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## Testosterone improved insulin sensitivity in men

BY SUSAN LONDON

AT AACE 2014

ized trial reported at the annual meeting of the were deficient in this hormone, finds a randomsitivity and insulin signaling in diabetic men who American Association of Clinical Endocrinologists. LAS VEGAS - Testosterone improved insulin sen-

every 2 weeks for 24 weeks. terone (250 mg) or placebo nadism evenly to receive intramuscular testosassigned 41 men with hypogonadotropic hypogoversity at Buffalo, State University of New York, Investigators led by Dr. Manav Batra of the Uni-

in insulin sensitivity from basesignificant 32% improvement terone group had a statistically showed that men in the testos men. Main results of the trial mal range for healthy young terone levels in the mid-noradjusted to achieve free testos. The testosterone dose was

had essentially no change in this measure. line, but their counterparts in the placebo group

in mononuclear cells of genes that mediate insulin mediate insulin signaling and decreased expression increased expression in adipose tissue of genes that Testosterone treatment also was associated with

hypogonadism. of men with type hypogonadotropic 2 diabetes have important, as roughly one-third The findings are sensitivity, which may potentially reduce cardioand improved insulin signaling and hence insulin in lean mass, decline in inflammatory markers, changes, and there is decline in fat mass, increase increase cardiovascular risk, according to Dr. Batra. ic, lipid, and anthropometric changes that may terone deficiency is linked to unfavorable metabol have hypogonadotropic hypogonadism, and testos roughly one-third of men with type 2 diabetes with any changes. The findings are important, as resistance. Placebo treatment was not associated "Testosterone replacement reverses these vascular risk," he said.

people who are hypogonadal, which the data were reported. moderator of the session in Dr. Edward S. Horton, coels with insulin resistance, said earlier research linking both low and high testosterone lev-The data show that, "for The study is consistent with

professor of medicine at Harvard Medical School, both in Boston. clinical research at the Joslin Diabetes Center and genic effects," maintained Dr. Horton, director of cial effects of testosterone beyond just the androimprove insulin sensitivity and getting the benefiwe should be treating them to

VITALS

the hormone. sensitivity in diabetic men who were deficient in Key clinical point: Testosterone improved insulin

the placebo group. in the testosterone group but remained the same in Major finding: Insulin sensitivity improved by 32%

Disclosures: Dr. Batra disclosed no relevant conwith hypogonadotropic hypogonadism. Data source: A randomized trial of 41 diabetic men

flicts of interest.

cardiometabolic measures versus the latter. men showed that the former had a host of adverse participating in the trial with 50 eugonadal diabetic A comparison of 41 hypogonadal diabetic men

glycated hemoglobin, or in lipid profiles. significant improvements in levels of glucose or terone therapy was not associated with any mained unchanged in the placebo group. Testos-Dr. Batra reported. Meanwhile, these measures retance (HOMA-IR), leptin, and C-reactive protein, ments from baseline in levels of insulin, homeostatic model assessment of insulin resisterone treatment, men in that group had improve-Among other favorable changes seen with testos

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