The danger of cancer trom

Evaluation of the Potential Carcinogenic Action of a Drug. Proceedings of the European Society for the Study of Drug Toxicity, Vol. 3. International Congress Series No. 75. Excerpta Medica Foundation, Amsterdam, 1964. Price not stated.

MANY constituents pharmaceutical preparations have been shown to give rise to cancer when tested in experimental animals.

drugs

At first sight it may seem desirable, without delay, to ban from use in any form of therapy all substances incriminated in this way. However, the situa-tion is much too complicated to allow this simple solution.

In the first place, the gravity of a disease requiring treatment of a disease requiring treatment may be such that the risk that the treatment will give rise to cancer is worth taking, and, in the second place, there may be grounds for suspecting the rele-vance for Man of tests for car-cinogenic activity conducted in cinogenic activity conducted in animals.

animals. The whole position is greatly complicated by the fact that whereas the benefit of an effec-tive drug is usually apparent immediately, manifestations of its carcinogenic activity are un-likely to appear for many years. Some of the problems of evaluating drugs for carcino-genic activity are discussed in these proceedings of the third meeting of the European Society for the Study of Drug Toxicity, in Lausanne in January, 1964. R. Truhant, of Paris, listed therepeutic agents already sus-pected of carcinogenic activity and undoubtedly voiced widely-held, middle-of-the-road views in suggesting the following prin-ciples: suggesting the following principles:

ciples:
(a) If a drug has been shown to be carcinogenic in animals under conditions comparable to those pertaining to its thera-peutic use, and if it can be easily replaced by a function-ally equivalent, but non-carcino-genic product, its use should be prohibited.
(b) If a drug only produces

(b) If a drug only produces cancer in animals under condi-tions quite different from those involved in its clinical use, there is no pressing need to dis-continue prescribing it. (c) Where the facts fall in

between these limits, doctors who are fully informed of the potential dangers should have the freedom and responsibility of deciding each case on its marits

of deciding each-case on its merits. At the same symposium, M. Marois (Paris), after an evalua-tion of the carcinogenic risks entailed in the clinical admini-stration of oestrogens, made the following practical suggestions: (a) oestrogen administration should be avoided in women with cystic mastitis, erosions of the cervix uteri, or a family history of genital cancer. (b) The intermittent administra-tion of oestrogens is not contra-indicated at the time of the menopause when, in point of fact, the greatest frequency of genital tumours occurs. There was general agreement that it is not possible reliably to predict carcinogenic activity on the basis of chemical struc-ture, and A. L. Walpole (Cheshire, England), G. Della Porter (Italy) and J. Elis and H. Raskova (Prague) kept more strictly within the title of the symposium by comparing dif-ferent bioassay fechniques for carcinogenicity. In this connection, the urgent

ferent bloassay techniques its carcinogenicity In this connection, the urgent need for quicker and more relia-ble methods, and the possible value of procedures involving the use of newly-born animals, were stressed. The importance of the subject

The importance of the subject The importance of the subject of the symposium was made clear by I. Berenblum in his introductory address. He said "...one cannot but conclude that a very high proportion of human cancer is, in fact, attri-butable to extrinsic factors, and that such cases are, therefore, potentially preventable. Added to this is the fact that more and more artificial substances are being introduced into our 'normal' environment, the car-cinogenic potentialities of which have never been tested." —F. J. C. Roe