



Neurotoxicity Risk Assessment for Human Health: Principles and Approaches

By ILO, Unep, Who

World Health Organization, Switzerland, 2001. Paperback. Book Condition: New. Revised edition. 206 x 142 mm. Language: English . Brand New Book ***** Print on Demand *****.This publication summarizes the scientific knowledge base on which principles and methods involved in neurotoxicity risk assessment are based. It is aimed at providing a framework for public health officials, research and regulatory scientists and risk managers on the use and interpretation of neurotoxicity data from human and animal studies and it discusses emerging methodological approaches to studying neurotoxicity. The introductory chapter examines definitions and critical concepts in neurotoxicity and looks at the criteria for quality of data used in risk assessment. This is followed by a detailed discussion of the structure and function of the nervous system, of the special susceptibilities of the human fetus, children and the elderly and of the types of effects on the nervous system. Recent progress in developing validated methods for detecting neurotoxicity in humans is investigated, as is our understanding of the factors that affect the validity and reliability of human neurotoxicological studies. Sources of human data include accidental and occupational exposures, case-studies, clinical evaluations, epidemiological studies, and field and laboratory studies. Standardized neuropsychological tests, validated computer-assisted test...



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