

## Smokers far more likely to develop abdominal aortic aneurysms

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People who smoke may be nearly twice as likely to Researchers also found those who had quit develop an abdominal aortic aneurysm than the general population, but they can lower their risk of the potentially life-threating condition by quitting, according to new research in Arteriosclerosis, Thrombosis and Vascular Biology, an American Heart Association journal.

An abdominal aortic aneurysm is a bulge in the large artery that supplies blood to the belly, pelvis and legs. This bulging occurs without symptoms, unless the artery ruptures. If that happens, severe internal bleeding creates an extremely urgent medical situation.

"Our study quantified the lifetime risk of an abdominal aortic aneurysm and found that it was far from trivial for smokers," said Weihong Tang, Ph.D., M.S., M.D., lead study author and associate professor of epidemiology and community health at the University of Minnesota. "And we quantified the health policy makers should be aware of." benefit of quitting smoking, which turns out to be substantial."

The study looked at 15,792 people over the age of 45 enrolled in the national Atherosclerosis Risk in Communities Study. After 22 years of follow-up, researchers identified 590 cases of a ruptured, surgically repaired or clinically diagnosed asymptomatic abdominal aortic aneurysm and 75 cases of asymptomatic aneurysms that were detected by an ultrasound screening.

The study found the lifetime risk of an abdominal aortic aneurysm were:

- 1 in 17 among all study participants;
- 1 in 9 among current smokers;
- 1 in 9 among those in the top third of smoking pack-years (number of cigarettes smoked over a lifetime), whether a current or former smoker;
- 1 in 12 among current female smokers.

smoking for 3-8 years (recent guitters) still had an approximately 2.6 to 3.5 fold increased risk for both clinical and asymptomatic abdominal aortic aneurysm in the next 15 years compared to never smokers. Their lifetime risk was 6.6 percent higher than long-term quitters.

For women, authors note the steep increase in risk is particularly concerning given the United States Preventive Services Task Force recommends that current or former male smokers undergo an ultrasound screening for an abdominal aortic aneurysm once between the ages of 65 and 75 but makes no such recommendation for women.

"Women who currently smoke have a similar risk as men who quit smoking; and yet, the task force does not recommend screening these women," Tang said. "This is important data that physicians and

The study also found that being older, white, or having high levels of bad cholesterol also increased the risk of abdominal aortic aneurysm.

"The strongest associations, however, remain with smoking," Tang said. "And the best preventive strategy to reduce abdominal aortic aneurysms in smokers is to stop smoking."

Authors wrote that study limitations, including some study participants dropping out of the follow-up and risk calculations were only performed up to the age of 85, may have led to lower estimates of life-time risk of abdominal aortic aneurysms than actually exist.

Provided by American Heart Association



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