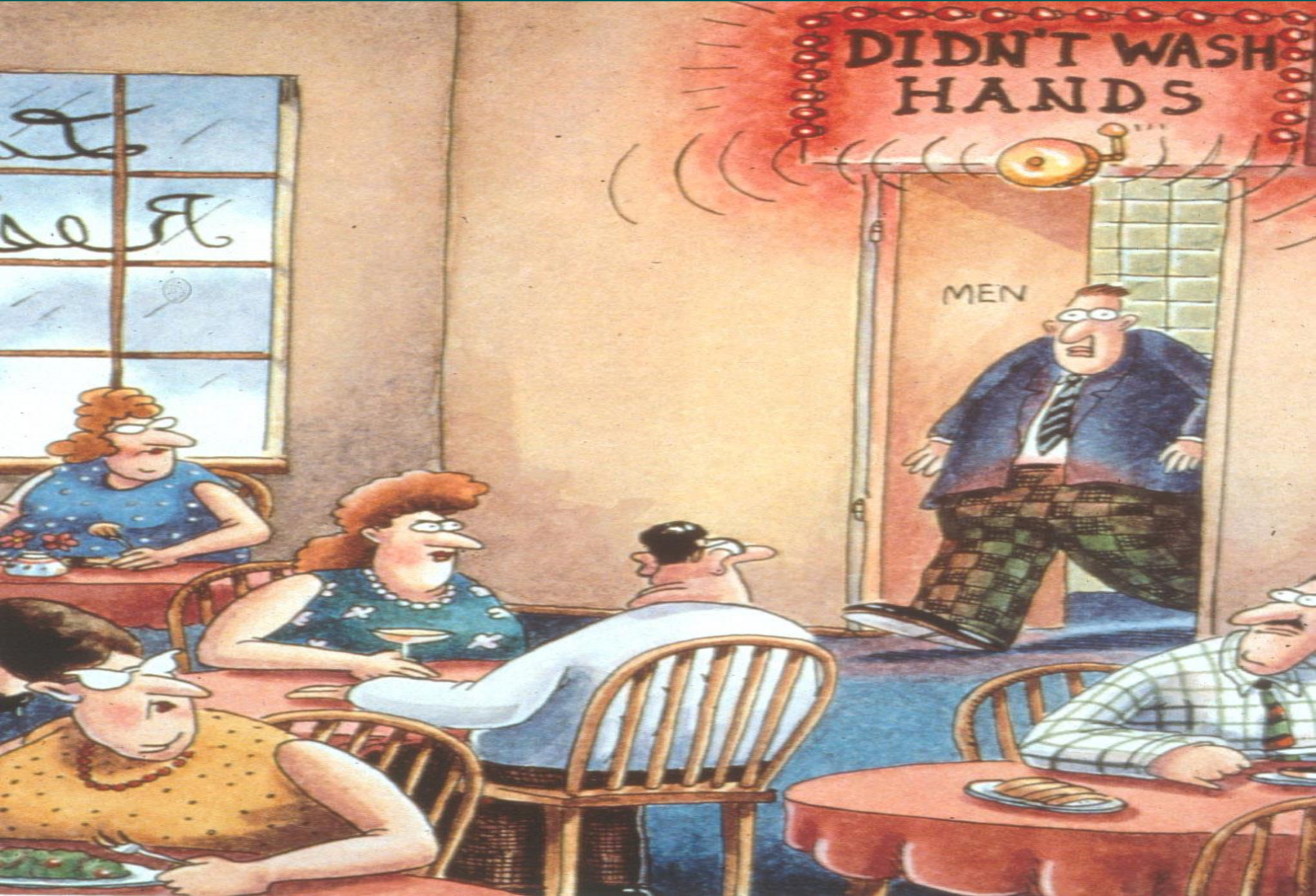
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C diff. Pearls

- No test if not diarrhea
- “Toilet hygiene” discussion
- Prophylaxis for high risk patients
- FMT treatment option
 - high risk
 - recurrence

BELL RINGERS



Be Thoughtful and.. Careful with Change



CHANGE IS BAD