

DIARRHEA

Definition	<ul style="list-style-type: none"> - 3 or more loose or liquid stools per day - Abnormally high fluid content of stool (> 200-300 gm/day) (normal=100) 		
Fecal osmolarity	<ul style="list-style-type: none"> -normal: = serum osmolality (290 mOsm/kg). -normal stool osmotic gap: (< 100 mOsm/kg) 		
Classification	1.Acute	2 weeks	
	2.Persistent	2 to 4 weeks	
	3.Chronic	4 weeks in duration	
Categories	1. Secretory	<ul style="list-style-type: none"> -cause: ↑active secretion - High stool output - NO response to fasting -Normal stool osmotic gap (< 100 mOsm/kg) -bacterial toxin (E. coli , cholera) + Endocrine tumours <small>�性*</small> 	
	2. Osmotic	<ul style="list-style-type: none"> -cause: ↓absorbed substances “malabsorption” -normal stool output - Improve by Fasting -High stool osmotic gap (> 125 mOsm/kg) -lactose intolerance + osmotic laxatives. <small>性*</small> 	
	3. Exudative (inflammatory)	<ul style="list-style-type: none"> -cause: inflamed or ulcerated mucosa - blood and pus in the stool. <small>性*</small> - NO response to fasting -inflammatory bowel diseases + invasive infections. 	
	4. Motility-related	<ul style="list-style-type: none"> -cause: rapid movement of food through the intestines (hypermotility). -Irritable bowel syndrome (IBS) 	
Aetiology	Acute diarrhea	Infections Most common	VGE Most common Rotavirus Most common (hospitalizations- under 5)
		Food poisoning	
		Drugs	Antibiotic -Associated Diarrheas broad-spectrum> Clostridium difficile
	Chronic diarrhea	<ul style="list-style-type: none"> • Infection: e.g.Giardia lamblia . AIDS • Post-infectious: Following acute infections • Malabsorption • Inflammatory bowel disease (IBD) • Endocrine diseases. • Colon cancer • Irritable bowel syndrome. 	
Complications	<p>Fluids → Dehydration Electrolytes → Electrolytes imbalance Sodium bicarbonate → Metabolic acidosis If persistent → Malnutrition</p>		
Tests	Acute diarrhea	Fecal leukocytes > present> Inflammatory Diarrhea> mucosa damage Fecal leukocytes > <u>not</u> present> <u>non</u> -inflammatory Diarrhea> <u>no</u> mucosa damage	
	Chronic diarrhea	Stool analysis (Ova, parasites) > + > Infection Stool fat test > + > Malabsorption Stool fat test > - > Secretory or Noninfectious inflammatory diarrhea	