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EXPERIENCES WITH ISOPRENALINE INDUCED MYO- CARDIAL NECROSIS IN THE RAT

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PLATES XXII-XXV

It has been known for some time that sympathomimetic amines at dose levels which would be lethal for humans produce extensive necrosis in the rat myocardium (Rona *et al.*, 1959). The lesions and those produced in the same species by hypoxia have morphological features in common (Niles, Zavin and Morikado, 1968) though this, of course, does not mean that the underlying pathogenetic mechanisms are the same. We have been interested in this model since we thought that it might prove a useful tool for assessing the effects on myocardial susceptibility of certain environmental factors which are believed to have an incremental effect on the mortality from coronary artery disease. Before it could be so used it was considered necessary to carry out pilot studies in order to determine the degree of damage produced in the rat myocardium by such amines and to do this by reproducible objective quantitative methods. This paper records our experiences.

MATERIALS AND METHOD

Four hundred and twenty-five male albino rats weighing approximately 250 g were used in the study. One hundred and forty were of the Sprague-Dawley strain, 85 were of the Wistar strain and 200 were Charles River CD strain.

The amine chosen was isoprenaline and this has been variously administered as the racemate isoprenaline sulphate (Burroughs Wellcome & Co. Ltd, Evans Medical Ltd and Ward Blenkinsop & Co. Ltd), the racemate hydrochloride (Ward Blenkinsop & Co. Ltd) and as a 99 per cent. pure laevo form of isoprenaline hydrochloride supplied by Aldrich Chemical Company, Inc.

The amine was dissolved in distilled water and was given by subcutaneous injection into the right flank. The sulphate and racemate hydrochloride were given as a 100 mg per ml solution, the laevo hydrochloride at a strength of 10 mg per ml. Electrocardiography was carried out on 20 animals and these were sedated with intraperitoneal methohexitone before inserting subcutaneous electrodes. Animals were killed at intervals after injection ranging

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