

Neuralgia

- > A chronic pain condition affecting the trigeminal nerve in the face.
- > Pain of severe throbbing (or) stabbing character in the cause of distribution of a nerve.

Types of Neuralgia:

- Trigeminal nerve function
- > Trigeminal neuralgia. (sensory & motor)
 - > Paratrigeminal neuralgia.
 - > Glossopharyngeal neuralgia.
 - > Occipital neuralgia (piercing, throbbing, upper neck, back of the head)
 - > Post Herpetic neuralgia.
- causing burning pain (lath, & blister)
- > nociceptive afference to face & mouth.
 - > Transmitting sensory information to the skin, sinuses & mucous membrane in the face
 - > also stimulates movement in jaw muscles.

① Trigeminal neuralgia:

-> It is a sudden usually unilateral, severe, brief stabbing, recurrent episodes of pain in the distribution of one (or) more branches of trigeminal nerve.

Etiology:

Intracranial causes.

- > multiple sclerosis,
- > Intracranial tumour.
- > Intracranial vascular abnormalities.

Extravascular causes.

- > Vascular factors.
- > Post traumatic neuralgia.
- > viral infections.

Pathophysiology of Neuralgia:

Atherosclerotic blood vessel pressing on the root of trigeminal nerve.



Focal demyelination (myelin sheath of neurons is damaged).



Hyperexcitability of nerve fibres.



Episodes of intense pain.

Clinical features:

→ Pts usually complains of electric shock like pain. usually confined to one side.

→ motionless (d) mask like face.

→ Depression.

→ Wt. loss.

Diagnosis:

→ History

→ Trigeminal nerve Examination.

→ Diagnostic nerve blocking.

→ MRI (Brain).

→ microangiopathy.

Management:

I Line: Carbamazepine.

II Line: Phenytoin - 100mg
Baclofen - 5-80mg/day.
Lamotrigine - 25mg/day.

III Line: Clonazepam 4-8mg.

Valproic acid 250-500mg.

100-200mg.

Others:

- Trichloroethylene inhalation.
- topical capsaicin cream application.
- Proparacain 0.5% anaesthetic drops in eye.
- Anti-inflammatory drugs - Indomethacin.

Surgical:

- stereotactically controlled trauma coagulation of V-cranial nerve.
- Vascular ~~decompression~~ decompression.
- ~~Repositioning of the bandage~~.
- Microvascular ~~decompression~~ decompression
- Cryotherapy. ↳ compression of cranial nerve
- ~~Sub~~ geminal neurectomy.
- Glycerol s thizotomy.

Others → Pain relief.

→ stimulate the nerve for therapeutic purposes.

- TENS (Transcutaneous Electrical nerve Stimulation).
- Acupuncture
- Psychological approach.