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Diabetic Retinopathy (DR)

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It is a Complication of Diabetes that affects blood vessel of retina and lead gradually towards Blindness.

Incidence

70% million people affected world wide.

Pathophysiology

DR is a microangiopathy primarily affecting the precapillary arterioles, capillaries, venules and post capillary venules.

The basic component of damaging process are microvascular occlusion and microvascular leakage.

Figure 1

Figure 2

Risk factors

- Duration of Diabetes
- hyperlipidemia
- Poor metabolic control
- Nephropathy
- Hypertension
- Anemia
- Obesity
- Smoking

Clinical manifestation

- Non-proliferative diabetic retinopathy (NPDR)
- Proliferative diabetic retinopathy (PDR).

Non proliferative diabetic retinopathy

(NPDR) include micro-aneurysms, small 'dot and blot' haemorrhages, 'splinter' haemorrhages, intraretinal microvascular abnormalities (IRMA) and 'cotton wool' spots.

Figure 3

Proliferative diabetic retinopathy (PDR)

Micro-vascular pathology with capillary closure in the retina leads to hypoxia of tissue. The hypoxia leads to release of vasoproliferative factors which stimulate new blood vessel formation to provide better oxygenation of retinal tissue. These new vessels