

# Is this love ... or an arrhythmia? Your heart really can skip a beat when you're in love

February 14 2022, by Hannah Brown, Hui-Chen Han

---



Credit: Designecologist from Pexels

We've seen it in our favorite romantic comedy—and for many of us, we've even felt it in real life. The door of the café swings open, in walks the person of your dreams. Momentarily you're paralyzed. Temporarily

overwhelmed. And then you feel it, in your chest.

Is it love at first sight? Is your heart really beating faster than normal? Does it feel—even just for a second—like it's skipped a beat?

It turns out the movie scenes, songs and poems are right to some extent. Feelings of love and attraction do affect the heart.

## **A heartfelt of feelings ... also blood affected by hormones**

It's actually quite normal for your heart to beat faster (or race) – and can happen when you are [excited](#), [nervous](#), [angry](#) or even if you've had [too many coffees](#).

You've probably heard of the fight or flight response. Well, that also explains the feeling of your heart racing during a romantic moment.

Your brain sends a signal to your adrenal glands, two little hormone-producing organs that sit on top of your kidneys. This produces a small boost of the hormone [adrenaline](#). It moves via your bloodstream directly to your heart, where its action is to temporarily make your [heart beat](#) faster.

The body appears to react this way, even though you're not necessarily in danger. If you were running away from a bear, the increased heart rate would prepare your muscles to run. When love or attraction strikes, this might be your body's way of preparing you to run into the arms of your perfect match.

**Phew! So, it's not life threatening?**

Probably not. Particularly if you don't notice it happening frequently and are otherwise in [good health](#).

In response to a surge of adrenaline, your heart racing is almost certainly due to sinus tachycardia. This is when your heart is still beating in a normal rhythm, but faster—like what happens during a good gym session or a run around the block.

There are other conditions which can cause someone to feel their heart is racing. Supraventricular tachycardia (SVT) is a condition which results from someone having an [extra electrical circuit](#) in the heart. We are all born with natural electrical circuits, but some people have an extra circuit. In certain situations, that circuit activates and causes palpitations. While the symptoms of SVT can be disconcerting, it is usually benign and can be easily treated with a [small surgical procedure](#).

Another condition is [atrial fibrillation](#) (AF), which results in an irregular and sometimes very rapid heart rhythm. AF is the most common arrhythmia seen in clinical practice by cardiologists and its prevalence increases with age.

Approximately [5-10% of Australians](#) will develop AF in their lifetimes. AF can vary in severity, from occasional episodes of electrical disturbance, to a more serious condition that can result in impairment of how the heart pumps, leading to poorer quality of life and a risk of stroke or heart failure. Some AF is [effectively managed with medication](#), while other people may require cardioversion (delivering a small shock to the heart) or ablation (a procedure which deactivates cells in the heart that cause AF).

**That explains the electricity. But can it actually skip a beat?**

Yes. It's absolutely possible for the heart to skip a beat. That can be [triggered](#) by the same things that make your heart race—stress, anxiety, dehydration and a range of other things. These premature beats are almost always benign, meaning they aren't life-threatening or the sign of a heart attack in the making.

So, whether it's love, or the excited thrill in anticipation of love—your heart really does behave differently when romance walks in the door. The best thing we can do for our hearts is [maintain a healthy lifestyle](#). That means exercising regularly, quitting smoking and checking in with your doctor for a [heart](#) health screen to make sure it's just [love](#), and nothing more sinister.

This article is republished from [The Conversation](#) under a Creative Commons license. Read the [original article](#).

Provided by The Conversation

Citation: Is this love ... or an arrhythmia? Your heart really can skip a beat when you're in love (2022, February 14) retrieved 11 August 2024 from <https://medicalxpress.com/news/2022-02-arrhythmia-heart-youre.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--