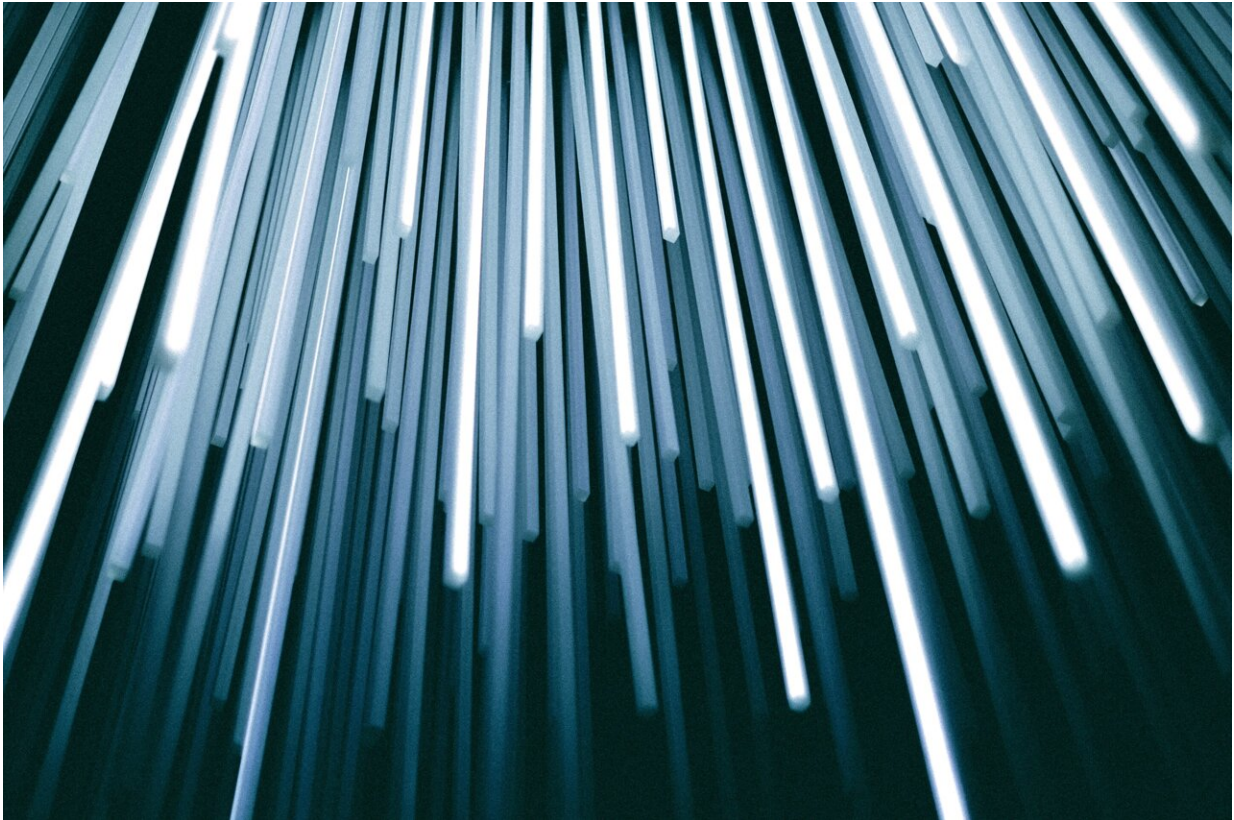


# Why do men have nipples?

September 20 2019, by Michelle Moscova

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Women's nipples have long been a source of fascination and controversy, from celebrity gossip stories of wardrobe malfunctions and "[nip slips](#)" to feminist movements for [gender equality](#). Nipples even became a [fashion accessory](#).

Men's [nipples](#) are a different story. While they don't tend to attract the same type of controversy, people have [long been fascinated](#) about why men have them. The question even made it into a popular science [book](#).

So, if (most) men don't breastfeed, why do men have nipples? The answer lies partly in how we develop in the womb. We'll get to male breast milk later.

## **A long time ago, when you were an embryo ...**

Very early in development, embryos of both sexes have primitive structures that can develop into [either male or female reproductive organs](#) (or rarely into a bit of both).

Several genes determine whether the baby ends up with either male or female reproductive organs. A gene called [SRY](#) (sex-determining region Y) on the short arm of the Y chromosome is considered the master gene.

This is activated when the embryo is around seven weeks old. When activated, it eventually leads to the development of male reproductive organs and the disappearance of the primitive female reproductive duct.

As females don't have a Y chromosome, the primitive female reproductive duct continues to develop into female reproductive organs while the primitive [male reproductive duct disappears](#).

But breasts and nipples start to form *before* the SRY gene has been activated, [between weeks four and six](#). This is when two ridges called mammary crests or milk lines extend between the primitive armpit and the groin.

So, later in male development, even as most of the mammary crest disappears, the cells around the chest that form primitive nipples and

areola smooth muscle remain. These remaining cells go on to form the final breasts and nipples.

## Once you're born

At birth, boys' and girls' nipples and breasts look alike. It's only at puberty, under the influence of hormones, when they begin to change. The nipples of both enlarge but female nipples enlarge more. At the same time, the ducts of the male breasts shrink while female breasts enlarge and remodel. By adulthood, male [nipples are smaller and less variable](#) than female ones.

From an evolutionary standpoint, [some argue](#) male nipples remain, not because they present any advantages for a male, but because they do no harm. There is no benefit in eliminating them.

## When development goes wrong

Sometimes, as with any other body structures, development can go wrong. [Around one in 20](#) people have supernumerary (or extra) nipples. This occurs when parts of the mammary crest remain. Often these nipples are purely cosmetic and resemble nothing more than a small pigmented mole. Only rarely are they fully functional. The highest number of nipples ever recorded on a human male is [seven](#).

## Some men can produce milk

Intriguingly, sometimes males [can produce milk](#). In many cases, this may be caused by recovery from [starvation](#), medical conditions that cause [hormonal imbalances](#), or [medications](#). The milk men produce in these circumstances is [very similar](#) to that of lactating mothers.

## How do men benefit from having nipples?

Unless you're one of the rare men who can use their nipples to breastfeed, men benefit from this seemingly redundant body part for a much more common reason.

Nipples [respond to sexual stimulation](#) in both sexes. One study found [over half the male participants](#) reported feeling enhanced sexual arousal in response to nipple stimulation. There is even [one report](#) describing a heterosexual man who requested breast enlargement to increase sexual function of his nipples.

## How about 'man boobs'?

But for some men, breast enlargement can be the unexpected consequence of being [overweight or obese](#). And as we are seeing more obesity in [western populations](#), we're seeing a rise in "man breasts" or "man boobs", which are mostly being made up of fat deposits.

Breast enlargement in men, or [gynaecomastia](#), can also be caused by a hormone imbalance with a relative excess of estrogens (female hormones) compared to androgens (male hormones). This mostly affects [adolescent boys](#) and usually resolves on its own, although it can persist in as many as [one in 10 men](#). In these cases, it can be associated with [depression, anxiety, disordered eating, body image problems and reduced self-esteem](#).

## Men get breast cancer too

Unusually, men can develop [breast cancer](#) and it can have serious consequences.

Only [0.5-1%](#) of all [breast](#) cancers are diagnosed in men. However, lower awareness of the disease in men means it is more likely to be at an advanced stage when diagnosed. That's why lumps and changes in men's nipples (for example, nipple discharge or skin ulcerations such as cracks in the skin), should be checked by a doctor to rule out cancers.

As we've seen, men's nipples deserve as much attention as women's nipples. Although, this is unlikely to distract the celebrity gossip columnists from their selective obsession with this part of the female anatomy.

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