Case Report

Suspected endogenous endophthalmitis but proven hla associated panuveitis.

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Abstract

Purpose: To report a case of 33 year gentleman with foot cellulitis suspected to have endogenous endophthalmitis. On Investigations was found to be a case of HLA B27 panuveitis.

Keywords: Endophthalmitis, pupillary area, anterior capsule, chronic backache.

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Abbreviations: RE: Right Eye; LE: Left Eye; O/E: On Examination; OD: Right Eye; OS: Left Eye; DT: Digital Tension; PL: Perception of Light; PR: Projection of Rays; S/L/E: Slit Lamp Examination; AC: Anterior Chamber; USG: Ultrasound; CXR: Chest Ray; ESR: Erythrocyte Sedimentation Rate; TLC: Total Leukocyte Count

Introduction

Uveitis is one of the major causes of blindness in the world. It involves inflammation of uveal tract. However, practically there is always some inflammation of the adjacent structures such as retina, vitreous, sclera and cornea. It can be classified according to anatomical area affected, on the basis of onset, pathologically into suppurative and non-suppurative and etiologically (DUKE ELDERS). The major differential includes endophthalmitis. Since the evaluation involves a long set of investigations, one must be meticulous in choosing as appropriate especially in ruling out the differentials. Below we are presenting the stepwise approach we did in our case.

Case Presentation

A 33 year gentleman, engineer by occupation, presented with sudden onset painful gradual diminution of vision in his Left eye for 2 days. Patient had history of cellulitis of right foot and was on treatment since one month (broad spectrum oral antibiotics). He had no history of similar complaints before or in other eye. No complaints of pain in the infected foot on presentation On Examination: vision OD- 6/6, OS- PL+ PR accurate. Slit lamp examination of LE showed AC cells 4+ with exudates in pupillary area and 0.5 mm hypopyon. DT was normal, fundus was hazy. USG: dense vitritis with few vitreous membranes.RE normal except for few pigments over anterior capsule. Blood investigations showed high ESR (72) with slightly higher TLC count, negative CXR and montoux. Considering, improved status of cellulitis and picture of RE, the intravitreal was deferred. Investigations showed high ESR with slightly higher TLC count, negative CXR and montoux. Considering, improved status of cellulitis and picture of RE, the intravitreal was deferred. Investigating further came up history of chronic backache. Aqueous tap was sent which showed inflammatory cells and HLA profile was done and was positive.

Discussion

Uveitis is the inflammation of uveal tract which can involve retina. The common causes of uveitis are infective, allergic, toxic, traumatic, auto-immune diseases. Most of the patients are idiopathic [1,2]. While evaluating such cases one should be meticulous in treating according to underlying cause to prevent undue expenditure on exhaustive list on investigations. A tailored approach should be followed based on history and clinical examination [3].

Endogenous uveitis is caused by entrance of organism from source situated elsewhere in the body by the way of bloodstream. Secondary infection from nearby structures like keratitis, scleritis, orbital cellulitis can also lead to involvement of uvea. In such cases the treatment of underlying inciting cause by systemic or topical antibiotics along with anti-inflammatory drugs may improve the clinical picture. However, in cases of endogenous endophthalmitis the management protocol changes to vigorous intervention by giving intravitreal antibiotics with or without intravenous antibiotics depending upon vitreous tap report. Cellulitis is non-necrotizing inflammation of the skin and subcutaneous tissues usually following a breach in the skin. Most common cause is staphylococcus. Patients with severe cellulitis require parenteral therapy [4]. However milder cases are treated with oral antibiotics like Dicloxacillin, amoxicillin, or cephalaxin as in our case (Figure 2).
In uveitic patient a battery of tests is not usually required. One should concentrate on a limited number as suggested by the case. In our setup we routinely undertake investigations to rule out tuberculosis. HLA, RA, x-ray sacroiliac joint are done when history is positive. The mainstay of the treatment of uveitis is corticosteroids. Immunosuppressive agents are administered if the inflammation is not adequately controlled with steroids. The clinical situation grossly improved in our case with oral and topical steroids. In a nutshell, the patient was treated for cellulitis with oral antibiotics, suggests the importance of meticulous history taking as a whole besides a good ophthalmological evaluation of affected and normal eye keeping all the differentials in mind as uveitis is associated with many systemic diseases (Figure 3).

Results

The patient started on 2hourly topical steroids and oral prednisolone 1mg/kg/day for a week with gradual tapering every week. Vision after 2 weeks: OD- 6/6, OS- 6/18(P) with normal IOP and resolved pupillary membranes and vitritis. Aqueous tap showed inflammatory cells mainly polymorphonuclear subtype. HLA test was positive for B27 and x-ray sacroiliac joint showed no abnormality. The patient was started on 2hourly topical steroids and oral prednisolone 1 mg/kg/day for a week with gradual tapering every week, along with dilators. Vision after 2 weeks: OD- 6/6, OS- 6/18(p) improving to 6/6(p) with pinhole. The anterior chamber was quiet. IOP was normal. Pupillary membranes and vitritis were resolved.

Conclusion

The clinical situation grossly improved in our case suggesting the importance of meticulous history taking as a whole besides a good ophthalmological evaluation of affected and normal eye keeping all the differentials in mind as uveitis is associated with many systemic diseases.

References


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