

WORLD Listen 291

VIRUS SPIKE PROTEIN TOXIC TO HEART CELLS

Reinfection, severe outcome more common with Omicron BA.5 variant — research

Research suggests reduced vaccine protection vs BA.5 compared to BA.2

Reuters / 09:31 AM July 29, 2022



FILE PHOTO: A medical worker administers a dose of the "Cominarty" Pfizer-BioNTech coronavirus disease (COVID-19) vaccine to a patient at a vaccination center in Ancenis-Saint-Gereon, France, November 17, 2021. REUTERS/Stephane Mahe/File Photo/File Photo

Compared with the earlier Omicron BA.2 subvariant, currently dominant Omicron BA.5 is linked with higher odds of causing a second SARS-COV-2 infection regardless of vaccination status, a study from Portugal suggests.

EDITORS' PICK MOST READ

NEWSINFO Nancy Pelosi defies China threats and lands in Taiwan

NEWSINFO House energy committee chair Arroyo bats for cheap electricity

BUSINESS PNO Exploration Corporation Notice of Annual Stockholders' Meeting (1 of 2)

NEWSINFO China foreign ministry blasts Pelosi's arrival in Taiwan

NEWSINFO China vows 'targeted military actions' in response to Pelosi Taiwan visit

NEWSINFO US jet that flew Pelosi to Malaysia turns north to Philippines



Ad [X] ... there studied 15,396 adults ... ctected with BA.5.

Subscribe to our daily newsletter

Your e-mail address Sign me up

By providing an email address, I agree to the Terms of Use and acknowledge that I have read the Privacy Policy.

You May Like

Sponsored Links

We use cookies to ensure you get the best experience on our website. By continuing, you are agreeing to our use of cookies. To find out more, please click this link.

I Agree

infection against BA.5 compared to BA.2, the vaccines appeared to be less effective in reducing the risk of severe outcomes for BA.5 compared with BA.2.

“Among those infected with BA.5, booster vaccination was associated with 77% and 88% reduction in risk of COVID-19 hospitalization and death, respectively, while higher risk reduction was found for BA.2 cases, with 93% and 94%, respectively,” the researchers wrote.

While “COVID-19 booster vaccination still offers substantial protection against severe outcomes following BA.5 infection,” they said, their findings provide “evidence to adjust public health measures during the BA.5 surge.”

Virus spike protein damages heart muscle cells

The spike protein on its surface that the coronavirus uses to break into heart muscle cells also triggers a damaging attack from the immune system, according to new research.

The SARS-CoV-2 spike protein interacts with other proteins in cardiac myocytes to cause inflammation, researchers also said during a presentation at the American Heart Association’s Basic Cardiovascular Sciences Scientific Sessions 2022.

In experiments with mice hearts, comparing the effects of SARS-CoV2 spike proteins and spike proteins from a different, relatively harmless coronavirus, the researchers found that only the SARS-CoV-2 spike protein caused heart dysfunction, enlargement, and inflammation.

Further, they found, in infected heart muscle cells only the SARS-CoV-2 spike interacted with so-called TLR4 proteins (Toll-like receptor-4) that recognize invaders and trigger inflammatory responses.

Subscribe to our daily newsletter

Your Email Address...

By providing an email address. I agree to the [Terms of Use](#) and acknowledge that I have read the [Privacy Policy](#).

In a deceased patient with COVID-19 inflammation, the researchers found in both heart muscle cells ppsy of a healthy human heart.



SARS-CoV-2 it will activate the

cells and narrowed down the underlying **INQUIRER.NET** directly inflames the heart muscle cells," he told Reuters. "More work is being done in my lab to test whether and how spike protein kills heart muscle cells."

RELATED STORY:

COVID can reinfect you, raise health risks: What to know

READ NEXT

Abra earthquake fatalities rise to 6 – NDRRMC

Bride's Family Laugh At Groom's Father For Being A Janitor, Then He Reveals His Wedding Gift

Housing Lover | Sponsored

Prime Is Now \$139, But Few Know This Saving Trick

Amazon Prime has millions of subscribers, but only few know about this amazing savings trick!

ExpertsInMoney.co | Sponsored

Learn more

Shoppers Should Think Twice Before Buying From These Stores

Consumers are realizing that they could pay less at certain retailers. Here is how it could be done!

ExpertsInMoney.co | Sponsored

Learn More

David Muir Is Happily Married To His Partner

Daily Finance Stories | Sponsored

Chrissy Metz, 40, Shows Off Massive Weight Loss In Fierce New Photo

Finance Wealth Post | Sponsored



Gets Text That Says "I'm

Don't miss out on the latest news and information.  Like us  Follow us

Subscribe to [INQUIRER PLUS](#) to get access to The Philippine Daily Inquirer & other 70+ titles, share up to 5 gadgets, listen to the news, download as early as 4am & share articles on social media. Call 896 6000.

TAGS: [coronavirus vaccines](#), [COVID-19 reinfection](#), [Omicron BA.5](#), [spike proteins](#)

For feedback, complaints, or inquiries, [contact us](#).



We use cookies to ensure you get the best experience on our website. By continuing, you are agreeing to our use of cookies. To find out more, [please click this link](#).

I Agree