

Thirdhand Smoke Resource Center



If someone smokes outside, do they bring thirdhand smoke with them when they enter a home or car?

The Short Answer

Thirdhand smoke is the chemicals left behind when someone smokes tobacco. Thirdhand smoke is unhealthy for people and pets. It can stick around for a long time in homes and cars. It gets into your body if you inhale, swallow, or touch the chemicals. Getting rid of it is really hard and can cost a lot of money.

Yes, after they smoke, people do bring thirdhand smoke with them when they enter a home or car.

When someone smokes, thirdhand smoke sticks to their clothes, skin, and hair. The thirdhand smoke chemicals can transfer from the person to surfaces they come into contact with. The chemicals can be released back into the air, producing a smell of old or stale tobacco smoke.

To avoid people carrying thirdhand smoke into their home or car, ask them to change clothes, wash their hands and face, and shower before entering your home or car.

The Long Answer

Thirdhand smoke is the chemical residue from tobacco smoke. It is also called “tobacco smoke residue” or “stale tobacco smoke.” The chemicals in thirdhand smoke are toxic to humans, especially children. It can linger for years in dust and on household surfaces. It can also become embedded in carpets, furniture, clothes, and building materials. It is difficult and expensive to remove.

When someone who smokes outside enters a car or home, they bring thirdhand smoke with them. Often, they will smell like tobacco smoke, but even if they don't, they still carry thirdhand smoke chemicals on their clothes, skin, hair, and breath. We smell tobacco smoke when the thirdhand smoke chemicals are released into the air, a process known as off-gassing. Some of these chemicals in the air are recognized by the odor receptors in our noses, and our brains tell us that this is the unpleasant smell of stale tobacco smoke.

Once this tobacco residue is brought inside, the effects are similar to when someone

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smokes a cigarette inside your car or home. The gases and particles in the tobacco residue on the hands, clothes, skin, and hair of the person who smoked can be transferred, stick to, and ultimately become embedded in materials and objects. In your home, these include carpets, walls, furniture, blankets, and toys. In your car, these include the seat covers, steering wheel, floor mats, and ceiling liner. The gases and particles can also be released into the air and accumulate in dust. As a result, people and pets may be exposed to toxic thirdhand smoke even though no one smoked inside your car or home.

The first step to avoiding exposure to thirdhand smoke is to tell family members and friends about thirdhand smoke and encourage them to avoid exposure. Ask friends and family who smoke to adopt these strategies to protect others:

1. Always wash your hands and face very carefully after smoking to remove tobacco residue from your skin.
2. Wash clothes worn while smoking each day to avoid releasing toxic compounds into the air.
3. If possible, ask them to shower and change into clean clothes upon entering your home

Be sure to thank them for helping to protect you and your loved ones from toxic thirdhand smoke.

Do you have more questions about the toxic legacy of tobacco smoke, how it affects human health, and what we can do about it? Learn more [here](#).

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