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Data an ingestion and parentaneauco endres of 2,4. D a D 2,4,5-7 home been reprised in the literature. Pertinent studies and summanuel below.

A. T. Ingestion of Phenoxy Herbicides

Kohli et al (46 mm) in two separate studies gave purified 2,4-D and 2,4,5-T in capsules to human volunteers. Each herbicide was orally administered to six men as the acid at a dose level of 5 mg herbicide per kg body weight (mg/kg). The 2,4-D was quickly absorbed and appeared in the plasma within one hour after ingestion. Seventy-five percent of the administered dose was excreted unchanged in the urine within 96 hours (h). 2,4,5-T was also readily absorbed, being present in the plasma one hour after ingestion. After 96 h, 63 percent to 72 percent of the herbicides had been excreted unchanged by the kidney. Plasma levels peaked between seven and twenty-four hours for both 2,4-D and 2,4,5-T and the half-lives for plasma clearance were 33 and 18 h respectively. In a study by Saueroff et al (70) in 1977, five male humans ingested 5 mg/kg of 2,4-D. Essentially all was absorbed from the gastrointestinal tract. It was eliminated from the plasma with an average half-life of 11.6 hours and from the urine with an average half-life of 17.7 hours. Eighty-two and three tenth percent was excreted unchanged and 12.8 percent in a conjugated form for a 95.1 percent total recovery. Utilizing this rate of clearance, 99 percent of the steady state would be reached in about three days making body accumulation of repeated exposure unlikely.

Milbey et al (2) applied "FC-2,4-D

at the rute of Hug/cm² to the forearms
of six normal male valuntage. The voluntae

were requested not to wash the site
of application for 24 hours. Unine samples

were callected in a metabolic fashion

for fine consecutive days. When aliquots

were expressed as five -day chrinary

recovery in percent of dose applicat to

but skin. A total of 5,8 percent a fire

7,4-D dose was recovered dury the

LITERATURE Sources:

Data on the percutaneous absorption of 2,4.5.7 are available from 5 ludies by Milby et al (2), tary (1). Data on the chemistry of Drange, Tedd concentrations in the formulations, and industrial hygiene data from Propert PACER HO have been published by yours et al. (3)

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