

## **Infectious Disease:**

Microorganisms are tiny living creatures, such as bacteria and viruses. Microorganisms are present everywhere. Despite their overwhelming abundance, relatively few of the thousands of species of microorganisms invade, multiply, and cause disease in people.

Many microorganisms live on the skin and in the mouth, upper airways, intestine, and genitals (particularly the vagina) without causing disease. Whether a microorganism lives as a harmless companion to a person or invades and causes disease depends on the nature of the microorganism and on the state of the person's natural defenses.

### **Typhoid:**

Typhoid is a bacterial infection caused by two species of *Salmonella*: *Salmonella typhi* and *Salmonella paratyphi*. *Salmonella typhi* resides only in people. *Salmonella paratyphi* resides mainly in people but sometimes in domestic animals.

The bacteria usually infect the digestive tract but can travel through the bloodstream and infect other parts of the body.

<b>Causes</b>	<b>Symptoms</b>	<b>Diagnosis</b>	<b>Treatment</b>
Usually by eating contaminated food like undercooked chicken or eggs.	Nausea	Identifying the bacteria in a sample, usually of stool, confirms the diagnosis.	Antibiotics
	Crampy abdominal pain		
	Watery diarrhea		Lost fluids are replaced
	Fever		
	Vomiting		

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**Pneumonia:**

Pneumonia is caused by the gram-positive bacteria *Streptococcus pneumoniae* (pneumococcus).

Pneumococci commonly reside in the upper respiratory tract of healthy people, their natural host, particularly during the winter and early spring. The bacteria spread to other people when they inhale infected droplets dispersed by sneezing or coughing. Spread is more likely among self-contained groups of people, such as people who live, stay, or work in nursing homes, prisons, military bases, shelters for the homeless, or day care centers.

Causes	Symptoms	Diagnosis	Treatment
Cough and sneezing of infected people	Fever	Based on symptoms	Routine vaccinations
	Cough		
	Cough brings up sputum that becomes rust-colored	X-ray findings	Antibiotics
	General feeling of illness (malaise)	Identification of the bacteria in samples of infected material	
	Chills		
	Sharp, stabbing chest pains occur on one side. Deep breathing and coughing make the pains worse. This pain is called pleurisy.		
	Shortness of breath		
	General unwell feeling		

**Gonorrhea:**

Gonorrhea is a sexually transmitted disease caused by the bacteria *Neisseria gonorrhoeae*, which infect the lining of the urethra, cervix, rectum, and throat or the membranes that cover the front part of the eye (conjunctiva and cornea).

Causes	Symptoms	Diagnosis	Treatment
Usually spread through sexual contact	Discharge from the penis or vagina	Microscopic examination and culture of a sample of the discharge	Antibiotics
	More frequent urination		
		DNA tests of urine	

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**Hepatitis:**

Hepatitis is inflammation of the liver. It commonly results from a virus, particularly one of the five hepatitis viruses — A, B, C, D, or E.

Hepatitis can be acute (short-lived) or chronic (lasting at least 6 months). It is common throughout the world.

<b>Causes</b>	<b>Symptoms</b>	<b>Diagnosis</b>	<b>Treatment</b>
Sexual contact	Poor appetite	Physical examination	Vaccination
Using infected needle	Nausea		
Toothbrushes, razors, or other items that could get blood on them and be contaminated	Vomiting	Blood samples to analyze	Interferons
	Fever		
	Pain in the upper right abdomen		
	Jaundice		

**Otitis Media:**

Otitis media is a bacterial or viral infection of the middle ear.

Acute otitis media is more common among children than adults.

<b>Causes</b>	<b>Symptoms</b>	<b>Diagnosis</b>	<b>Treatment</b>
Common cold	Pain	Physical examination	Antibiotics
Allergies	Red, bulging eardrum		

**Pyelonephritis:**

Pyelonephritis is a bacterial infection of one or both kidneys.

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Causes	Symptoms	Diagnosis	Treatment
Infection can spread up the urinary tract to the kidneys	Chills	Urine tests	Antibiotics
	Back pain		
Kidneys may become infected through bacteria in the bloodstream	Fever	Blood tests	
	Nausea		
	Vomiting		

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