FULMINANT HEPATC FAILURE WITH ENDOPHTHALMITIS

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INTRODUCTION

Vision an important sense organ for every person. A disease can be so threatening that it can take away a child's vision. In this report we see how a liver pathology can effect eye(endophthalmitis) .liver an endocrine gland required for many functions of the body. Failure of it can be acute or chronic or fulminant. Fulminant hepatic failure is defined as condition in which coagulopathy and encephalopathy occurs within 8 weeks of onset of liver disease, in a patient with no previous liver disease,biochemical evidence of liver injury, coagulopathy not corrected by vitamin k administration,INR>1.5 with encephalopathy,INR>2 without encephalopathy are criteria proposed for diagnosis. Endophthalmitis infection of inner eye(vitreous and anterior chamber) can be exogenous or endogenous. Exogenous is because of external trauma, foreign body,post surgery, that can cause bacterial or fungal infection. Endogenous endophthalmitis is because of hematogenous spread usually seen in immunocompromised or children on steroid therapy etc.

CASEREPORT

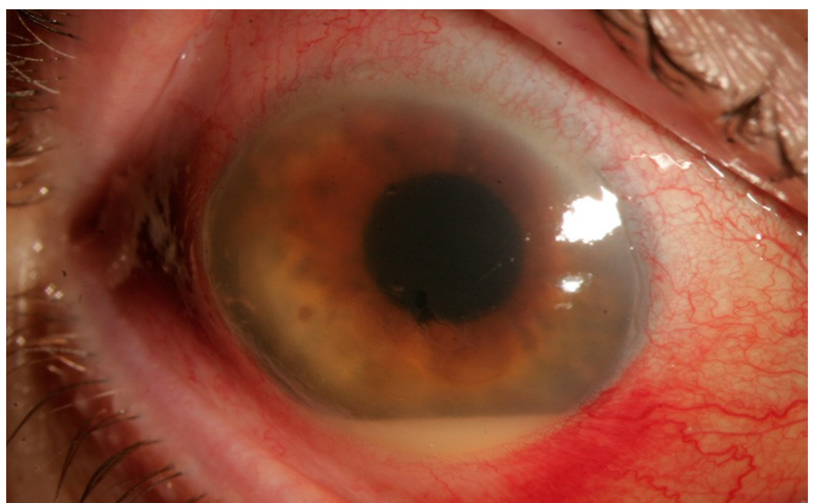
A 4 year old child came with complaints of fever since 11days,convulsions since 5 days sudden onset, GTCS type lasting for 10 to 15 mins, 2 to 3 episodes per day, vomiting since 2 days.

on examination child was not conscious with a GCS of E2V1M4, pupils mid dilated, vitals- PR-102/min RR-22/min, B.P-100/60 mm of hg,TEMP-101 ^{0}F pallor present mild icterus present,head to toe examination normal, on systemic examination revealed motor hypotonicity, reflexes exaggerated, no signs of meningitis.

Investigations revealed deranged coagulation profile (INR – 2.8)and raised liver enzymes, raised ammonia levels, with increased total counts, negative for all hepatic viruses,lumbar puncture normal, MRI was normal, immunoglobin levels normal,ana profile normal. With anti oedema measures and NAC infusion antiviral acyclovir therapy and symptomatic treatment, gradually child improved gcs normal but there was persistent fever, and redness of eye developed on 3rd day of admission,on ophthalmic evaluation, redness of conjunctiva,hypopyon, it was proved that child had endogenous endophthalmitis of right eye, for which core vitrectomy was done , and placed with an artificial prosthesis, now the child is blind in one eye.. An unusual case of fulminant liver failure with endogenous endophthalmitis.

DISCUSSION

Fulminant hepatic failure is life threatening condition. And an unknown and rare complication seen in this condition is endogenous endophthalmitis,a study done by chang sue showed the association of endopthalmitis with pyogenic liver abscess, studies have shown association between staph aureus and liver infections, also how staph aureus can cause endophthalmitis.so now that a rare case scenario is seen it is duty of doctor to be well aware of the complication when a liver pathology is involved. That could save any limitation of childs healthand vision.





Referrences:
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