

TABLE 3
RESPONSE OF SPECIES TO ADMINISTRATION OF DYESTUFF INTERMEDIATES

Species	Chemical	Tumor
Man	2-Naphthylamine Benzidine	Bladder carcinoma
Dog	2-Naphthylamine Benzidine	Bladder carcinoma
Cat	2-Naphthylamine Benzidine	Not known
Ferret	2-Naphthylamine Benzidine	Not known
Mouse	2-Naphthylamine Benzidine	Hepatoma
Rat	2-Naphthylamine Benzidine	Bladder papilloma Hepatoma, acoustic gland carcinoma, intestinal carcinoma
Rabbit	2-Naphthylamine Benzidine	Bladder papilloma Not known

metabolites was approximately 200:1. In addition, the dog was found to have a high level of urinary sulfatase, which would aid in the liberation of free 2-amino-1-naphthol from the conjugates. A consideration of these factors has led to the hypothesis that aromatic amines and azo-compounds produce their carcinogenic effects at distant sites along the routes of excretion because they undergo metabolic changes in the animal body, which, coupled with certain favorable local factors, determines their site of action (Clayson, 1953).⁶

OCCUPATIONAL CANCER OF THE LUNG

Two aspects only will be considered: its occurrence in (1) asbestos textile workers; and (2) hematite miners. The series of cases presented here are, as yet, unpublished. For published series the reader is referred to Hueper's thorough survey (1952)⁹ in which he cites 60 cases of cancer associated with asbestosis, 33 of which were reported in Britain. Hueper also refers to 8 cases with coexistence of siderosis and cancer of the lung.

1. Cancer of the Lung in Asbestos Textile Workers

In 1928, or a little earlier, one of the present authors (MJS) began to collect information and material from the workers in 2 factories, and it will be remembered that he was early in the field in describing the peculiar bodies and the significance of their occurrence, especially in clumps, in the sputum (Stewart, 1928;¹⁷ Stewart and Haddow, 1929;¹⁸ Stewart, Tattersall and Haddow, 1932²⁰). Stewart's series consists of postmortem material from 80 persons who had worked in the 2 factories, and were thus likely to inhale asbestos fibers. In 8 persons no pulmonary asbestosis could be demonstrated, though small numbers of bodies were usually present. The effective number for consideration is thus 72, 46 males

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