Liver pathology 1& 2 Done by: Shahed Atiyat The parenchyma is organized into plates of hepatocytes The liver is composed of many lobules, each lobule has 6 acini, each acinus has 3 zone Hepatocytes are radially oriented around terminal hepatic vein Microvesicular (Causes ALD, Reye syndrome, Acute fatty change of 1. General info. about the structure (central vein) 4. Types of pregnancy) Hepatocytes show only minimal variation in the overall size Steatosis Macrovesicular (Causes DM, Obese) The nuclei may vary in the size and number epically with advanced age Lose of (80%-90%) of hepatic function Definition Between the cords of hepatocytes the are vascular sinusoids Massive hepatic necrosis Chronic liver disease 5. Hepatic failure Zone 1 (periportal zone) Reye syndrome 2. The zones Zone 2 (mid zone) Tetracycline toxicity Causes Hepatic dysfunction without overt cirrhosis Zone 3 (pericentral zone) Acute fatty change of pregnancy Inflammation (Hepatitis) Hepatorenal Definition irregular clumped cytoplasm showing large, clear Liver pathology 1 syndrome spaces Ballooning degeneration Viral hepatitis (50-65%) Accumulation of substances in viable hepatocytes Acetaminophen Steatosis (fatty change) Halothan Ductular proliferation Anti TB drugs Drugs and chemicals Coagulative necrosis (around CV) 6. Massive CCL4 drugs Depending on the type Lytic necrosis hepatic Mushroom poisoning Councilman bodies necrosis Heat stroke Ischemic (causes) Depending on the cause Hepatic vein obstruction Toxic Necrosis 3. Hepatic injury Wilson disease Centrilobular necrosis Acute fatty liver of pregnancy Mid zonal Massive malignant infiltration Periportal (interface hepatitis) Depending on the location Reactivation of Chronic HBV hep. on HDV hep. superimposed Focal (piece meal necrosis and bridging necrosis infection Massive Diffuse Autoimmune hepatitis Submassive Increase in the mitotic activity or cell cycle markers Regeneration Progenitor of hepatocytes and bile duct cells cells of canal of hearing (oval cells) Fibrosis cirrhosis

