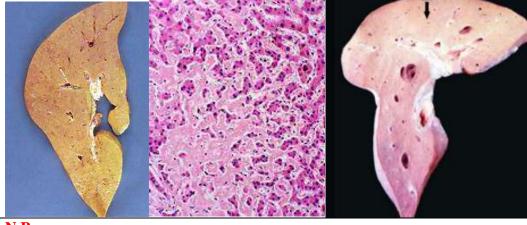
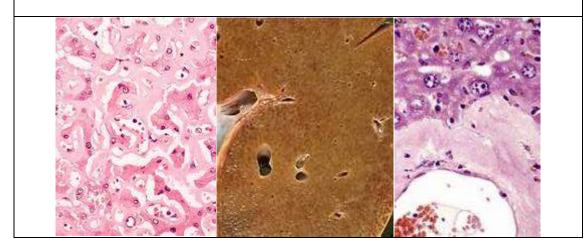
277 XVIII. DISEASES OF THE DIGESTIVE SYSTEM LIVER

Amyloid Disease		III - 6. 113			
Liver;	Size:	Is increased			
	Borders:	Moderately-sharp			
External surface:		Smooth			
		• Greyish-brown	ish		
Cut surface:		 Semi translucent Waxy (in patches or is diffuse) Shows a homogeneous amyloid substance Looks dark brown in a greyish-background 			
	Consistence: • Firm-elastic • Solid-like feeling				

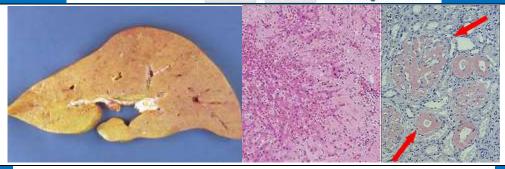


N.B.:

- The patient was suffering for a very long time from chronic pulmonary tuberculosis (fibrocaseous) with suppuration (secondary pyogenic infection).
- This is part of generalized secondary amyloidosis.
- The liver may occasionally show primary amyloidosis.
- In both cases there is hepatomegaly.
- Liver-failure is very rare (and only in very severe cases of amyloidosis).

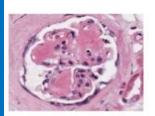


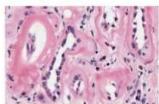
AMYLOIDOSIS signs and symptoms Purpura around the eyes ("raccoon-eyes") Hypothyroidism Shuttestack Liver enlargement Nephrotic syndrome Chronic synovitis and tunnel syndrome Changes in skin

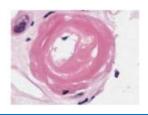


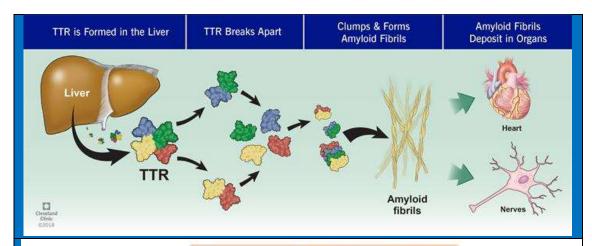
Can involve any part of kidney! But glomerular lesions predominates.

They appear as amorphous material in mesangium and capillary loops Tubules: deposits near basement membrane. Later seen in connective tissue between them/interstitium Vessels: deposits in the walls of arterioles leading to narrowing









Macroscopy/ Gross examination

May or may not be visible

If the deposits are too much, then the organ is enlarged, gray, waxy and firm.

Demonstration of amyloid in gross specimens

Oldest method, since the time of Virchow!

Apply Lugol's iodine on the cut surface



The area containing amyloid stains deep brown
Application of dilute



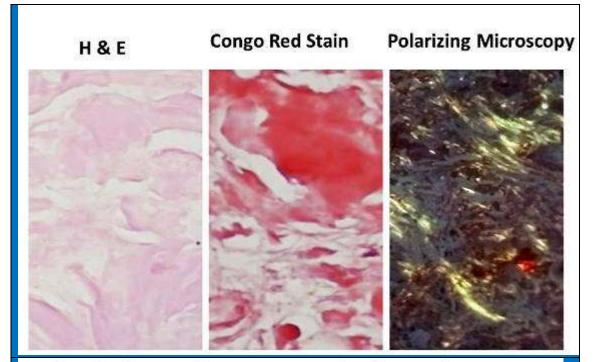
sulphuric acid

Blue

The above property is similar to staining property of starch! Hence the name Amyloid!!!

* CLASSIFICATION

Hereditary	Non hereditary			
1 Familial Mediterranean	Generalised	Localised		
fever	1 Systemic senile amyloidosis	1 Senile cerebral amyloidosis		
2 Familial amyloidotic polyneuropathy	1 Primary amyloidosis (immunocyte dyscrasias) 2 Secondary amyloidosis (reactive systemic amyloidosis)	2 Endocrine system related a. Medullary Ca thyroid b. Islets of langerhans c. pheochromocytoma d. undifferentiated Ca stomach		
	3 Hemodialysis associated amyloidosis	3 Isolated atrial amyloidosis		



Staining chararcteristics of Amyloid

1.Stain on Grossoldest method used
by Virchow on cut
section of gross
specimen is Lugols
lodine which imparts
mahogany brown
colour to the amyloid
deposit which on
addition of sulfuric
acid turns blue.

