

ASCARIASIS (ROUNDWORMS)

Subjective

History of passage of adult worm, round and pinkish-white, often no symptoms

May have symptoms of:

- Abdominal pain
- Nausea and vomiting
- Anorexia
- Weight loss
- Pica
- Persistent cough, fever, blood tinged sputum
- Choking

Objective

Laboratory confirmation of roundworm infestation from stool specimen, OR visual observation of roundworm in stool or vomitus; There is no useful blood test.

Assessment

Ascariasis (Roundworms)

Plan

Pyrantel Pamoate, 11mg base/kg, once daily for 3 consecutive days.

Pyrantel Dosing - Single Dose			
Weight		Chewable Tablets (250mg Pyrantel base/chewable tablet)	Suspension (50mg Pyrantel base/ml)
25 to 37 lbs	11 to 16 kg	1/2	2.5 ml
38 to 62 lbs	17 to 28 kg	1	5 ml
63 to 87 lbs	29 to 39 kg	1 & 1/2	7.5 ml
88 to 112 lbs	40 to 50 kg	2	10 ml
113 to 137 lbs	51 to 62 kg	2 & 1/2	12.5 ml
138 to 162 lbs	63 to 73 kg	3	15 ml
163 to 187 lbs	74 to 84 kg	3 & 1/2	17.5 ml
188 lbs or more	85 kg or more	4	20 ml

NOTE: DO NOT GIVE TO CHILDREN UNDER TWO YEARS OLD, PREGNANT OR POSSIBLY PREGNANT, OR BREAST-FEEDING WOMEN WITHOUT SPECIFIC AUTHORIZATION OF A PHYSICIAN

Family members submit specimen and treat as indicated

Health Teaching

Avoid contacting soil that may be contaminated

Sanitary disposal of diapers and feces; cleaning of toilet seat; attention to children's play areas

Wash hands before eating, preparing food, and after elimination; keep nails short

Discourage eating food that has been dropped on the floor, or is unwashed from the garden; wash, peel or cook raw fruits and vegetables before eating.

Referral Indicators

No response to treatment

Children under two years of age

Pregnant or breast-feeding women

Pulmonary involvement

Abdominal pain

Follow-Up

Patient/parent will be asked to contact health provider if reoccurrence of symptoms after second treatment

Reference

CDC.gov; Ascarius Infection; September 2012.

UpToDate.com; Pyrantel Pamoate: pediatric drug information; September 2012.

Quartzpharmaceuticals.com; Pin-x-overview; September 2012.

ENTEROBIUS VERMICULARIS (PINWORMS)

Subjective

Rectal itching, especially at night
 Heavy infestations may cause perianal pain and bleeding with defecation
 White threadlike worms may be seen in bowel movements
 Restlessness and irritability
 Nightmares

Objective

Anal area shows evidence of scratching, may have perianal infection
 Using clear tape collection method, ova may be seen microscopically
 Laboratory confirmation of pinworm infestation from stool specimen
 Visual observation of pinworm

Assessment

Enterobius Vermicularis (Pinworms) or Enterobiasis

Plan

Pyrantel Pamoate, 11 mg pyrantel base/kg, given as a single dose with a maximum of 1 gm/single dose.

Pyrantel Dosing - Single Dose			
Weight		Chewable Tablets (250 mg Pyrantel base/chewable tablet)	Suspension (50 mg Pyrantel base/ml)
25 to 37 lbs	11 to 16 kg	<u>1/2</u>	2.5 ml
38 to 62 lbs	17 to 28 kg	1	5 ml
63 to 87 lbs	29 to 39 kg	1 & 1/2	7.5 ml
88 to 112 lbs	40 to 50 kg	2	10 ml
113 to 137 lbs	51 to 62 kg	2 & 1/2	12.5 ml
138 to 162 lbs	63 to 73 kg	3	15 ml
163 to 187 lbs	74 to 84 kg	3 & 1/2	17.5 ml
188 lbs or more	85 kg or more	4	20 ml

NOTE: DO NOT GIVE TO CHILDREN UNDER TWO YEARS OLD, PREGNANT OR POSSIBLY PREGNANT, OR BREAST-FEEDING WOMEN

The entire family (immediate household members) should be treated, even if asymptomatic, to prevent reinfestation.

A second treatment should be given in 2 weeks to eliminate possible reinfection.

Health Teaching

Inform that reinfection and recurrence is common and will require retreatment

Sanitary disposal of feces; cleaning of toilet seat

Change bed linens and underwear of infected person daily

Wash soiled laundry in hot water

Wash hands before preparing food, eating, and after elimination; keep nails short

Discourage habits of nail biting and scratching bare anal area

Referral Indicators:

Secondary bacterial infection

No response to treatment

Children under 2 years of age

Pregnant or breast-feeding women

Follow-Up:

Patient/parent will be asked to contact health provider if reoccurrence of symptoms after second treatment

Reference:

cdc.gov; Enterobius Vericularis Infection – See Pinworm Infection

UpToDate.com; Pyrantel Pamoate: pediatric drug information; September 2012.

quartzpharmaceuticals.com; Pin-x-overview; September 2012.