281 XVIII. Diseases of Liver, G. Bladder, Pancreas & Peritoneum Liver

Acute Atrophy III- 6.18	
Slices of liver: • Are small	
Shrunken	(as a whole)
Wrinkled	capsule (indicating atrophy of liver)
Cut surface:	• Loss of pattern
	Petechial haemorrhages (dark red)
	Mottling with yellow foci
	Bile-stained spots (jaundice)
	A greyish-yellow background –
	• Apparent reduction in the spaces between portal vessels
	(indicating atrophy of liver-tissue)
Consistence:	Soft

N.B.I:

• The child died of diffuse hepatic massive necrosis.

• The causes include:

- 1. Poisons:
 - Carbon tetra chloride,
 - Chloroform,
 - Cincophen and
 - Phosphorus (mainly experimental, occasionally in over-dosage in human being).
- 2. Severe viral infection (*Fatal viral hepatitis*).
- 3. Severe eclampsia (Pernicious vomiting of pregnancy).
- 4. Metabolic disturbances.

N.B.2:

- The patient usually complains of fever, gastro-intestinal disturbances followed by hepatic disorder (jaundice) and renal disturbance (anuria).
- The condition is fatal but if the patient survives → irregular massive scarring (post-necrotic cirrhosis).

N.B.3: *Necrosis of the liver*

<u> 1. Focal:</u>

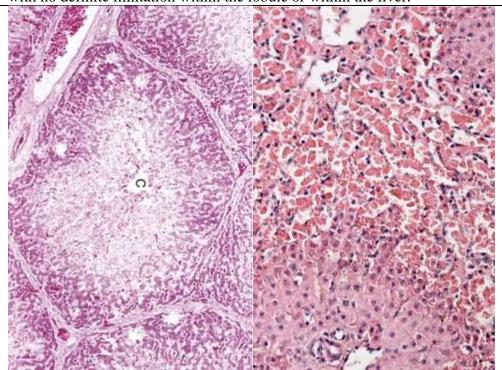
• As in typhoid fever, pneumonia or diphtheria (necrosis of few liver cells with no uniform distribution).

<u>2. Zonal:</u>

- a) *Centri-zonal:* As in severe chronic venous congestion (central haemorrhagic necrosis of liver), toxic conditions with chloroform, and carbon tetrachloride.
- b) *Mid-zonal:* As in yellow fever.
- c) *Peripheral:* As in phosphorous-poisoning and eclampsia (more focal and haemorrhagic).

<u>3. Massive:</u>

• As in acute diffuse necrosis (acute yellow atrophy) \rightarrow necrosis and destruction with no definite limitation within the lobule or within the liver.



Central zone necrosis



Subacute Atrophy III- 6.18	
Liver:	 Is moderately-reduced in size Shows irregularity of the surface Slight nodularity (regeneration) Nodules: Small (majority) Large (few) Rounded or irregular Opaque pale yellow (lipoids) Surrounded by greyish-pink tissue No (or very slight) fibrous bands
 Is usually recurring a When the p 	tion of subacute yellow atrophy. milder than the acute yellow atrophy and with less rapid course but with attacks. patient survives, the liver is not seen in the stage of necrosis, but in the stage of nodular hyperplasia, <i>that is, a certain "coarse nodular type" of cirrhosis</i> .
• N.B.2:	
	s (or causes) of liver-atrophy
1. Bro and	wn atrophy (occurring at old age and wasting diseases \rightarrow organs such as liver heart become smaller in size, deeper brown in colour and show excess of fuscin pigment).
2. Pres	ssure atrophy (occurring from excessive pressure on the liver cells by amyloid stance, tumour tissue, cysts etc).

