LETTERS TO THE EDITOR

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6-Methylcortisone Acetate 3-Enol Ethers—A New Group of Anti-inflammatory Agents

SIR,—Following our discovery of a new and highly efficient route to 6-methylated steroids, it has become possible to extend our work on corticoids to the 3-enol ethers of the now readily accessible 6α -methylcortisone acetate (I). The ethers listed in Table I were prepared by adaptation of known methods [cf. Ercoli and Gardi (1960) viz. (a) reaction of (I) with the alkyl orthoformate/alkanol in the presence of toluene p-sulphonic acid and (b) by ether exchange. Antiinflammatory activity was estimated by the turpentine-agar pellet assay described in an earlier communication [Bianchi, David and others (1961)]. The results in the Table were obtained by oral administration, employing prednisolone acetate as standard.

TABLE I

3-Enol ether	Anti-inflammatory activity Prednisolone acetate = 1
Ethyl	1.2
n-Propyl	2.2
i-Propyl	1.7
n-Butly	2.0
i-Butyl	2.1
n-Pentyl	1.1
Cyclopentyl	1.3
n-Hexyl	0.8
Cyclohexyl	1.7
n-Heptyl	0.8
n-Octyl	1.7
Benzyl	0.9
3'-Phenylpropyl	0.4

Maximal anti-inflammatory activity was shown by 6-methyl cortisone acetate 3-enol n-propyl ether and this compound is being examined further.

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