



# Cats Protection's guide to diarrhoea procedures

This information is intended to give guidance for vets and Cats Protection staff and volunteers in the treatment of a Cats Protection cat with diarrhoea.

In the shelter environment acute (sudden onset) diarrhoea is often caused by stress, but dietary indiscretion, a change in diet and overfeeding are also common causes.

Consideration should also be given to infectious causes of diarrhoea such as round- or tapeworms, protozoa such as Coccidia and Giardia, viral causes such as feline parvovirus and bacterial causes such as Salmonella and Campylobacter. Infectious diarrhoea may be the result of an existing infectious disease or a reactivated infectious disease due to stress-induced immunosuppression.

Some of the infectious causes of diarrhoea are zoonotic, so particular attention to hygiene for these cats should be made with the implication of barrier nursing and appropriate infectious waste disposal where necessary.

Other causes of diarrhoea, some of which may lead to more chronic disease include, but are not limited to, food allergies, inflammatory bowel disease, neoplasia, disorders of the pancreas, kidney disease, liver disease, hyperthyroidism, drug reactions and FIV/FelV.

## 1. Cats Protection staff and volunteer guidelines

If an otherwise healthy cat has 3 consecutive episodes of diarrhoea (faeces are grade 2 or below as defined by Figure 1: Cats Protection Faeces Grading Chart), monitor the cat closely and start the Diarrhoea Monitoring Chart (Figure 2). When using the Diarrhoea Monitoring Chart there is no need to also record observations on the standard Cats Protection observation chart.

### 1.1 Criteria for when to contact the vet:

- a. The cat is unwell
  - The cat is showing other signs of illness e.g. vomiting, coughing, sneezing
  - The cat is depressed
  - The cat is very underweight
  - The cat has no appetite
- b. The cat is on medication for another condition or has another condition
- c. The cat is on a special diet for reasons other than a sensitive stomach or obesity
- d. The cat is under 8 weeks old

### 1.2 Cats Protection diarrhoea management protocol for weaned cats and kittens

Please refer to Figure 3: Diarrhoea Flow Chart

- a. Give 5 days Fenbendazole wormer (e.g. Panacur) at 50 mg/kg (If using paste, dose is 1 graduation per kg. Check dosing with the vet). Still give this 5 day course if the cat has had a course of Fenbendazole as part of routine deworming. If the cat is in the middle of a 3 day course of treatment, extend it to 5 days.



- b. Give up to 7 days of our preferred probiotic ( ½ sachet daily for adults, a 'pinch' daily for kittens and mix into the food well.
- c. Feed 3 small meals a day of a wet or dry commercial intestinal (sensitivity-type) diet as per manufacturer's recommendations and cat preference.

One of the following commercial diets should be chosen:

- Purina Proplan EN gastrointestinal (suitable for kittens)
- Hills i/d (provides complete balanced nutrition for adult cats and for growing kittens and is suitable for long term feeding)
- Royal Canin Gastrointestinal

**Record all observations on Figure 2: Diarrhoea Monitoring Chart. The vet will need this information if the cat does not respond to this initial stage of diarrhoea management.**

### 1.3 How to wean back to normal food after the diarrhoea improves

Day 1: Feed  $\frac{3}{4}$  intestinal diet,  $\frac{1}{4}$  normal

Day 2 & 3: Feed  $\frac{1}{2}$  intestinal diet,  $\frac{1}{2}$  normal

Day 4 & 5: Feed  $\frac{1}{4}$  intestinal diet,  $\frac{3}{4}$  normal

Day 6: Feed normal food and normal number of meals

If no improvement is seen after 5 days or, if at any time, the cat meets any of the criteria in Section 1.1, please ensure the cat is seen by the vet.

Continue using the diarrhoea monitoring chart until the cat sees the vet.

Bring a fresh faecal sample or a photo of the faeces to the exam as well as the Diarrhoea Monitoring Chart.

If the vet does faecal testing and a potentially zoonotic agent is identified, consult the table in Figure 4: Managing Common Feline Diarrhoeal Agents in Cats in Cats Protection Care – FOR VETS to see whether the new owner should be provided with a handout.

## 2. Vet guidelines

### 2.1 Cats Protection staff or volunteers will present a cat with diarrhoea to you if:

1. It is also unwell
2. It is otherwise well, but is on medication for another condition/has another condition or is on a special diet for reasons other than a sensitive stomach or obesity or is under 8 weeks old
3. It has been otherwise well and has been managed for 5 days via the Cats Protection diarrhoea management protocol, but hasn't responded to the treatment i.e. it still has diarrhoea.



The Cats Protection diarrhoea protocol is:

1. Five day treatment with Fenbendazole,
  2. Five to seven day treatment with Probiotic
  3. Feeding a commercial intestinal diet
  4. Monitoring using the diarrhoea monitoring chart
4. The diarrhoea resolved with the Cats Protection diarrhoea protocol, but it relapsed on weaning back to normal food.

When a cat is presented to you at this stage, staff or volunteers should also provide you with a recent photo or a sample of the cat's faeces and the completed diarrhoea monitoring chart.

## 2.2 Diagnostics

When presented with a diarrhoeic cat, please carry out a full clinical exam and on the basis of this decide if targeted diagnostic testing is warranted.

Approximately 90% of acute diarrhoea is self-limiting and therefore it is often appropriate to treat these cases symptomatically, reserving diagnostic work-ups for cats that relapse, are systemically unwell or are suffering from chronic diarrhoea.

If an infectious cause is suspected, barrier nursing should be implemented if this has not already been done. Staff and/or volunteers should be made aware of the risks of zoonotic disease and the approach needed when handling the affected cat, food bowls and litter trays.

Please use Figure 4: Managing Common Feline Diarrhoeal Agents in Cats in Cats Protection Care – FOR VETS for guidance on diagnostics for infectious agents.

## 2.3 Treatment

Approximately 90% of acute diarrhoea is self-limiting and it is therefore often appropriate to treat these cases symptomatically.

If an infectious agent is suspected or has been identified by laboratory testing, Figure 4: Managing Common Feline Diarrhoeal Agents in Cats in Cats Protection Care – FOR VETS can be used to guide approach to treatment that is targeted to the infectious agent in question.

If an infectious agent has been identified by diagnostic testing and the treatment has been successful, please do not perform post-treatment testing as it is not indicated at this stage. This includes potentially zoonotic agents that may have been identified. In these cases, Cats Protection will advise the owner of the relative risks and provide a handout on zoonotic disease.

If you require further guidance on acute, chronic or non-responsive diarrhoea, please contact the Veterinary Department.



# Poo grading chart

## Grade 1

Liquid, watery faeces



## Grade 2

Mostly unformed stools; watery faeces with lumps



## Grade 3

Approximately 50% formed stools in softer stools



## Grade 4

Mostly formed stools with a very small amount of softer stool



## Grade 5

All firm, well-formed stools



## Grade 6

Small, very hard faecal pellets





## Figure 2: Diarrhoea monitoring chart

Date chart started	
Cat's name	
Cat-a-log number	
Age	
Date last wormed	
Any medical conditions	
Medication	
Prescription diet	

- Start this chart after 3 episodes of Grade 1 or 2 faeces are noted. Use 1 chart per litter of kittens in a pen.
- If the cat is on medication or a prescription diet then please ensure the cat is seen by your vet.
- If the cat becomes unwell such as decreasing appetite, vomiting, diarrhoea worsening, then please ensure the cat is seen by your vet.
- Please note that the grey boxes in the table means no entry needs to be made into these for those days indicated.

Day	Diarrhoea description				Weight (kg)	Name of food offered and state wet or dry	Eaten (Y/N)	Drinking (approx ml/day)*	Vomiting (Y/N)	Fenben dazole given (Y/N)	Probiotic given (Y/N)
	Colour	Blood or mucus )B/M)	Grade (1-6)	Frequency per day							
1							am -				
							mid -				
							pm -				
2							am -				
							mid -				
							pm -				
3							am -				
							mid -				
							pm -				



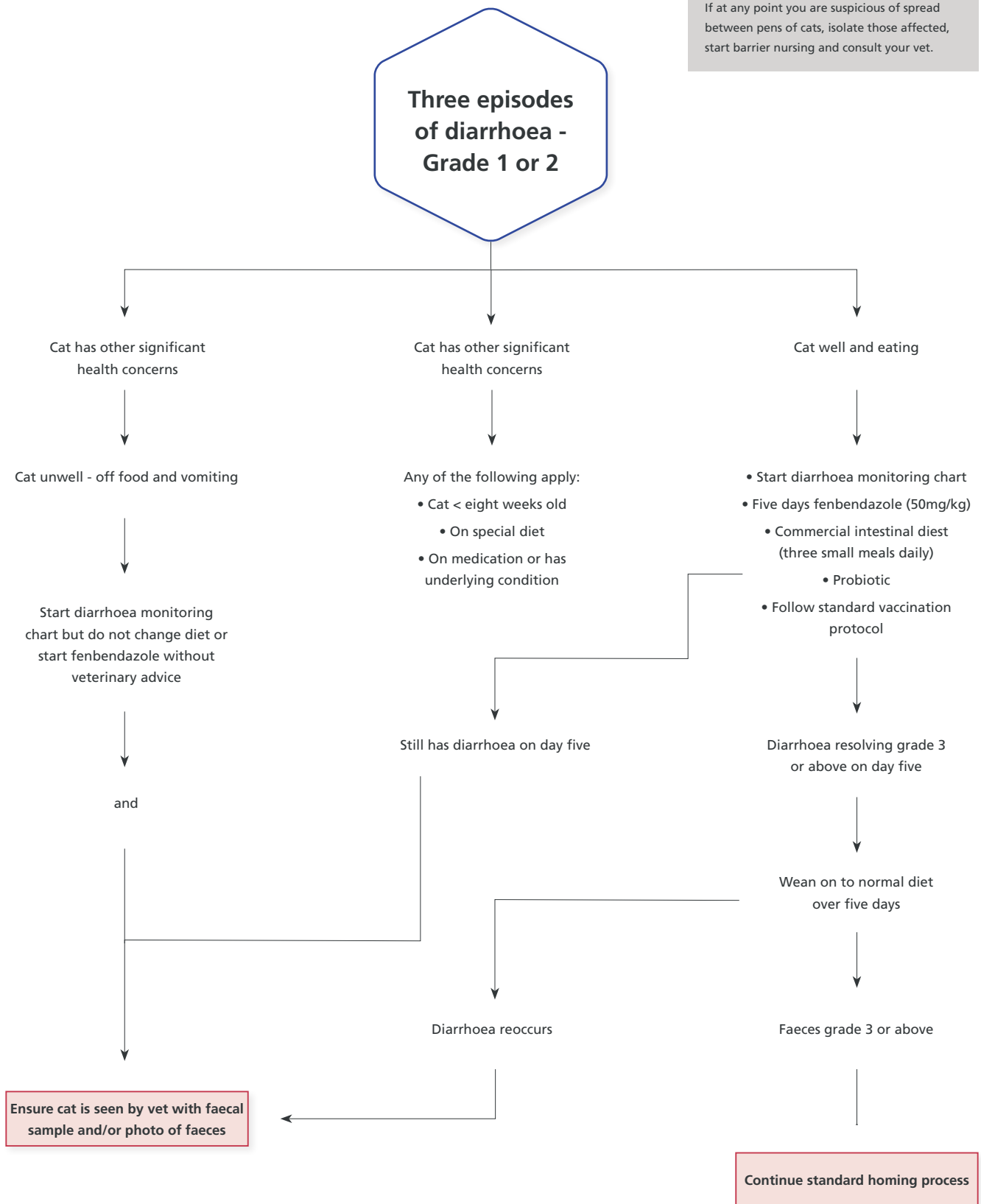
Day	Diarrhoea description				Weight (kg)	Name of food offered and state wet or dry	Eaten (Y/N)	Drinking (approx ml/day)*	Vomiting (Y/N)	Fenben dazole given (Y/N)	Probiotic given (Y/N)
	Colour	Blood or mucus )B/M)	Grade (1-6)	Frequency per day							
4							am -				
							mid -				
							pm -				
5							am -				
							mid -				
							pm -				
6							am -				
							mid -				
							pm -				
7							am -				
							mid -				
							pm -				



# Figure 3: Diarrhoea flow chart

If at any time a cat seems unwell e.g. off food, vomiting, losing weight ensure the cat is seen by a vet- see section 1.1 of the diarrhoea protocol for more details

If at any point you are suspicious of spread between pens of cats, isolate those affected, start barrier nursing and consult your vet.





## Figure 4 - Managing common feline diarrhoeal agents in cats in Cats Protection care - for vets

### Points to remember

It is understood that a confirmed diagnosis will not always be sought for diarrhoea in a shelter cat.

The following table (Figure 4) is designed to help with the management of diarrhoea cases in Cats Protection cats where a laboratory diagnosis has been obtained or in some cases where there is a strong suspicion of the presence of a specific causative agent.

If an infectious agent has been identified by diagnostic testing and the treatment has been successful, please do not perform post-treatment testing as it is not indicated at this stage. This includes potentially zoonotic agents that may have been identified. In these cases, Cats Protection will advise the owner of the relative risks and provide a handout on zoonotic disease.

**The Cats Protection zoonotic diarrhoea handout should only be used if diagnosis of the specific agent has been confirmed by laboratory testing.**

Agent	Incubation/pre-patent period	Shedding pattern	Environmental control	Diagnosis	Specific treatment indicated?	Likelihood of transmission to people	Home with Cats Protection zoonotic diarrhoea handout?*
<i>Cryptosporidium spp.</i> (coccidia)  usually <i>C. felis</i>	Shed infective oocysts 3-6 days after infection.	Intermittent	Resistant to bleach. Clean bowls and trays with boiling water.	Faecal smear with Giemsa or modified Ziehl-Neelsen stain  Avoid faecal ELISA, PCR	Not usually, is often secondary to other agents	Very low risk as most cats infected with <i>C. felis</i> . ( <i>C. parvum</i> is the zoonotic species)	YES
<i>Isospora spp.</i> (coccidia)  <i>I. rivolta</i> and <i>I. felis</i>	Prepatent period 4 - 11 days depending on species.	Intermittent. Can be asymptomatic. Can be shed for up to 9 weeks after treatment	Resistant.  Cysts infectious 8 - 36 hours and requires humidity and temperatures of 20 - 37°C.  Frequent litter tray changes. Clean infected cats' coat/perineum.	ZnSO <sub>4</sub> faecal flotation test. May also be diagnosed on direct examination of a faecal smear.  If significant will see high levels.	Sometimes. Is usually self-limiting. Treat if clinical signs warrant or to manage potential spread within an establishment. Sulfadimethoxine 50 mg/kg orally q24h for 10-14 days or Trimethoprim/sulphonamide 15 mg/kg orally q24h for 10-14 days	Not zoonotic	





Agent	Incubation/pre-patent period	Shedding pattern	Environmental control	Diagnosis	Specific treatment indicated?	Likelihood of transmission to people	Home with Cats Protection zoonotic diarrhoea handout?*
<i>Toxoplasma gondii</i> (coccidia)	Shed 3 days after infection. Oocysts infective 24 hr after passed.	Continuous, shed for up to 20 days	Oocysts survive in soil and water 18 months  Use boiling water, iodine, bleach.	Rare to find oocyst in faeces.  Serology used for clinical cases	Rarely causes diarrhoea in the cat, treat only if systemic infection	Low, only shed oocysts in faeces at 1st infection, for limited time	YES
<i>Giardia spp.</i>  Usually <i>G. duodenalis</i> assemblage F in cats	Shed infective cysts 3-25 days (usually 7-10 days) after infection. Cysts immediately infective.	Intermittent	QAC or 1:32 bleach. Allow surfaces to dry	First choice is microscopic examination - direct faecal smear for trophozoites; ZnSo4 faecal centrifugation for cysts  Avoid faecal Ag tests, e.g. ELISA	Yes  Oral fenbendazole 50mg/kg q24h, 5-7 days +/- metronidazole 25 mg/kg orally q12h for 7 days	Debatable – people usually infected with assemblages A and B. Some cats are infected with assemblage A	YES
<i>Tritrichomonas foetus</i>	8-10 days	Intermittent	Only survives 2 hr in environment. Routine hygiene	Direct faecal smear if fresh (<2 hr) sample, faecal culture, faecal PCR	Yes  Oral fenbendazole 50 mg/kg q24h for 5 days + metronidazole orally 10 mg/kg q12h for 14 days or  Ronidazole 30–50 mg/kg q24h for 2 weeks. <b>Not licensed.</b> Use lower dose and q12h in kittens.	Low, mainly only in immunosuppressed person	NO



Agent	Incubation/pre-patent period	Shedding pattern	Environmental control	Diagnosis	Specific treatment indicated?	Likelihood of transmission to people	Home with Cats Protection zoonotic diarrhoea handout?*
<b>Roundworm</b>  <i>Toxocara cati</i> , <i>Toxascaris leonina</i>	<i>T. cati</i> approx. 6 weeks;  <i>T. leonina</i> 13 weeks		Survives > 1 yr in environment. Can use extreme temperatures, dessication and UV light to control.	Faecal flotation	Yes  Pyrantel 20 mg/kg orally, repeated after 3 weeks or,  Fenbendazole 50 mg/kg orally q24h for 3 days or,  Selamectin 6 mg/kg topically monthly or,  Moxidectin minimum dose 0.1 mg/kg topically monthly or,  Milbemycin minimum 2 mg/kg orally, single dose	Low to medium depending on degree of de-worming prophylaxis	NO
<b>Hookworm</b>  <i>Ancylostoma tubaeforme</i>	15-17 days		As for roundworms	Faecal flotation	Yes  Fenbendazole 50 mg/kg orally q24h for 3 days or a single dose of 100 mg/kg orally or,  Pyrantel 10 mg/kg orally single dose or,  Selamectin or,  Moxidectin or,  Milbemycin as per roundworm	Very low as the agent is very rarely found in UK cats	NO



Agent	Incubation/pre-patent period	Shedding pattern	Environmental control	Diagnosis	Specific treatment indicated?	Likelihood of transmission to people	Home with Cats Protection zoonotic diarrhoea handout?*
<i>Escherichia coli</i>  Various strains, not all are zoonotic		Continuous	Usually survives a week. Use QAC, inorganic peroxygen or bleach	Culture plus determination of virulence (biochemical assays or PCR)	Only if severe clinical signs, no other pathogens and signs of systemic involvement	Depends on the strain	YES
<i>Salmonella spp.</i>  Various serovars, not all are zoonotic. <i>S. typhimurium</i> most common		Continuous	Use bleach or QAC	Culture	Only if systemic infection	Low, transmission to people from cats is rarely documented	YES
<i>Clostridium difficile</i>		Continuous	Spores last long time. Use 1:10 bleach	Culture plus faecal ELISA for toxin A and B	Only if ill (most cats that test positive are not ill)	Very low, theoretically possible, but not proven	NO
<i>Campylobacter spp.</i>  Usually <i>C. upsaliensis</i>		Continuous	Relatively hardy. Survives well in water, faeces, resists freezing. Use QAC, bleach or inorganic peroxygen	S-shaped organisms in faecal smear and culture	If mild signs, treatment may not be necessary, use antibiotics with caution	Medium, infective dose for people is low, <i>C. jejuni</i> is zoonotic species	YES