

TOXIC HEAVY METALS & SPECIFIC EFFECTS

Speech and Language Deficits

<i>TOXIC HEAVY METALS</i>	<i>SPECIFIC EFFECTS</i>
Aluminum, Mercury	Speech Disorders
Mercury	Loss of speech developmental problems with language
Mercury	Speech comprehension deficits
Mercury	Dysarthria, articulation problems, slurred speech, unintelligible speech

Cognitive Impairments

Arsenic, Lead, Mercury	Mental retardation borderline intelligence
Copper, Lead	Uneven performance on IQ scores – low IQ scores
Aluminum, Lead	Poor concentration attention deficits (ADHD) response inhibition
Aluminum, Lead	Poor memory, short term verbal & auditory
Aluminum	Dementia, pre-senile and senile dementia
Aluminum, Lead	Stupor
Lead	Impaired reaction time, lower performance on timed tests

Sensory Abnormalities

Arsenic	Abnormal Sensations in the mouth & extremities
Arsenic, Lead, Mercury	Hearing loss difficulty hearing
Arsenic	Abnormal touch sensations, diminished touch sensations, aversion to touch
Arsenic, Mercury	Blurred vision, sensitivity to light

Motor Disorders

Copper, Mercury	Choreiform movements myoclonal jerks unusual postures
Copper, Mercury	Difficulty walking, swallowing, talking
Mercury	Flapping circling rocking toe walking
Mercury	Problems with intentional movements or imitation
Mercury	Abnormal gait/posture, uncoordination loss of balance, problems sitting, lying, crawling and walking
Aluminum, Arsenic	Decreased locomotor activity
Aluminum, Arsenic, Copper, Lead, Mercury, Thallium	Convulsions, seizure

Respiratory System

Aluminum, Arsenic	Pulmonary Fibrosis
Aluminum, Arsenic, Mercury	Pneumonia, laryngitis, pharyngitis, bronchitis
Arsenic, Aluminum	Restrictive airways disorders, asthmatic conditions, pneumoconiosis
Arsenic	Respiratory tract cancers

Immune System

Lead	Immunosuppression
Arsenic, Thallium	Decreased white blood cell count

Reproductive System

Aluminum, Thallium	Genital abnormalities
Copper, Mercury	Disturbances in menstrual cycle, menstrual pains
Arsenic, Lead, Mercury	Birth defects, premature births, Spontaneous abortion
Arsenic, Lead, Aluminum, Cadmium	Reproductive dysfunction

Other Physical Disturbances

Mercury, Arsenic, Aluminum, Copper	Rashes contact dermatitis eczema itchy/irritating skin
Arsenic, Copper, Lead, Thallium	Muscle pain, headache, acrodynia, colic
Thallium	Alopecia (hair loss)