# What Parents & Carers Need to Know about

Data collected for ASH (Action on Smoking and Health) shows an increase in 11 to 17-year-olds experimenting with vaping: from 7.7% in 2022 to 11.6% in 2023. It's concerning that these age-restricted products are getting into the hands of under 18s as most contain nicotine, which can be detrimental to brain development and cause long-term addiction. Some schools have reported students having their focus in lessons affected by nicotine cravings; vaping in school toilets; and even trying vapes found in their local park. Raising awareness of the risks among young people could help to prevent these problems from escalating and reduce the number of young vapers.

WHAT ARE THE RISKS?

### NICOTINE ADDICTION

Since they were initially developed to help people stop smoking, the vast majority of vape liquids contain nicotine. Not only is this a highly addictive stimulant, but it can also have detrimental effects on brain development in the under-25s. Nicotine can decrease the ability to pay attention, weaken impulse control, affect mood and increase the likelihood of substance addiction as an adult.

## WHAT IS VAPING?

Vapes contain a liquid (vape juice/e-liquid) that is heated by a battery and evaporates, creating a chemical vapour which the user inhales. They can be disposable (once the liquid or battery runs out, the vape is thrown away) or rechargeable (the user replaces the liquid and recharges the battery on demand). Most vape liquids contain nicotine and other chemicals.

#### LACK OF AWARENESS

A proportion of young people tend to view vapes as harmless, mainly because of the products' appearance and the perception (often strengthened on social media) that "vaping is cool" and on trend. In many instances, young people don't fully appreciate the concept of addiction: that is, they aren't adequately aware of the risk of becoming hooked on nicotine before trying a vape.

Many vape liquids have been found to contain 'heavy' metals such as lead, tin, nickel and (in some cases) mercury – all of which are toxic. These metals often take the form of tiny shards inside a device's liquid tank, which are then inhaled into the body. Some media reports have suggested these metals are particularly prevalent in illegally imported vapes which don't comply with UK regulations.

#### UNCLEAR LONG-TERM CONSEQUENCES

The liquids in vapes also contain solvents, which can create carcinogens at the point of evaporation. Vapes were only introduced into the UK in 2005 - and, because of the relatively short timeframe involved, there is insufficient medical evidence to assess the long-term harms that regular inhalation of these chemical fluids might have on the human body.

### ATTRACTIVE PACKAGING

### ENVIRONMENTAL EFFECTS

#### WIDER HEALTH CONCERNS

#### UNREGULATED VAPING PRODUCTS

The number of retailers willing to sell vapes to under-18s is a worry, as the chance of these products being unregulated (and therefore containing illegal chemicals and higher levels of nicotine) is high. A related concern is that the mechanisms inside unregulated products are unlikely to have been tested and safety checked – presenting a possible fire risk if the liquid and battery come into contact.

#### SCARCE INFORMATION

#### VAGUE INGREDIENTS LISTS

## Meet Our Expert

un by the Cambridgeshire and Peterborough Healthy Schools Service commissioned by Cambridgeshire County Council and Peterborough City iouncil), Catch Your Breath is a school-based project aimsed at young people, s goal is to embed a proactive, coordinated approach aimsing both primary nd secondary schools in discouraging smolting and vaping behaviours.





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