PX 2042

Occupational exposure

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Review of the available literature suggests a clinical syndrome that is produced by the halogenated biphenyls, naphthalenes, dibenzodioxins and dibenzofurans.

TABLE 9C.1
Symptoms and signs reported after occupational exposure.

System	Lesion	Chemical	Reference[a]
General	bloodshot eyes, lassitude, headache, abdominal pain, impotence, weight loss, insomnia, alopecia, disturbance in taste	chlorinated naphthalenes	Good and Persky, 1943
		technical pentachlorophenol	Bander and Bauer, 1951; Behrbohm, 1959
		2,3,7,8-tetrachlorodibenzodioxin	Jirasek et al., 1974
		chlorinated biphenyls	Jones and Alden, 1936
Skin[b]	chloracne, pruritus	2,3,7,8-TCDD	Klimmig and Schulz, 1957
		chlorinated biphenyls	Jones and Alden, 1936
		chlorinated naphthalenes	Good and Persky, 1943
		tech: pentachlorophenol	Behrbohm, 1959
		other tech. chlorinated phenols	Stingily, 1930; Dubois and Colomb, 1956
Liver	acute yellow atrophy, hepatocellular necrosis, mild fibrosis, fatty change, abnormal liver function, porphyria cutanea tarda	chlorinated naphthalenes (tetra-, penta-, hexa-)	Collier, 1943
		2,3,7,8-TCDD	Bauer et al., 1961; Bielberg et al., 1964; Goldmann, 1972; Jirasek et al., 1974
		tech. pentachlorophenol	Truhaut et al., 1952; Gordon, 1956
		polychlorinated biphenyls (abnormal liver function tests)	Ouw et al., 1976
Digestive tract	anorexia, vomiting, hemorrhage	chlorinated naphthalenes	Good and Persky, 1943; Dwyer, 1946
		2,3,7,8-tetrachlorodibenzodioxin	Hofmann, 1957; Goldmann, 1972
Peripheral nervous system	sensory neuropathy, peripheral neuritis	2,3,7,8-tetrachlorodibenzodioxin	Goldmann, 1972; Jirasek et al., 1974
Respiratory system	bronchitis, reduced vital capacity	technical pentachlorophenol	Bander and Bauer, 1951
		polychlorinated biphenyls	Warshaw et al., 1979

a. The symptoms and signs listed were observed by a number of other authors. The references listed serve merely as examples.
b. Depigmentation was reported in blacks for chlorinated naphthalenes by Collier (1943).