

Differential Diagnosis-1

A 9-year-old girl with a history of cough, conjunctivitis, and fever (38.3°C [101°F]) now has a macular rash that starts on her face and neck that is spreading to the rest of her body.



Disease	Pathogen	Portal of entry	Symptoms	Method of transmission	Treatment
Measles	Measles virus	Respiratory tract	Rash, face spreading to trunk and extremities		
Rubella	Rubella virus	Respiratory tract	Similar to measles, mild, less extensive rash; disappears in 3 days		
Fifth disease	Parvovirus B19	Respiratory tract	Facial rash		
Roseola	HHV6; HHV7	Respiratory tract	High fever followed by body rash		
Candidiasis	<i>Candida albicans</i>	Skin; mucous membranes	Rash		

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Candidiasis	<i>Candida albicans</i>	Skin; mucous membranes	

Differential Diagnosis-2

Annually, infectious gastroenteritis causes greater than 210,000 children in the United States to be hospitalized and 4-10 million children to die worldwide.

Differential Diagnosis-2

Viral gastroenteritis is an infection caused by a variety of viruses that results in vomiting or diarrhea. It is often called the "stomach flu," although it is not caused by the influenza viruses. For most people, it is not a serious illness. People who get viral gastroenteritis almost always recover completely without any long-term problems.

Differential Diagnosis-2

A 9-year-old girl presents with constipation, stomach bloating, and a skin rash.

Disease	Pathogen	Reservoir	Treatment
Giardiasis	<i>Giardia</i> spp.		
Cryptosporidiosis	<i>Cryptosporidium hominis</i>		
<i>Cyclospora</i> diarrheal infection	<i>Cyclospora cayetanensis</i>		
Amoebic dysentery	<i>Entamoeba histolytica</i>		

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Differential Diagnosis-3

A 9-year-old girl presents with perianal itching.

- Intermediate Host:

- Definitive Host:
 - Monoecious

 - Dioecious

	Pathogen	Symptoms	Intermediate host Definitive host	Diagnostic test	Treatment
Tapeworms	<i>Taenia saginata</i> , <i>T. solium</i> , <i>Diphyllobothrium latum</i>				Praziquantel; albendazole
Hydatid cyst	<i>Echinococcus granulosus</i>				Surgical removal; albendazole
Pinworms	<i>Enterobius vermicularis</i>				Pyrantel pamoate

	Pathogen	Symptoms	Intermediate host Definitive host	Diagnostic test	Treatment
Hookworms	<i>Necator americanus</i> , <i>Ancylostoma duodenale</i>				Mebendazole
Ascariasis	<i>Ascaris lumbricoides</i>				Mebendazole
Trichinellosis	<i>Trichinella spiralis</i>				Mebendazole; corticosteroids
