Inhalants/Aerosols

Inhalants/Aerosols

Glue, gassing, sniffing, chemo, snappers.

Amyl and butyl nitrites (pearls, poppers, rush, locker room, bolt, kix). Nitrous oxides (laughing gas, balloons, whippets).¹

Substances abused include;

Volatile gases: butane, propane, aerosol propellants Solvents: Airplane glue, gasoline, toluene, printing fluid, cleaning solvents, benzene, acetone, spray paint Aerosols: deodorants, hair spray, Freon Anaesthetic gases: Nitrous oxide, chloroform, ether ¹



Characteristics	 Inhaled product enters the bloodstream quickly via the lungs and CNS penetration is rapid¹ 		
	• Intoxication occurs within minutes and can last from a few minutes to an hour ¹		
	• Tolerance develops to desired effect psychological dependence is frequent ¹		
Common signs and symptoms of intoxication can include:			
	Drowsiness Salivation Impaired		
	Dizziness Sneezing judgment and		
Presentation during	Slurred speech Coughing memory		
	Impaired motor Wheezing Loss of inhibitions		
	function		
	Muscle weakness breathing and Euphoria		
	Cramps heart rate Excitation		
	Light sensitivity Hypotension Vivid fantasises		
intoxication ¹	Headache Feeling of		
	Nausea or Changing levels of invincibility		
	vomiting awareness • Delirium		
	Extreme intoxication signs and symptoms may include ¹ :		
	• Acute and chronic effects reported (e.g ataxia, peripheral neuropathy)		
	 MI may occur, primarily with use of halogenated solvents 		
	 Acidosis and hypokalemia 		
	Hepatitis and hepatic necrosis		
	Bone marrow suppression (primarily with benzene and nitrous oxide use)		
	Monitor		
Monitoring and support	Vital signs		
during intoxication ⁵	Mental status		
	Electrolytes		
	Supportive Interventions Use calming techniques and reassurance		
Withdrawal presentation	***After long periods of use, it has been found some inhalant users may experience a		
	withdrawal syndrome comparable to delirium tremens (DTs) that occurs in individuals		
	withdrawing from alcohol. ⁴		
	Other symptoms can include ^{2,3,4}		
	Insomnia, Excessive sweating Depression		
	Muscle tremors and Extreme confusion, Irritability		
	cramps • Anxiety • Dizziness		
	Tremors, Seizures Craving for drug		
	Hallucinations Headache		
	Nausea		

Monitoring and support during withdrawal		emicals being used and the doses received; kact symptoms for each user undergoing
Potential Complications	 High doses can lead to loss of consciou and death.¹ Chronic use can lead to; Fatigue Chronic headache Encephalopathy Hearing loss Visual impairment Sinusitis Rhinitis 	 Laryngitis Laryngitis Weight loss Kidney and liver damage Bone marrow damage Cardiac arrhythmias Chronic lung disease
Drug interactions	 With CNS Depressants Increased impairment of judgment, distortion of reality ¹ Can dangerously suppress the central nervous system. ⁴ With Alcohol, Benzodiazepines, Hypnotics and Narcotics ¹ Increased impairment of judgement Distortion of reality 	
Psychiatric effects	Chronic use can lead to inability to think clearly memory disturbances, depression, irritability, agitation, and paranoia ¹ Inhalant use has also been associated with sleep disorders, delirium, and mood disorders ⁴	

References

1. Bezchlibnyk-Butler, K., Jeffries, J., Procyshyn, R., Virani, A. (2014). Clinical Handbook of Psychotropic Drugs (20th ed). Hogrefe Publishing

2. CAMH, Knowledge Exchange, Taken on March 30, 2015 from http://knowledgex.camh.net/primary_care/guidelines_materials/Pregnancy_Lactation/Pages/per_inhalants.aspx

3. Inhalants. 2012. Taken on March 30th, 2015 from <u>http://drugabuse.ca/inhalants</u>

4. Beyond the Basics. Inhalants. Addiction Foundation of Manitoba. Taken on March 30, 2015 from http://afm.mb.ca/wp-content/uploads/woocommerce_uploads/2013/03/InhalantsBTB.pdf

5. Townsend, M.C. (2015). *Psychiatric Nursing: Assessment, Care Plans, and Medications*. Oklahoma: F.A. Davis Company.