

# Energy drinks linked to teen health risks

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(Medical Xpress)—The uplifting effects of energy drinks are well advertised, but a new report finds consumption among teenagers may be linked with poor mental health and substance use.

Researchers are calling for limits on teen's access to the drinks and reduction in the amount of the caffeine in each can.

The paper by researchers at the University of Waterloo and Dalhousie

University, published in *Preventive Medicine*, found that high school students prone to depression as well as those who are smoke marijuana or drink alcohol are more likely to consume [energy drinks](#) than their peers.

"While it remains unclear why these associations exist, the trend is a concern because of the high rate of consumption among teenagers," said Sunday Azagba, a researcher at the Propel Centre for Population Health Impact at the University of Waterloo and lead author on the paper.

"These drinks appeal to young people because of their temporary benefits like increased alertness, improved mood and enhanced mental and physical energy."

Among the 8210 [high school](#) students surveyed, nearly two thirds reported using energy drinks at least once in the past year, with more than 20 percent consuming them once or more per month. Younger [high school students](#) were more likely to consume energy drinks than older ones.

"Marketing campaigns appear designed to entice youth and young adults," said Azagba. "It's a dangerous combination, especially for those at an increased risk for substance abuse."

Energy drinks have been associated with a number of [negative health effects](#), including cardiovascular symptoms, sleep impairment and nervousness and nausea. The side effects are caused by the beverages' high concentration of caffeine.

"Given the negative effects of excessive caffeine consumption as well as the coincident occurrence of the use of energy drinks and other negative behaviors in teens, the trends we are seeing are more than cause for concern," said Azagba.

In recent years energy drink sales have skyrocketed, with sales forecasted to reach \$20 billion in 2013 in the United States alone.

"In our opinion, at the very least steps should be taken to limit teens' access to energy drinks, to increase public awareness and education about the potential harms of these drinks and to minimize the amount of caffeine available in each unit," said Azagba. "This won't eliminate the problem entirely, but steps like these can help mitigate harm to our youth that appears to be associated with consumption of these drinks. This is something we need to take seriously. Change won't happen without a concerted effort."

**More information:** Sunday Azagba, Donald Langille, Mark Asbridge, "An emerging adolescent health risk: Caffeinated energy drink consumption patterns among high school students," *Preventive Medicine*, Volume 62, May 2014, Pages 54-59, ISSN 0091-7435, [dx.doi.org/10.1016/j.ypmed.2014.01.019](http://dx.doi.org/10.1016/j.ypmed.2014.01.019).

Provided by University of Waterloo

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