Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Gastrointestinal System

Clostridioides difficile Infection (CDI)

Clostridioides difficile Infection (CDI)

- 1. Clinical suspicion of CDI: Diarrhoea (≥3 episodes unformed stool within 24 hours) where patient has been off laxatives for past 24-48 hours
- 2. **Detection of** *C. difficile* **toxin +/- gene alone does not diagnose CDI.** Clinical assessment is essential. Asymptomatic colonisation can occur in 20-40% of hospitalised patients and does not require treatment.
- 3. If CDI diagnosed: See table below for treatment of initial episode and first recurrence of CDI.
- 4. The following regimens may be recommended by Microbiology or Infectious Diseases only
- Regimen for tapered pulsed oral Vancomycin
- Regimen for intracolonic Vancomycin
- Reserve agent recommendation.

Antibiotics for Clostridium difficile Infection		
nfection	1st Line Antibiotics	Comment
Clostridioides difficile infection	Mild: Mildly symptomatic patient (With NO	Duration 10 days.
	features of severe CDI)	Material budgetter
	Matropidanala DO/NC 400mm ayanı 8 hayıra	Maintain hydration. Avaid aski diarrhandla ganta
	Metronidazole PO/NG 400mg every 8 hours	Avoid anti-diarrhoeal agents. Con procipitation antibiotic(a) if possible or
	IF no response 72 hours after starting	 Stop precipitating antibiotic(s) if possible or switch to agents less likely to be associated
	treatment, consult Microbiology or Infectious	with CDI.
	Diseases.	 Stop proton pump inhibitors (PPIs) if possible.
	All other patients:	Use vancomycin injection to prepare oral
		solution – see IV Guide.
	Vancomycin PO/NG 125mg every 6 hours.	Prescribe vancomycin capsules if required on
	F severe discuss with Micro/ID	discharge. Expensive – not routinely stocked in
		community. Please contact ward and
	Severe CDI: Suggested by any of the following:	community pharmacy at least 24hrs prior to
	Clinical: fever, rigors, abdominal pain	discharge to arrange supply.
	Cililical. level, figurs, abdominal pain	
	Laboratory: WCC ≥15 X 10 ⁹ /L, or rise in serum	
	creatinine >50% above baseline	
	Endoscopic findings: pseudomembranous colitis	
	Imaging: distension of the large intestine,	
	pericolonic fat stranding or colonic wall thickening	
	(including low-attenuation mural thickening).	
	Severe with ileus or toxic megacolon	1
	Vancomycin PO/NG 500mg every 6 hours	
	varicomyclir r O/NG 300mg every 6 hours	
	+	
	Material and a NV 500 and account 0 haven	
	Metronidazole IV 500mg every 8 hours	
	Consult Microbiology or Infectious Diseases.	
Clostridioides difficile	Consult Microbiology or Infectious Diseases.	1
First or subsequent recurrence or persistent		
symptoms or patients who are post-Faecal		
Microbiota Transplant (FMT) for CDI		

Refs:

- HSE AMRIC National Clostridioides difficile infection (CDI) treatment guidance 2023 https://www.hse.ie/eng/services/list/2/gp/antibiotic-prescribing/conditions-and-treatments/gastro/clostridium-difficile/
- 2. NICE Clostridioides difficile infection: antimicrobial prescribing 2023.
- 3. Clinical Practice Guidelines for the Management of Clostridioides difficile Infection in Adults: 2021 Update by SHEA/IDSA

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- European Society of Clinical Microbiology and Infectious Diseases: 2021 update on the treatment guidance document for Clostridioides difficile
 infection in adults. Clin Microbiol Infect 2021 Dec:27 Suppl 2:S1-S21. doi: 10.1016/j.cmi.2021.09.038. Epub 2021 Oct 20.
- 5. Impact of Clostridioides difficile length of treatment on rates of recurrence in patients on concurrent antibiotics Am J Infect Control. 2023 Apr 25:S0196-6553(23)00336.
- Japanese Clinical Practice Guidelines for Management of Clostridioides (Clostridium) difficile infection.
 Journal of Infection and Chemotherapy. 2022.
 28(1045-1083).
- Australasian Society of Infectious Diseases updated guidelines for the management of Clostridium difficile i nfection in adults and children in Australia and New Zealand Intern Med J 2016 Apr;46(4):479-93. doi: 10.1111/imj.13027.
- 8. Clinical Efficacy of Fidaxomicin and Oral Metronidazole for Treating *Clostridioides difficile* Infection and the Associated Recurrence Rate: A Retrospective Cohort Study Antibiotics 2023, 12, 1323. https://doi.org/10.3390/antibiotics12081323
- Comparison of outcomes with vancomycin or metronidazole for mild moderate Clostridium difficile associated diarrhea among solid organ transplant recipients: A retrospective cohort study
 Transpl Infect Dis 2018 Jun;20(3):e12867. doi: 10.1111/tid.12867.
- Outcomes associated with recent guideline recommendations removing metronidazole for treatment of non-severe Clostridioides difficile infection: a
 retrospective, observational, nationwide cohort study. CA Gentry, DL Campbell, RJ Williams. Int J Antimicrob Agents 2021 Mar; 57(3):106282. doi:
 10.1016/j.ijantimicag.2021.106282. Epub 2021 Jan 17

Gastroenteritis

Gastroenteritis

Avoid antimicrobial agents unless there is clinical evidence of invasive disease.

Consider viral causes if vomiting is a prominent symptom or if norovirus is active in the community or hospital.

Maintain hydration.

Avoid anti-diarrhoeal agents.

Send stool sample (include travel history on the form if relevant).

Antimicrobial treatment for gastroenteritis is generally pathogen directed.

If there is gastroenteritis with clinical evidence of invasive disease, sepsis, colitis or a history of recent foreign travel or for men who have sex with men (MSM), discuss empiric therapy/management with Microbiology or Infectious Diseases to guide empiric antimicrobial therapy.

Refs:

- 1. IDSA 2017 Treatment guidelines for infectious diarrhoea: Clin Infect Dis 65:1963, 2017.

Helicobacter pylori Infection

Helicobacter pylori Infection

- 1. Seek advice from gastroenterologist if 1 st or 2 nd line eradication unsuccessful.
- 2. While choosing a treatment regimen for *H. pylori*, patients should be asked about previous antibiotic exposure and this information should be incorporated into the decision-making process.
- 3. Please consider medication side effects and interactions, when choosing a triple therapy regime.
- 4. Second-line therapy depends on the first-line therapy and should not be the same treatment.
- 5. Following triple therapy, there is no need to continue acid- inhibiting treatments (PPI). However, if the ulcer is large, duodenal or complicated by haemorrhage or perforation, acid-inhibiting treatments can be continued for a longer duration. Patients should be maintained on the lowest effective dose of acid inhibiting treatment on an 'as required' basis.
- 6. Testing for eradication is recommended in all patients treated for *H. pylori* and should occur at least 6 8 weeks following treatment. Please inform the patient and the GP a *H. pylori* stool antigen test should be performed 6 8 weeks after *H. pylori* eradication. To increase accuracy, patients must not be on any medication that affects *H. pylori* detection; these include antibiotics (past 4 weeks), PPIs (past 2 weeks), and

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bismuth (past 4 weeks). If symptomatic relief is required during this period, H2 receptor antagonists and anti-acid medications are recommended.

- 7. Referral for OGD for H. pylori culture and susceptibility testing should be performed following two treatment regime failures.
- 8. Bismuth is available in Ireland as unlicensed medicines (ULM) and therefore not routinely stocked in community. Please contact ward and community pharmacy at least 24hrs prior to discharge to arrange supply.
- 9. Newer generation PPIs, e.g. esomeprazole 40mg, are considered more effective than first generation PPIs.

Antibiotic regimens for Helic		Altornative 4 St. Line Theren		Comment
1 st Line Helicobacter pylori	i - Line Inerapy	Alternative 1 st Line Therapy		Comment
eradication		If Penicillin Allergy or Cla	rithromycin Allergy	
		OR		
		-	arithromycin in the past year	Duration:
		Esomeprazole PO 40mg (PPI)	Esomeprazole PO 40mg (PPI) every 12 hours	
	every 12 hours	+		14 days
	+	Bismuth subcitrate PO 120mg	every 6 hours (ULM)	
	Clarithromycin PO 500mg every 12 hours	+		
	+	Metronidazole PO 400mg ever	y 8 hours	
	Amoxicillin 1g PO every 12	+		
		Doxycycline PO 100mg every 12 hours		
2 nd line Helicobacter pylori	2 nd Line Therapy	Alternative 2 nd Line Therapy		
eradication - if still infected		IE Patient has received Clarithromysin in the past year		
after 1 st line therapy		IF Patient has received Clarithromycin in the past year		
		NO Penicillin Allergy	Penicillin Allergy	
		Esomeprazole PO 40mg (PPI)		
	every 12 hours	every 12 hours	every 12 hours	
	+	+	+	
	Clarithromycin PO 500mg	·	Bismuth subcitrate PO 120mg	
	every 12 hours	12hours	every 6 hours (ULM)	
	+	+	+	
	_	l ,	Metronidazole PO 400mg	
	every 12 hours	12hours	every 8 hours	
			+	
			Doxycycline PO 100mg every	
			12 hours	

Refs:

- 1. HSE <u>Helicobacter pylori Antibiotic Prescribing.ie November 2023</u>
- 2. Management of Helicobacter pylori infection: the Maastricht VI/Florence consensus report. Malfertheiner P, et al. Gut 2022;71:1724–1762. doi:10.1136/gutjnl-2022-327745 Management of Helicobacter pylori infection: the Maastricht VI/Florence consensus report (bmj.com)

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