

XIV. SELECTED BIBLIOGRAPHY (Key References)

A. GENERAL REFERENCES

Meek, Stephen L., An estimate of the relative exposure of U.S. Air Force crew-members to agent orange. Masters degree thesis, University of Washington, School of Public Health and Community Medicine, Seattle, 26 February 1981.

Young, A. L., J. A. Calcagni, C. E. Thalken and J. W. Tremblay. 1978. The toxicology, environmental fate, and human risk of Herbicide Orange and its associated dioxin. USAF Occupational and Environmental Health Laboratory, Brooks Air Force Base, Texas. Technical Report OEHL-TR-78-92. 247 p.

International Agency for Research on Cancer. 1978. IARC Internal Technical Report No. 78/001. Coordination of epidemiological studies on the long-term hazards of the chlorinated dibenzodioxins/chlorinated dibenzofurans. Joint NIEHS/IARC Working Group Report. Lyon, France. 44 p.

Report by the Comptroller General of the United States. April 7, 1979. Health effects of exposure to Herbicide Orange in South Vietnam should be resolved. General Accounting Office Pub. CED-79-2. 38 p.

B. PHARMACOKINETICS OF 2,4-D

Berndt, W. O. and F. Koschier. 1973. In vitro uptake of 2,4-dichlorophenoxyacetic acid (2,4-D) and 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) by renal cortical tissue of rabbits and rats. Toxicol. Appl. Pharmacol. 26:559-570.

Clark, D. E., J. S. Palmer, R. D. Radeleff, H. R. Crookshank and F. M. Farr. 1975. Residues of chlorophenoxy acid herbicides and their phenolic metabolites in tissues of sheep and cattle. J. Agric. Food Chem. 23(3):573-578.

Elo, H. and P. Ylitalo. 1977. Substantial increase in the levels of chlorophenoxyacetic acids in the CNS of rats as a result of severe intoxication. Acta Pharmacol. Toxicol. 41:280-256.

Erne, K. 1966. Distribution and elimination of chlorinated phenoxyacetic acids in animals. Acta Vet. Scand. 7:264-271.

Grunow, W. and G. Bohme. 1974. Über den Stoffwechsel von 2,4,5-T und 2,4-D bei Ratten und Mäusen. (Metabolism of 2,4,5-T and 2,4-D in rats and mice.) Arch. Toxicol. 32:217-225. (German)

Khanna, S. and S. C. Fang. 1966. Metabolism of ¹⁴C-labelled 2,4-dichlorophenoxyacetic acid in rats. J. Agric. Food Chem. 14(5):500-503.

International Agency for Research on Cancer. 1977. 2,4-D and esters. P. 111-199. In IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Vol. 15. Some Fumigants, the Herbicides 2,4-D and 2,4,5-T, Chlorinated Dibenzodioxins, and Miscellaneous Industrial Chemicals. Lyon, France.

C. PHARMACOKINETICS OF 2,4,5-T

Bohme, C. and W. Grunow. 1974. Über den Stoffwechsel von 4-(2,4,5-trichlorophenoxy)-buttersäure bei Ratten. (Metabolism of 4-(2,4,5-trichlorophenoxy)-butyric acid in rats.) Arch. Toxicol. 32:227-231. (German.)

Dencker, L. 1976. The herbicide 2,4,5-T: Early placental barrier and accelerated fetal uptake with advancing gestation. P. 59-79. In Tissue Localization of Some Teratogens at Early and Late Gestation Related to Fetal Effects. Acta Pharmacol. Toxicol. 39(Suppl 1): 131p.

Ebron, M. And K. D. Courtney. 1976. Difference in 2,4,5-T distribution in fetal mice and guinea pigs. Toxicol. Appl. Pharmacol. 37:144-145.

Fang, S. C., E. Fallin, M. L. Montgomery and V. H. Freed. 1973. The metabolism and distribution of 2,4,5-trichlorophenoxyacetic acid in female rats. Toxicol. Appl. Pharmacol. 24:555-563.

Lindquist, N. G. and S. Ullberg. 1971. Distribution of the herbicides of 2,4,5-T and 2,4-D in pregnant mice: Accumulation in yolk sac epithelium. Experientia 27:1439-1441.

Piper, W. N., J. Q. Rose, M. L. Leng and P. J. Gehring. 1973. The fate of 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) following oral administration to rats and dogs. Toxicol. Appl. Pharmacol. 26:339-351.

Sauerhoff, M. W., W. H. Braun, G. E. Blau and P. J. Gehring. 1976. The dose-dependent pharmacokinetic profile of 2,4,5-trichlorophenoxy acetic acid following intravenous administration to rats. Toxicol. Appl. Pharmacol. 36:491-501.

D. PHARMACOKINETICS OF TCDD

Allen, J. R., J. P. Van Miller and D. H. Norback. 1975. Tissue distribution, excretion and biological effects of [¹⁴C] tetrachlorodibenzo-p-dioxin in rats. Food Cosmet. Toxicol. 13:501-505.

Piper, W. N., J. Q. Rose and P. J. Gehring. 1973. Excretion and tissue distribution of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the rat. Advan. Chem. Ser. 120:85-91.

Reggiani, G. 1978. The estimation of TCDD's toxic potential in the light of the Seveso accident. 20th Congress of the European Society of Toxicology, Berlin (West), June 25-28. 20p.

Rose, J. Q., J. C. Ramsey, T. H. Wintzler, R. A. Hummel, and P. J. Gehring. 1976. The Fate of 2,3,7,8-tetrachlorodibenzo-p-dioxin following single and repeated oral doses to the rats. *Toxicol. Appl. Pharmacol.* 36:209-226.

Vinopal, J. H. and J. E. Casida. 1973. Metabolic stability of 2,3,7,8-tetrachlorodibenzo-p-dioxin in mammalian liver microsomal systems and in living mice. *Arch. Environ. Contam. Toxicol.* 1(2):122-133.

E. PHARMACOKINETICS OF 2,4-D AND 2,4,5-T IN MAN

Coutselinis, A., R. Kentarchou and D. Boukis. 1977. Concentration levels of 2,4-D and 2,4,5-T in forensic material. *Forensic Sci.* 10:203-204.

Gehring, P. J., C. G. Kramer, B. A. Schwetz, J. Q. Rose and V. K. Rowe. 1973. The fate of 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) following oral administration to man. *Toxicol. Appl. Pharmacol.* 26:352-361.

Kohli, J. D., R. N. Khanna, B. N. Gupta, M. M. Dhar, J. S. Tandon and K. P. Sircar. 1974. Absorption and excretion of 2,4-dichlorophenoxyacetic acid in man. *Xenobiotica* 4(2):97-100.

Kohli, J. D., R. N. Knanna, B. N. Gupta, M. M. Dhar, J. S. Tandon and K. P. Sircar. 1974. Absorption and excretion of 2,4,5-trichlorophenoxyacetic acid in man. *Arch. Int. Pharmacodyn. Ther.* 210:250-255.

Nielsen, K., B. Kaempe, and J. Jensen-Holm. 1965. Fatal poisoning in man by 2,4-dichlorophenoxyacetic acid (2,4-D).

Ramsey, J. C., T. L. Lavy, and W. H. Braun. 1979. Exposure of forest workers to 2,4,5-T: Calculated dose levels. Toxicology Laboratory, Dow Chemical Company USA, Midland, Michigan. Mim. Unpublished data, 32p.

Sauerhoff, M. W., W. H. Braun, G. E. Blau and P. J. Gehring. 1977. The fate of 2,4-dichlorophenoxyacetic acid (2,4-D) following oral administration to man. *Toxicology* 8:3-11.

F. CELLULAR MECHANISMS OF ACTION OF TCDD

Crow, K. D. 1970. Chloracne. *Trans. St. John Hosp. Derm Soc.* 56:79-99.

Courtney, K. D. and J. A. Moore. 1971. Teratology studies with 2,4,5-trichlorophenoxyacetic acid and 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol. Appl. Pharmacol.* 20:396-403.

- Green, S. 1977. Cytogenetic effects of TCDD on rat bone marrow cells. FDA By-Lines 7(6):292.
- Hussain, S., L. Ehrenberg, G. Lofroth, and T. Gejvall. 1972. Mutagenic effects of TCDD on bacterial systems. Ambio 1 (1):32-33.
- Poland, A. and A. Kende. 1976. 2,3,7,8-Tetrochlorodibenzo-p-dioxin: environmental contaminant and molecular probe. Fed. Proc. 35(12):2404-2411.
- Poland, A., W. Greenlee, and A. Kende, 1979. Studies on the mechanism of action of the chlorinated dibenzo-P-dioxins and related compounds. P. 214-230. In Health Effects of Halogenated Aromatic Hydrocarbons. The New York Academy of Science.
- Vos, J. G. and J. A. Moore. 1974. Suppression of cellular immunity in rats and mice by maternal treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin. Int. Arch. Allergy 47:777-794.
- Wasson, J. S., J. E. Huff and N. Loprieno. 1977/1978. A review of the genetic toxicology of chlorinated dibenzo-p-dioxin. Mutation Research 47:141-160.

G. DETECTION OF DIOXIN INDUCED DNA ABERRATIONS

- Buckton, K. E., W. M. C. Brown and P. G. Smith. 1967. Lymphocyte survival in men treated with X-rays for ankylosing spondylitis. Nature 214:270-272.
- Czeizel, E. and J. Kiraly. 1976. Chromosome examinations in workers producing klorinol and buvinol. P 239-256. In The Development of a Pesticide as a Complex Scientific Task. L. Banki (Ed). Medicina (Budapest).
- Green, S. and F. S. Moreland. 1975. Cytogenetic evaluation of several dioxins in the rat. Toxicol. Appl. Pharmacol. 33(1):161.
- Hay, A. 1977. Identifying carcinogens. Nature 269:468-470.
- Hay, A. 1978. Vietnam's dioxin problem. Nature 271:597-598.
- Tenchini, M. L., R. Giorgi, C. Crimaudo, G. Simoni, F. Nuzzo, and L. de Carli. 1977. Approaches to examination of genetic damage after a major hazard in chemical industry: preliminary cytogenetic findings in TCDD exposed subjects after Seveso accident. Presentation at the Expert Conference on Genetic Damage Caused by Environmental Factors, Oslo, Norway, May 11-13, 1977.

H. ANIMAL STUDIES

Allen, J. R., D. A. Barsotti, J. P. Van Miller, L. J. Abrahamson and J. J. Lalich. 1977. Morphological changes in monkeys consuming a diet containing low levels of 2,3,7,8-tetrachlorodibenzo-p-dioxin. Food Cosmet. Toxicol. 15:401-410.

Kociba, R. J., D. G. Keyes, J. E. Beyer, R. M. Carreon, C. E. Wade, D. A. Dittenber, R. P. Kalmins, L. E. Frauson, C. N. Park., S. D. Barnard, R. A. Hummel and C. G. Humiston. 1978. Results of a two-year chronic toxicity and oncogenicity study of 2,3,7,8-tetrachlorodibenzo-p-dioxin in rats Toxicol. Appl. Pharmacol. 46:279-303.

Kociba, R. J., D. G. Keyes, R. W. Lisowe, R. P. Kalmins, D. D. Dittenbar, C. E. Wade, S. J. Gorzinski, N. H. Mahle and B. A. Schwetz. 1979. Results of a two-year chronic toxicity and oncogenic study of rats ingesting diets containing 2,4,5-trichlorophenoxyacetic acid (2,4,5-T.) Food Cosmet. Toxicol. (In Press.)

Lamb, J., J. Moore, and T. Marks, 1980. Reproduction and fertility in treated male mice and evaluation of congenital malformations in their offspring. Congressional Record, August 6, 1980. P. S10904-11.

McConnell, E. E., J. A. Moore and D. W. Dalgard. 1978. Toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in rhesus monkeys (*Macaca mulatta*) following a single oral dose. Toxicol. Appl. Pharmacol. 43:175-187.

McNulty, W.P. 1977. Toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin for rhesus monkeys: brief report. Bull. Environ. Contam. Toxicol. 18:108-109.

Rowe, V. K. and T. A. Hymas. 1954. Summary of toxicological information on 2,4-D and 2,4,5-T type herbicides and an evaluation of the hazards to livestock associated with their use. Am. J. Vet. Res. 15:622-629.

Schantz, S.L., D. A. Barsotti, and J.R. Allen. 1979. Toxicological effects produced in non-human primates chronically exposed to 50 ppt 2,3,7,8-tetrachlorodibenzo-p-dioxin. Presented at Meetings of Society of Toxicology, New Orleans, March 15, 1979.

I. CASE STUDIES

Berkley, M. C. and K. R. Magee. 1963. Neuropathy following exposure to a dimethylamine salt of 2,4-D. Arch. Intern. Med. 111:351-353

Bleiberg, J., M. Wallen, R. Brodkin, and I. L. Applebaum. 1964. Industrially acquired porphyria. Arch. Dermatol. 89:793-797.

Brandt, M. R. 1971. Herbatoxforgiftning, en Kort oversigt og et nyt til-faelde. (Herbatox poisoning, a brief review and a report of a new case). Ugeskrift for Laeger 133:500-503. (Danish).

Crow, K. 1978. Chloracne: the chemical disease. New Scientist 78-80.

Jirasek, L., J. Kalensky, and K. Kubec. 1973. Acne chlorina a porphyria cutanea tarda pri výrobe herbicid. (Acne chlorina and porphyria cutanea tarda during the manufacture of herbicides. Part I.) Ceskoslovenska Dermatologie 48(5):305-317.

Jirasek, L., J. Kalensky, K. Kubec, J. Pazderova and E. Lukas. 1974. Acne chlorina, porphyria cutanea tarda a jine projevy celkove intoxikace pri výrobe herbicid. (Acne chlorina, porphyria cutanea tarda and other manifestations of general intoxication during the manufacture of herbicides, Part II.) Ceskoslovenska Dermatologie 49(3):145-157.

Oliver, R. M. 1975. Toxic effects of 2,3,7,8 tetrachloro-dibenzo-1,4-dioxin-in laboratory workers. Br. J. Ind. Med. 32:49-53.

Taylor, J., 1979. Environmental chloracne; update and overview. P. 295-307. In Health Effects of Halogenated Aromatic Hydrocarbons. The New York Academy of Science.

J. EPIDEMIOLOGIC STUDIES

Alfred, J. E. (Chairman). September 1978. Report on the consultative council on congenital abnormalities in the Yarram District (Australia). Australian Commission on Public Health. Document No. 47-12004/78, Government Printing Office, Melbourne, Australia. 55p.

Axelson, O., and L. Sundell, 1974. Herbicide exposure, mortality and tumor incidence. An investigation on Swedish railroad workers. Scan J. Work, Environ, and Health. 11 (1974) 21-28.

Axelson, O., and L. Sundell, K. Anderson, C. Edling, C. Hogstedt, and H. Kling, 1980. Herbicide exposure and tumor mortality: an updated epidemiologic investigation on Swedish railroad workers. Manuscript.

Cook, R. R., and K. M. Bodner, 28 October 1981. Dioxin and reproductive effects. International Symposium on Dioxins and Related Compounds, Arlington, Virginia.

Eriksson, M., L. Hardell, N. Berg, T. Moller, and O. Axelson, 1979. Case-control study on malignant mesenchymal tumors of the soft tissue and exposure to chemical substances. Lakartidningen 76: 3872-72 (Swedish).

Hardell, L., and A. Sandstrom, 1979. Case-control study: soft tissue sarcomas and exposure to phenoxyacetic acids or chlorophenols. British Journal of Cancer, 39: 711-717.

- Hardell, L., M. Eriksson, and P. Lenner, 1980. Malignant lymphoma and exposure to chemical substances, especially organic solvents, chlorophenols and phenoxyacids. *Lakartidningen* 77(4): 208-210 (Swedish).
- Homberger, E., G. Reggiani, J. Sambeth and H. Wipf. 1979. The Seveso accident: its nature, extent and consequences. Givaudan Research Co. Ltd. and F. Hoffman-LaRoche and Co. Ltd., 4002 Basle, Switzerland. Mim. Unpublished data, 80 p.
- Kramer, C. G. 1970, Revised 1974. Health of employees exposed to 2,4,5-T. Dow Chemical Co., Midland, Michigan. Mim. Unpublished data, 19 p.
- Lavy, Terry L., Scott Shepard, and John D. Mattice, 1980. Exposure Measurements of Applicators Spraying (2,4,5-Trichlorophenoxy) and acetic Acid in the Forest. *J. Agric. Food Chem* 28:626-630.
- Pocchiari, F., Silano, V., Zampier, A. 1979. Human health effects from accidental release of tetrachlorodibenzo-p-dioxin (TCDD) at Seveso, Italy. *Ann. N.Y. Acad. Sci.*, p. 311-320.
- Poland, A. P., D. Smith, G. Metter and P. Possick. 1971. A health survey of workers in a 2,4-D and 2,4,5-T plant. *Arch. Environ. Health* 22(3): 316-327.
- Regianni, G., 1980. Acute human exposure to TCDD in Seveso, Italy. *J. Toxicology and Environmental Health*, 6: 27-43.
- Smith, A. H. 28 October 1981. (Personal communication), International Symposium on Chlorinated Dioxins and Related Compounds, Arlington, Virginia.
- Theiss, A., and R. Frentzel-Beyme, 1977. Mortality study of persons exposed to dioxin following an accident which occurred in the BASF on November 13, 1953. Presented at the Fifth International Conference of Medicem, San Francisco, California, September 1977.
- Tung, T. T. 1973. Le Cancer primaire du foie au Vietnam. (Primary cancer of the liver in Vietnam.) *Chirurgie* 99(7):427-36. (French).
- Zack, J., and R. Suskind, 1980. The mortality experience of workers exposed to tetrachlorodibenzodioxin in a trichlorophenol process accident. *J. Occupational Medicine* 22(1): 11-14.
- Report of Assessment of a Field Investigation of Six-year Spontaneous Abortion Rates in Three Oregon Areas in Relation to Forest 2,4,5-T Spray Practices. Epidemiologic Studies Program, Human Effects Monitoring Branch, Environmental Protection Agency, Washington, DC, February 29, 1979. Mim. Unpublished data, 100 p.

K. STATISTICAL REFERENCES

- Armitage, P. 1971. Further analysis of qualitative data. P 384-391. In Statistical Methods in Medical Research. John Wiley and Sons, New York.
- Bishop, Y. M. M., S. E. Fienberg, and P. W. Holland. 1975. Models for three-dimension arrays. P 31-42. In Discrete Multivariate Analysis: Theory and Practice. The MIT Press, Mass.
- Breslow, N. 1970. A generalized Kruskal-Wallis test for comparing k samples subject to unequal patterns of censorship. Biometrika 57:579-594.
- Breslow, N. E., and J. Crowley. A large sample study of the life table and product limit estimates under random censorship. Ann. Stat. 2:437-453.
- Breslow, N. E. and N. E. Day. 1975. Indirect Standardization and multiplicative models for rates, with reference to the age adjustment of cancer incidence and relative frequency data. J. Chron. Dis. 28:289-303.
- Breslow, N. E. 1975. Analysis of survival data under the proportional hazards model. Int. Stat. Rev. 43: 45-58.
- Carpenter, R. G. 1977. Matching when covariables are normally distributed. Biometrika 64:299-307.
- Chiang, C. L. 1968. Chapters 9-12, P 189-296. In Introduction to stochastic processes in biostatistics. John Wiley and Sons, New York.
- Copeland, K. T., M. Checkoway, A. J. McMichael, and R. H. Holbrook. 1977. Bias due to misclassification in the estimation of relative risk. Am. J. Epidemiol. 105:488-495.
- Cox, D. R. 1958. The regression analysis of binary sequences. J. R. Statist. Soc. -B. 20:215-232.
- Cox, D. R. 1958. Two further applications of a model for binary regression. Biometrika 45:562-565.
- Cox, D. R. 1966. A simple example of a comparison involving quantal data. Biometrika 53: 215-220.
- Cox, D. R. 1972. Regression methods and life tables. J. R. Statist. Soc. -B 34:087-220.
- Fleiss, J. L. 1973. Analysis of data from matched samples. P 11-80. In Statistical Methods For Rates and Proportions. John Wiley and Sons, New York.
- Frank, J. 1977. Survival analysis with time-dependent covariates. Ph.D. Thesis, University of California, Berkeley, California.

- Gehan, E. 1965b. A generalized two-sample Wilcoxon test for doubly censored data. *Biometrika* 52:650-653.
- Gehan, E. 1965a. A generalized Wilcoxon test for comparing arbitrarily censored samples. *Biometrika* 52:203-223.
- Gross, A. and V. Clark. 1975. Chapter 2, P 23-48. In *Survival Distributions: Reliability Applications in the Biomedical Sciences*, John Wiley and Sons, New York.
- Holford, T., White, C., and Kelsey, J., 1978. Multi-variate analysis for matched case-control studies. *Am. J. Epi.* 107: 245-256.
- Kaplan, E. and P. Meier. 1958. Nonparametric estimation from incomplete observations. *J.A.S.A.* 53:457-581.
- Karger, S. 1972. Cardiovascular studies, P 298 In *Medical Primatology*, Part III. Basel, Munchen.
- Mantel, N. 1966. Evaluation of survival data and two new rank order statistics arising in its consideration. *Cancer Chemotherapy Reports* 50:163-170.
- Mantel, N. 1967. Ranking procedures for arbitrarily restricted observations. *Biometrics* 23:65-78.
- McCullagh, P., 1978. A class of parametric models for the analysis of square contingency tables with ordered categories. *Biometrika* 65: 413-418.
- McKinlay, S. M. 1977. Pair-Matching: a reappraisal of a popular technique. *Biometrics* 33:725-735.
- McKinlay, S. M. 1975. The design and analysis of the observational study: a review. *J.A.S.A.* 70:503-520.
- Miettinen, O. S. 1969. Individual matching with multiple controls in the case of all-or-none response. *Biometrics* 25: 339-355.
- Miettinen, O. S. 1970. Matching and design efficiency in retrospective studies. *Am. J. Epi.* 91:111-117.
- Peto, R. and J. Peto. 1972. Asymptotically efficient rank invariant test procedures. *J. R. Statist. Soc. -A* 135:185-198.
- Peritz, E. and R. Ray. 1978. Some statistical methods for survival analysis with rare failure. *Comm. Stat.* A7:619-636.
- Schoenfeld, D., 1980. Chi-squared goodness of fit tests for the proportional hazards regression model. *Biometrika* 67: 145-153.

- Stuart, A., 1955. A test for promogeneity of the marginal distributions in a two-way classification. *Biometrika* 42: 412-416.
- Torrance, E. P. 1954. The development of a preliminary life experience inventory for the study of fighter interceptor pilot combat effectiveness. AFPTRC-TR-54-89. Air Force Personnel Training and Research Center, Lackland Air Force Base, Texas.
- Ury, H. K. 1975. Efficiency of case-control studies with multiple controls per case: continuous or dichotomous data. *Biometrics* 31:643-649.
- Walker, W. H. and D. B. Duncan. 1967. Estimation of the probability of an event as a function of several independent variables. *Biometrika* 54:167179.
- Wei, L. J., 1980. A generalized Gehan and Gilbert test for paired observations which are subject to arbitrary right censorship. *J. Am. Statist. Assoc.*, to appear.
- Zuckerman, M. 1972. Manual and research report of the sensation seeking scale. Department of Psychology, University of Delaware, Newark, Delaware.