Hepatic Encephalopathy

alteration in mental status and cognitive function occurring in the presence of liver failure

Sharon spring 3rd year Medical student, 4 year program, TAU, internal b department, Sheba medical center • Pathophisiology: Gut-derived neurotoxins that are not removed by the liver because of vascular shunting and decreased hepatic

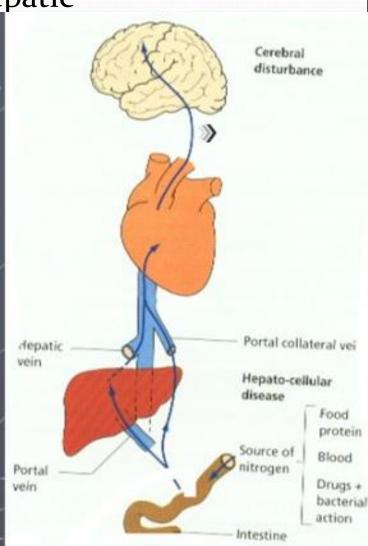
mass get to the brain and cause the symptoms that we know of as hepat encephalopathy

Neurotoxins:

- Ammonia
- GABA
- Short chain fatty acids
- Benzodiazepine like compounds
- false neurotransmitters
- mercaptans

precipitating events:

- increased dietary protein load
- Infection
- electrolyte disturbances
- GI bleeding
- Dehydration



Clinical features

- Disturbance in higher neurologic function
- Disturbance in neuromuscular function
- Rarely- Parkinson like syndrome and progressive paraplegia

staging

ביטוי קליני	שלב	
אפאתיה	I	
חוסר מנוחה		
היפוך מחזור השינה		
אינטלקט מואט		
יכולת חישובית מופחתת		
כתיבה פגועה		
לתרגיה	II	
עייפות		Recognizing asterixis In asterixis, the patient's wrists and fin-
דיס-אוריינטציה		gers are observed to "flap" because of a brief, rapid relaxation of wrist dorsiflex- ion.
אסטריקסיס		
סטופור (שניתן להעירו)	III	
רפלקסים היפראקטיביים, תגובות פלנטריות		
אקסטנסוריות		
תרדמת (תגובה לגירוי כואב בלבד)	IV	

Complication: Cerebral herniation caused by brain edema associated with swelling of the gray matter

treatment

- Management of participating factors
- replacing animal-based protein with vegetable-based protein
- Lactulose
- neomycin and metronidazole, rifaximin
- Zinc