Correspondence

Fluorinated steroids

TO THE EDITOR British Journal of Ophthalmology

Sir, Many ophthalmologists must have heard or read by now of the adverse effect on the skin of the prolonged use of fluorinated steroids, such as betamethasone, fluocinolone, fluocortolone 21-hexanoate. It has been said that the fluorine present induces neovascularization and dilatation (telangiectasia) and ruptures the dermal collagen and follicular epithelium. These adverse changes are reversed by using hydrocortisone.

Despite this finding which originated in 1969 I do not know of any statistically significant account of a similar effect on the eye. In two cases of postherpetic keratitis in which drops of betamethasone were prescribed for a year, and in one case where the same drops had been prescribed daily for two years by a general practitioner for conjunctivitis sicca, I found many substantial dilated vessels in the corneal stroma associated with a highly irritable eye. There was no other pathological feature. On changing to drops of hydrocortisone 1 per cent, the symptoms were relieved and after one week most of the corneal blood vessels had become emptied.

Yours faithfully,
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WEBER, G. (1972) Ibid., 86, 253

Aqueous humour lactic dehydrogenase isoenzymes in retinoblastoma

(Brit. J. Ophthal. (1975), 59, 268)

TO THE EDITOR British Journal of Ophthalmology

Sir, Since our paper was published last May we have become aware of additional relevant information we wish to bring to your attention.

We have had the opportunity to study two patients in whom aqueous humour assays were at variance with our previously-reported findings. One patient, with histologically proven retinoblastoma, had a total aqueous humour lactic dehydrogenase (LDH) of 2303 iu/l and a ratio LDH2:LDH1 of only 1:9. The other patient, with bilateral, congenital non-rhegmatogenous retinal detachment and no retinoblastoma, had total aqueous humour LDH levels of 194 and 19, and ratios LDH2 : LDH1 of 24 and 30.

A recent paper by Swartz, Herbst, and Goldberg (1974) supported the original hypothesis of Dias, Senth Shanmuganathan, and Rajaratnam (1971) that retinoblastoma was associated with a raised total aqueous humour LDH, and they referred to a paper (Kaneko and Suzuki, 1972) in which the authors found (as we did) that, although the total aqueous humour LDH was inconsistently raised in retinoblastoma, in seven cases it was associated with an elevated LDH3 isoenzyme (and to a lesser extent LDH2 and LDH4 fractions).

We believe that the aqueous humour LDH assay is currently a valuable diagnostic adjunct in the diagnosis of retinoblastoma, in that both an absolute elevation of the total aqueous humour LDH and a relative elevation of the slow isoenzyme fractions (that is, a 'shift to the right') appear to be suggestive but not diagnostic of retinoblastoma. We wish to encourage further experience with this test to resolve the inconsistencies in the literature, and to define the limits of reliability and the scope of application of this biochemical assay.

Yours faithfully,
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References


Corneal epithelial oedema

TO THE EDITOR British Journal of Ophthalmology

Sir, Over many years some difficulty has been experienced during prolonged three-mirror examinations because corneal epithelial oedema tended to supervene after a few minutes. The solutions being used at this hospital were 1, 2, or 3 per cent hydroxypropyl methyl cellulose (HPMC) in water with phenyl mercuric nitrate 0·002 per cent.

It occurred to us that due to the large size of the HPMC molecule, the osmotic effect of such a solution was almost identical to that of water, hence it was a likely cause of the epithelial oedema.

Accordingly, HPMC was made up in 0·8 per cent sodium chloride instead of pure water.

This solution appears completely to have resolved the problem. The cornea remains crystal clear throughout the most prolonged examination. We thought this information would be of interest and value to readers.

Yours faithfully,
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Aqueous humour lactic dehydrogenase isoenzymes in retinoblastoma
Paul E. Romano and Jack Kabak

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