SMALL DOSES OF T3

DURING WEIGHT REDUCING DIET IN OBESE WOMEN, **INCREASE SHBG LEVELS** WITHOUT FREE FAT MASS CATABOLISM

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Introduction

- > It is documented that
 - during weight loosing diets serum T3 decreases, resulting in a fall of resting metabolic rate.
- > Treating such patients
 - with small doses of T3, can prevent the adaptation of RMR to lower levels and increases serum SHBG.
- > The contraindication
 - for the use of T3 in clinical practice is the free fat mass catabolism, but this have been shown only in small number of obese persons and in combination with VLCD.

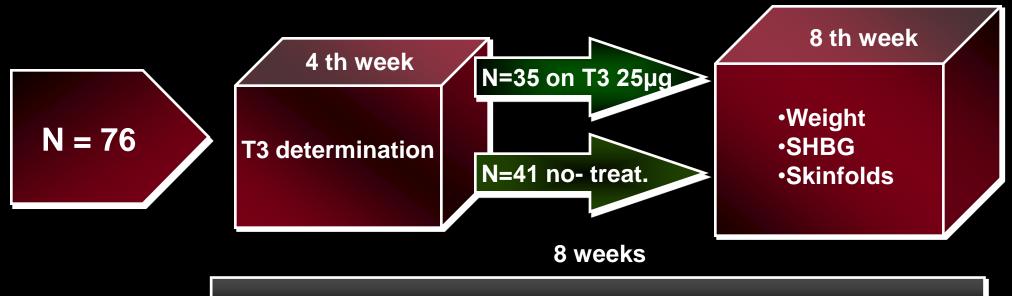


To investigate the influence of T3 treatment on

Qualitative weight loss and on

SHBG levels

Study Design

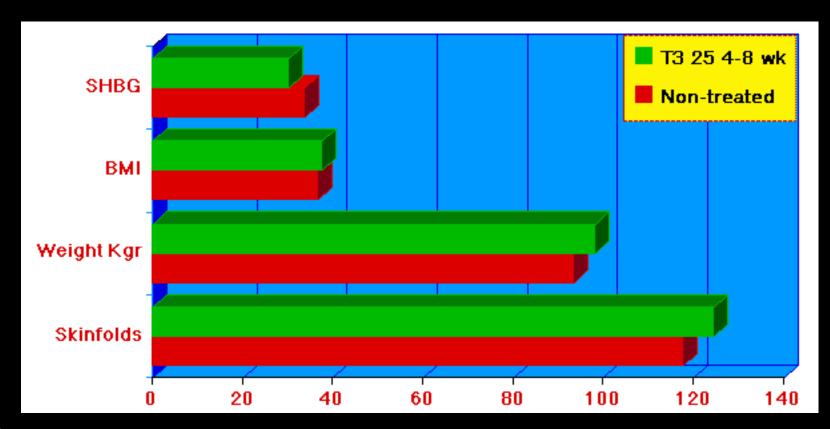


Diet with energy content: initial body weight X 10 Kcal/24h

Subjects and Methods

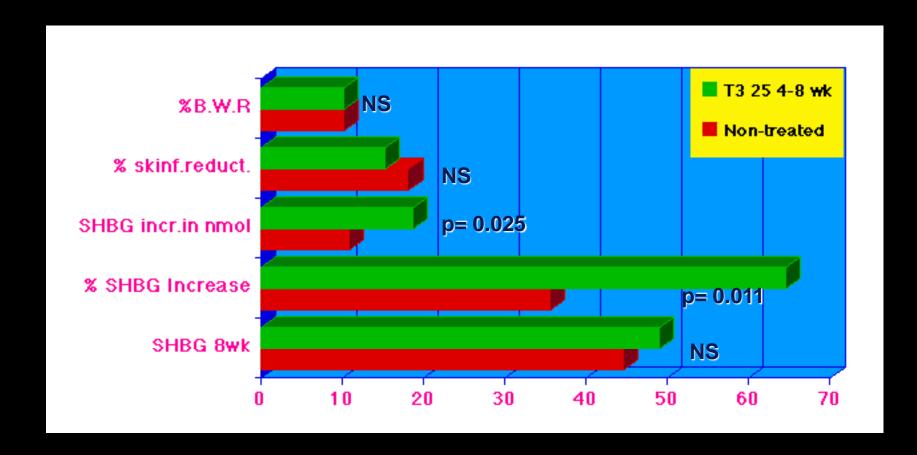
- N = 76 Obese women
- Age = 35 ± 12
- Weight Kgr = 95.5 ± 14.9
- % increase from ideal body weight = 178 ± 25
- BMI = 37.03 ± 5.30
- Sum of four* skinfolds mm = 120.7 ± 26
- $T3 \text{ ng/dl} = 144.7 \pm 24.5$
- TSH μ U/ml = 2.28 ± 1.28
- SHBG nmol/L= 32.04 ± 9.56

Results 1.

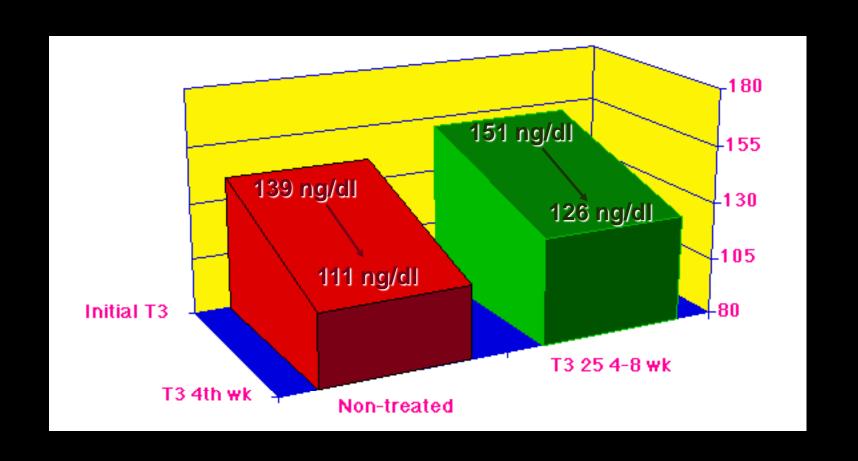




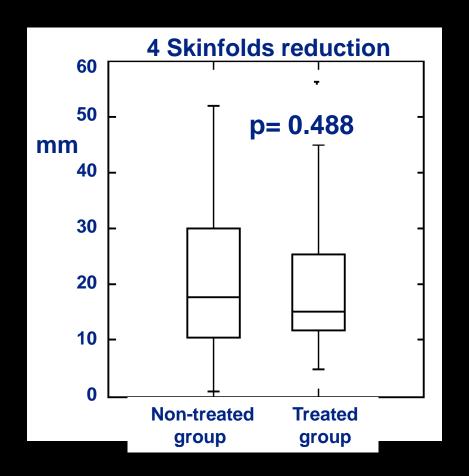
Results 2.

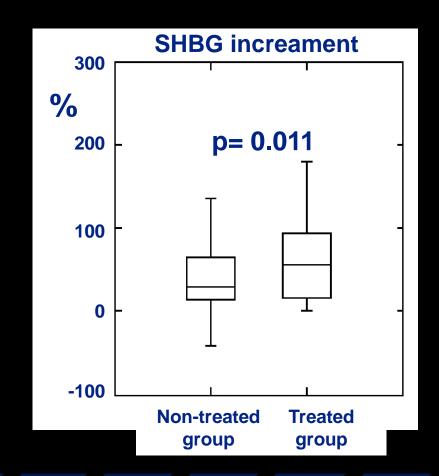


Results 3.



Changes in the sum of 4 skinfolds & SHBG levels in 76 Obese women after an 8 week weight reducing regimen





Treatment: T3 25 µg/d from 4th to 8th week

Conclusion

The replacement of T3 fall

during weight reducing diet

increases SHBG levels

more than the expected from weight loss

without any further FFM catabolism