Acute Gastroenteritis*	
Presentation	Diarrhea (3+ loose/watery stools per day), vomiting, fever, anorexia, cramping. Common, 2 episodes/ year on avg in children < 5.
Pathophys	• Viruses (rotavirus, norovirus, enteric adenovirus, calicivirus, astrovirus, enterovirus) are major cause → low-grade fever, vomiting, watery diarrhea WITHOUT blood. • Bacteria (SSYCE +C.Diff) cause infiltration of mucosal lining → fever, abdominal pain, bloody stools, positive stool leukocytes • Parasitic (Giardia, Cryptosoporidia, Cyclospora, E. histolytica)
Treatment	 Dehydration score determines management. If severe, obtain POC BG + lytes and start IVF. Otherwise, oral rehydration solution, e.g. Pedialyte or ½ strength apple juice (theoretical risk that high osmolality fluids will worsen diarrhea and hypoNa fluids will lead to hypoNa, but one RCT demonstrated improved outcomes w/ ½ strength apple juice b/c Pedialyte = not tasty.) No evidence for bowel rest or bland diet.

	Infectious Hepatitis	
Hepatitis A		
Transmission	Fecal-oral, blood	
Epi	High in Mexico, S. America, Africa, Asia	
Incubat	2-8 wks	
Prophylaxis	HepA Vaccine. pre- / post-exposure with polyclonal IgG	
Treatment	Supportive Vit K for coagulopathy	
Prognosis	Usually self-limiting	
Hepatitis B		
Transmission	Blood, sex, maternal-fetal (90% vertical transmission rate, but infants almost always become chronic carriers ; OK to breastfeed)	
Epi	 1-2% in US Higher in Asia and South America 10-20% in China, sub-Saharan Africa 	
Incubat	1-4 mo	
Prophylaxis	Post-exposure with HBIg and HBV vaccine within 12 hours (newborns born to HBV+, needlesticks)	
Treatment	• Entecavir • Tenofovir • Peginterferon alfa-2a • IFNa: 20-50% will seroconvert, but lots of systemic side effects • Lamivudine: high rate of resistance	
Prognosis	 Self-limited or progression to chronic HBV/carrier status (esp. neonates) Cirrhosis in 3% Increased risk of hepatocellular CA (yearly RUQ ultrasound, AFP level) 	
Serologies	HBsAg (surface antigen): indicative of acute infection, disappears in 3-6 months HBsAg for >6 months: carrier state HBsAg (secretory protein) and HBV DNA by PCR suggest active viral replication IgM anti-HBc (antibody to core protein): secondary indicator of acute infection HBsAb (antibody to surface protein): neutralizing antibody, suggests recovery or response to HBV vaccine	