

# Medication shows promise for weight loss in patients with obesity, diabetes

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A new study confirms that treatment with Bimagrumb, an antibody that blocks activin type II receptors and stimulates skeletal muscle growth, is safe and effective for treating excess adiposity and metabolic disturbances of adult patients with obesity and type 2 diabetes.

"These exciting results suggest that there may be a novel mechanism for achieving weight loss with a profound loss of [body](#) fat and an increase in lean mass, along with other metabolic benefits," said Steve Heymsfield, MD, FTOS, past president of The Obesity Society and corresponding author of the study. Heymsfield is professor and director of the Metabolism and Body Composition Laboratory at the Pennington Biomedical Research Center in Baton Rouge, La.

A total of 75 patients with type 2 diabetes, body mass index between 28 and 40 and glycated hemoglobin A1c levels between 6.5 percent and 10 percent were selected for the phase 2 randomized clinical trial. Patients were injected with either Bimagrumb or a [placebo](#) (a dextrose solution) every 4 weeks for 48 weeks. Both groups

received diet and exercise counseling. The research took place at nine sites in the United States and the United Kingdom from February 2017 to May 2019.

At the end of the 48-week study, researchers found a nearly 21 percent decrease in body fat in the Bimagrumb group compared to 0.5 percent in the placebo group. The results also revealed the Bimagrumb group gained 3.6 percent of lean mass compared with a loss of 0.8 percent in the placebo group. The combined loss in total body fat and gain in lean mass led to a net 6.5 percent reduction in [body weight](#) in patients receiving Bimagrumb compared with 0.8 percent [weight loss](#) in their counterparts receiving the placebo.

The sample size of 75 participants was a limitation of the study. There was also a gender imbalance across the groups with more women randomized to Bimagrumb and more men to the placebo.

Partial results of this study were presented during a research forum titled "Emerging Pharmacological Anti-obesity Therapies" at ObesityWeek 2019 in Las Vegas, Nev.

Provided by The Obesity Society

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