Conference: Annual Scientific Meeting of The Obesity Society, At Atlanta, GA, USA Shadid et al 2013

ABSTRACT Introduction: Disappointing long-term results from medical treatment have led to the increasing application of bariatric surgery in class 3 obesity (CL3OB). We report continuing results from our behavior modification program, which aims to provide an alternative for surgery.

Methods: 95 adults with CL3OB or CL2OB with major obesity-related complications (Body Mass Index (BMI) 44.2 ± 0.6 kg/m2), age 48.8 ± 1.3 yr) followed 10 group lessons alternated with individual consultations with highly trained professionals. Individualized exercise and diet instructions (1200-2000 kCal/day) were given. 124 controls (BMI 42.9 ± 0.5 kg/m2, age 50.9 ± 1.1 yr) received standard care.

Results: 2-year weight loss of completers (n=62) averaged 18.2 ± 1.2 kg* ($14 \pm 1\%$ of IBW, $25 \pm 2\%$ of excess body weight (EBW)). 41 patients lost $\geq 10\%$ of IBW, 14 of whom $\geq 20\%$, and $3 \geq 30\%$. Several reached these amounts later. Controls gained 1.0 ± 0.7 kg ($0.8 \pm 0.6\%$ of IBW, $1 \pm 1\%$ of EBW), 2 people losing $\geq 10\%$ IBW. Last observation carried forward analysis (LOCFA) showed mean weight loss of 15.1 ± 1.4 kg* ($11 \pm 1\%$ of IBW, $21 \pm 2\%$ of EBW). Preliminary results show weight maintenance of successful subjects up to 3.5 years: 23 (out of the potential 61) patients completing 3 years lost $19 \pm 1\%$ of IBW ($12 \pm 1\%$ in the LOCFA). 20-35% of our results would have been considered at least satisfactory by various surgical standards. Metabolic and cardiovascular parameters largely improved despite lowering of medication.

Conclusion: Non-surgical mid/long term weight loss is achievable in severely obese patients in outpatient settings; the efficacy/safety trade-off in obesity treatment is an important consideration in interpreting these results. *p<0.001