

The Impact of Toxic Substances on Workers: How Occupational Toxicology Guides Safety Practices

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Abstract

Occupational toxicology is a critical field within occupational health and safety that focuses on understanding the harmful effects of toxic substances encountered in the workplace. Toxic substances, including chemicals, heavy metals, and biological agents, can cause a range of acute and chronic health issues for workers, from respiratory diseases to cancers and neurological disorders. This article explores the impact of toxic substances on workers' health, detailing how occupational toxicology helps identify, evaluate, and mitigate these risks. It highlights the role of toxicological studies in guiding safety practices, regulatory frameworks, and the development of workplace health standards. Through hazard identification, exposure assessment, and risk management strategies, occupational toxicology plays a key role in preventing workplace-related diseases and promoting worker well-being. The article

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