Clostridium DIFFICILE

SUMMARIZING ACG GUIDELINES

EPIDEMIOLOGY

Colonization is organism presence but without symptoms



adults Colonization at time of hospital admission → 6x risk of *C. difficile*

4-15% of healthy



Up to 21% of hospitalized adults



care facility residents

infection (CDI) Risk factors for healthcare-associated CDI: contact with healthcare

environment, age \geq 65, antibiotic use, and IBD Risk factors for community-associated infections are antibiotic use,

white race, cardiac disease, CKD, and IBD **DIAGNOSIS**



Only test if symptomatic $\rightarrow \ge 3$ unformed bowel movements in 24 hours

Two step testing: highly sensitive NAAT or GDH followed by specific toxin EIA

- Nucleic acid amplification testing (NAAT) confirms presence of toxigenic strain but not toxin - Glutamate dehydrogenase (GDH) is an enzyme made by toxigenic &

nontoxigenic Clostridiodes strains. Positive GDH requires confirmation of toxigenic strain (NAAT or EIA)

Think alternate cause with symptomatic colonization if lack of response to PO Vancomycin in non-severe cases, atypical course, intermittent/non-progressive symptoms without treatment, history alternating constipation, and symptoms more suggestive of post-infectious IBS

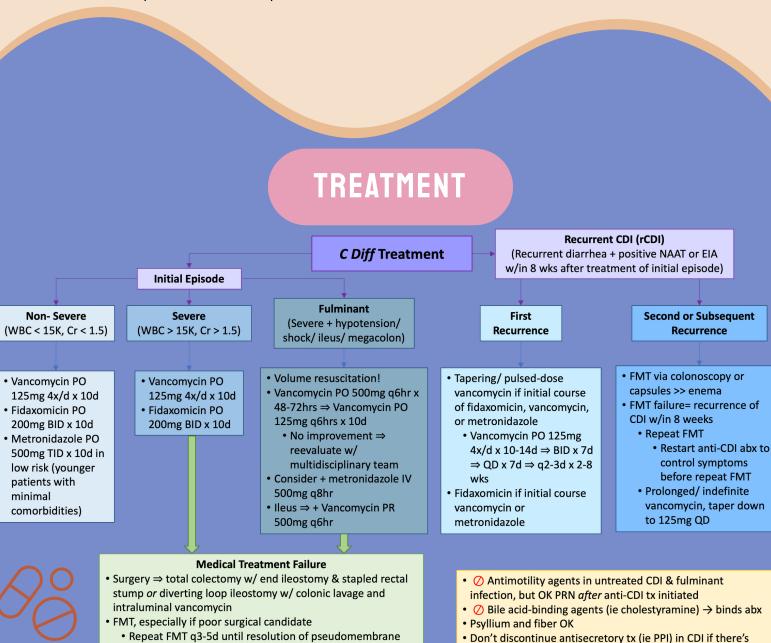


Enteric precautions for suspected/confirmed CDI

PREVENTION

No recommendations for precautions for asymptomatic carriers

NO probiotics for prevention if on antibiotics or for recurrence



appropriate indication for their use

FCP > 2000

Peripheral eosinophilia or undetectable eosinophils

PREDICTING POOR OUTCOMES

Low albumin

Pseudomembranes on colonoscopy

Continue vancomycin PO 125mg q6hr or fidaxomicin PO

200mg q12hr as long as pseudomembrane present

Severe or fulminant CDI

use in those with history of CDI and high risk recurrence

Fever >38.5°C

vancomycin

SUPPRESSION & PROPHYLAXIS

Recurrent CDI who are not FMT candidates, relapsed after FMT, or require ongoing/

frequent courses of antibiotics should receive long term suppressive PO

Vancomycin 125mg QD until **5d** after completion systemic antibiotics Consider bezlotoxumab (BEZ) to prevent CDI recurrence in high risk patients. BEZ

is a human monoclonal Ab that binds toxin B \rightarrow prevents entering GI cell layer &

Consider oral vancomycin prophylaxis (OVP) during subsequent systemic antibiotic

immunocompromised, or severe CDI) Caution use in CHF and severe CVD

SPECIAL POPULATIONS

 \geq 65 + one additional risk factor (2nd episode of CDI in past 6 months,

IBD

increased risk of developing CDI

exudate)

subsequent cell damage

- Test for CDI if presenting with acute flare with diarrhea - Can be harder to diagnose→ rarely have pseudomembranes (only mucopurulent

shorter duration IBD, higher rate comorbidities

- Do NOT hold immunosuppressive IBD tx during CDI tx during flare \rightarrow consider escalation of tx if no improvement with CDI tx after 3d - Consider FMT for recurrent CDI in IBD

- Risk factors include corticosteroids, infliximab or adalimumab, previous hospitalizations, more frequent ambulatory care visits,

- Recommend using vancomycin - Fidaxomicin if vancomycin failure - Cautious fidaxomicin use & avoid metronidazole in breastfeeding

- Tx is vancomycin 125mg QID x 14d minimum

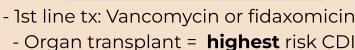
- Avoid FMT 2/2 procedural risks & lack of data in pregnancy \rightarrow Can maintain on PO vancomycin and perform FMT postpartum

Clostridioides difficile Infections. Am J Gastroenterol. 2021 Jun 1;116(6):1124-1147. doi: 10.14309/ajg.0000000000001278. PMID: 34003176.

IMMUNOCOMPROSIED

PREGNANCY, PERIPARTUM, & BREASTFEEDING





- Screen for CMV & EBV before FMT & if seronegative, consider transmission risk

@EmoryGastroHep Kelly CR, Fischer M, Allegretti JR, LaPlante K, Stewart DB, Limketkai BN, Stollman NH. ACG Clinical Guidelines: Prevention, Diagnosis, and Treatment of

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