Long-term treatment with testosterone undecanoate injections leads to sustained weight loss independent of age: observational data from two registry studies

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Introduction: Reductions of body weight and waist circumference have been reported by two independent groups from their registry studies (Saad F et al., Obes 2013, 21:1975-1981; Yassin and Doros, Clin Obes 2013, 3:73–83).

Methods: 561 hypogonadal men from both registry studies were divided according to age groups: ≤65 years (Group A, n=450) and >65 years (Group B, n=111) were selected. The majority of patients were obese with less than 5% in the normal weight range. All men were treated with three-monthly testosterone undecanoate injections for up to 6 years.

Results: Mean weight (kg) decreased from 102.52±15.56 to 90.15±9.69 in Group A and from 102.83±15.64 to 95.35±9.03 in Group B. Model-adjusted mean change from baseline was -14.78±0.35 and -15.14±0.71 kg, resp. In both groups, the decrease was statistically significant vs baseline and each year compared to previous year.

Percent change from baseline was -13.56±7.56% in Group A and -13.28±7.14% in Group B.

Waist circumference (cm) decreased from 106.54±9.03 to 98.26±7.1 in Group A and from 108.95±10.75 to 100.72±9.45 in Group B. This decrease was statistically significant vs baseline and each year compared to previous year in both groups. The mean change from baseline was 9.34±0.2 cm in Group A and 10.45±0.47 cm in Group B.

Body mass index (BMI; kg/m²) decreased from 32.58±5.08 to 29.02±3.01 in Group A and from 32.84±4.86 to 30.35±2.61 in Group B. The mean change from baseline was -4.72±0.11 and -4.81±0.22 kg/m², respectively.

Conclusions: Testosterone replacement therapy in hypogonadal men resulted in meaningful and sustained weight loss independent of age.