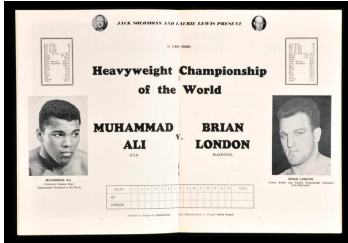
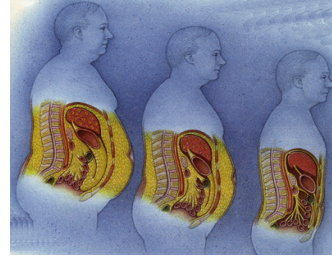


Teaching At the Western Ophthalmic



Mr Lee's Team Diabetes; WEH May 2013

Diabetic Papillopathy



Mr Lee's Team Diabetes; WEH May 2013

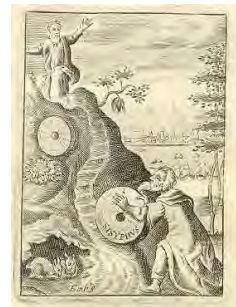
Diabetic Papillopathy

- Uncommon condition
- Kanski;
"Transient, mild visual dysfunction associated with optic disc swelling... may be the result of small vessel disease"
- A 'diagnosis of exclusion'
- Controversy
 - Spectrum of AION Vs Capillary vasostasis



Diabetic Papillopathy

- 182 million people worldwide[X2 in 15yrs]
 - 1.8 million blind persons
- 2.9 million In UK
- Poor epidemiology; 121 case reports in literature; incidence ~0.5%



Greek myth of King Sisyphus

Diabetic Papillopathy



- **Papilla** [L.] a small nipple-shaped projection or elevation.
- **Pathy** [G] (pathos, "suffering") morbid affection; disease.

Diagnostic criterion (Slagle 2012)

1. diagnosis of diabetes
2. Optic disc swelling (one eye or both)
3. Absence of substantial optic nerve dysfunction
4. Normal ICP
5. Lack of inflammation, infection or infiltration

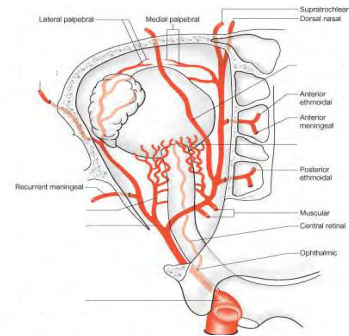


Optic disc swelling

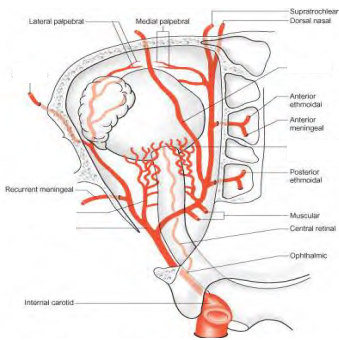
- **Papilloedema**
 - Bilateral; Normal optic nerve function; slow onset; AM headaches
- **Pseudopapilloedema**
 - Bilateral; Hypermetropia; Buried Optic disc drusen
- **Papillitis**
 - ~30 yrs; reduced optic nerve function; pain on mv; sudden onset; central scotoma
- **Anterior ischaemic optic neuropathy (AION)**
 - >50yrs; small disks; sudden loss of vision; altitudinal field defect
 - Non-Arteritic (arteriosclerosis)
 - Arteritic (GCA CRP>25 ESR>50 sensitivity 90%)
- **Diabetic Papillopathy?**



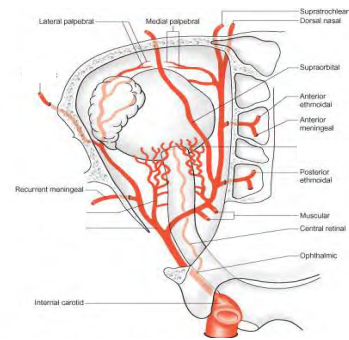
Blood Supply to Optic Papilla



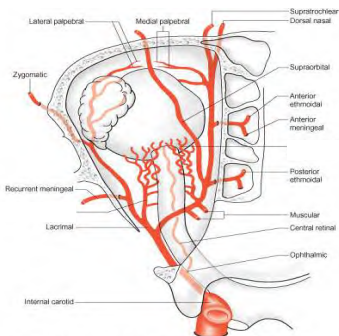
Blood Supply to Optic Papilla



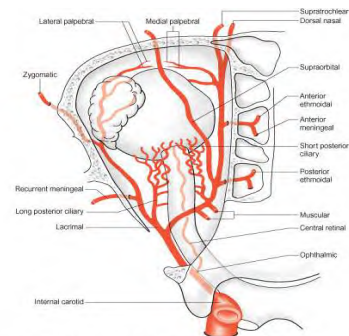
Blood Supply to Optic Papilla



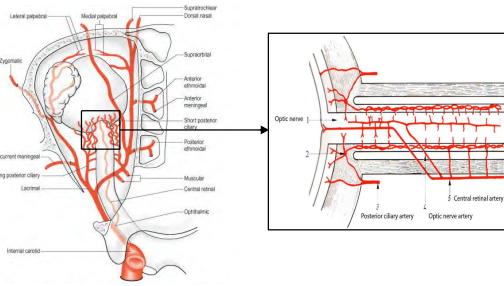
Blood Supply to Optic Papilla



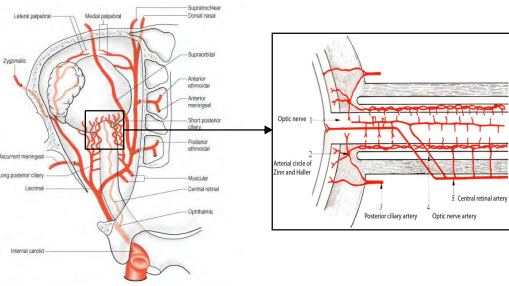
Blood Supply to Optic Papilla



Blood Supply to Optic Papilla



Blood Supply to Optic Papilla



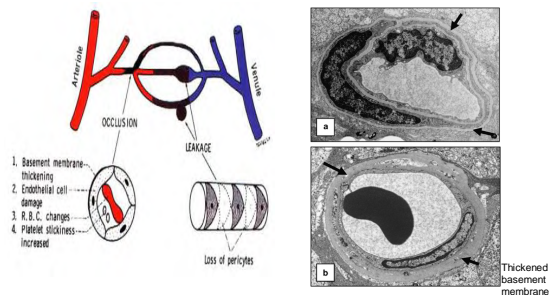
Diabetic micro-angiopathy



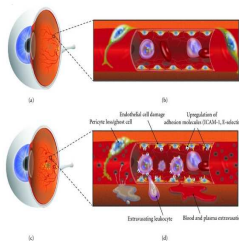
Kiko: The Dog That Smelled Diabetes

- Hyper-glycaemia
 - Capillaropathy
 - Loss of pericytes
 - Basement membrane thickening
 - Haematological
 - Deformity of erythrocytes
 - Leukostasis
 - Platelet stickiness
 - Increased viscosity

Diabetic micro-angiopathy

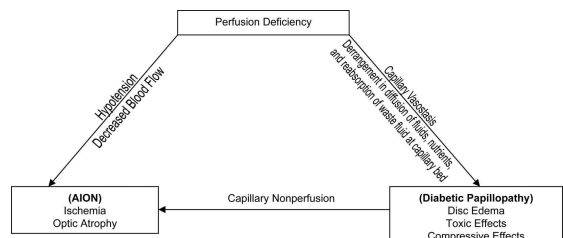


Diabetic micro-angiopathy



- Early
 - Osmotic imbalance
 - ONH oedema
- Late
 - Capillary occlusion

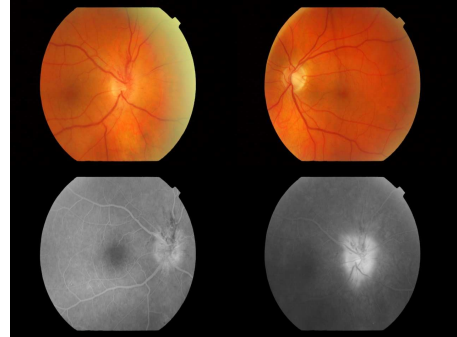
ONH Perfusion



Spectrum of AION Vs Capillary vasostasis

AION	Diabetic Papillopathy
Acute	Insidious
Age 55+	Age 20+
V/A <6/12; Permanent	V/A >6/12; Transient, 2-7 months
Marked RAPD	Mild RAPD
Pallid or hyperaemic	Hyperaemic; telangiectatic
Attenuated	Venous engorgement
Field loss	Minimal field loss
FFA - HYPO	FFA - HYPER

Diabetic Papillopathy



Summary

- Uncommon condition ~ incidence 0.5%
- mild visual loss
- Transient
- Spectrum of AION Or Capillary vasostasis
- Poor evidence in literature
- “diagnosis of exclusion”

Questions



Mr Lee's Team Diabetes; WEH May 2013

Thank You

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