



# **Arsenic in Groundwater: Poisoning and Risk Assessment (Crc Press Co-Pub)**

*M. Manzurul Hassan, Peter J. Atkins*

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The main focus of *Arsenic in Groundwater: Poisoning and Risk Assessment* is to explore the untold stories of groundwater arsenic in view of its poisonous nature for human health, social implications, exposure and risk assessment, worldwide concentrations with space-time dimension, micro level GIS application in spatial arsenic concentration, policy response and mitigation options, and water right and legal issues of safe drinking water. There are very few books on arsenic issues and almost all the books are mainly based on geology, geochemistry and health issues. There is a gap in spatial, social and legal issues of arsenic toxicity, and the lack of literature on GIS-based modeling for spatial risk of arsenic contamination is a serious methodological limitation. Therefore, this book is a departure for health geography with a social science and legal context. The book deals with the arsenic issue within a social science point framework, with the context being set by environmental and legal considerations. Due consideration is given to the methodological issues of spatial, quantitative and qualitative enquiries on arsenic poisoning, for instance using GIS to investigate the distribution of arsenic-laced water in space-time to uncover the pattern of variations over scales from metres to kilometres. The production of spatial risk maps provides an indication to researchers, policy makers, and politicians of possible long-term strategies of mitigation. Qualitative methodological approaches uncover the hidden issues of arsenic poisoning on human health and their social implications as well as their coping strategies and adaptation in the face of community and in-family ostracism. Authors M. Manzurul Hassan, University of Durham, UK; Peter J. Atkins, University of Durham, UK Manzurul Hassan is Professor of Geography and Environment, Jahangirnagar University, Dhaka, Bangladesh. His research interests include the groundwater arsenic poisoning; medical waste management; and water supply and sanitation. He has written 70 research papers/chapters in peer-reviewed journals, including 15 on arsenic poisoning. He has a wide range of consulting experience in groundwater arsenic poisoning, medical waste management, and water supply and sanitation. He is at present a Commonwealth Fellow in the Institute of Hazard and Risk Research (IHRR), Department of Geography, University of Durham, United Kingdom. Peter Atkins is Professor of Geography at the University of Durham. His research interests include the history and geography of food and drink, with particular reference to health outcomes and policy-making. He is also experienced in Bangladesh environmental issues. He is the author of 8 books and 80 articles in peer-reviewed journals, including 11 on arsenic contamination in Bangladesh. Table of Contents Introduction. Worldwide Distribution of Groundwater Arsenic Poisoning. Spatial Arsenic Concentrations and Mapping. Arsenic and Health Impact: People's Experience and Adapting Strategy. Arsenic and Risk Assessment: Spatial Investigation and Dose-Response Analysis. Social Implications of Arsenic Poisoning: A Qualitative Enquiry. Policy Response and Arsenic Mitigation. Environmental Justice and Legal Issues of Drinking Water. Summary and Conclusion. *Arsenic in Groundwater: Poisoning and Risk Assessment* is co-published with CRC Press

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