GENERAL E.N.T. EVALUATION IN HEAD INJURY CASES WITH SPECIAL REFERENCE TO TEMPORAL BONE INJURY
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ABSTRACT: Road side accidents was the most common cause (55 percent) followed by assault (11 percent) and agricultural (9 percent) incidences. Audiological assessment showed 39 patients having hearing loss (28 conductive, 7 mixed and 4 sensory neural). Temporal bone fractures were in 17 cases (14 longitudinal; 3 transverse). Laceration of pinna and external auditory canal was present in 13 patients. 2 cases were having pre-aural and post–auricular abrasions. The rupture of tympanic membrane was found in 15 cases and csf otorrhea in 3 cases. The facial nerve damage or injury was found in 6 patients (3 longitudinal fractures; 2 transverse fractures; one patient had partial paralysis due to fracture of lateral orbital wall with mandible) whereas two patients had mastoid tenderness. MATERIALS AND METHODS: The study was conducted at ENT department of AVBRH Sawangi (Meghe), Wardha about 100 cases of head injuries admitted in surgical ward of AVBRH Sawangi (meghe), Wardha. Detailed clinical history would be taken and E.N.T examination was done and recorded on a performa (Annexure1). A detailed neurological examination in each case including the cranial nerve functions, gait tests and appropriate cerebeller function tests were taken. All the conscious patients was subjected to Tuning fork tests and pure tone auditory and impedance whether indicated. Radiological investigation of each patient were reviewed and finally the findings obtained was compiled.

KEYWORDS: Temporal bone fracture with hearing loss, CSF otorrhea, Facial palsy.

INTRODUCTION: CONCLUSION AND INTERPRETATION: Majority of patients fall in 21-30 years; less in young as well as older groups. So children should be discourage from driving and specially the fast driving:
1. Roadside injuries were the most common cause of head injuries. Another factor is that non-compliance of putting head gears and to tie belts during the driving lead to these dreadful injuries.
2. Dizziness and headache were the major symptoms. Proper rest, restrictions of movements by these patients does help them and they should also avoid unnecessary medication which help them and they should also avoid unnecessary medication which will hinder with the central compensation of these patients. Usually the compensation occurs in 6-8 weeks-time. Head ache present in most of the patients was releaved with passage of time.
3. Bleeding from nose along with CSF rhinorrhoea was also one of the signs. It stopped after few days; these patients should not be given local medications. Antibiotics may be given to avoid infection.
4. Bleeding from nose along the CSF rhinorrhoea was also one of the signs. It usually stops. The patients are given bed rest with head rest. Valsalva’s manoeure is avoided. CSF Fistulae usually closes by 10 days. Surgical correction should only be undertaken if it persist after 10 days. All
Mid face fractures should be corrected before three weeks as after that permanent disunion occur and it may not be possible to correct them properly.

5. Facial paralysis was also notable sign.

6. Facial paralysis in cases where the onset is early, the prognosis is usually better with or without Surgery. If transverse temporal bone fractures with complete facial paralysis and total hearing loss then facial should be decompressed by translabyrinthine approach. If hearing is good and lesion is in pregeniculate region then transmestroid along with middle cranialfossa approach should be preferred. Facial paralysis with delayed on set has poor prognosis. Similarly the facial paralysis associated with transverse fracture has got poor prognosis. Surgical decompation should be taken in these patients within 3 to 6 days or if Electrodiagnostic tests shows 90 percent degeneration of the nerve.

7. Patients with longitudinal fractures showed mostly conductive type of hearing loss while mixed hearing loss was also reported in few cases. All transverse fracture cases showed sensory neural hearing loss. Conductive deafness due to blood in middle ear and patients gets improvement in hearing. So is true of tympanic membrane perforation which also gets healed in 10 to 15 days.

8. CSF otorrhea subsided after 10 days of medication and hospitalization. CSF otorrhea usually associated with bleeding from ears sometime it’s masked by blood. These patients should be given antibiotics specially those which cross the blood brain barrier to avoid meningeal infection. Only if it persists upto two weeks then surgical intervention should be thought off. However CSF otorrhea signifies tear in dura and in turn fracture.

9. Bleeding from throat is usually due to nose bleed or blood from ears through Eustachian tube enter the nasopharynx

10. Role of CT scan is of immense value, particularly useful in CSF rhinorhea and CSF otorrhoea cases in finding out the exact site of bone injury and thus useful in their management.

BIBLIOGRAPHY:


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