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Journal of Cataract and Refractive Surgery.
The Prostaglandins.

The effect of Latanoprost, Bimatoprost and Travoprost on Circadian Variation of IOP in POAG, Yildirim et al, Turkey. JG p 36-39.

- 8 wk parallel, double masked, randomized.
- Adults, new POAG no past Rx.
  - Total of 48 patients with similar CCT in each group.
- Initial circadian curve.
  - 8 am, 10 am, 1 pm, 4 pm, 8 pm, 11 pm and 3 am. (sitting position)
The Prostaglandins

- Same IOP measured after 8 wks of Rx.
  - Similar IOP reductions at all times except:
    • 8 AM & 10 AM, Travoprost lowered IOP 3-4 mm Hg than Latanoprost or Bimatoprost.
      - Possible explanations:
        » Higher baselines levels and variability of IOP for travoprost group.
        » Reduced number of patients.
        » Lack of crossover.
Brimonidine & Uveitis.

  - 78 yo male, DM, PXS, past ALT OU, OS x 2. Past exposure to Xalatan, Timolol.
  - Present with bilateral granulomatous conjunctivitis & uveitis.
    - Confirmed by biopsy and A/C vitreous taps.
Brimonidine & Uveitis

- D/C of Brimonidine improved significantly both in a few days.
  - No challenge done.
- From 2000.
  - 4 cases of anterior uveitis.
  - Mean usage 14 months.
- Indirect pathway of immunologic sensitivity.
Ca channel blockers and IOP.

- Effect of Flunarizine, a Ca channel blocker on IOP and Aq. Humor Dynamics in Monkeys. Wang et al, JG p. 73-78. Mt. Sinai, NYC.
  - Ca channel blockers decrease IOP and may have a neuroprotective role.
    - Verapamil in NTG?
Ca channel blockers and IOP.

15 monkeys

- 8 with OAG induced by ALT.
  - Significant IOP reduction for single dose and 5 day period (twice a day) applications
    - Dose related, best profile: 0.5%
  - 7 for tonography & fluorometry.
    - Flunarizine.
      - Type IV Ca antagonist, relative selectivity for L and T type Ca channels.
      - Increase outflow, no change in flow rates.
Axial length and anysometropia.

Journal of Cataract and Refractive Surgery. Rajan et al, Moorfields Eye Hospital, London Vol 34, 1 p. 76-79.

- Consecutive biometries for 1537 pts for bilateral PE.
- Difference 0.3 mm or > in 24%.
- Increase anisometropia with increase axial length.
- Axial length: Mean anisometropia:
  - Less than 28 mm: 0.34D.
  - More than 28 mm 0.66 D
Factors related to corneal endothelium damage after PE in eyes with occludable angles.


- Prospective, 60% occludable angles for PE, pre and 3 mo specular microscopy.
  - Mean loss 3 mo: 14.5%.
  - Greater loss:
    - AL less than 22.6.
    - Greater K.
    - Greater NS.
    - Greater 4-8 hrs & 24 hr post op IOP peak.
The Ocular Surface of Glaucoma Patients Treated over the Long Term Expresses Inflammatory Markers Related to Both T-Helper 1 and T-Helper 2 Pathways, Baudouin et al OPH, 115-1p 109.115.

- Expression of CCR5 & CCR4 chemokine receptors, markers of T helper and class II HLA-DR Ag in conj cells (hallmark of inflammation).
- Control 18 pts Study: 70 glaucoma pts Rx with PGFs, and/or multiple Rx.
- Significant expression of HLA-DR in multi-Rx.
- CCR4 & 5 increased in all Rx groups.