BEHAVIORAL AND FUNCTIONAL ABNORMALITIES ASSOCIATED WITH HEAVY METAL TOXICITY

Reprint from Townsend News Letter for Doctors & Patients



Duning and Control Names of Control	Aliveria	
Brain and Central Nervous System	Aluminum	
Neurofibrillary Tangles	Aluminum	
Neuritism retrobulbar neuritis; neuropathy	Aluminum, Arsenic, Thallium	
Encephalopathy	Aluminum, Lead Arsenic, Thallium	
Cerebrovascular disease	Mixed Metals	
Alterations in nerve condition velocity	Lead	
Alterations in the spinal cord	Thallium	
Assumulates in CNS structures	Aluminum, Mercury	
Abnormal EEG's	Arsenic, Lead	
Autonomic disturbances	Copper, Lead, Mercury, Thallium	
Peripheral Nervous System	Copper, Lead, Mercury, Thallium	
Peripheral Neuropathy	Arsenic, Mercury	
Alterations in peripheral nerves	Arsenic	
Loss of feeling/numbness in extremities; parathesia	Arsenic, Mercury, Thallium	
Gastrointestinal Tract	Arsenic, Mercury, Thallium	
Nausea, vomiting, diarrhea; loss of appetite	Arsenic, Copper, Mercury, Thallium	
Abdominal Pain, Stomach Cramps, Burning of the	Arsenic, Copper, Lead, Mercury, Thallium	
throat and mouth		
Esophagitis; gastroenteritis; colitis	Arsenic, Mercury, Thallium	
Cancers(colon, pancreatic, stomach or rectal)	Arsenic	
Renal and Hepatic Impairment	Arsenic	
Hepatotoxicity; liver dysfunction, damage	Arsenic, Copper, Thallium	
Cirrhosis of the liver; hepatitis	Copper	
Kidney disease, kidney failure	Arsenic, Lead, Mercury	
Renal Toxicity; tubular proteinosis	Arsenic, Copper, Lead	
Kidney damage, histological alterations	Arsenic, Lead	
Cardiovascular System	Arsenic, Mercury, Thallium	
Blood Vessel Damage	Arsenic	
Anemia; decreased red blood cell count	Arsenic, Copper	
Lead Hypertension; increased heart rate	Arsenic, Copper, Lead, Thallium	
(tachycardia)	The state of the s	
Peripheral vascular disease; cardiovascular	Arsenic, Lead	
disease, vascular collapse	,	
Respiratory System	Arsenic, Lead	
Pulmonary fibrosis	Aluminum, Arsenic	
Pulmonary endema	Mixed Metals	
Pneumonia, laryngitis, pharyngitis, bronchitis	Aluminum, Arsenic, Mercury	
Restrictive airway disorders, asthmatic conditions,	Arsenic, Aluminum	
pneumoconisis		
Respiratory Tract Disorders	Arsenic, cobalt, nickel	
Nasal Ulcers, perforation of the nasal septum	Mixed Metals	
Immune System	Mixed Metals	
Increased evidence of asthma, auto- immune	Mixed Metals	
symptoms, allergies		
Inhibition of lymphocytes, T-Cells, monocytes	Mixed Metals	
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Immunosuppression	Lead
Decreased white blood cell count	Arsenic, Thallium
Reproductive system	Arsenic, Thallium
Genital Abnormalities	Aluminum, Thallium
Disturbances in menstrual cycle; menstrual pains	Copper, Mercury
Birth Defects; Premature Births; Spontaneous Abortion	Arsenic, Lead, Mercury

Reproductive Dysfunction	Arsenic, Aluminum, Cadmium, Lead
Psychiatric Disturbances	Arsenic, Aluminum, Cadmium, Lead
Social Deficits, Social Withdrawl	Mercury
Repetitive, perseverative, stereotyped behaviors, OCD behaviors	Mercury
Depression, mood swings, flat affect, impaired facial recognition	Arsenic, Copper, Lead, Mercury
Scizoid tendencies; hallucinations; delirium	Mercury
Irritability, aggressive behaviors, temper tantrums	Lead, Mercury
Suicidal Behaviors	Copper, Mercury
Sleep difficulties/disturbances	
	Lead, Mercury, Thallium Aluminum, Arsenic Cadmium, Copper,
Chronic Fatigue syndrome(CFS); weakness, malaise	Lead, Mercury, Thallium
Anorexia; symtoms reflecting eating disorders, loss of appetite/weight	Arsenic, Lead, Mercury
Anxiety; nervous tendencies	Thallium
Attentional problems(ADHD), lacks eye contact, impaired visual	Lead, Mercury
fixation	Lead, Meredry
Speech and Language deficits	Lead, Mercury
Speech disorders	Aluminum, Mercury
Loss of speech, developmental problems with language	Mercury
Speech comprehension deficits	Mercury
Dysarthria; articulation problems, slurred speech	Mercury
Cognitive Impairments	Mercury
Mental retardation, borderline intelligence	Arsenic, Lead, Mercury
Uneven performance on IQ scores, low IQ scores	Copper, Lead
Poor concentration, attention deficits (ADHD), response inhibition	Aluminum, Lead
	Aluminum, Lead
Poor memory (short term, verbal and auditory)	Mixed Metals
Difficulties understanding abstract ideas; difficulties carrying out complex commands	Wixed Metals
Dementia; pre-senile and senile dementia	Aluminum
Stupor	Aluminum
Impaired reaction time; lower performance on timed results	Lead
Sensory abnormalities	
,	Lead
Abnormal sensations in the mouth and extremities	Arsenic Lood Margury
Hearing loss and difficulty hearing	Arsenic, Lead, Mercury
Abnormal touch sensations; diminished touch sensations; aversion to touch	Arsenic
Blurred vision; sensitivity to light	Lead, Mercury
Motor Disorders	Lead, Mercury
Choreiform movements, myoclonal jerks, unusual postures	Copper, Mercury
Difficulty walking, swallowing, talking, flapping, circling, rocking, toe walking	Copper Mercury
Problems with intentional movements or imitation	Mercury
Abnormal gait/posture; incoordination; loss of balance; problems	Mercury
sitting, lying, crawling and walking	
Decreases locomotor activity	Aluminum, Arsenic
Convulsions; seizure	Aluminum, Arsenic, Copper, Lead,
	Mercury, Thallium
Other Physical Disturbances	Aluminum, Arsenic, Copper, Lead, Mercury, Thallium
Hypotonia or hypertonia; decreased muscular strength	Mixed Metals
Rashes, contact dermatitis, eczema, itchy/irritating skin	Arsenic, Copper, Lead , Mercury