

Quick reference guide

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| NICE | <p>❑ Patients over the age of 55, with recent onset, unexplained and persistent dyspepsia (over 4-6 weeks) should be referred urgently for endoscopy to exclude cancer.^{1D}</p> |
| WHEN SHOULD I TEST FOR <i>HELICOBACTER PYLORI</i>? | |
| <p>❑ Patients with uncomplicated dyspepsia unresponsive to lifestyle change and antacids, following a single one month course of proton pump inhibitor (PPI), without alarm symptoms.^{2D,3A-,4A-,5A-,6A-} Note: Options should be discussed with patients, as the prevalence of HP in developed countries is falling,^{7B+,8B-,9B+} and is lower than 15% in many areas in the UK.^{10B+,11D} A trial of PPI should usually be prescribed before testing, unless the likelihood of HP is higher than 20%^{11A-} (older people; people of North African ethnicity;^{8B-,9B+} those living in a known high risk area), in which case the patient should have a test for HP first, or in parallel with a course of PPI.</p> <p>❑ Patients with a history of gastric or duodenal ulcer/bleed who have not previously been tested.^{11C}</p> <p>❑ Patients before taking NSAIDs, if they have a prior history of gastro-duodenal ulcers/bleeds. Note: Both HP and NSAIDs are independent risk factors for peptic ulcers, so eradication will not remove all risk.^{11A-}</p> <p>❑ Patients with unexplained iron-deficiency anaemia, after negative endoscopic investigation has excluded gastric and colonic malignancy, and investigations have been carried out for other causes, including: cancer; idiopathic thrombocytopenic purpura; vitamin B12 deficiency.^{11D}</p> | |
| WHEN SHOULD I NOT TEST FOR <i>HELICOBACTER PYLORI</i>? | |
| <p>❑ Patients with proven oesophagitis, or predominant symptoms of reflux, suggesting gastro-oesophageal reflux disease (GORD).^{2D,11D,12A+}</p> <p>❑ Children with functional dyspepsia.^{13A+,14A+}</p> | |
| WHICH NON-INVASIVE TEST SHOULD BE USED IN UNCOMPLICATED DYSPEPSIA? | |
| <p>❑ Urea breath tests (UBTs)^{15A+,16C,17B+} and stool antigen tests (SATs) are the preferred tests.^{11A+}</p> | |
| <p>Urea Breath Test (UBT): most accurate test.^{2D,15A+,16C,17B+}</p> <ul style="list-style-type: none"> needs a prescription and staff time to perform | <p>DO NOT perform UBT or SAT within two weeks of PPI,^{20B+,21B+} or four weeks of antibiotics,^{19A+,22A+} as these drugs suppress bacteria and can lead to false negatives.</p> |
| <p>Stool <i>Helicobacter</i> Antigen Test (SAT): check test availability.^{18A+,19A+}</p> <ul style="list-style-type: none"> pea-sized piece of stool sent to local laboratory | |
| <p>Serology: whole blood in plain bottle; low cost, lower accuracy.^{2D,16A-,23A+}</p> <ul style="list-style-type: none"> not recommended for most patients, and positives should be confirmed by a second test such as UBT, SAT^{24D} or biopsy^{11D,15A+} has very good negative predictive value at current; low prevalence in the developed countries^{7B+,8B-,9B+,10B+,11D} most useful in patients with acute gastrointestinal bleed, to confirm negative UBT or SAT, when blood and PPI use interacts with tests^{19A+} detects IgG antibody;^{25A+} does not differentiate active from past infection^{19A+} | <p>DO NOT use near patient serology tests, as they are not accurate.^{2D,11D,16A-}</p> <p>DO NOT use serology post-treatment.</p> <p>DO NOT use serology in the elderly or in children.^{13A+,14A+}</p> |
| WHEN SHOULD I TREAT <i>HELICOBACTER PYLORI</i>? | |
| <p>HP POSITIVE</p> | Treat <i>H. pylori</i> . ^{2D,11D,22A+,26B-} |
| <p>HP NEGATIVE</p> | <p>Reassure, as NPV of all tests is >95%.^{16C}</p> <p>Only retest for HP if DU, GU, family history of cancer, MALToma, or if test was performed within two weeks of PPI, or four weeks of antibiotics.^{21B+,27C}</p> <p>If <i>H. pylori</i> negative, treat as functional dyspepsia. Step down to lowest dose PPI or H₂A needed to control symptoms. Review annually, including PPI need.^{2D,28D}</p> |
| <p>ASYMPTOMATIC post-HP treatment^{2D,3A-,4A-}</p> | |

TREATMENT REGIMENS FOR *HELICOBACTER PYLORI*

- Check antibiotic history as each additional course of clarithromycin, metronidazole or quinolone increases resistance risk.^{11D,22A+,29B-,30A-,31A+,32A-} Stress the importance of compliance.^{2A-,27C,32A-}

NO PENICILLIN ALLERGY

FIRST-LINE: 7 days, PPI twice daily^{2A-,30A-,31A+}
PLUS amoxicillin 1g BD
PLUS either clarithromycin 500mg BD OR
metronidazole 400mg BD

ONGOING SYMPTOMS after first-line

SECOND-LINE: 7 days, PPI twice daily^{2A-,30A-,31A+}
PLUS amoxicillin 1g BD
PLUS second antibiotic not used in first line, either
clarithromycin 500mg BD OR metronidazole 400mg BD

ONGOING SYMPTOMS after first-line AND previous exposure to MZ and CLAR

SECOND-LINE, 7 days, PPI twice daily^{2A-,30A-,31A+}
PLUS amoxicillin 1g BD
PLUS second antibiotic, either tetracycline hydrochloride
500mg QDS OR levofloxacin 250mg BD^{30A-,31A+,33A+,34A+}

PENICILLIN ALLERGY

FIRST-LINE: 7 days, PPI twice daily^{2A-,30A-,31A+}
PLUS clarithromycin 500mg BD
PLUS metronidazole 400mg BD

First-line with previous CLAR exposure OR Second-line with previous levofloxacin exposure

7 days, PPI twice daily^{2A-,30A-,31A+}
PLUS bismuth subsalicylate 525mg QDS^{35A+,36A+,37A+,38D}
OR tripotassium dicitratobismuthate 240mg QDS^{39D}
PLUS tetracycline hydrochloride 500mg QDS^{2A-}
PLUS metronidazole 400mg BD^{2A-}

ONGOING SYMPTOMS after first-line and NO previous exposure to levofloxacin

SECOND-LINE: 7 days, PPI twice daily^{2A-,30A-,31A+,33A+}
PLUS metronidazole 400mg BD^{2A-}
PLUS levofloxacin 250mg BD^{31A+,33A+,34A+}

- PPI medication: lansoprazole 30mg BD, omeprazole 20-40mg BD, pantoprazole 40mg BD, esomeprazole 20mg BD, rabeprazole 20mg BD.^{38D}
- If post gastro-duodenal bleed, start HP treatment only when patient can take oral medication.^{40A+}
- If diarrhoea develops, consider *Clostridium difficile* and review need for treatment.
- Only offer longer duration or third-line eradication on advice from a specialist.^{2D} Third line: 10 days of PPI twice daily, PLUS bismuth subsalicylate 525mg QDS, PLUS 2 antibiotics as above not previously used, OR rifabutin 150mg BD, OR furazolidone 200mg BD.^{31A+,33A+,41A-,42A+,43D}

WHEN SHOULD I RETEST FOR *HELICOBACTER PYLORI*?

- As 64% of patients with functional dyspepsia will have persistent recurrent symptoms, do not routinely offer re-testing after eradication.^{2D}

- if compliance poor, or high local resistance rates^{11D,29B-}
- persistent symptoms, and HP test performed within two weeks of taking PPI, or within four weeks of taking antibiotics^{19A+,20B+,21B+,22C}
- patients with an associated peptic ulcer or MALT lymphoma, or after resection of an early gastric carcinoma^{2D,27D}
- patients requiring aspirin, where PPI is not co-prescribed^{2D}
- patients with severe persistent or recurrent symptoms, particularly if not typical of GORD^{11D,26C}

DO NOT use serology for re-testing^{2D,15A+,16C}

- UBT is most accurate^{15A+,16C}
- SAT is an alternative^{15A+,18A+}

Wait at least four weeks (ideally eight weeks) after treatment.^{11D,19A+} If acid suppression needed use H₂ antagonist.^{39D}

Use second-line treatment if UBT or SAT remains positive^{2D}

WHAT SHOULD I DO IN ERADICATION FAILURE?

- Reassess need for eradication.^{2D} In patients with GORD or non-ulcer dyspepsia, with no family history of cancer or peptic ulcer disease, a maintenance PPI may be appropriate.^{2D,26C}

WHEN SHOULD I REFER FOR ENDOSCOPY, CULTURE AND SUSCEPTIBILITY TESTING?

- Patients in whom the choice of antibiotic is reduced due to hypersensitivity, known local high resistance rates, or previous use of clarithromycin, metronidazole, and a quinolone.^{2A-,11D,28D}
- Patients who have received two courses of antibiotic treatment, and remain HP positive.^{2D,11D,28D}
- For any advice, speak to your local microbiologist, or the *Helicobacter* Reference Laboratory.