

Diet soda linked to increases in belly fat in older adults

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A new study published in the *Journal of the American Geriatrics Society* shows that increasing diet soda intake is directly linked to greater abdominal obesity in adults 65 years of age and older. Findings raise concerns about the safety of chronic diet soda consumption, which may increase belly fat and contribute to greater risk of metabolic syndrome and cardiovascular diseases.

Metabolic syndrome—a combination of risk factors that may lead to [high blood pressure](#), diabetes, heart disease, and stroke—is one of the results of the obesity epidemic. In fact, the World Health Organization (WHO) estimates that 1.9 billion adults were overweight (body mass index [BMI] of 25 or more) in 2014. Of this group, 600 million people fell into the obese range (BMI of 30 or more)—a figure that has more

than doubled since 1980.

In an effort to combat obesity, many adults try to reduce sugar intake by turning to nonnutritive or [artificial sweeteners](#), such as aspartame, saccharin, or sucralose. Previous research shows that in the past 30 years, artificial sweeteners and diet soda intake have increased, yet the prevalence of obesity has also seen a dramatic increase in the same time period. Many of the studies exploring diet soda consumption and cardiometabolic diseases have focused on middle-aged and younger adults.

"Our study seeks to fill the age gap by exploring the [adverse health effects](#) of diet soda intake in individuals 65 years of age and older," explains lead author Sharon Fowler, MPH, from the University of Texas Health Science Center at San Antonio. "The burden of [metabolic syndrome](#) and cardiovascular disease, along with healthcare costs, is great in the ever-increasing senior population."

The San Antonio Longitudinal Study of Aging (SALSA) enrolled 749 Mexican- and European-Americans who were aged 65 and older at the start of the study (1992-96). Diet soda intake, [waist circumference](#), height, and weight were measured at study onset, and at three follow-ups in 2000-01, 2001-03, and 2003-04, for a total of 9.4 follow-up years. At the first follow-up there were 474 (79.1%) surviving participants; there were 413 (73.4%) at the second follow-up and 375 (71.0%) at the third follow-up.

Findings indicate that the increase in waist circumference among diet soda drinkers, per follow-up interval, was almost triple that among non-users: 2.11 cm versus 0.77 cm, respectively. After adjustment for multiple potential confounders, interval waist circumference increases were 0.77 cm for non-users, 1.76 cm for occasional users, and 3.04 cm for daily users. This translates to waist circumference increases of 0.80

inches for non-users, 1.83 inches for occasional users, and 3.16 inches for daily users over the total 9.4-year SALSA follow-up period.

"The SALSA study shows that increasing diet soda intake was associated with escalating abdominal obesity, which may increase cardiometabolic risk in older adults," Fowler concludes. The authors recommend that older individuals who drink [diet soda](#) daily, particularly those at high cardiometabolic risk, should try to curb their consumption of artificially sweetened drinks.

More information: "Diet Soda Intake Is Associated with Long-Term Increases in Waist Circumference in a Biethnic Cohort of Older Adults: The San Antonio Longitudinal Study of Aging." Sharon P.G. Fowler, Ken Williams and Helen P. Hazuda. *Journal of the American Geriatrics Society*; Published Online: March 17, 2015 . [DOI: 10.1111/jgs.13376](https://doi.org/10.1111/jgs.13376))

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