

Effect of Neurotoxicity in the Visual Function of Dry Cleaners

Efecto de la neurotoxicidad en la función visual de trabajadores de lavado en seco

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INTRODUCTION

Dry cleaning workers are exposed to organic solvents, particularly perchloroethylene (PERC), which is one of the most important ones used in this kind of industry. It affects the Central Nervous System (CNS), causing neurotoxicity (Spencer, 1985; World Health Organization, 1985; Candura, 1991). Neurotoxicity is defined as "the ability to induce adverse effects on the CNS and peripheral nerves or sense organs" (Mergler et al., 1990). It manifests as a continuous group of symptoms and effects that depend on the nature of the chemical, dose, duration of exposure and individual characteristics, such as age and build, among others (Baker, 1994). Exposure to neurotoxic substances produces three major types of alterations: a) Sensory — a sense organ is affected; b) Motor — causing paralysis to a lesser or greater degree. c) Changes in learning ability, memory retention and mood (Baker, 1994). Although some substances have a special affinity for certain regions of the CNS, neurotoxins have widespread effects on cellular processes involved in membrane transport in intracellular chemical reactions, in the release of secretor substances (White, 1997).

Neurotoxic substances such as PERC can cross the blood brain barrier due to the higher lipid solubility and interfere directly with the neurological function. Because PERC is a lipid soluble toxin, its main effects are on the lipid structures of the nervous tissue, which have most abundance in the myelin covering of the axon and cell membranes of the neurons. The primary routes of human exposure to PERC are inhalation, ingestion and dermal contact (Hake & Stewart, 1977). PERC vapour is well absorbed following inhalation exposure but dermal exposure is markedly lower than for other solvents (Lomas, Ridgway et al., 2004).

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Neurotoxicity Of The Visual System

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