

# Five surprising findings about death and dying

December 9 2015, by Jonathan Jong

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Just thinking about death triggers odd behaviour, shows research. Credit: Jesse Krauß/wikimedia

In this world nothing can be said to be certain, except death and taxes, as Benjamin Franklin [famously wrote](#). Few of us find taxes exciting, but

*death* – even just thinking about it – affects us profoundly in many different ways. This is why researchers across so many different fields study it from their perspectives.

Here are five research findings – biochemical, medical, genetic, sociological and psychological – that you may not be aware of.

## **1. Decomposing human flesh smells (sickly) sweet**

It is difficult to describe what the stench of death is like, but most people agree it is bad. However, the smell of human decomposition is actually very complex, involving over [400 volatile chemical compounds](#).

We share many of these with other animals, but a [recent study](#) found that there might be five [esters](#) – organic compounds that react with water to produce alcohols and acids – that are unique to humans. This is compared to 26 in other animal species from frogs and robins to pigs. The interesting thing about them is that they are also produced by fruits, especially when they rot. Those familiar with the smell, such as forensic scientists or morticians, often report a "sickly sweet" smell when describing corpses. Now we might know why.

## **2. No, your nails and hair won't keep growing**

You may have heard that our nails and [hair](#) keep growing – at least for a while – after we die. This conjures up creepy images of exhumed corpses with an urgent need for barbers or pedicurists. The idea probably came from actual observations of hair and nail "growth", but it's all an illusion. The truth is that the rest of our bodies shrink due to dehydration, making the nails and hair look longer.

What we think of as hair and nails [are actually already dead](#): the only

living parts are the the [hair follicle](#) and nail matrix under the skin. But these organs require hormonal regulation to produce hair and nails, not to mention the supply of ingredients like proteins and oils which cease upon death, or very soon after.

### 3. Telomere length predicts lifespan

For a long time we thought that our cells might be immortal, and that under the right environmental conditions, they would go on replicating forever. But, [as discovered](#) in 1961, they don't: after some 50 to 70 divisions, they stop. A decade later [a hypothesis](#) was put forward: telomeres – repeated DNA sequences at the ends of our chromosomes – shorten with every division, and when they get too short, divisions stop and the cells die.

Since then, there has been [increasing evidence](#) that [telomere length](#) can be used to predict lifespan, and [not just in humans](#). However, [not all research](#) confirms this, and it is not yet clear whether shortened telomeres are the cause of ageing or just a symptom. If telomere length does control ageing, then it may be possible to significantly lengthen lifespans by manipulating their length. At the moment we still know too little about telomeres to do this, but watch this space.

### 4. The fear of death declines with age

It seems counter-intuitive to think that we would fear death less as we get older, but studies run in the United States have shown this is the case. [One study](#) found that people in their 40s and 50s, expressed greater fears of death than those in their 60s and 70s. Similarly, [another study](#) found that people in their 60s reported less death anxiety than both people in middle age (35 to 50 years) and young adults (18 to 25 years).

[Yet another study](#) found that after a peak in their 20s, participants' death anxiety tended to decline with age. For men, the decline plateaued in their 60s, whereas for women, there was some evidence for a slight bump between their 40s and 50s. I found similar patterns in my own research for a [forthcoming book](#) – but only in the United States. I saw no such trends in Brazil, the Philippines, Russia, and South Korea.

All of these studies also survey people of different ages but fail to follow individuals across their lifespans. It is therefore possible that the relationship between age and [death anxiety](#) is driven by a generational effect: maybe our forebears were just made of sterner stuff than we are.

## 5. Thinking about death makes us prejudiced

Briefly describe the emotions that the thought of your own death arouses in you. Jot down what you think will happen to you physically as you die and once you are physically dead. These are instructions that have been given to thousands of people across over [200 studies](#) over the past 25 years.

The results suggest that thinking about death – compared to thinking about more banal stuff, or even other sources of anxiety – makes people [more tolerant of racists](#); [harsher toward prostitutes](#); [less willing to consume foreign goods](#); and even makes liberals [less supportive of LGBT rights](#).

However, it also makes people [want to have more children](#) and to [name their children after themselves](#). In other words, thinking about death makes us want to pursue symbolic immortality, the vicarious living on through our offspring or through groups we identify with. There is even some evidence that, in the face of [death](#), nonreligious people are [more willing to believe in God](#) and [an afterlife](#).

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