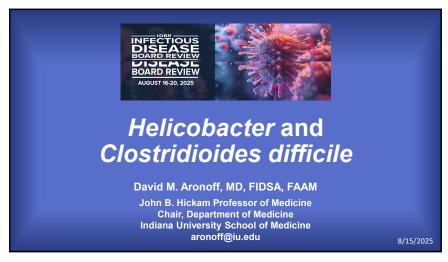
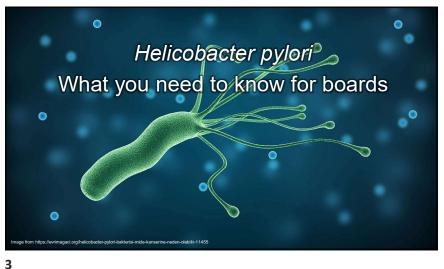
Speaker: David Aronoff, MD, FIDSA, FAAM





1



Helicobacter pylori Microbiology • The most prevalent chronic bacterial infection · Spiral-shaped, Gram-negative rod Flagellated Non-invasive Catalase +, oxidase + • Grows best at pH 6-8 **Urease +** → Survival, Colonization, Diagnosis Urea \rightarrow CO₂ + NH₃ \rightarrow \uparrow **pH**

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Helicobacter pylori: Take Home Points

- Hp causes peptic ulcer disease (PUD), chronic gastritis, gastric adenocarcinoma, & gastric mucosa associated lymphoid tissue (MALT) lymphoma
- Hp does not cause reflux/GERD
- Test for Hp if h/o MALT lymphoma, active PUD, early gastric cancer
- Consider testing: Pts <60 years of age with dyspepsia & w/o alarm features, chronic NSAID use, unexplained iron deficiency, immune thrombocytopenia

Helicobacter pylori: Take Home Points

- Test after stopping PPI (2 wks) & antibiotics (4 wks)
- Urea breath test, stool antigen, or biopsy can diagnose Hp
- NEVER TEST WITH SEROLOGY

6

Endoscopy for diagnosis if alarm symptoms

ALARM SYMPTOMS

· Unexplained iron-def anemia · GI bleeding

Unintentional weight Loss

Palpable mass

· Severe abdominal pain

· Persistent vomiting

· Progressive dysphagia / odynophagia

Helicobacter pylori: Take Home Points

- All patients with active infection should be offered treatment
- Initial antibiotic regimen guided by the presence of risk factors for macrolide resistance & presence of a penicillin allergy
- In the USA macrolide resistance is generally >15% so avoid macrolides
- Bismuth quadruple therapy (BQT) = bismuth/metronidazole/tetracycline/PPI (double dose PPI)
- Treat for 14 days

5

Helicobacter pylori: Take Home Points

- **Test of cure** to confirm eradication must be performed in all patients treated for Hp at least 4 weeks after treatment
- PPI therapy should be withheld for 1-2 weeks before testing because of suppressive effects of PPI on Hp urease & some concerns about antibacterial actions of PPI

Saniee P, et al. Helicobacter. 2016 Apr;21(2):143-52. doi: 10.1111/hel.12246

Speaker: David Aronoff, MD, FIDSA, FAAM

Question #1

PREVIEW QUESTION DISEASE DOARD REVIEW

A young woman undergoes upper endoscopy for unexplained nausea & vomiting. The stomach appears normal. Surveillance biopsies are taken & the gastric biopsy urease test is positive.

What are the biopsies are most likely to show?

- A. Hp organisms, but no gastric or esophageal inflammation
- B. Hp organisms plus gastric inflammation (gastritis)
- c. Hp organisms plus esophagitis
- D. Neither Hp organisms, nor inflammation because the urease test is often false positive with a normal endoscopy

Question #1

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Question #2

What is the most likely source for humans to acquire *H. pylori* infection?

- A. Perinatally from mother
- B. Ingestion of raw vegetables
- c. Ingestion of undercooked meat
- D. Ingested tap water from a municipal source
- E. Contact with infected secretions from another human

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Speaker: David Aronoff, MD, FIDSA, FAAM

Helicobacter pylori

- Humans are the only natural Hp host
- Infects > 50% of the world's population
- US ~20-40%*
- A leading chronic infection in humans
- Majority are asymptomatic but all have chronic active gastritis
- Severity of gastritis varies depending on the Hp strain & the host

*At greater risk: indigenous Americans, Black/AA, Hispanic, & immigrants from high-cancer-risk countries like Japan, Korea, Taiwan & China

> Lee Y, et al. Annu Rev Med (2022) Crowe SE, NEJM (2019)



Helicobacter pylori & Cancer

Hp is a carcinogen that causes an inflammationdriven cancer

- The leading cause of infection-associated cancer worldwide
- 1-3% of infected individuals will develop cancer
- · Hp causes 15% of the total cancer burden globally
- Up to 89% of all gastric cancer is attributable to Hp

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Chronic active gastritis Atrophic gastritis Epithelial metaplasia Intraepithelial neoplasia Invasive carcinoma

Lee Y, et al. Annu Rev Med (2022) Shah SC, et al Gastroenterology (2021)

13

Transmission of *H. pylori*

- Transmission likely fecal-oral or oral-oral
- Intrafamilial spread very common
 - Person-to-person, esp. mother-to-child but not during pregnancy
- Low socioeconomic status, poor sanitation, crowding associated with †transmission

JAMA 282:2240, 1999 & Crowe SE, UpToDate (2018)
Zhou XZ, et al. Gut. (2023) May;72(5):855-869. doi: 10.1136/gutjnl-2022-328965. PMID: 36690433

Disease Paths for Helicobacter pylori Infection

 Asymptomatic gastritis 85-90% • Peptic ulcer (DU, GU) 1-17% Gastric cancer 0.1-3%

 MALT lymphoma <0.01%

DU. duodenal ulcer GU, gastric ulcer MALT, mucosal-associated lymphoid tissue

> Lee Y. et al. Annu Rev Med (2022) NEJM 347: 1175, 2002

15 16

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Shah S, et al. UpToDate (2025)

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H. pylori: Disease Associations

- #1 cause of chronic gastritis
- PUD: 90% of DU, 80% of GU • MALT lymphomas (72 – 98%)

causal

H. pylori is a World Health Organization-designated carcinogen & the strongest known risk factor for non-cardia gastric adenocarcinoma

• Gastric Cancer (60 – 90%)

- Iron deficiency anemia, B12 deficiency, ITP
- Eradication of Hp neither causes nor exacerbates GERD
- Hp poss. reduces risk for Barrett's esophagus/esophageal CA

HP is classified by WHO as a Class 1 carcinogen. MALT = mucosal-associated lymphoid tissue

Shah S, et al. UpToDate (2025) Maastricht V. Gut (2017) Kasahun GG, Infect Drug Resist (2020) Shah S, et al. Gastroenterology (2021)

Question #3

A 25-year-old woman complains of 6 weeks of symptoms consistent with dyspepsia unrelieved by current use of antacids & an OTC PPI.

What is the best approach to the diagnosis of *H. pylori* infection in this patient?

- A. Immediate Hp serology
- B. Immediate Hp stool antigen EIA
- c. Endoscopy with rapid urease test (RUT)
- D. Immediate ¹³C Urea Breath Test
- E. D/C PPI for 2 weeks then Hp stool antigen EIA

17 18

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Who Should Be Tested for Hp? Patients with:

GERD Symptoms

Do Not Test for

 Suspected Hp infection (e.g., active
 1st generation immigrants from DU)

- Current or past GU or DU
- Uninvestigated dyspepsia
- Gastric MALT lymphoma
- Family members in same household of pt. w/ proven, active Hp infection
- Family hx of PUD or gastric cancer

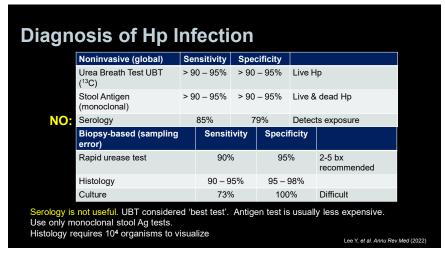
- high-prevalence areas
- Higher prevalence groups (Latino, Black/AA, indigenous populations)
- Regular user of NSAIDs
- Long-term PPI use
- Fe deficiency anemia (unexplained)
- ITP (low evidence base)

Lee Y, et al. Annu Rev Med (202)

20

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Testing Limitations for Hp

PPI Antibiotics Bismuth Bleeding

False negatives due to decreased Hp burden Recommend delay diagnostic testing until:

PPI stopped for > 2 weeks (orc antacids & H2RA do not affect UBT/SA testing)

Antibiotics, bismuth stopped for > 4 weeks

Bleeding stopped for 4-8 weeks

Bleeding stopped for 4-8 weeks

Lee Y, et al. Annu Rev Med (2022) Crowe SE, NEM 380:1138-68 (2021)

Crowe SE, NEM 380:1138-68 (2021)

Ratilizer Y et al. Helicobacter (2022)

Ratilizer Y et al. Helicobacter (2023)

21 22

Initial Diagnosis of *H. pylori* with Dyspepsia MOST = NONINVASIVE • Stool antigen test (SAT) • Urea Breath Test (UBT) • Unexplained iron-def anemia • GI bleeding • Unintentional weight Loss • Palpable mass • Severe abdominal pain • Persistent vomiting • Progressive dysphagia / odynophagia

Question #4

Which of the following is the most appropriate next step for evaluating a 29-year-old previously healthy but overweight male patient with typical retrosternal heartburn symptoms?

- A. Stool antigen test for H. pylori
- B. Urea breath test for H. pylori
- C. No testing for H. pylori
- D. Serological testing for *H. pylori*
- E. Empiric therapy for *H. pylori* regardless of testing

23 24

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Question #4

Which of the following is the most appropriate next step for evaluating a 29-year-old previously healthy but overweight male patient with typical retrosternal heartburn symptoms?

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- C. No testing for H. pylori *
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- E. Empiric therapy for *H. pylori* regardless of testing

Question #4

- Hp is not implicated as an etiological factor in gastroesophageal reflux disease (GERD)
- Treatment for (eradication of Hp) can **increase** the risk for Barrett's esophagus & esophageal adenocarcinoma
- Serology is **not** a recommended test for *H. pylori*

Siddique O, et al. AJM 2018

26

25

Question #5

A 23-year-old woman presents with persistent epigastric discomfort diagnosed as Hp+ gastritis by endoscopy. Fecal Hp antigen is also positive. Last year she was treated with azithromycin for a respiratory tract infection. As a child, she was treated repeatedly with PCN/amoxicillin for recurrent tonsillitis.

What do you recommend for therapy?

- A. Clarithromycin + amoxicillin + PPI
- B. Metronidazole + erythromycin + PPI
- c. Bismuth subsalicylate + TCN + metronidazole + PPI
- D. Metronidazole + amoxicillin + PPI
- E. PPI therapy alone given her age

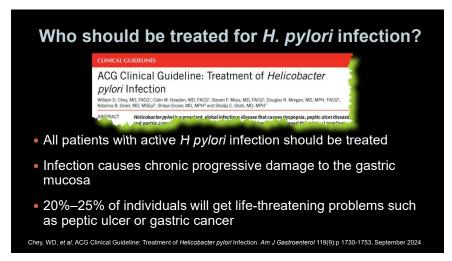
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H. pylori Antibiotic Resistance Rates in the US Antibiotic(s) % Resistant Overall US resistance rates by subregion: resistance rates: Clarithromycin 31.5 18.2% Levofloxacin 37.6 Metronidazole 42.1 0.9 Tetracycline Amoxicillin 2.6 Rifabutin 0.2 Metronidazole Dual Metronidazole 11.7 69.2% Antibiotic susceptibility testing performed on 2669 strains from the US between 2011-2021 In vitro metronidazole resistance is not associated with eradication Chey WD, et al. Am J Gastroenterol (2024) failure in patients receiving optimized BQT.

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Treatment of Hp

- Cure rates of most Hp therapies are **relatively low** (<80%)
- · Antibiotic resistance is a HUGE challenge, provoking quadruple therapies
- AVOID CLARITHROMYIN & FLUOROQUINOLONES
- Discuss the critical importance of adherence to treatment
- Use high dose PPI (BID dose; increase gastric pH>4-5)
- Hp grows optimally at pH 6-8 & low pH hinders stability & activity of macrolides, amoxicillin
- Vonoprazan: new potassium-competitive acid blocker that is more potent than PPIs appears promising

Lee YC, Annu Rev Med (2022), Chey WD, et al. Am J Gastroenterol (2024), Shah SC, et al. UpToDate (2025)

Treatment of Hp

- Triple therapy with a PPI, clarithromycin, & amoxicillin or metronidazole is not favored due to increased prevalence of macrolide resistance (but might still be an option on boards!)
 - Clarithromycin resistance in the US now ≥ 15%
- Use a bismuth-based quadruple therapy for 14 days as 1st-line therapy:
 - Bismuth subsalicylate or subcitrate
 - Tetracycline (not doxycycline: results are inferior)
 - Metronidazole
- PPI

32

30

Shah SC, et al. Gastroenterology 2021;160:1831–1841 Cho J, et al. Gastroenterol Clin N Am 50 (2021) 261–282 Hulten KG, et al. Gastroenterology 2021 Lee YC, Anu Rev Med: 2022

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Treatment of Hp Continued...

- Consider antibiotic susceptibility testing after multiple relapses
 - Culture-based & non-culture-based (NGS) techniques can determine resistance
- Success should always be confirmed by a test of cure after treatment of every patient (e.g., UBT performed 4 or more weeks after therapy)

Lee YC, Annu Rev Med (2022)

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	Treatment Naïve		Experienced Ivage)	Penicillin Allergy
Regimen		Empiric	Proven antibiotic sensitivity	
Optimized Bismuth Quadruple		\square		✓ ✓ ✓ *
Rifabutin Triple				
Vonoprazan Dual		0	0	
Vonoprazan Triple				
Levofloxacin Triple				
☑ ☑ ☑ Recommende			dered when other treatments an	

34

Table 5. Recommended regimens for treatment-naive patients with H. pylori infection frequency approval Optimized bismuth quadruple^a PPI (standard dose)^b b.i.d. Strong (moderate quality of evidence) Bismuth subcitrate (120-300 mg) q.i.d. or subsalicylate (300 mg)d Tetracycline (500 mg)e a.i.d. Metronidazole (500 mg) t.i.d. or a.i.d. Rifabutin triple (Talicia)^f Omeprazole (10 mg)b 4 capsules t.i.d. Conditional (low quality of evidence) Amoxicillin (250 mg) Rifabutin (12.5 mg) PCAB dual (Voquezna DualPak)g Vonoprazan (20 mg) b.i.d. Conditional (moderate quality of evidence PCAB triple (Voquezna TriplePak)h Vonoprazan (20 mg) b.i.d. Conditional (moderate quality of evidence Clarithromycin (500 mg) Amoxicillin (1,000 mg) Chey WD, et al. Am J Gastroenterol (2024)

After treatment of this patient for Hp gastritis, when should the *H. pylori* stool antigen test be repeated?

A. On the final day of *H. pylori* therapy

B. Two weeks after completion of *H. pylori* therapy

C. Four weeks after completion of *H. pylori* therapy

D. The test should not be repeated to assess cure

35

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Question #6

After treatment of this patient for Hp gastritis, when should the *H. pylori* stool antigen test be repeated?

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- B. Two weeks after completion of *H. pylori* therapy
- c. Four weeks after completion of *H. pylori* therapy
- D. The test should not be repeated to assess cure



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Clostridioides difficile: Take Home Points

- Community-onset disease increasingly common
- Diagnosis of *C. difficile* infection (CDI) relies on combination of appropriate clinical syndrome plus evidence of toxin B
- Not all C. difficile organisms are toxigenic/disease-causing
- Severe disease is based on leukocytosis &/or renal injury

Clostridioides difficile: Take Home Points

- Fidaxomicin is a favored first-line option, & oral vanco is good (more recurrences, but often more available/less \$)
- Metronidazole is no longer a preferred option
- Recurrence is a major challenge
- Recurrence risk reduced by stopping other antibiotics, using fidaxomicin, bezlotoxumab, live biotherapeutic products, or FMT
- No test of cure should be performed

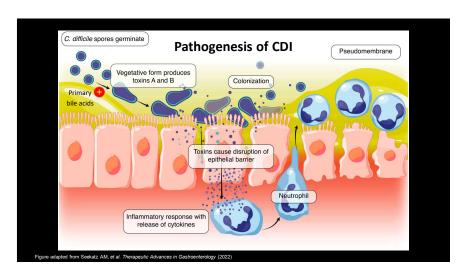
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Facts about C. difficile infection (CDI)

- Not all antibiotic-associated diarrhea (AAD) is due to C. difficile (probably <40%)
- Nearly all AA colitis is CDI
- ~500,000 cases & ~30,000 deaths per year in the US
- · Healthcare-associated CDI rates are declining
- · Community-associated CDI rates are increasing
- Recurrent CDI (rCDI) is a major problem, accounting for 75,000-175,000 cases of CDI each year in the US

Feuerstadt P, et al. BMC Infectious Diseases (2023) 23.132 Selvaraj V & Alsamman MA. Antibiotic-Associated Diarrhea Beyond C. Difficile: A Scoping Review. Brown Hospital Medicine. 2022

41



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Common Clinical Manifestations

- Watery & mucousy diarrhea up to 10 15 times daily
- Lower abdominal pain & cramping
- Low grade fever (15%+)
- Leukocytosis (> 15,000 cells/ml = severe)
- Nausea
- Anorexia
- Malaise



or severity as

Clinical Supportive Clinical **CDI Severity Definition Data** Leukocytosis with a Leukocytosis WBC count of ≤15,000 Nonsevere cells/mL and a AKI serum creatinine level Sepsis/shock <1.5 mg/dL Megacolon Leukocytosis with a WBC count of ≥15,000 Severe cells/mL or a serum Stool frequency is not part creatinine level >1.5 mg/dL of severity assessment Hypotension or shock, **Fulminant** ileus, megacolon Table from Wilcox M, IDSE (2018) McDonald LC, et al. Clin Infect Dis. 2018 Mar 19;66(7):987-994

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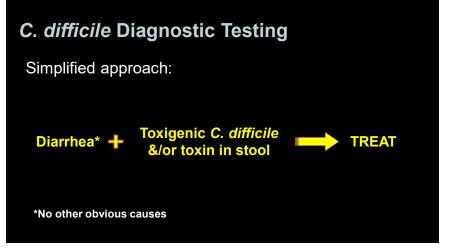
C. difficile Diagnostic Testing

Whom to test?

- Appropriate epidemiology/ill with diarrhea/endoscopic findings
- · No laxatives within last 48 hrs (board exam vs. real world caveat)
- · Chemotherapy, enteral tube feeds, IBD flare should make you think twice
- Test diarrheal stools (unless ileus). Test only one stool sample.
- >3 liquid stools over 24h
- Only test specimens if patient > 1 year old

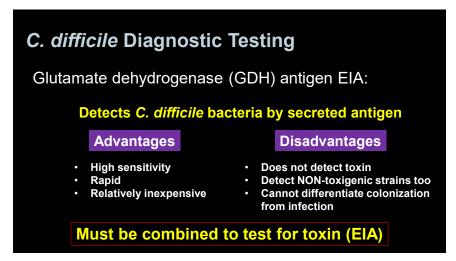
McDonald LC, et al. Clin Infect Dis. 2018 Mar 19;66(7):987-994 L'Huillier JC, et al. J Trauma Acute Care Sura 2024

45 46



C. difficile Diagnostic Testing Nucleic acid amplification test (NAAT; PCR): Detects the gene for toxin B Advantages Disadvantages High sensitivity Rapid Relatively inexpensive Does not detect actual toxin Can't differentiate colonization vs infection Patient selection is critical

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C. difficile Diagnostic Testing

Toxin A/B detection by EIA:

Detects C. difficile toxin(s) directly

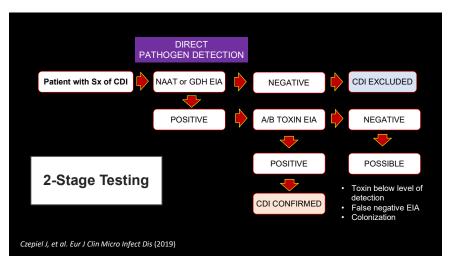
Advantages

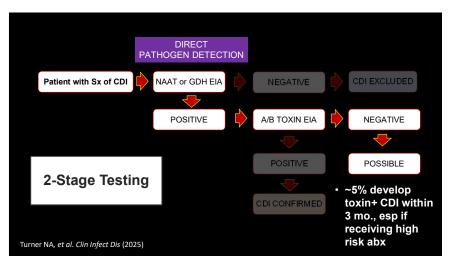
Disadvantages

Relatively poor sensitivity
False positives possible

Usually used in a 2-step protocol with NAAT or GDH

49 50





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Question #7

67-year-old woman develops diarrhea while hospitalized for community acquired pneumonia. She is afebrile, WBC count is 12,000/ml, creatinine is 1.2 mg/dl (baseline 1.0 mg/dl) and she is experiencing 12 small loose stools daily with abdominal cramping. Stool PCR is positive for *C. difficile* toxin B.

Which of the following therapies is recommended?

- A. Metronidazole 500 mg po TID x 10 days
- B. Vancomycin 500 mg PO qid x 10 days
- C. Fidaxomicin 200 mg PO BID x 10 days
- D. Bezlotoxumab + vancomycin x 10 days
- E. Fidaxomicin 200 mg PO BID + metronidazole 500 mg PO TID x 10 days

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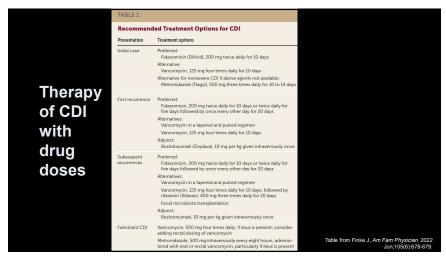
53 54

Table 1. Treatment Stra	ategies for CDI.		
	IDEA/SHEA	ACG	ESCMID
	F	referred Regimens for an In	itial CDI Episode
Non-severe	Fidaxomicin	Fidaxomicin or vancomycin (metronidazole for low-risk only)	Fidaxomicin
Severe	Fidaxomicin	Fidaxomicin or vancomycin	Fidaxomicin or vancomycin
Fulminant/complicated	High-dose vancomycin + IV metronidazole	High-dose vancomycin ± IV metronidazole	Vancomycin or fidaxomicin
	Pr	eferred Regimens for Recur	rent CDI Episodes
First recurrence	Fidaxomicin	Fidaxomicin or tapered/pulsed vancomycin	First-line: Fidaxomicin or the addition of bezlotoxumab (tailored based on treatment regimen for the initial episode)
Second recurrence	Fidaxomicin, vancomycin tapered and pulsed regimen, vancomycin followed by rifaximin, FMT	Not specifically addressed	FMT or standard regimens and beziotoxumab, if not used previously (tailored based on past treatment regimens)

Treatment	Contents	Dose/route	Recurrence rate (active treatment)	Recurrence rate (placebo)	Absolute risk reduction	FDA Approval	Ref.
(ZINPLAVA®)	Monoclonal Ab	10 mg/kg IV x 1	15.7-17.4%1т	N25.7-27.6%ª	10.0-10.2%	YES	(1)
SER-109 (VOWST®)	Stool spores	4 caps QD PO x 3 d	12.4%b	39.8% ^b	27.4%	YES	(2)
RBX2660 (REBYOTA®)	Feces	150 mL PR enema x 1	29.4%b	42.5%b	13.1%	YES	(3)
VE303	8 Clostridia strains	10 caps QD x 14 d	13.8% ^b	45.5% ^b	31.7%	NO	(4)*
FMT#	Feces	Various	32.3%	56.6%	23.3%	With pt. consent	(5)
1. Package Insert; 2. Packag	e Insert; 3. Package Ir	sert; 4. Louie T, et al. JAM	A (2023); 5. Tariq R, et al. Cli	D (2019)			
*Phase I	study data		12 or (b) 8 week	s post treatmen	t		

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Therapy of CDI Recommended Treatment Options for CDI Treatment options Additional information Initial case Fidaxomicin: Caution for use in patients with Fidaxomicin (Dificid), 200 mg twice daily for 10 days congestive heart failure Alternative: Diagnosis of nonsevere cases supported by: White blood cell count < 15,000 cells Vancomycin, 125 mg four times daily for 10 days per μ L (15 \times 10 9 per L) Alternative for nonsevere CDI if above agents not available: Serum creatinine < 1.5 mg per dL Metronidazole (Flagyl), 500 mg three times daily for 10 to 14 days (132.6 µmol per L) No more metronidazole (unless mild disease, in young person, +/- cost constraints) Table from Finke J, Am Fam Physician. 2022 Jun;105(6):678-679.

57 58

TABLE 1		
Recommen Presentation	ded Treatment Options for CDI Treatment options	Additional information
Fulminant CDI	Vancomycin, 500 mg four times daily; if ileus is present, consider adding rectal dosing of vancomycin Metronidazole, 500 mg intravenously every eight hours, administered with oral or rectal vancomycin, particularly if ileus is present	Definition of fulminant CDI is supported by: Hypotension or shock, ileus, megacolon

Therapy of CDI TABLE 1 **Recommended Treatment Options for CDI** Presentation Treatment options Additional information First recurrence Preferred Tapered and pulsed vancomycin regimen Fidaxomicin, 200 mg twice daily for 10 days or twice daily for 125 mg four times daily for 10 to 14 days, five days followed by once every other day for 20 days two times daily for seven days, once daily for seven days, and then every two to three Vancomycin in a tapered and pulsed regimen days for two to eight weeks Vancomycin, 125 mg four times daily for 10 days Bezlotoxumab (Zinplava), 10 mg per kg given intravenously once Table from Finke J. Am Fam Physician, 2022 Jun;105(6):678-679

Speaker: David Aronoff, MD, FIDSA, FAAM

