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MENTAL ASSESSMENT TEST

Strong friendships in adolescence may benefit mental health in the long run As a teenager, few things are as important as having close

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friends with whom to share intimate secrets over long phone conversations. But do these friendships also benefit us into adulthood? A new study investigates.



Studies referenced by the authors have shown that teenagers with close friendships tend to be

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more adaptive to stress, report being happier due to an increased feeling of uniqueness, and are likely to do better academically. Additionally, they tend to have higher self-esteem and are more assertive.

But do some of these benefits last into adulthood? To find out, Narr and colleagues examined a community of 169 teenagers aged 15, and they followed them for a period of 10 years until they turned 25.

of mixed race. The median income of their families was between \$40,000 and \$59,999. Narr and team examined the teenagers every year, asking them to fill in questionnaires reporting on their best friends and the quality of their friendships. The researchers also conducted interviews enquiring about the participants' feelings of anxiety, self-worth, and social acceptance. The team examined the teenagers for symptoms of depression and

Of these, 58 percent were Caucasian, 29 percent were African American, and 8 percent were

interviewed their friends, as well. Close friendships predict lower anxiety

High-quality dyadic friendships were described as friendships with a high degree of attachment and support, which allowed them to share intimate feelings. Additionally, Narr and colleagues examined these teenagers' popularity, which was defined as how many school friends sought their company – that is, how many ranked them at the top of the list of peers they would like to spend time with.

The scientists found that those adolescents who put close friendships first at the age of 15

symptoms by the age of 25, compared with their counterparts who did not prioritize such

tended to have lower social anxiety, a higher sense of self-worth, and fewer depressive

Interestingly, those considered highly popular during their teenage years reported greater feelings of social anxiety as adults. "Our research found that the quality of friendships during

during high school may be more prone to social anxiety later in life."

adolescence may directly predict aspects of long-term mental and emotional health," says Narr.

"High school students with higher-quality best friendships tended to improve in several

aspects of mental health over time, while teens who were popular among their peers

- Rachel K. Narr

close, positive relations with friends boost self-worth and self-esteem at a time crucial for selfdevelopment and identity formation. It could also be the case, the authors suggest, that starting off with close friendships in life sets the ground for more positive, supportive relationships throughout the rest of one's life.

"Our study affirms that forming strong close friendships is likely one of the most critical pieces

of the teenage social experience," says study co-author Joseph Allen, who is the Hugh P. Kelly

"Being well-liked by a large group of people cannot take the place of forging deep,

supportive friendships," Prof. Allen adds. "And these experiences stay with us, over and

"As technology makes it increasingly easy to build a social network of superficial friends,

focusing time and attention on cultivating close connections with a few individuals should be a

As this is an observational study, it cannot explain causality. However, the authors venture

some possible explanations. One potential reason for these long-term benefits could be that

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COVID-19 may affect long-term

'fight or flight' response in young adults

New research suggests that young people may experience changes to the sympathetic nervous system after recovering

• A study suggests that young adults who recently recovered from COVID-19 have

• The sympathetic nervous system governs the "fight-or-flight" response.

from COVID-19. Image credit: Mikhail Tereshchenko\TASS via Getty Images

hub for more advice on prevention and treatment.

healthy young people recovering from the infection.

healthy volunteers, who served as controls.

both at rest and in response to a stress test.

The research appears in *The Journal of Physiology*.

Bursts of electrical activity

During the tests, the volunteers lay on their backs on a bed in the lab.

simulate standing up.

their cardiovascular health.

into a nerve behind their knee.

electrical activity in the nerve.

minutes.

state, known as "rest and digest."

response."

increased activity in this branch of their nervous system while at rest. • Compared with controls, they had higher sympathetic nerve activity and a faster heart rate in a test designed to simulate standing up. • If similar disturbances occur in older adults after COVID-19, there may be serious adverse effects on their cardiovascular health. Around a third of otherwise healthy people who have recovered from mild COVID-19 experience the lingering symptoms of long COVID. The most common symptoms include fatigue and shortness of breath, but some individuals also report heart palpitations. This may be a sign that their "autonomic nervous system" is out of balance. The two wings of the autonomic nervous system act together automatically to regulate vital functions such as heart rate and breathing.

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By contrast, the parasympathetic nervous system restores the body to a more stable, restful

Individuals with hypertension (high blood pressure), diabetes, and obesity often have increased

For the first time, researchers have now assessed sympathetic nerve activity in otherwise

When the body perceives a life threatening situation, the sympathetic nervous system

increases heart rate and breathing rate, a reaction that people call the "fight-or-flight

activity in their sympathetic nervous system, which COVID-19 may exacerbate.

They ran a series of tests on 16 individuals aged approximately 20 years old who had tested positive for SARS-CoV-2, the virus that causes COVID-19, around 35 days previously. Before the pandemic, the scientists carried out identical tests on an age-matched group of 14

The tests revealed changes in the sympathetic nervous system of people recovering COVID-19,

There were also differences in heart rate and sympathetic nerve activity in a test designed to

The researchers believe that the same changes in older adults could have adverse effects on

"This is because, with aging, we tend to lose some of the compensatory mechanisms in place to offset the blood-pressure-raising effects of high sympathetic activity," said senior author Dr. Abigail Stickford, from the department of health and exercise science at Appalachian State University in Boone, NC.

"Ultimately, this could also place more strain on the heart," she told *Medical News Today*.

At rest, activity was higher in the participants recovering from COVID-19 compared with controls, though their blood pressure and heart rate were the same. Next, the scientists asked the volunteers to plunge their hands into icy water for 2 minutes — a painful experience that provokes the fight-or-flight response.

Surprisingly, the individuals recovering from COVID-19 had a much less pronounced increase in

However, changes in their heart rate and blood pressure were similar to those in the controls.

Finally, the researchers conducted a standard test designed to simulate the effects on the

They tilted the bed to an angle of 30 degrees for 5 minutes, then 60 degrees for a further 5

There were larger increases in sympathetic nerve activity and heart rate among participants

The body normally compensates for the fall in blood pressure when a person sits up or stands

Doctors use the test to diagnose orthostasis — a fall in blood pressure that occurs when the

body fails to compensate fully, which can cause dizziness, lightheadedness, and fainting.

In a related condition that doctors call postural orthostatic tachycardia syndrome (POTS),

POTS is among the autonomic disturbances or "dysautonomia" that people with long

individuals experience a racing heart or palpitations when they sit up or stand up.

To monitor changes in their sympathetic nerve activity, the researchers inserted a tiny needle

An electrode at the end of the needle recorded the frequency and intensity of bursts of

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recovering from COVID-19 compared with controls.

Racing hearts

up by increasing heart rate.

clinic for patients with dysautonomia.

clinic continues to monitor patients.

COVID-19 pandemic.

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POTS — following COVID-19.

their sympathetic nerve activity. They also reported less pain.

cardiovascular system of standing up, known as the "head-up tilt."

COVID experience. "We have been seeing patients with lingering symptoms of fatigue, palpitations, brain fog and exercise intolerance for months after resolution of acute COVID infection," said Dr. Svetlana Blitshteyn, a neurologist at the State University of New York at Buffalo, NY, who also runs a

She recently published case studies of 20 patients who developed dysautonomia — mostly

Dr. Blitshteyn told MNT that there was a sufficient heart rate increase in some of the recovering

She said the duration of POTS and other symptoms of long COVID remains unclear, but her

"In my published case series, most patients had lingering symptoms, with 60% unable to return

COVID-19 patients in the study's head-up tilt test for a diagnosis of POTS.

to work 8 months after acute [SARS-CoV-2] infection," she added.

Limitations of the study

that the scientists observed. Overall, the "cross-sectional" design of the study meant it could not establish whether COVID-19 actually caused changes in participants' sympathetic nervous systems. In addition, the relatively small numbers of participants limit the statistical reliability of the

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Research also suggests there were increases in anxiety and depression among college-age

students during the pandemic, so in theory, this could explain some of the autonomic changes

A possible limitation of the new study is that control subjects received testing before the

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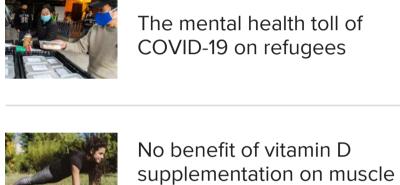
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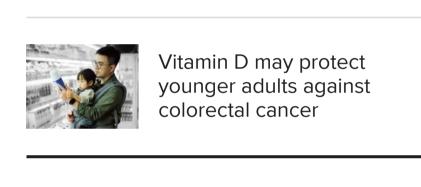
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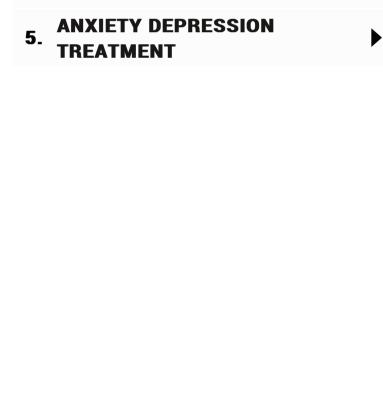
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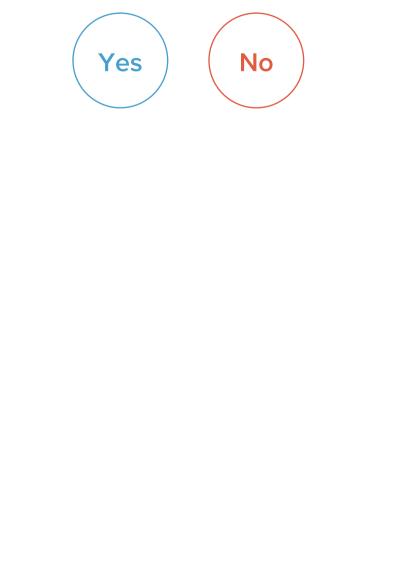
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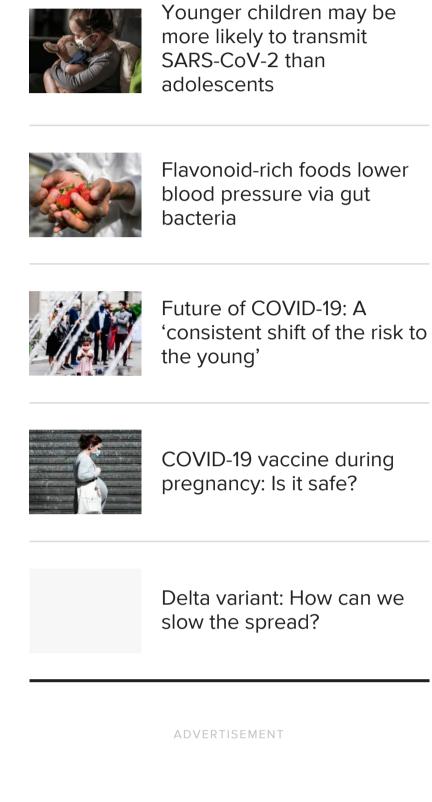




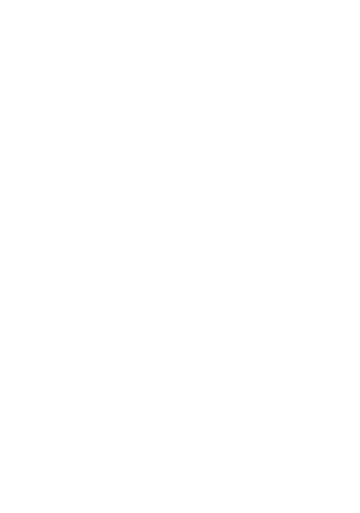
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