



OPEN Maternal suboptimal selenium intake and low-level lead exposure affect offspring's microglial immune profile and its reactivity to a subsequent inflammatory hit

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Micronutrients such as selenium (Se) are essentials since prenatal life to support brain and cognitive development. Se deficiency, which affects up to 1 billion people worldwide, can interact with common adverse environmental challenges including (Pb), exacerbating their toxic effects. Exploiting our recently validated rat model of maternal Se restriction and developmental low Pb exposure, our aims were to investigate: (i) the early consequences of suboptimal Se intake and low-Pb exposure on neuroinflammation in neonates' whole brains; (ii) the potential priming effect of suboptimal Se and low-Pb exposure on offspring's glial reactivity to a further inflammatory hit. To these aims female rats were fed with suboptimal (0.04 mg/kg; Subopt) and optimal (0.15 mg/kg; Opt) Se dietary levels throughout pregnancy and lactation and exposed or not to environmentally relevant Pb dose in drinking water (12.5 µg/mL) since 4 weeks pre-mating. We found an overall higher basal expression of inflammatory markers in neonatal brains, as well as in purified microglia and organotypic hippocampal slice cultures, from the Subopt Se offspring. Subopt/Pb cultures were highly activated than Subopt cultures and showed a higher susceptibility to the inflammatory challenge lipopolysaccharide than cultures from the Opt groups. We demonstrate that even a mild Se deficiency and low-Pb exposure during brain development can influence the neuroinflammatory tone of microglia, exacerbate the toxic effects of Pb and prime microglial reactivity to subsequent inflammatory stimuli. These neuroinflammatory changes may be responsible, at least in part, for adverse neurodevelopmental outcomes.

Abbreviations

Se	Selenium
Opt	Optimal
Subopt	Suboptimal
Pb	Lead
Veh	Vehicle
LPS	Lipopolysaccharide
CNS	Central nervous system
PND	Postnatal day
OHSC	Organotypic hippocampal slice cultures
IL-1β	Interleukin-1β
IL-6	Interleukin-6
IL-10	Interleukin-10
CD11b	Cluster of differentiation 11b
MRC-1	Mannose Receptor C-Type 1

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Low Level Lead Exposure The Clinical Implications Of Current Research

**J. Stephen Kroll-Smith, Philip M.
Brown, Valerie Gunter**



Low Level Lead Exposure The Clinical Implications Of Current Research:

Low Level Lead Exposure Herbert L. Needleman, 1980

Human Lead Exposure Herbert L. Needleman, 1991-12-07

Human Lead Exposure consists of scientific reviews and important contributions intended to increase the understanding of the legal social and economic forces that have delayed effective prevention of lead toxicity Chapters discuss the history both ancient and recent of lead explore its neurobiology and toxicology review the sources and routes to humans and examine evidence that indicates that lead may affect humans at levels previously thought to be harmless Neurobiologists epidemiologists public health officials and others concerned about the effects of lead on the human population will find a tremendous amount of useful information in this timely volume

Environmental Health Perspectives, 1993

Lead Exposure and Child Development M. Smith, L. Grant, A.I. Sors, 2012-12-06 This book arises out of a workshop on lead exposure and child development which was held at the University of Edinburgh on 8th 12th September 1986 It was organized jointly by the Commission of the European Communities CEC and the US Environmental Protection Agency EPA in association with the UK Department of the Environment and the Scottish Home and Health Department It brought together most of the internationally recognized groups working on the effects of lead exposure on child development including child psychologists psychiatrists neurologists epidemiologists toxicologists statisticians and medical practitioners One of the unique features of the meeting was that it included workers from initially separate fields of lead research in particular those undertaking studies in infants and in older children and those carrying out behavioural research in animals as well as those undertaking biochemical studies on mechanisms of lead effect The structure of this book reflects the main elements of the meeting As such it includes three main sections The first consists of two major state of the art reviews and two invited introductory papers The reviews were prepared for the organizers of the conference by two of the Editors The objectives were to assess critically the state of current knowledge in this field and to provide a scientific basis both for policy decisions and for further research The review prepared by Marjorie Smith for the Commission of the European Communities focusses on methodological and design issues and summarizes our present scientific knowledge in this area

Reproductive and Developmental Toxicity of Metals Tom Clarkson, 2012-12-06 The Permanent Commission and International Association on Occupational Health PCIAOH established in 1969 a Subcommittee on the Toxicology of Metals under the chairmanship of Lars Friberg This committee which later was named the Scientific Committee on the Toxicology of Metals has organized a number of previous meetings that have led to publications in three major areas of metal toxicology a preliminary meeting in Slanchev Bryag Bulgaria in 1971 followed by a meeting in 1972 in Buenos Aires Argentina which produced two reports Dukes and Friberg 1971 Task Group on Metal Accumulation 1973 that discussed the metabolism of metals with special reference to absorption excretion and biological half times The effects and dose response relationships of toxic metals including a discussion of general principles was the second major topic addressed by the Scientific Committee at a meeting in Tokyo in

1974 Nordberg 1976 The philosophy of this conference as well as the previous one in Buenos Aires was based on the concept of a threshold dose for the occurrence of adverse effects In a conference held in Atlanta USA in 1980 the scope of discussion on metal effects was broadened to include the role of metals in carcinogenesis Thus for the first time the Scientific Committee took under consideration the possibility of non threshold relationships Belman and Nordberg 1981 In addition the Scientific Committee on the Toxicology of Metals organized a workshop on metal interactions in Stockholm 1977 Nordberg et al

Illness and the Environment J. Stephen Kroll-Smith, Philip M. Brown, Valerie Gunter, 2000-08 In 25 papers academics and a few environmental scientists activists discuss profound social policy and competing paradigm issues concerning the contested environment disease link in a postnatural world Include discussion questions Kroll Smith is a professor of sociology at the U of New Orleans Annotation copyrighted by Book News Inc Portland OR

Advances in Behavioral Pharmacology N. Krasnegor, D. B. Gray, T. Thompson, 2014-06-03 First published in 1986 This monograph is based on a conference sponsored by the Human Learning and Behavior Branch of the National Institute of Child Health and Human Development NIH The meeting that was held at the Xerox Center in Leesburg Virginia in August 1983 brought together a group of leading researchers for the purpose of providing an overview of the emerging field of developmental behavioral pharmacology More specifically as is evidenced by the chapters in this volume the intent was to put the field into historical perspective render a working definition and outline strategies and tactics for conducting behavioral pharmacological research in the developing organism

The Developmental Neurotoxicity of Lead C. Winder, 2012-12-06 Over the past two millennia environmental lead levels have risen dramatically Patterson 1980 Most of this increase has occurred since the beginning of the present century Murozami et al 1969 and taken into perspective a typical individual living in the industrialized world sustains a lead burden 500 times that of his prehistoric ancestors Patterson 1983 Lead is unique in being an environmental pollutant where the levels deemed clinically toxic are less than an order of magnitude from those that are normally encountered in the population The clinical limit for lead exposure 70 µg Pb / 100 ml blood is about three times the normal value in the range 15-30 µg Pb / 100ml blood This small difference is remarkable from the toxicological standpoint The key concept here is control of dispersal The industrial actions of man bring contact with a wide variety of substances some of which are poisonous or dangerous In such cases protective measures are taken to keep hazardous exposure to a minimum In the case of lead compounds stringent regulations are production and distribution enforced The exception to this is in the dispersal of lead from vehicle exhausts following purchase from the petrol pump Perhaps man's long standing acquaintance with lead in home and industry is responsible for a complacency which until only recently has been unquestioned Beginning in the late 1960s evidence began to accumulate suggesting that lead at relatively low levels of exposure might be causing negative effects on neurobiological function

Scientific Studies in Mental Retardation John Dobbing, A. D. B. Clarke, 1984-06-18

Cost Increases on Four Watershed Projects of the Soil Conservation Service

United States. Congress. Senate. Committee on Environment and Public Works. Subcommittee on Water Resources,1984

Morbidity and Mortality Weekly Report ,1990-07 **MMWR.** ,1990 *Changing Metal Cycles and Human Health*

J.O. Nriagu,2012-12-06 of metal interactions with subcellular biochemical systems usually either are metabolites of the system affected porphyrinurias or represent some specific function of a cellular system being impaired proteinurias One typically finds a continuum of symptoms from the subtle or so called no effect bio chemical and physiological indicators of exposure to severe clinical disease and death This continuum is the basis of much of the controversy since many health officials follow the traditional practice of applying the threshold health effect concept in evaluating the problems of environmental exposure to metals The past decade or so however has seen a vast increase in our understanding of the effects of elevated concentrations of toxic metals in local populations and ecosystems At the same time there is a growing awareness that the effects of the metals which occur naturally in the environment must be distinguished from those imposed by the pollutant fraction This point was amply document ed in a recent study of cadmium intake and cadmium in a number of human tissues in Sweden Japan and the United States which showed fairly conclu sively that the background exposure in Japan was about threefold higher than in the other two countries 2 One immediate implication is that any health ef fect studies of cadmium in Japan using control groups within that country are liable to underestimate the difference between the exposed and the control groups simply because of the the high background intake *Lead Contamination* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health and the Environment,1988 *Neurotoxicology* Kenneth Blum,L. Manzo,1985-07-30 *Lead Pollution From Motor Vehicles 1974-1986* P. Farmer,2003-09-02 This bibliography brings together a wide range of material on the problem of environmental lead pollution from motor vehicles published during 1974 1986 It includes research and surveys from a number of countries and covers the effects of exhaust gas lead on humans including children **Neurotoxicity : identifying and controlling poisons of the nervous system :**

new developments in neuroscience. , **The Nature and Extent of Lead Poisoning in Children in the United States** ,1988 *Hazardous Waste Contamination of Water Resources* United States. Congress. House. Committee on Public Works and Transportation. Subcommittee on Investigations and Oversight,1984 Environmental and Chemical Toxins and Psychiatric Illness James S. Brown,2008-08-13 During the past 60 years the number of chemical disasters worldwide from military occupational and environmental sources has risen at an alarming rate The profound controversy surrounding many chemicals makes objective analysis nearly impossible Yet now more than ever with the daily exposure to a wide range of chemicals and the increased threat of chemical terrorism it is critical that we understand the role of chemicals in causing psychiatric illness Unlike related books this remarkable reference is intended specifically for psychiatric applications and is thus the definitive sourcebook for the many professionals called on to respond to these events This work stands alone as the first on this topic to be written by a psychiatrist and the first to bring together the military occupational and environmental

exposures causing psychiatric illness including multiple chemical sensitivities mass hysteria radiation exposures community stress reactions and Gulf War and other syndromes Unique highlights include A summary of the reported psychiatric symptoms attributed to each chemical class chemical weapons pesticides fumigants metals solvents gases PCBs Agent Orange and other miscellaneous chemicals in tables for easy reference We use personal care products take prescription drugs pump gasoline drink alcohol and spray insecticides as part of our everyday lives Yet rarely do we realize that significant exposures to the chemicals described in this book many of which we are exposed to in daily activities can damage the central nervous system causing psychiatric illness A comprehensive bibliography in every chapter of all the important material in English language medical journals and books that has appeared on this subject since the late 19th century These bibliographies cover everything from the first published reports of the dangers of carbon disulfide in the French rubber industry dangers that American medicine ignored for years through more recent large scale chemical exposures that have serious long term consequences e g Love Canal The latest information about terrorist and military uses of chemical weapons of critical relevance in psychiatry today from World War I combatants exposed to chlorine phosgene mustard gas arsenic and cyanide to the first organophosphate or nerve gases such as tabun and sarin developed by the Germans before and during World War II and used by Iraq in the Gulf War and by a religious cult in the terrorist subway attacks in Tokyo and Matsumoto Japan Quite simply this book is a must have for psychiatric and medical professionals everywhere with extended appeal among laypersons such as environmental consumer advocates attorneys insurance professionals industrial hygienists disaster planners and medical librarians

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Table of Contents Low Level Lead Exposure The Clinical Implications Of Current Research

1. Understanding the eBook Low Level Lead Exposure The Clinical Implications Of Current Research
 - The Rise of Digital Reading Low Level Lead Exposure The Clinical Implications Of Current Research
 - Advantages of eBooks Over Traditional Books
2. Identifying Low Level Lead Exposure The Clinical Implications Of Current Research
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Low Level Lead Exposure The Clinical Implications Of Current Research
 - User-Friendly Interface
4. Exploring eBook Recommendations from Low Level Lead Exposure The Clinical Implications Of Current Research
 - Personalized Recommendations
 - Low Level Lead Exposure The Clinical Implications Of Current Research User Reviews and Ratings
 - Low Level Lead Exposure The Clinical Implications Of Current Research and Bestseller Lists
5. Accessing Low Level Lead Exposure The Clinical Implications Of Current Research Free and Paid eBooks
 - Low Level Lead Exposure The Clinical Implications Of Current Research Public Domain eBooks
 - Low Level Lead Exposure The Clinical Implications Of Current Research eBook Subscription Services
 - Low Level Lead Exposure The Clinical Implications Of Current Research Budget-Friendly Options
6. Navigating Low Level Lead Exposure The Clinical Implications Of Current Research eBook Formats
 - ePub, PDF, MOBI, and More
 - Low Level Lead Exposure The Clinical Implications Of Current Research Compatibility with Devices
 - Low Level Lead Exposure The Clinical Implications Of Current Research Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Low Level Lead Exposure The Clinical Implications Of Current Research
 - Highlighting and Note-Taking Low Level Lead Exposure The Clinical Implications Of Current Research
 - Interactive Elements Low Level Lead Exposure The Clinical Implications Of Current Research

8. Staying Engaged with Low Level Lead Exposure The Clinical Implications Of Current Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Low Level Lead Exposure The Clinical Implications Of Current Research
9. Balancing eBooks and Physical Books Low Level Lead Exposure The Clinical Implications Of Current Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Low Level Lead Exposure The Clinical Implications Of Current Research
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Low Level Lead Exposure The Clinical Implications Of Current Research
 - Setting Reading Goals Low Level Lead Exposure The Clinical Implications Of Current Research
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Low Level Lead Exposure The Clinical Implications Of Current Research
 - Fact-Checking eBook Content of Low Level Lead Exposure The Clinical Implications Of Current Research
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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