

Generic weight-loss drug may be safe and effective for long-term treatment

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An inexpensive weight-loss drug approved 60 years ago for only short-term use also may be safe and effective for longer-term treatment, according to a study conducted by researchers at Wake Forest Baptist Health and the Patient Outcomes Research to Advance Learning (PORTAL) network. The study is published in today's issue of the journal *Obesity*.

The [drug](#), phentermine, is currently FDA-approved for use of up to three months.

"Although diet and exercise are critical components of any [weight-loss](#) program, up to half of patients don't have long-term success with [lifestyle changes](#) alone," said first author Kristina H. Lewis, M.D., assistant professor of epidemiology and prevention, at Wake Forest Baptist.

"In those cases, medications or surgery can help. Generic phentermine is an effective and affordable option, but now that we view obesity as a chronic disease, it's important to have medications that can be used indefinitely. Most new weight-loss drugs

are approved for long-term use, but unfortunately the newer drugs can be expensive if they are not covered by insurance."

Lewis and her team analyzed data from the electronic health records of 13,972 adults who were prescribed phentermine for short-term use versus longer-term use of a year or more. The researchers compared weight loss and changes in [blood pressure](#) for up to two years, and the risk of heart attack, stroke or death for up to three years, according to a patient's duration of medication use.

The study found that people who stayed on phentermine longer experienced greater weight loss than those who took the drug for three months or less, and longer-term use was not associated with increases in [blood pressure](#) or increased [risk of heart attack](#), stroke or death.

"In general, the longer patients were on the medicine the more weight loss they had," Lewis said. "Not surprisingly, when patients stopped taking the medicine weight regain was common."

However, Lewis cautioned that phentermine is a stimulant and should not be used in people with a history of heart disease, stroke or uncontrolled high blood pressure. But for those with low cardiac risk, normal blood pressure or high blood pressure that is well treated, it could be a good and affordable option, she said.

"For patients who respond to and tolerate it, phentermine may be a safe and affordable way to achieve greater and longer lasting weight loss, but we need clinical trials to provide more certainty," Lewis said. "At the moment, there is no change to the FDA labeling so doctors should use caution with the decision about prescribing it longer-term."

The study did not examine the most effective dose of the drug or potential side effects such as anxiety or insomnia. In addition, the people in the study did

not have evidence of pre-existing heart disease and most were young or middle-aged women.

More information: Kristina H. Lewis et al, Safety and Effectiveness of Longer-Term Phentermine Use: Clinical Outcomes from an Electronic Health Record Cohort, *Obesity* (2019). DOI: [10.1002/oby.22430](https://doi.org/10.1002/oby.22430)

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