

Ophthalmological Manifestations of Some General Medical Conditions



**UPALI ATURALIYA MD FRCS (ENG)
RELF EYE ASSOCIATES: DULUTH, MN**



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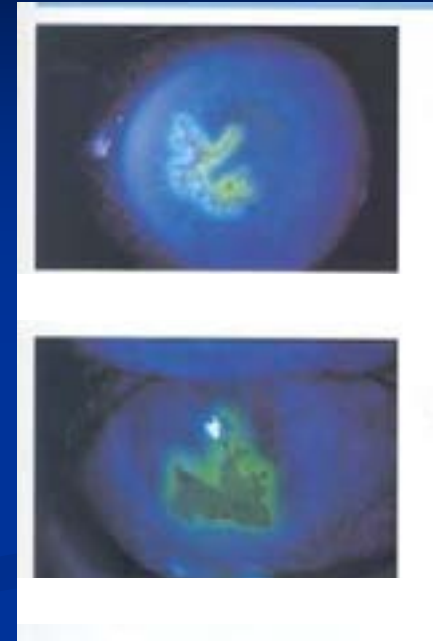
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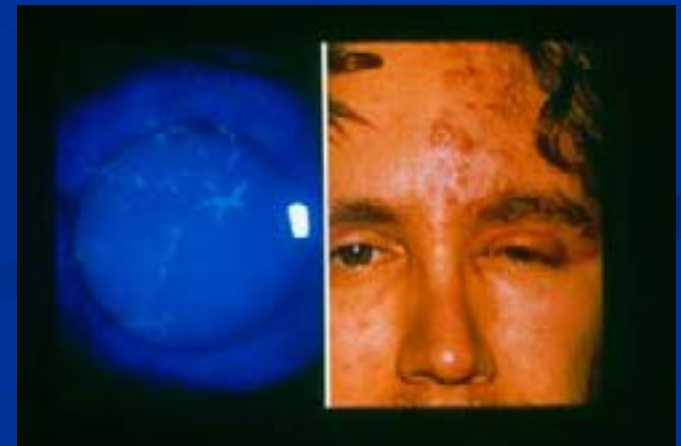
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External Eye

- Herpes Simplex



- Herpes Zoster

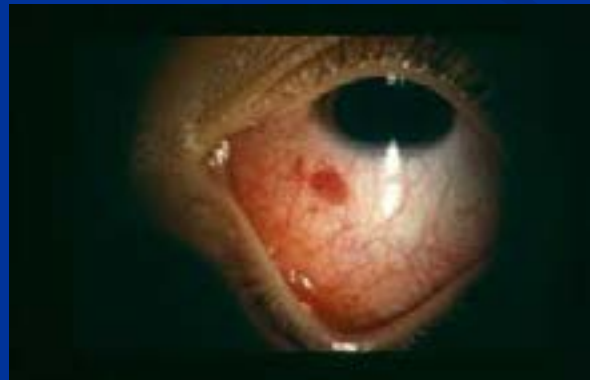


External Eye

- Lymphoma



- Leukemia



Dysthyroid Ophthalmopathy

- Early symptoms
- Late symptoms



Definition

- **The autoimmune inflammatory disorder of the orbit associated with a thyroid metabolic abnormality**
- **Hyperthyroidism (90%)**
- **Euthyroid (6%)**
- **Hashimoto's thyroiditis (3%)**
- **Hypothyroidism (1%)**

Statistics

- **Female:Male 4:1**
- **Incidence 16/100,000/year in women and 3/100,000 in men**
- **The most common cause of unilateral and bilateral proptosis in adults**
- **Eye disease may precede the glandular disease**

Pathogenesis

- TSH-R antibodies bind to the orbital fibroblast and preadipocyte causing them to produce hyaluronic acid, glycosaminoglycans, cytokines
- Activated T and B lymphocytes, plasma cells, mast cells product other inflammatory mediators (TNF-alpha, IL-1,2 and the interferon)
- The circulating autoimmune may be a marker for disease activity
- The autoimmune defect is inherited

Two Phases of the Disease

- **Active inflammatory**

- EOM's, orbital fat, skin of lids and brows, SOOF and ROOF all increase in volume
 - Increased vascularity

- **Inactive**

- Inflammation replaced by fibrosis and scar in two years

Main Clinical Manifestations

1. Soft tissue involvement



2. Eye-Lid Retraction



3. Proptosis

- Exposure Keratitis



Main Clinical Manifestations

- 4. Optic Neuropathy**
 - follow with visual fields
- 5. Restrictive Myopathy**

Diabetes Mellitus

- **Non proliferative diabetic retinopathy**
- **Proliferative diabetic retinopathy**





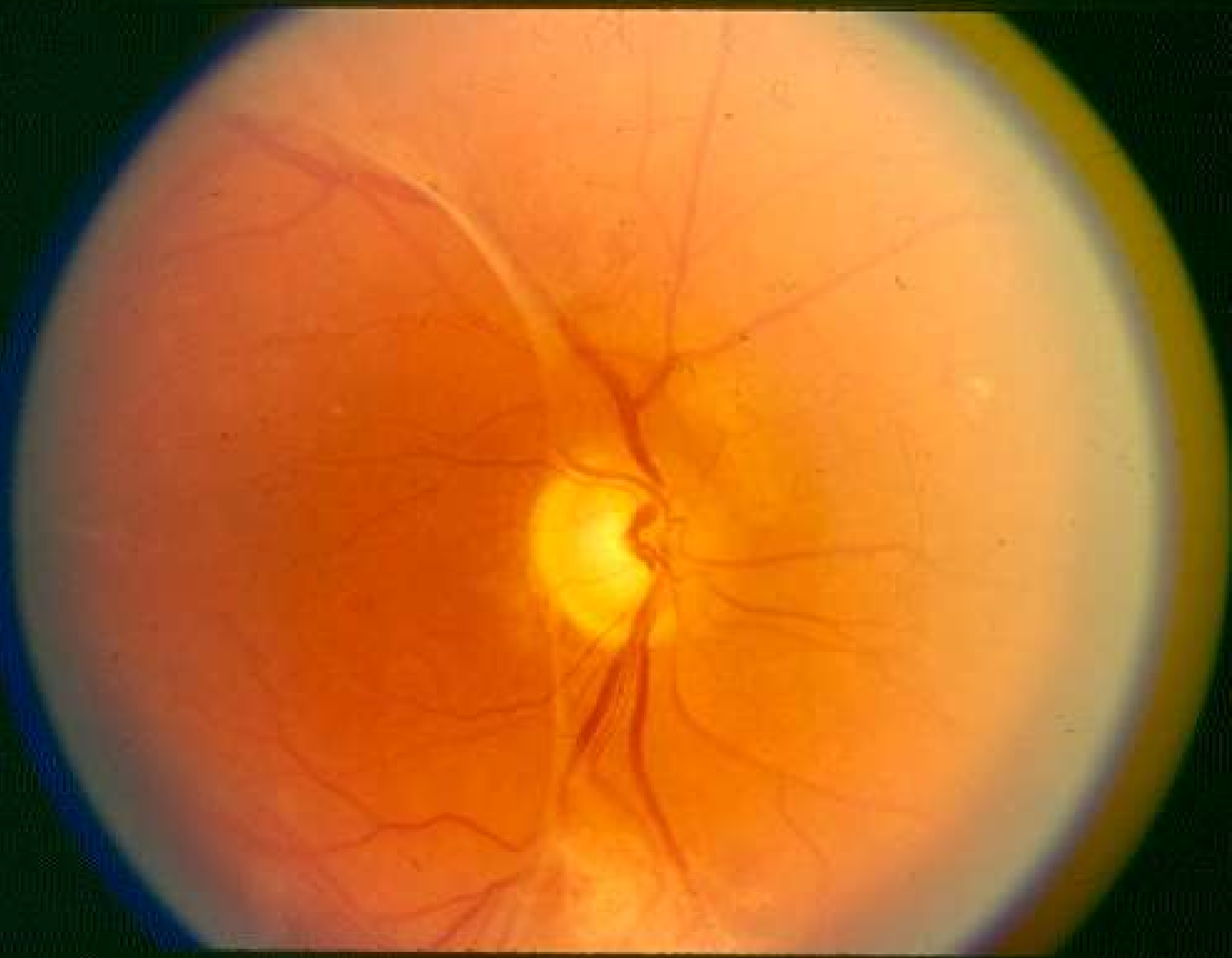
Background Retinopathy with Macular Edema (CME)

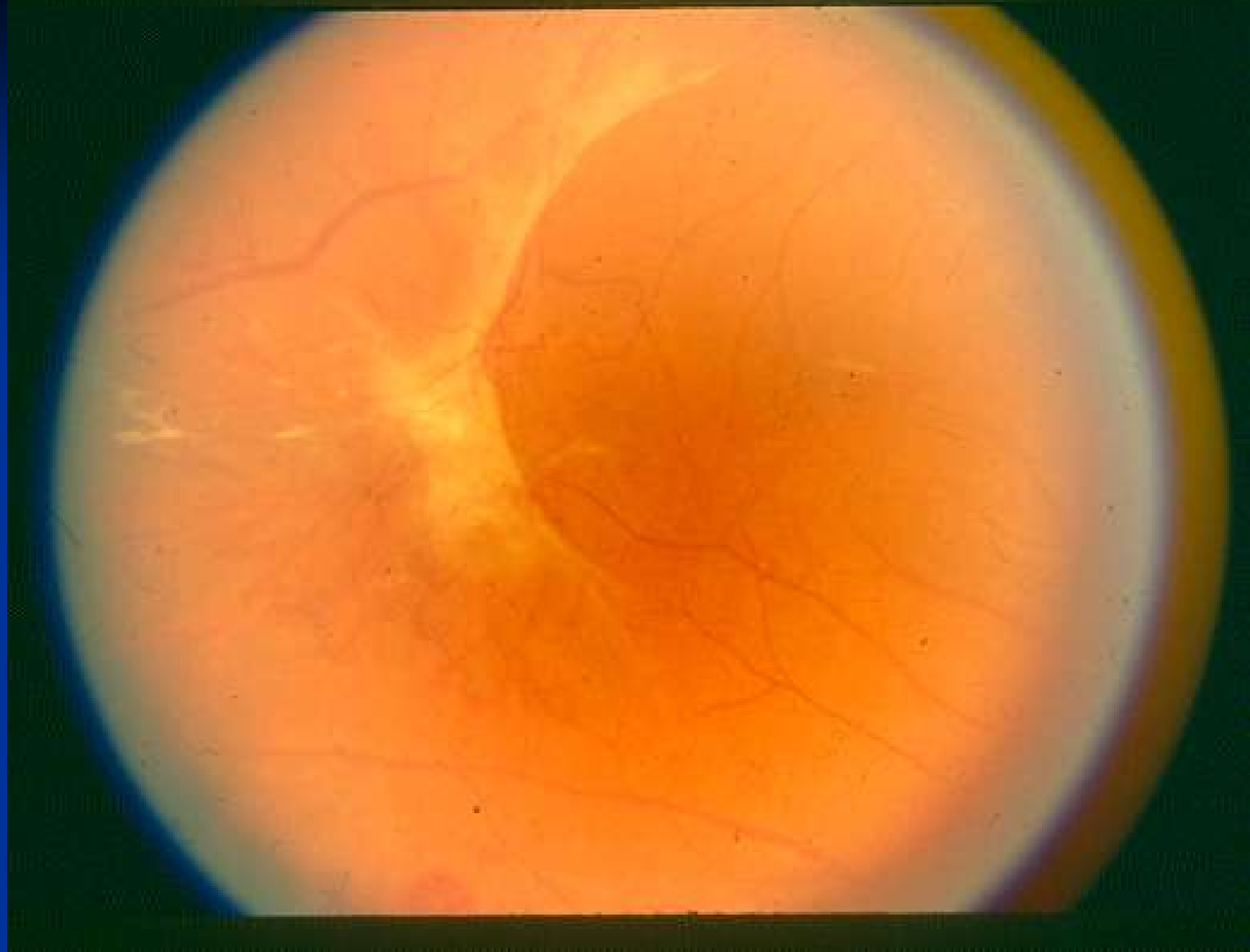


Proliferative Diabetic Retinopathy

- **Early proliferative changes**
 - **Disc proliferation**









Proliferative Diabetic Retinopathy

- **Early proliferative changes**
 - **Non-disc proliferation**

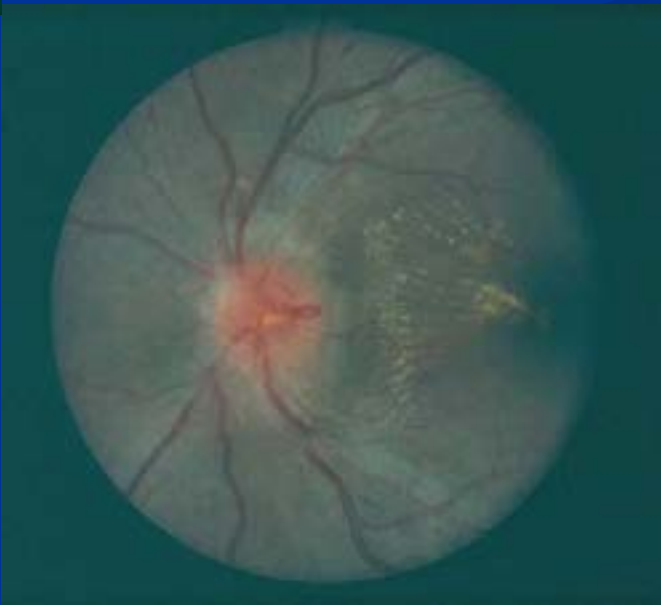


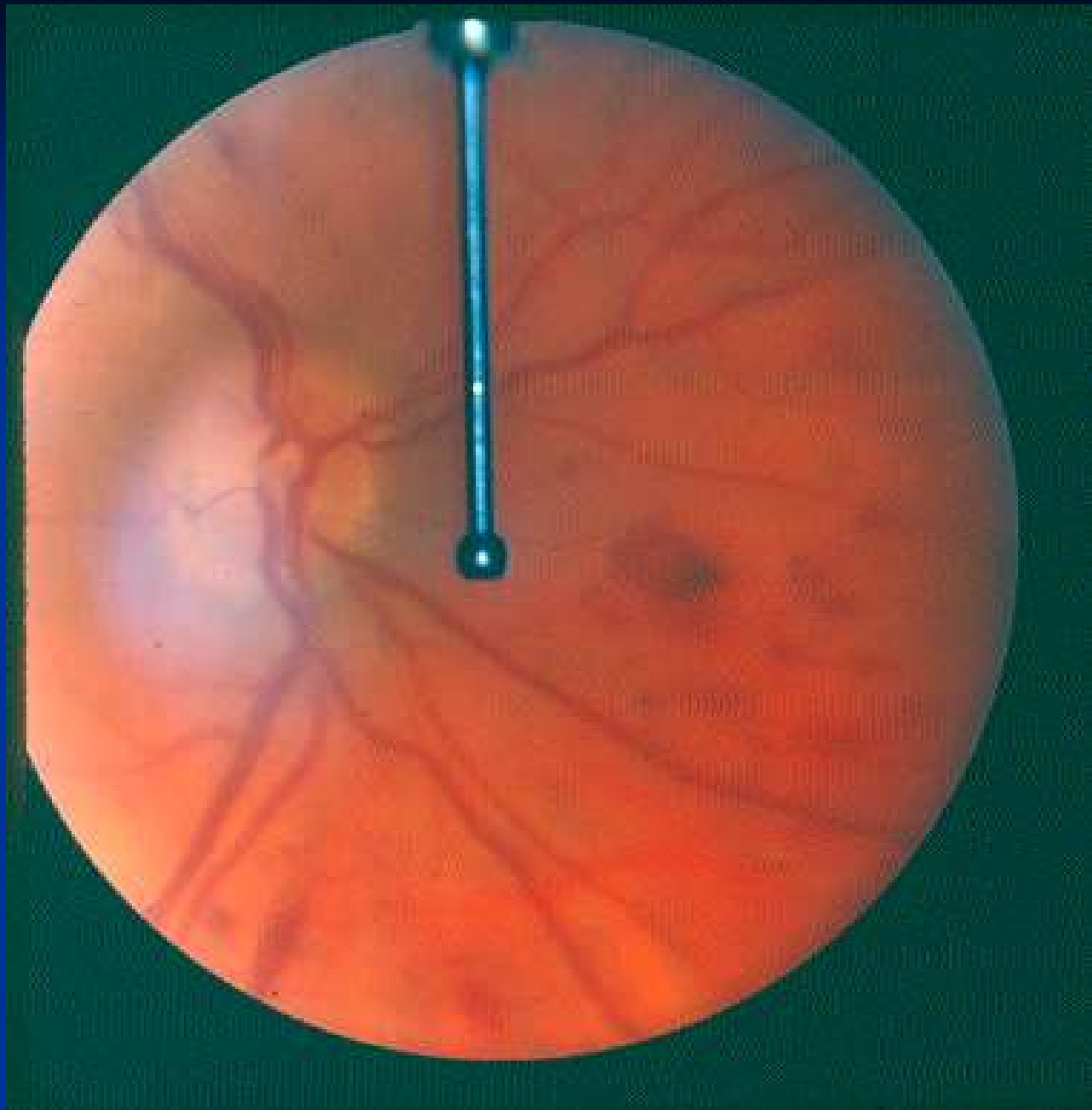
Proliferative Diabetic Retinopathy

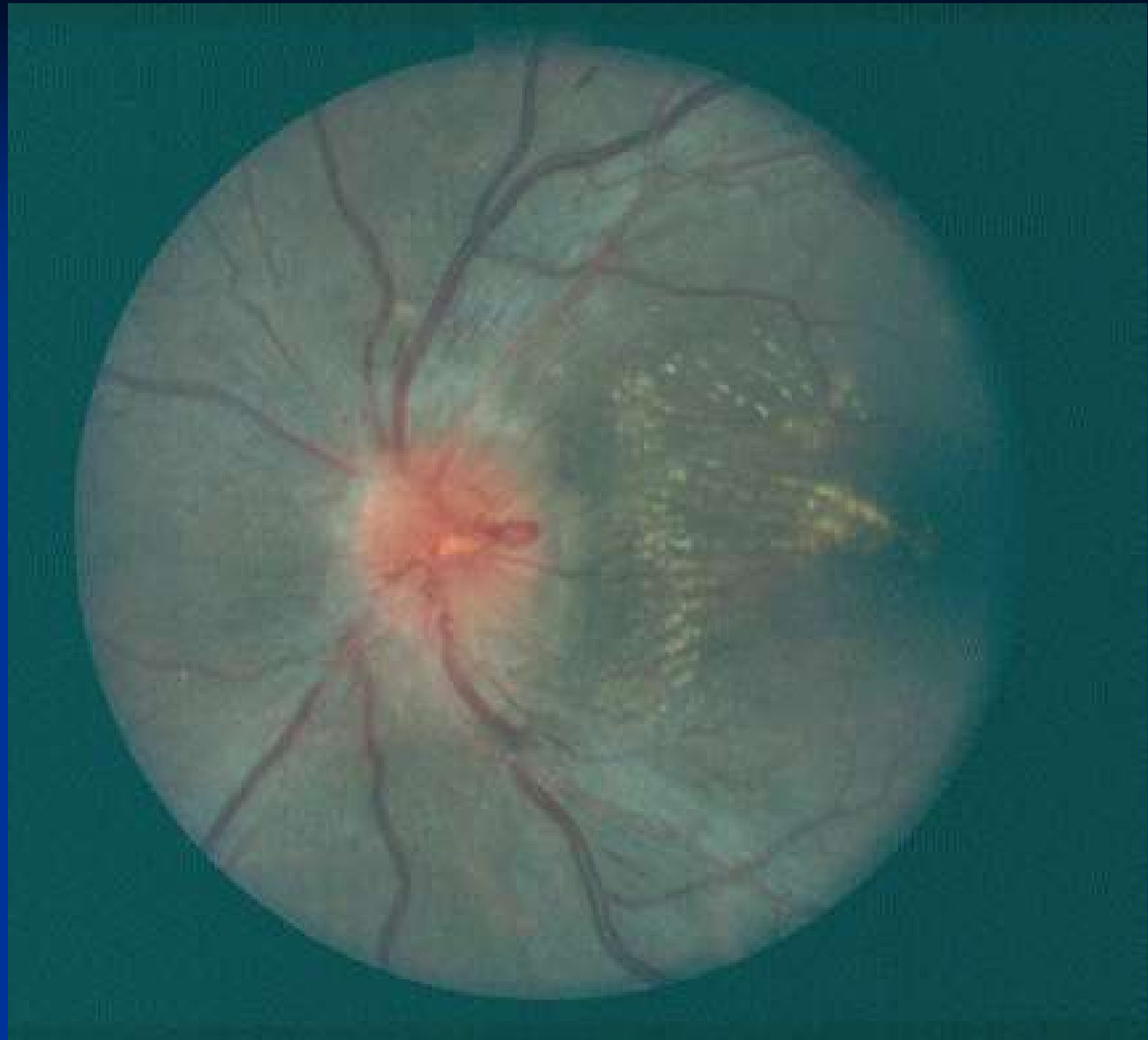
- **Treatment**
 - Focal and PRP laser
 - Anti-veg F drugs
 - Avastine, Lucentis, Steroids



Hypertensive Retinopathy

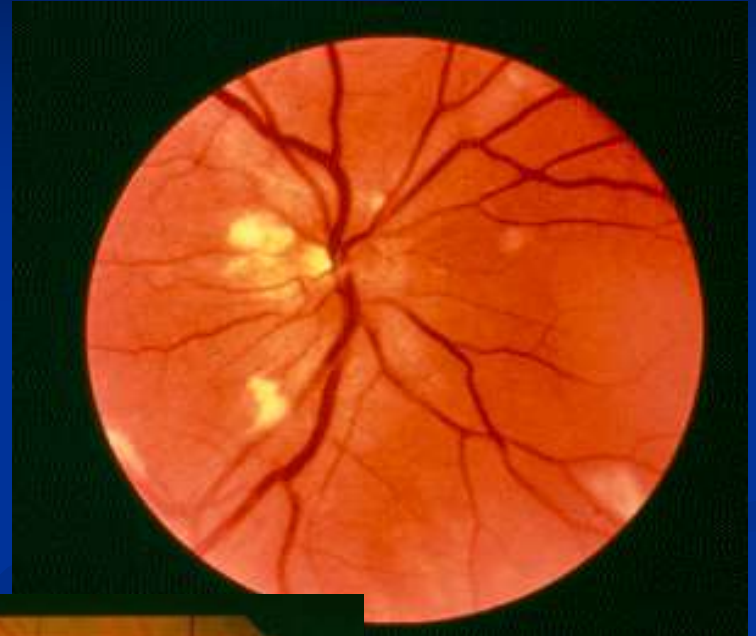








What is the diagnosis?



Clue....



Q & A

ANKA MEDICAL ASSOCIATION OF NORTH AMERICA
EASTERN REGION INC.
PRESENTS

**SLMANA EAST
CHARITY BALL
ANNUAL GENERAL MEETING
&
SCIENTIFIC SESSIONS
ON
NOVEMBER 12TH, 2011**



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SRI LANKA

