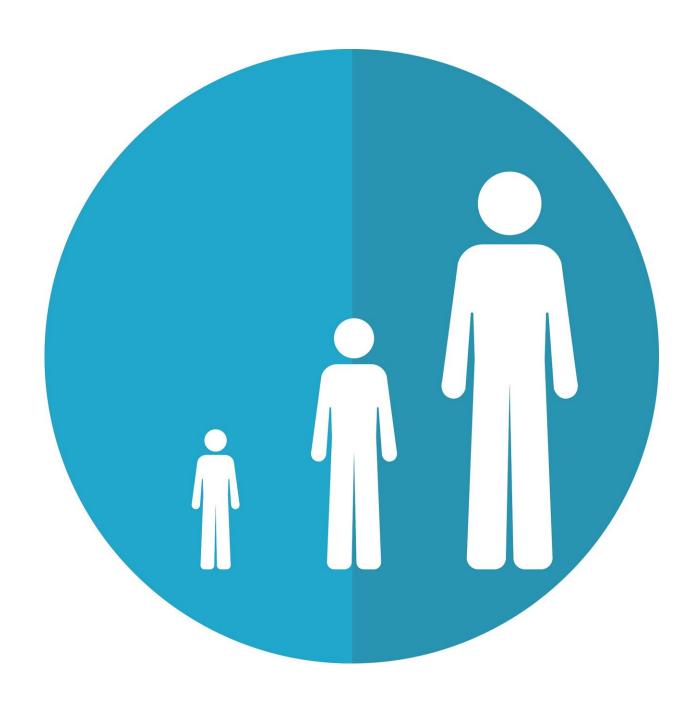


How long can a healthy human live?

January 24 2023



Credit: Pixabay/CC0 Public Domain



The death of the <u>world's oldest person at the age of 118</u> has reignited a debate that has divided scientists for centuries: is there a limit on how long a healthy human can live?

After French nun Lucile Randon died last week, Spanish greatgrandmother Maria Branyas Morera, 115, has assumed the title of the oldest living person, according to Guinness World Records.

Back in the 18th century, French naturalist Georges-Louis Leclerc, known as the Comte de Buffon, theorized that a person who had not suffered an accident or illness could live for a theoretical maximum of 100 years.

Since then, medical advancements and improving living conditions have pushed the limit back by a couple of decades.

A new milestone was reached when Frenchwoman Jeanne Calment celebrated her 120th birthday in 1995.

Calment died two years later at the age of 122. She remains the <u>oldest</u> <u>person</u> ever to have lived—that has been verified, at least.

According to the United Nations, there were an estimated 593,000 people aged 100 years or older in 2021, up from 353,000 a decade earlier.

The number of centenarians is expected to more than double over the next decade, according to the Statista data agency.

The Comte de Buffon might also have been surprised by the rise of supercentenarians—people aged 110 or over—whose numbers have been



increasing since the 1980s.

Natural limit at 115?

So how far could we go? Scientists disagree, with some maintaining that the lifespan of our species is limited by strict biological constraints.

In 2016, geneticists writing in the journal *Nature* said there had been no improvement in <u>human longevity</u> since the late 1990s.

Analyzing global demographic data, they found that the maximum human lifespan had declined since Calment's <u>death</u>—even though there were more <u>elderly people</u> in the world.

"They concluded that human lifespan has a natural limit and that longevity is limited to around 115 years," French demographer Jean-Marie Robine told AFP.

"But this hypothesis is partly disputed by many demographers," said Robine, a specialist in centenarians at the INSERM medical research institute.

Research in 2018 found that while the rate of death increases with age, it slows down after 85.

Around the age of 107, the rate of death peaks at 50-60 percent every year, the research said.

"Under this theory, if there are 12 people aged 110, six will survive to be 111, three to be 112, and so on," Robine said.

A numbers game



But the more supercentenarians, the higher chance a few have to live to make it to record ages.

If there are 100 supercentenarians, "50 will live to be 111 years old, 25 to 112," Robine said.

"Thanks to a 'volume effect', there are no longer fixed limits to longevity."

However Robine and his team are publishing research this year which will show that the rate of death continues to increase beyond the age of 105, further narrowing the window.

Does this mean there is a hard ceiling on how long we can live? Robine will not go that far.

"We will continue to make discoveries, as we always have, and little by little the health of the oldest people will improve," he said.

Other experts are also cautious about choosing a side.

"There is no definitive answer for the moment," said France Mesle, a demographer at the French institute of demographic studies (INED).

"Even if they are increasing, the number of people reaching very old age is still quite small and we still cannot make any significant statistical estimate," she told AFP.

So it might be a matter of waiting for rising numbers of supercentenarians to test the "volume effect".

And of course some future medical breakthroughs could soon upend everything we know about death.



Eric Boulanger, a French doctor specializing in the elderly, said that "genetic manipulation" could allow some people to live for 140 or even 150 years.

© 2023 AFP

Citation: How long can a healthy human live? (2023, January 24) retrieved 10 May 2024 from https://medicalxpress.com/news/2023-01-healthy-human.html

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.