ngredients



Vaping vs Smoking

Vaping

Propylene glycol is an organic non-toxic product used as a base for eliquid. It's used in food, toiletries, hospital air sanitizers, air fresheners and fog machines.

- Vegetable glycerin is another non-toxic organic product used as a base for eliquid. It is the base used in the non-nicotine ecigs we see in the pharmacies.
- Controlled dose of pharmaceutical grade nicotine expressed in mg/ml.
- Natural and artificial flavour.
- Occasionally distilled water or alcohol is used as a thinner.

Smoking

- There are over 600 ingredients that can be added to cigarette tobacco such as smoke flavour, eucalyptus oil, furfuryl mercaptan, snakeroot oil and
 Acetoxydihydrotheaspirane.
- Ammonium salts increase the amount of nicotine absorbed into the bloodstream.
- Menthol numbs the lungs as well as eucalyptol and theobromine chemically stretch the passageway to the lungs to get more smoke into the lungs.
- Lactones reduce the body's ability to get rid of nicotine.
- Acetaldehyde acts as an antidepressant in the brain.

Vaping

- > 70-90% pure water. We always breathe in water, it's called humidity.
- Propylene glycol is extensively tested and safe for inhalation.
- No significant hazard has been identified from inhaling vegetable glycerin.
- > Traces of **nicotine**.
- > Traces of flavour.
- All heavy metals, cancer causing chemicals and toxins found in vapor are at trace levels. Levels in far too low amounts to cause harm or disease.
- Over 9000 observations on the constituents of vapor were compared to workplace exposure standards and all were less than 1% of safety levels (except 2 were less than <5%).</p>

Smoking

- Over 6000 chemicals are produced when tobacco is burned: 1500 cause disease and 69 definitely cause cancer.
- > **Tar**: A sticky, dark brown mixture of a whole bunch of chemicals that clog your lungs.
- Carbon monoxide takes the place of oxygen in your blood, making it harder to get oxygen to your cells.
- Hydrogen cyanide stops the lungs from cleaning themselves by preventing the tiny hairs (cilia) from moving bad stuff out.
- Hydrocarbons, organic acids, phenols, nitrous oxide and oxidizing agents harm your lungs.
- Free radicals make cholesterol stick to your blood vessels. This makes it hard for the blood to go where it needs to go which can cause heart attacks and strokes.
- Arsenic, cadmium, lead cause all sorts of diseases including cancer.
- Radioactive compounds cause cancer.

Bystanders



Vaping vs Smoking

Vaping

- > Vapor has **light** fragrance.
- Vapor does not make you or anything else stink like smoke.
- Vapor has no risk to bystanders.
- It's highly unlikely that vapor would irritate respiratory conditions considering that smokers with lung diseases that switched to vaping reported decreases in symptoms. Please note, those highly sensitive to otherwise non-irritating substances may find vapour to be the same. In the case that vaping bothers others, vapers should act considerately.

Smoking

- About **600,000 people die** every year from second hand smoke.
- Second hand smoke offends others from the distinctive stench.
- Second hand smoke causes irritation to other people's eyes, nose, sinuses and taste.
- Second hand smoke can trigger asthma and sudden infant death syndrome.
- Second hand smoke makes vehicles, homes and the smoker smell bad.

Vaping

- Millions smokers all over the world have quit smoking by switching to vaping because vaporizers effectively deliver nicotine; uniquely satisfy the ritualistic physical habit of smoking; and mimic the sensations of smoking within the smoker.
- In controlled clinical trials with smokers not intending to quit smoking: after six months 21% had quit smoking using a vaporizer. These clinical trial groups had a total reduction of 60-80%; from 25 cigarettes a day to just 5! Compare this to trials with nicotine patches where only 6% quit smoking.
- Over 25,000 vapers have been surveyed: typically they are long term smokers, 35-45 in age; they had tried to quit an average of nine times and 2 out of 3 had tried nicotine patches and/or gum to quit.
- Over ¾ of these vapers had not had a smoke in the last month. 93% felt vaping was less addictive than smoking. 19% were dual users (smoke and vape) and had reduced the number of smokes a day by 40%.
- Pharmaceutical grade nicotine found in gum (and vaporizers) is shown to be 3X easier to quit than smoking.

Smoking

- > 52% of smokers try to quit every year.
- > 70% of smokers want to quit but believe they can't.
- They have a 4% success rate cold turkey; 8% success with nicotine patches/gum; if intense counselling is added, success can reach 16%.
- Smoking cessation methods currently approved by Health Canada have an 84% failure rate at best!
- Of those successful 'quitters', 80% relapse in the first month and only 5% achieve long term cessation.
- Chemicals are added to tobacco cigarettes to make them more addictive than just nicotine on its own.
- The physical ritual of smoking is a big part of the addiction: bringing a smoke to the mouth; tasting the smoke with a drag; feeling sensations in the throat and lungs on a big inhale; and seeing the visible exhale are repeated 240 times a day for a pack-aday smoker; 87,600 times a year! This physical habit is coupled with a hard hit of nicotine to the brain, making smoking one of the hardest things to quit.



Vaping vs Smoking

Vaping

- Smokers with chronic diseases that switched to vaping showed improvements: 40% with diabetes; 50% with high blood pressure; 42% with high cholesterol; 65% with asthma; 54% with heart disease; and 76% with COPD.
- ➤ 18% of those with lung disease lowered their medication and 18% stopped taking medication after switching to vaping.
- Asthmatic smokers showed an actual reversal of lung damage when they stopped or reduced smoking by vaping.
- ▶ 90% of vapers surveyed stated that their health improved with vaping and 65% said they continue to have a smoking experience but with reduced health risks.
- No serious adverse effects have been caused by vaping.

Smoking

- Tobacco cigarettes have been approved by Health Canada. When used correctly, this product kills 2 out of 3 users.
- Tobacco smoking is the biggest avoidable cause of disease and premature death in Canada and the world.
- Every year 37,000 Canadians die from smoking; one death every 11 minutes!
- About **1.1 million Canadians suffer** from smoking related illnesses.
- Smoking is responsible for 36% of respiratory diseases, 29% of cancers, 14% of cardiovascular diseases, 85% of lung cancer and 87% of COPD.

Vaping

Financial

Vaping can be much cheaper (50%+) than smoking when using a pen style vape. Sub-ohm vaping, which produces thick clouds of vapor, uses a lot more eliquid and the hardware can be pricy.

Social

Vaping is not hazardous to the user or bystander; there is no need to be cast outside. Vapor does not stink like cigarettes and does not irritate others. Smokers can be free of the embarrassment and self-consciousness of smelling like smoke.

Business

Without risk to others, vaping can be done within the workplace. Eliminating the need for smoke breaks increases productivity. Eliminating the toxins and the illnesses resulting from smoking; vapers would take less likely to use as much sick time.

Environment

Vaping produces no polluting butts and most parts of vaporizers are recyclable.

Smoking

Financial

Smoking a pack a day costs about \$4500 per year. Smokers have more sick time and loss of earnings. Smokers are at higher risk for chronic disease which costs money for daily medications and treatments.

Social

Smokers are forced to leave social situations to smoke outside. They carry the embarrassing odour of smoke. Society has developed a judgmental attitude towards smokers. Loved ones worry about smokers' health and can cause conflict because of costs and other concerns.

Business

Smokers cost their employers US\$5,700 a year in lost productivity, sick time and benefits. Groups of people smoking outside a business make the establishments less inviting.

Environment

Most cigarette butts aren't biodegradable and pollute the environment. Ashes are messy and cigarettes are a significant cause of fires.