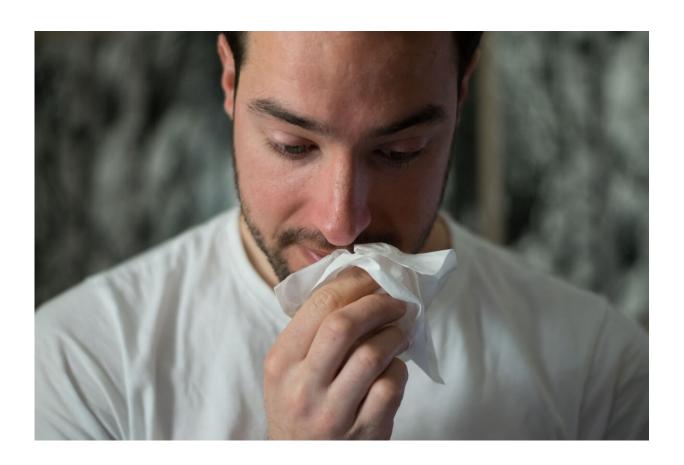


Christmas tree syndrome: Why the festive evergreen can make your nose run—and what you can do about it

December 5 2023, by Samuel J. White and Philippe B. Wilson



Credit: Unsplash/CC0 Public Domain

Decorating the Christmas tree is a beloved tradition for many of us during the festive season. While some people prefer using and reusing an



artificial tree as an environmentally friendly way to enjoy the holiday spirit, others hunt instead for the perfect real tree to adorn with ornaments and cluster presents around.

But some people who decide to get a real tree may find that after it has been decorated they begin to experience cold-like symptoms. While many may simply chalk these symptoms up to having caught a cold—or even COVID—the culprit may actually be a little-known condition called Christmas tree syndrome.

Christmas tree syndrome encompasses a spectrum of health issues triggered by exposure to the <u>allergens residing on live Christmas trees</u>. For those who are sensitive to allergens, prolonged exposure to live Christmas trees can lead to <u>respiratory</u> and <u>skin health issues</u>.

The <u>main symptoms</u> of Christmas tree syndrome include a stuffy or <u>runny nose</u>, sneezing, irritated eyes, coughing, wheezing and itchy throat. Asthma symptoms may also worsen. <u>Skin-related symptoms</u> may include redness, swelling, and itching.

This phenomenon happens thanks to the ecology of live trees, which carry microscopic entities—including <u>pollen and fungi</u>. Pollen, a notorious outdoor allergen, may hitch a ride into our homes, while fungi find a cozy haven in cold, damp Christmas tree farms and garden centers.

Live Christmas trees can also carry mold. Notably, a single Christmas tree can host more than 50 species of mold, creating a habitat for these tiny yet potentially troublesome organisms. Many of the mold varieties found on trees are those most likely to trigger allergies, including Aspergillus, Penicillium, and Cladosporium.

Researchers have also <u>closely measured mold counts</u> in rooms containing



live Christmas trees. During the first three days the tree is indoors, mold spore counts measure about 800 spores per cubic meter of air. On the fourth day, however, spore counts begin rising—eventually reaching 5,000 spores per cubic meter within two weeks.

Mold grows best in <u>warm</u>, <u>wet and humid conditions</u>. So when the tree is brought indoors, the <u>warmer climate significantly increases</u> mold production.

Pine pollen is not a major issue for allergy-sufferers when it comes to Christmas trees. But Christmas trees can come into contact with other known allergens while they're growing, which can then be carried into the house. For example, grass pollen can stick to the sap in a Christmas tree during the spring. Then, when the tree is harvested and brought indoors, the sap dries out, and the trapped pollen particles are released into the air.

Managing symptoms

Certain people are at higher risk of experiencing Christmas tree syndrome. People with asthma or chronic obstructive pulmonary syndrome (COPD) may be more sensitive to allergens—and these allergens may also exacerbate symptoms such as coughing and wheezing.

People who suffer from allergies are also at greater risk—with research showing 7% of allergy-sufferers experienced a spike in symptoms when they had a Christmas tree in their home. People with skin issues (such as contact dermatitis and itching) may also find that their symptoms worsen around fresh Christmas trees.

Timely recognition of symptoms is crucial to mitigate the impact of Christmas tree syndrome. So if you do suffer from allergies, here's what you can do:



- 1. **Select your tree carefully:** Opt for varieties with lower allergenic potential. Fir trees, such as Douglas and Fraser, are known for producing fewer allergens compared to <u>spruce or pine</u>.
- 2. **Inspect your tree:** Conduct a <u>meticulous inspection for signs of fungi</u> before bringing the tree indoors. Focus on areas where moisture may accumulate, as damp conditions foster mold growth. The most common mold found on Christmas trees is Aspergillus, which will look black on the surface and usually white-ish or yellow underneath.
- 3. **Proper maintenence:** Regularly water live trees to prevent dehydration, as this can lead to mold growth. A well-hydrated tree is also less likely to harbor fungus. And since warm, moist environments increase mold growth, try to keep your house ventilated while it's up. You might even consider using a dehumidifier to decrease moisture levels in your home.
- 4. **Minimize direct contact:** Try to avoid too much direct contact when decorating the tree. Wearing gloves might be one may of reducing the risk of skin-related reactions.
- 5. **Go artificial:** Consider artificial trees as a <u>practical alternative</u>. These eliminate the risk of allergens and can be reused—reducing their environmental impact.

Christmas tree syndrome can be a nuisance. But by considering the science and taking precautions, you can ensure an enjoyable and <u>allergen</u> -free festive season.

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