HIEROGLYPHICS OF THE EYE EXAM

**LIDS:**
- LF = lid fissure
- MRD = lid margin to corneal reflex distance (to quantitate ptosis in)

**PUPILS:**
- APD = afferent pupillary defect

**SLE:**
- (SLIT LAMP EXAMINATION)
  - CONJ: (CONJUNCTIVA)
  - CORNEA: (K)
  - A/C: (ANTERIOR CHAMBER)
  - IRIS: PI = peripheral iridectomy
  - LENS: PSC = posterior subcapsular cataract,
    NS = nuclear sclerotic cataract
  - GRADING CATARACT DENSITY: 1+ (mild) to 4+(severe)
  - PC IOL = Posterior chamber intraocular lens,
    AC IOL = Anterior Chamber IOL

**Vision tested** with glasses (or without corrections)

**Vision:**
- Snellen acuity 20/25, plus 1 letter on next line; (-) minus indicates number of missed letters on same line
- Pinhole vision; improvement indicates uncorrected refractive error
- CF = Counting fingers at 2 feet
- HM = Hand motion
- LP = Light perception
- NLP = No light perception

**Near vision:**
- expressed in "Jaeger" units
  - J1+ = 20/20
  - J1 = 20/25
  - J3 = 20/40
  - J10 = 20/100 etc

**Current glasses wearing expressed as (sphere) + (cylinder) x (axis).
plano = clear glass**

**Extraflection:**
- current glasses wearing expressed as (sphere) + (cylinder) x (axis).
plano = clear glass
- Best corrected vision after refraction
- pl = plano

**Extraflection:**
- Best corrected vision after refraction
- pl = plano

**Intraocular pressure:**
- Normal < 22 mm Hg

**Color vision:**
- Ishihara book of color plates read total plates shown;

**Method used to measure intraocular pressure:**
- e.g. Applanation, Tonopen (tono), Finger Palpation (FP) , Schiotz
- Time of measurements
- Ocular hypotensive meds, time of last dose

**XOPHTHALMOMETRY**
- Base 98 mm
- Expressed in mm from corneal apex to orbital rim.
> 2 mm difference is abnormal

**Tension:**
- 24 mm
- 16 mm
- Applanaton
- 5:30 pm
- Betoptic 4pm

**Snellen acuity:**
- 20/25 +1 (PH) 20/20
- CF at 2'
- CF = Counting fingers at 2 feet
- HM = Hand motion
- Light perception
- NLP = No light perception

**Color vision:**
- Ishihara book of color plates read total plates shown;

**Extraflection:**
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MOTILITY:

- **OCULAR MISALIGNMENT EXPRESSED IN PRISM DIOPTERS (PD)**
  
  1 PD = light displaced by 1cm at 1 m

- **PHORIA** is a latent misalignment
- **TROPIA** is a manifest misalignment.

- **NOTATION USED TO QUANTITATE MISALIGNMENT:**
  
  1. **ORTHO** = both eyes aligned : EX = 0
  
  2. **AT DISTANCE** -
     a. **ESODEVIATIONS** (eyes crossed)
        E = esophoria, ET = esotropia
     b. **EXODEVIATIONS**
        X = exophoria, XT = exotropia
     c. **HYPERDEVIATONS** (one eye higher relative to the other; by convention lateralize to the upper eye even if the lower eye is abnormal)
        RH = right hyperphoria, RHT = right hypertropia
        LH = left hyperphoria, LHT = left hypertropia
  
  3. **AT NEAR**
     prime indicates measure at near e.g. ET', X', LHT'

  4. **Example:** Grid shows misalignment in patient's cardinal positions of gaze i.e. 12 prism diopters of left hypertropia in right gaze, 2 prism diopters of left hyperphoria in left gaze, etc. This particular example demonstrates an incomitant vertical misalignment that worsens when looking down and to the right which is typical of a IV nerve palsy.

<table>
<thead>
<tr>
<th>RIGHT</th>
<th>2 LHT</th>
<th>12 LHT</th>
<th>16 LHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEFT</td>
<td>2 XT</td>
<td>4 LHT</td>
<td>5 LHT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 LH</td>
<td>4 ET</td>
</tr>
</tbody>
</table>

UP

1°

DOWN
**Fundus Examination:** (dilated; undilated)

Diagrams are often used to document fundus findings. Examples of common abbreviations and notations used to document a variety of abnormalities are shown below.

**Normal**
- C/D = Cup to Disc Ratio 0.5 - 0.6

**Enlarged C/D Ratio**
- Cup extending out to nerve rim
- C/D Ratio > 0.6 should be referred to R/O Glaucoma

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**Abbreviations and Notations**

- **SRF = Subretinal Fluid**
- **PED = Pigment Epithelial Detachment**
- **SRNV = Subretinal Neovascular Membrane**
- **ARMD = Age Related Macular Degeneration**
- **TRD = Traction Retinal Detachment**
- **CSME = Clinically Significant Macular Edema**
- **ODE = Optic Disc Edema**
- **OA = Optic Atrophy**
- **NVE = Neovascularization Elsewhere**
- **BDR = Background Diabetic Retinopathy**
- **PDR = Proliferative Diabetic Retinopathy**
- **RD = Retinal Detachment**
- **WWP = White Without Pressure**
- **CS = Cotton Wool Spots**
- **HE = Hard Exudates**
- **NVD = Neovascularization Disc**
- **BRAO = Branch Artery Occlusion**
- **BRVO = Branch Vein Occlusion**
- **LD = Laser Scars**
- **Lattice Degeneration**
- **Retinal Hole**
- **Retinal Schisis**
- **Ciliochoroidal Effusion**
- **Melanoma**

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**Diagrams**

- Normal Fundus
- Enlarged Cup to Disc Ratio

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**Legend**

- **OD** = Ophthalmoscope Disc
- **OS** = Ophthalmoscope Sympathetic Optic Nerve