



Substance Abuse

Many addictions have long-lasting, life-destroying effects. There are treatments available and under development to help individuals to free themselves from these dependencies, intoxications and addictions.

Ethylene Glycol Poisoning

Ethylene glycol is an alcohol mainly used as automotive antifreeze. In a pure form, it is odorless, colorless, and syrupy in consistency, with a sweet taste. It is toxic, and accidental ingestion is considered a medical emergency. Because of its sweet taste, children and animals will sometimes consume large quantities of the liquid. Symptoms of poisoning include dizziness, slurred speech, and confusion followed by heartbeat and breathing irregularities. This eventually may lead to kidney failure.

	COMPANY	PRODUCT	PHASE
Ethylene Glycol Poisoning	Jazz Pharmaceuticals	Antizol-Vet / 4MP (fomepizole)	M
	Jazz Pharmaceuticals	Antizol (fomepizole)	M

Methanol Poisoning

Methanol is a sweet alcohol that is often used as an antifreeze, solvent, fuel, and denaturant for ethyl alcohol. It becomes toxic as the liver breaks it down into formaldehyde, which causes destruction of the optic nerve and blindness. Poisoning can also be fatal due to its depressant properties. Methanol can enter the body by ingestion, inhalation or absorption. Symptoms include depression, headache, dizziness, nausea, confusion, unconsciousness and eventually death. It takes, however, several hours for toxic effects to begin so medical treatment should be sought immediately to receive an antidote.

	COMPANY	PRODUCT	PHASE
Methanol Poisoning	Jazz Pharmaceuticals	Antizol (fomepizole)	M

Opium Addiction

Opium is a narcotic analgesic drug that is obtained from an unripe seed of the opium poppy. It is usually smoked or ingested and produces general sedative, painkilling effects. Opium derivatives are pharmacologically used as strong pain killers, such as in cancer therapy. Opium has been used since the time of the Assyrians and was brought to Europe in the early 17th century by Asian traders along the Silk Road. It has since been banned in most parts of the world, though it is still illegally cultivated around the world in places like Afghanistan.

	COMPANY	PRODUCT	PHASE
Opium Addiction	Titan Pharmaceuticals, Inc.	Probuphine	II

Smoking Cessation

The tobacco plant, which has been around for thousands of years, fostered the birth of the cigarette sometime in the 18th century. The chemical compound nicotine, found in tobacco, is highly addictive. For many people, once they begin smoking cigarettes, they find it difficult to stop and often continue the unhealthy habit for years. Not only is the nicotine unhealthy, but the tar from the cigarettes gets stuck in the lungs, building up over the years, often leading to lung cancer. Additionally, inhaling massive quantities of smoke negatively affects the mouth throat and lungs. Many long-time smokers will develop some form of cancer in their lifetime. Because of the many harmful effects of smoking cigarettes, it is imperative to help individuals quit smoking as soon as possible. Many treatments and therapies exist to help smokers quit their habit.

COMPANY	PRODUCT	PHASE	
Impax Laboratories, Inc.	Bupropion Hydrochloride Controlled Release Tablets	M	Smoking Cessation

Weight Management

Every person has his or her own “healthy weight.” For many of us, maintaining our healthy weight is extremely difficult—whether we struggle with being over- or underweight. Numerous medical conditions, unhealthy eating habits, as well as either too much or too little physical activity will lead to deviations from our optimal weight. Unfortunately, most of us in the Western world are overweight due to the pressures and constraints our lifestyle places on us. Despite our efforts to watch our weight, as a society, we are becoming increasingly obese. Sometimes, after years of unhealthy habits, exercise and diet changes are not enough to return to a healthy weight. Many treatments exist to help individuals reach their target weights.

COMPANY	PRODUCT	PHASE	
Corcept Therapeutics, Inc.	Corlux (mifepristone)	II	Weight Management

