

What's behind the large rise in food allergies among children in the UK?

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The number of people in England with food allergies has more than doubled between 2008 and 2018, a [new study](#) reveals. The researchers, from Imperial College London, found that rates are highest among preschool children, with 4% having a "probable" food allergy.

They also found that a third of those people at risk of anaphylaxis—a life-threatening allergic reaction—don't carry adrenaline autoinjector "pens," such as EpiPens. People in deprived areas were found to be less

likely to have been prescribed these life-saving injectors.

The true number of people with [food](#) allergies has been difficult to establish, with estimates varying between [under 1% and more than 9% of children](#). This is because several methods are used to estimate the frequency of food allergies, including using either the number of prescriptions of adrenaline pens, self-reporting, or blood tests to identify telltale antibodies.

Self-reporting is the least reliable method because many people confuse food intolerance with [allergy](#), as is evident from a [recent report](#) by the UK's Food Standards Agency.

Of the over 30% of adults who reported an adverse reaction to foods, only 6% were subsequently confirmed to have a true food allergy. To bridge this gap in understanding how common food allergies are, the new study from Imperial College took a much broader approach to better estimate the incidence of food allergy.

Population health care data from over 7.5 million people in England and a combination of clinical criteria were used to identify people with food allergies in these health records.

People were considered to have an allergy if doctors indicated they had either had a possible or probable allergy, or if they had been prescribed an adrenaline pen, or both. Using this combination, the number of people with food allergies was shown to have doubled in a decade. Curiously, since 2018, levels have plateaued somewhat at around 4% in [preschool children](#), 2.4% in school-aged children, and under 1% in adults.

The [study](#), published in *The Lancet Public Health*, used a broad range of criteria to identify people with food allergies. Not all cases were

confirmed by [medical professionals](#) using additional tests, such as the presence of antibodies in blood or food-challenge tests where people are given increasing amounts of certain foods to see if an allergic reaction occurs.

Some types of food allergy may have been missed, such as [pollen food allergy syndrome](#). This occurs when people with specific pollen allergies eat some raw foods, including certain stoned fruits, that cause mild irritant symptoms, such as itching of the mouth. Still, there are important questions as to why food allergies have been rising, and why they may now be plateauing.

Puzzling

The trend in the increased rate of allergies in developed countries has puzzled scientists for years. The ["old friend's hypothesis"](#) is one theory that may account for the growing incidence of chronic conditions such as allergies.

This hypothesis considers the role of the microbiome (the collection of helpful bacteria, fungi and viruses that live in and on us), infections and the environment in shaping our [immune response](#) and causing it to misfire.

Evidence to support this theory is accumulating. For example, studies show that [high use of antibiotics](#) in early childhood as the immune system and microbiome are developing is linked to a greater likelihood of allergy in later life.

Pollution exposure can also enhance the risk of allergy and [worsen the severity of symptoms](#).

The food we were exposed to in early life may be important in

determining if we develop an allergy. [Previous advice](#) from the UK government about avoiding early exposure to peanuts and eggs may inadvertently be linked to the rise in food allergies to peanuts and eggs.

Conversely, [studies show](#) that early exposure before the age of five to [peanuts and eggs](#) is [linked to](#) a reduced likelihood of developing an allergy.

The advice in the UK to avoid peanuts and eggs during pregnancy and early childhood was changed in [2009](#), but the trials showing the positive effects of [early exposure](#) to eggs and peanuts were only published in 2015 and 2016. However, it is possible that the plateauing incidence of food allergy cases is linked to changes in advice and the published infant food exposure trials.

Diagnosis is only part of the story. People also need to be able to effectively manage their condition. This requires patients to have access to the right advice and support from experts, such as dietitians, as well as the drugs needed to halt an anaphylactic attack.

For babies diagnosed with a food allergy, there is now [good evidence](#) that incrementally reintroducing the food that causes the allergy can retrain the immune system and might help the child overcome their allergy. However, this must only be done under the guidance of a medical team.

The new study showed that allergy care was largely managed at GP practices in England. However, GP clinics may lack the specialist resources needed for proper allergy support, such as safely re-introducing foods.

It is clear that people in the UK with allergies need better support.

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