

## Managing suspected infectious diarrhoea

### Quick reference guidance for primary care: Appendix A

#### OVERVIEW

- B/C**
- **Acute diarrhoea is usually defined as:** 3 or more episodes a day, <14d and stool takes shape of pot.<sup>1,2,3,4,5 B+, 11 C</sup>
  - **Infectious diarrhoea is common (affecting a quarter of us annually<sup>7B+</sup>) BUT, should be viewed as a differential diagnosis<sup>4</sup>** with other potential causes of diarrhoea as in 60% of diarrhoeal illnesses no infectious agent is found<sup>25</sup>
  - **Most infectious diarrhoea is a self-limited, usually viral illness<sup>3,7 B+</sup>.** Nearly half of episodes last less than one day<sup>2</sup>
  - **If diarrhoea has stopped, culture is rarely indicated unless there is a public health indication<sup>7</sup>**
  - **Do not give empirical antibiotics unless *Clostridium difficile*<sup>13, 16, 27</sup> or *Campylobacter spp.*<sup>20</sup> are suspected.**

#### C WHEN TO SEND A FAECAL SPECIMEN IN CASES OF DIARRHOEA<sup>6,9, 10,11, 12, 26</sup>

- C**
- 1. SYMPTOMS/SIGNS OR CLINICAL INDICATIONS**

  - Patient systemically unwell needs hospital admission and/or antibiotics OR is immunocompromised<sup>26, 31</sup>
  - Blood, mucus or pus in stool.<sup>4</sup>
  - In children who have acute painful, or bloody diarrhoea to exclude verotoxigenic *E.coli* infection including O157.<sup>8, 12</sup>
  - Recent antibiotics<sup>27</sup> PPI or hospitalisation (*C. difficile*)<sup>11, 13</sup>
  - Diarrhoea after "exotic" foreign travel (state countries); you should request ova, cysts and parasites (OCP)<sup>1,2</sup>
  - Specifically when amoebae, *Giardia* or cryptosporidium are suspected<sup>21, 29</sup> especially if there is recurrent or prolonged diarrhoea (over 14 days) or travel to at risk areas.
  - To exclude infectious diarrhoea in the differential diagnosis, e.g. patient has severe abdominal pain, exacerbations of inflammatory bowel disease or irritable bowel syndrome.<sup>4</sup>
  - Request virology where a definitive diagnosis is needed<sup>12,26</sup>

**2. PUBLIC HEALTH INDICATIONS<sup>9, 10, 11, 12</sup>**

  - Suspected food poisoning e.g. barbecue, restaurant, eggs, chicken, shellfish,<sup>9</sup> and give details
  - Diarrhoea in high-risk situations for example: food handlers, health or child care workers, children at nurseries or after farm visits (*E.coli* O157)<sup>8</sup> elderly residents in care homes.<sup>9, 10, 11, 12</sup>
  - Contact with other affected individual or outbreaks of diarrhoea in: care home (norovirus), community, family, etc when isolating an organism may help pinpoint cause.<sup>9</sup>
  - Contacts of patients where there may be serious sequelae<sup>9</sup> (*E.coli* O157 or *C. difficile*)
  - Close household contacts of giardia cases

**WHAT TO SEND (see next page for patient information on how to collect)**  
**Only send loose stools as formed stools will not be examined by the laboratory**  
**To ensure correct tests are performed please include travel & reason for sending sample on laboratory request form**

- C B**
- For routine microbiology investigation send a single specimen. (a quarter full specimen pot is the minimum needed)
  - If the diarrhoea is post exotic foreign travel, prolonged or recurrent, you should give details and specifically request ova, cysts and parasites (OCP) **and** send three specimens at least two days apart,<sup>26B-</sup> as OCP are shed intermittently.

#### INTERPRETING THE LABORATORY REPORT

- B+**
- A bacterial pathogen is found in only 2–5% of specimens submitted.<sup>1,5,7</sup> OCP reported ONLY if looked for.
- C**
- ***Salmonella, shigella, clostridium, campylobacter, E.coli O157 & cryptosporidium*** are routinely sought and reported.<sup>26</sup> As viruses, OCPs, and other uncommon but potential pathogens are not routinely sought a negative report does not mean that all infections have been excluded.<sup>26</sup> e.g. there are no routine methods for detecting enterotoxigenic *E. coli*, the commonest cause of traveller's diarrhoea.

#### ANTIBIOTIC MANAGEMENT OF SUSPECTED AND PROVEN INFECTIOUS DIARRHOEA

- B**
- Antibiotics are not usually recommended for adults with diarrhoea of unknown pathology<sup>19</sup> **The lab will happily advise.**
  - Most patients in whom pathogens are detected including salmonella and shigella will NOT require specific treatment<sup>19</sup> unless systemically unwell or treatment is advised by a microbiologist or consultant in communicable disease control.
- A**
- ***VTEC E. coli* e.g. O157:** Can cause Haemolytic Uraemic Syndrome, recommend urgent referral to secondary care all previously healthy children with acute painful, bloody diarrhoea or confirmed cases. Do *not* give antibiotics for ***E. coli* O157** as increases risk HUS<sup>8,10,12</sup>
- B/C**
- ***Clostridium difficile*:** Discuss with microbiologist. Stop unnecessary antibiotics and/or PPIs to re-establish normal flora. Prescribe 10-14 days metronidazole 400mg oral three times/day. 70% of patients respond after 5 days; 94% in 14 days. Monitor >85 year olds as mortality double.<sup>11, 13, 16</sup>
  - If severe *C. difficile* (characterised by T >38.5; WCC >15; rising creatinine or signs/symptoms of severe colitis), or if recurrent within 30days AND +ve *C. diff* toxin prescribe vancomycin 125mg oral qds for 10-14 days.<sup>13, 16</sup>
- A+**
- ***Campylobacter*:** Antibiotic therapy shortened duration of symptoms by 41 hours: if given within 3 days of illness (course duration 2.4 versus 4.1 days).<sup>20</sup> If still unwell consider clarithromycin 250-500mg oral BD for 5-7days.<sup>24</sup>
- A+**
- ***Giardia lamblia*:** metronidazole 400mg oral TDS for 7-10 days<sup>21, 29, 30 A+</sup> ***Entamoeba histolytica*:** metronidazole 800mg every 8 hours for 5 days followed by diloxanide furoate, 500mg oral TDS for 10 days.<sup>19, 21</sup>
- C**
- ***Blastocystis*, *Cryptosporidium* and *Dientamoeba fragilis*** do not usually require treatment in otherwise healthy adults unless symptoms persist.<sup>21,22,23C</sup>

#### WHEN TO SEND A REPEAT SPECIMEN

- C**
- Usually **unnecessary** unless OCP suspected, or advised by a microbiologist or consultant in public health, e.g. Management of *E. coli* O157 or *Salmonella typhi*, or to confirm clearance in high risk situations above.<sup>9, 12</sup>

**KEY**      **A**      **B**      **C**      **D**      **Indicates grade of recommendation**

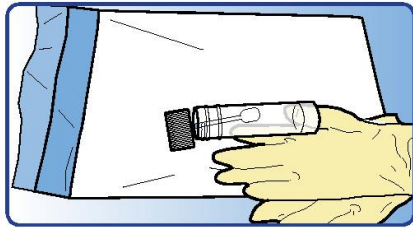
# Stool/Poo Sample Collection Instructions

## Before you start:

You may wish to purchase a pair of disposable plastic gloves from your local supermarket/pharmacist (not essential).

## Step 1

Fill in your name, address and date of birth on the label on the outside bottle using a permanent pen.

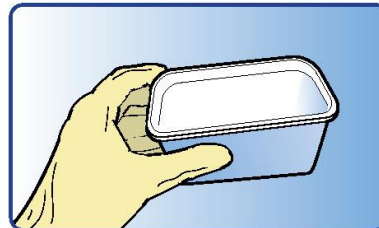


## Step 2

To prevent the poo sample from falling into the toilet either

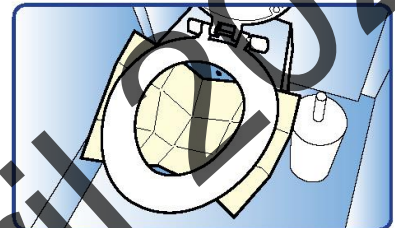
### Option A

Place a wide mouth container (clean empty plastic food container e.g. margarine tub) in the toilet bowl.



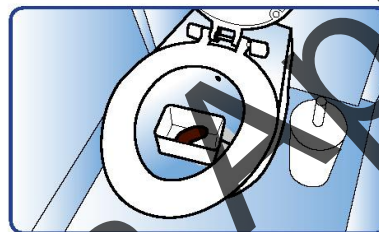
### or Option B

Place clean newspaper over the toilet seat opening under the lid (this might not be suitable for a runny sample).



## Step 3

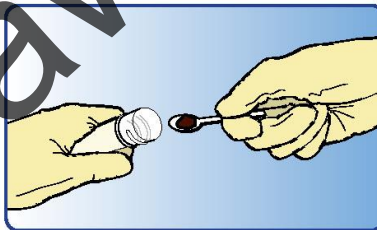
Pass the poo sample either into the container or onto the newspaper.



## Step 4

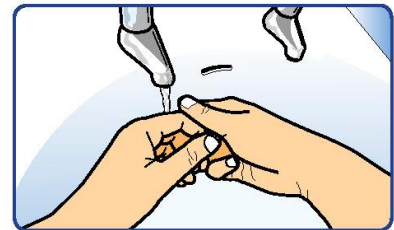
Using the spoon built into the cap of the collection tube, collect small scoops of stool from each end and the middle. **Half fill the tube.** Replace cap and make sure it is tightly closed.

**Disposal:** Dispose of remaining stool down the toilet. Wrap the container or newspaper and gloves in clean newspaper and dispose of in a plastic bag.



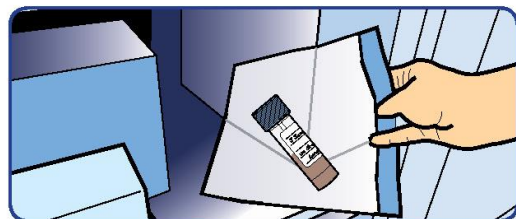
## Step 5

Wash hands with soap and warm water.



## Step 6

Place the sample container in the bag provided and then place the sealed envelope in a cool place until you are able to get to your GP practice or hospital laboratory. **The sample must be returned within 24hrs of collection.**



## Step 7

Please check that your details are still clearly visible on the outside of the collection bottle before returning the sample. If not, ask the receptionist for a new label, write your details on this clearly and stick over the old label.

