

NAION
Non-arteritic AION is caused by occlusion of shat posterior ciliary arteries resulting in infarction of the optic nerve head

Etiology:-

- Hypertension
- Diabetes
- Small curved disc
- Hypulifidemia
- Collagen vascular diseases
- Nocturnal hypotension
- Sleep apnea syndrome
- Hyreetomocystinemia.

Presentation:-
Mast common in 6 th-7th decades
Symptoms:-
Sudden, Painless, unilateral loss of vision.
Signs:-

- Moderate to severe visual impairment
- Colour vision is defective.
- Visual field defects.

Most common- Inferior altitudinal field defects

- Fundus examination reveals SECTORAL $\mid$ DIFFUSE DISC EDEMA with peripapullay disc hemarhages


Dirty white pallor of orle disc sets in after $3-6$ weeks.

Investigations:-

- BP
- Blood sugar
- Lipid profile.
- Is to rule out
- Serum homocystiene

Treatment :-

- Control of systemic conditions
- Aspirin, antiplatelets have been Tried.
- Oral pudnisolone in tapering doses

Prognosis:-

- Recurrence can occur in 6\% of patients
- Involvement of other eye can occur in $10-15 \%$ of patent.
- Strict contiol of systemic conditions is warranted.

ARTERITIC ATON
AAION is caused by giant cell arteritis . Elderly ( $>60$ years) are affected

GIANT CELL ARTERITIS

- Granulomatous, neceotizing affecting medium and large sized arteries.
- Superficial lempoval.A, ophthalmic arléy, posteior aleary artery commonly involved
Clinical features of GCA :-
- Scalp réndeners
- Temporal /ocaputal headache
- Jaw claudication - due to ischemia of masseter muscle.
- Pain and stiffuers in the
pronimal muscle groups called Polymyalgia rheimatica
- Thickined tender inflammed nodular supesicial rémporal actuies - Cannat be flattered against the skull.
- Nor pulsatile superficial lemporal astery.

- Aatic incompeténe, dessećling aneuyssms, myocardial infarchons are rase complications

Ophthabrie manifestations of GCA
30-50\% of untreated patients develop $A A$ ION

U/L, sudden, profound loss of vision with peiocular pain.

- Vision los is severe usually only perception of light (PL+)
- Fundus examination reveals chalky white edematous disc

Can also be associated with

- choretinal adler occlusion


Investigations :-

| Diagnostic criteria |  |
| :--- | :--- |
| If a patient <br> possesses $\geq 3$ <br> criteria, GCA is <br> diagnosed: | I. Patient age $>50$ years |
|  | 2. New-onset headache |
|  | 3. Temporal artery abnormality (tenderness to <br> palpation or decreased pulsation, unrelated to <br> atherosclerosis of cervical arteries) |
|  | 4. Elevated ESR $\geq 50 \mathrm{~mm} / \mathrm{h}$ |
|  | 5. Abnormal TAB |

- ESR - very high $>50 \mathrm{~mm} / \mathrm{her}$
- CR
- Complete blood count
- Temporal artery
biopsy - should be done unthin 3 days of stating steroids
- Temple is the best location for biopsy.
- Heart 2.5 cm of artery should be taken to avoid skip lesions
- Color doppler - hyper echoic halo around superficial temporal artery.
- Enteacearial large vessel imaging to lube out any aneueusons/ dissections.

Jreatment:-

- iv methyl predrusalone $|g|$ day foe 3 days

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oral prednusolone (60mg) $\downarrow$
tapued by smg weekly.

- Enteric coated predrisolone
- Antiplatebet - T.aspirin (150nglday)
- Immunosupressines used in sterioid usustant cases.
Prognosis:-
Very poor prognosis as optie aliophy sets in with permanent pofound visual los.

PION

- Due to ischemia of retrolaminar portion of reave supplied by rial plexus.
operative PION - Due to hypovolunic hypolension following long surgical procedures.
Auteritic PION - Due lo giant cell vilcuits
Non-arteritic PION - Due to diabetes, hypertension, noclünal hypotension

