Onset, Duration, and Symptoms of Foodborne Illness

Approximate onset time to symptoms	Predominant symptoms	Associated organism or toxin		
Upper gastrointestinal tract symptoms (nausea, vomiting) occur first or predominate				
Less than 1 h	Nausea, vomiting, unusual taste, burning of mouth.	Metallic salts		
1-2 h	Nausea, vomiting, cyanosis, headache, dizziness, dyspnea, trembling, weakness, loss of consciousness.	Nitrites		
1-6 h mean 2-4 h	Nausea, vomiting, retching, diarrhea, abdominal pain, prostration.	Staphylococcus aureus and its enterotoxins		
8-16 h (2-4 h emesis possible)	Vomiting, abdominal cramps, diarrhea, nausea.	Bacillus cereus		
6-24 h	Nausea, vomiting, diarrhea, thirst, dilation of pupils, collapse, coma.	Amanita species mushrooms		
Sore throat and respiratory symptoms occur				
12-72 h	Sore throat, fever, nausea, vomiting, rhinorrhea, sometimes a rash.	Streptococcus pyogenes		
2-5 days	Inflamed throat and nose, spreading grayish exudate, fever, chills, sore throat, malaise, difficulty in swallowing, edema of cervical lymph node.	Corynebacterium diphtheriae		
Lower gastrointestinal tract symptoms (abdominal cramps, diarrhea) occur first or predominate				

2-36 h, mean 6- 12 h	Abdominal cramps, diarrhea, putrefactive diarrhea associated with <i>C. perfringens</i> , sometimes nausea and vomiting.	Clostridium perfringens, Bacillus cereus, Streptococcus faecalis, S. faecium		
12-74 h, mean 18-36 h	Abdominal cramps, diarrhea, vomiting, fever, chills, malaise, nausea, headache, possible. Sometimes bloody or mucoid diarrhea, cutaneous lesions associated with V. vulnificus. Yersinia enterocolitica mimics flu and acute appendicitis.	Salmonella species (including S. arizonae), Shigella, enteropathogenic Escherichia coli, other Enterobacteriacae, Vibrio parahaemolyticus, Yersinia enterocolitica, Aeromonas hydrophila, Plesiomonas shigelloides, Campylobacter jejuni, Vibrio cholerae (O1 and non-O1) V.vulnificus, V. fluvialis		
3-5 days	Diarrhea, fever, vomiting abdominal pain, respiratory symptoms.	Enteric viruses		
1-6 weeks	Mucoid diarrhea (fatty stools) abdominal pain, weight loss.	Giardia lamblia		
1 to several weeks	Abdominal pain, diarrhea, constipation, headache, drowsiness, ulcers, variable often asymptomatic.	Entamoeba histolytica		
3-6 months	Nervousness, insomnia, hunger pains, anorexia, weight loss, abdominal pain, sometimes gastroenteritis.	Taenia saginata, T. solium		
Neurological symptoms (visual disturbances, vertigo, tingling, paralysis) occur				
Less than 1 h	*** SEE GASTROINTESTINAL AND/OR NEUROLOGIC SYMPTOMS (Shellfish Toxins) (this Appendix)	Shellfish toxin		
	Gastroenteritis, nervousness, blurred vision, chest pain, cyanosis, twitching, convulsions.	Organic phosphate		

	Excessive salivation, perspiration, gastroenteritis, irregular pulse, pupils constricted, asthmatic breathing.	Muscaria-type mushrooms		
	Tingling and numbness, dizziness, pallor, gastro- hemmorrhage, and desquamation of skin, fixed eyes, loss of reflexes, twitching, paralysis.	Tetradon (tetrodotoxin) toxins		
1-6 h	Tingling and numbness, gastroenteritis, dizziness, dry mouth, muscular aches, dilated pupils, blurred vision, paralysis.	Ciguatera toxin		
	Nausea, vomiting, tingling, dizziness, weakness, anorexia, weight loss, confusion.	Chlorinated hydrocarbons		
2 h to 6 days, usually 12-36 h	Vertigo, double or blurred vision, loss of reflex to light, difficulty in swallowing. speaking, and breathing, dry mouth, weakness, respiratory paralysis.	Clostridium botulinum and its neurotoxins		
More than 72 h	Numbness, weakness of legs, spastic paralysis, impairment of vision, blindness, coma.	Organic mercury		
	Gastroenteritis, leg pain, ungainly high-stepping gait, foot and wrist drop.	Triorthocresyl phosphate		
Allergic symptoms (facial flushing, itching) occur				
Less than 1 h	Headache, dizziness, nausea, vomiting, peppery taste, burning of throat, facial swelling and flushing, stomach pain, itching of skin.	Histamine (scombroid)		
	Numbness around mouth, tingling sensation, flushing,	Monosodium glutamate		

Generalized infection 4-28 days, mean Ga	ushing, sensation of warmth, ching, abdominal pain, puffing face and knees. a symptoms (fever, chills, malais lymph nodes) occur astroenteritis, fever, edema out eyes, perspiration,			
Generalized infection 4-28 days, mean Ga	ching, abdominal pain, puffing face and knees. a symptoms (fever, chills, malais lymph nodes) occur astroenteritis, fever, edema	se, prostration, aches, swollen		
4-28 days, mean Ga	lymph nodes) occur astroenteritis, fever, edema			
, ,				
mu	uscular pain, chills, prostration, pored breathing.	Trichinella spiralis		
14 days nau	alaise, headache, fever, cough, usea, vomiting, constipation, dominal pain, chills, rose spots, oody stools.	Salmonella typhi		
10-13 days Fe	ever, headache, myalgia, rash.	Toxoplasma gondii		
25-30 days and	orexia, nausea, abdominal in, jaundice.	Etiological agent not yet isolated probably viral		
(depends on specific illness) pro	ever, chills, head- or joint ache, ostration, malaise, swollen mph nodes, and other specific mptoms of disease in question.	Bacillus anthracis, Brucella melitensis, B. abortus, B. suis, Coxiella burnetii, Francisella tularensis, Listeria monocytogenes, Mycobacterium tuberculosis, Mycobacterium species, Pasteurella multocida, Streptobacillus moniliformis, Campylobacter jejuni, Leptospira species.		
Gastrointestinal and/or Neurologic Symptoms - (Shellfish Toxins)				
dro	ngling, burning, numbness, owsiness, incoherent speech, spiratory paralysis	Paralytic Shellfish Poisoning (PSP) (saxitoxins)		
2-5 min to 3-4 h Re	eversal of hot and cold	Neurotoxic Shellfish Poisoning		

	sensation, tingling; numbness of lips, tongue & throat; muscle aches, dizziness, diarrhea, vomiting	(NSP) (brevetoxins)
30 min to 2-3 h	Nausea, vomiting, diarrhea, abdominal pain, chills, fever	Diarrheic Shellfish Poisoning (DSP) (dinophysis toxin, okadaic acid, pectenotoxin, yessotoxin)
24 h (gastrointestinal) to 48 h (neurologic)	Vomiting, diarrhea, abdominal pain, confusion, memory loss, disorientation, seizure, coma	Amnesic Shellfish Poisoning (ASP) (domoic acid)