

SUPPLEMENTARY DATA

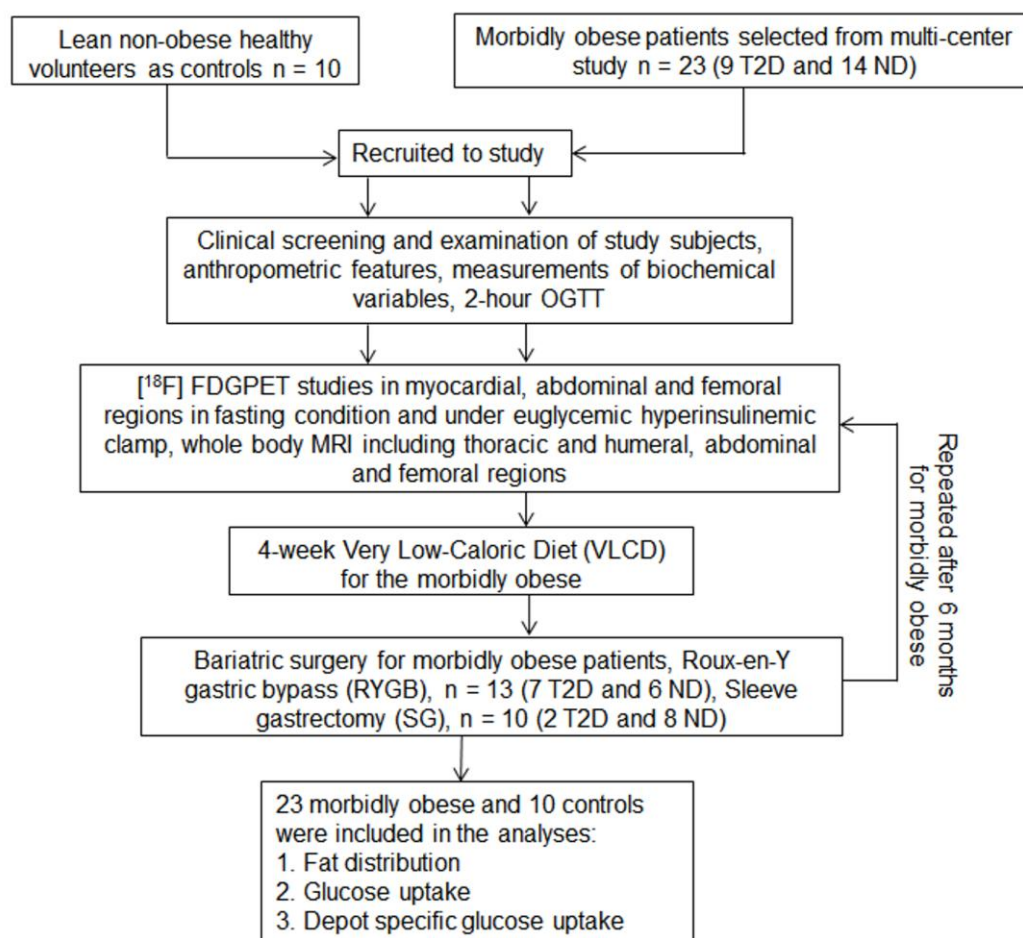
**Supplementary Table 1. Fasting glucose uptake in different fat compartments and skeletal muscle.\***

	Controls (n= 10)	Obese patients (n = 23)	
		Before surgery	After surgery
<b>Tissue-specific glucose uptake (<math>\mu\text{mol}\cdot\text{L}^{-1}\cdot\text{min}^{-1}</math>)</b>			
Extraperitoneal fat	7.8 $\pm$ 2.2	5.7 $\pm$ 1.3 †	6.9 $\pm$ 2.4
Intraperitoneal fat	8.0 $\pm$ 1.4	8.0 $\pm$ 1.6 # <sup>b</sup>	9.5 $\pm$ 2.6
Abdominal deep SC	4.2 $\pm$ 1.6	4.3 $\pm$ 1.1 # <sup>a</sup>	4.9 $\pm$ 1.2
Abdominal superficial SC	4.5 $\pm$ 1.7	4.5 $\pm$ 1.4 #	5.6 $\pm$ 1.9
Femoral SC	2.1 $\pm$ 0.4	3.1 $\pm$ 1.0 †	2.9 $\pm$ 0.9
Humeral SC	5.0 $\pm$ 2.4	5.1 $\pm$ 1.6 # <sup>a</sup>	6.9 $\pm$ 2.3
Thoracic SC	5.8 $\pm$ 3.1	6.2 $\pm$ 2.1	6.8 $\pm$ 2.2
Skeletal muscle	7.7 $\pm$ 1.7	7.8 $\pm$ 1.9 #	8.0 $\pm$ 1.8
<b>Depot-specific glucose uptake (<math>\mu\text{mol}\cdot\text{min}^{-1}</math>)</b>			
Extraperitoneal fat	8.6 $\pm$ 3.9	13.7 $\pm$ 6.3 # <sup>a</sup> †	10.1 $\pm$ 5.4 °
Intraperitoneal fat	9.5 $\pm$ 5.5	27.9 $\pm$ 7.9 #†	17.7 $\pm$ 7.4 °
Abdominal deep SC	6.2 $\pm$ 4.3	25.5 $\pm$ 8.3 †	17.1 $\pm$ 5.4 °
Abdominal superficial SC	7.5 $\pm$ 4.3	31.3 $\pm$ 18.5 †	22.7 $\pm$ 10.1 °
Femoral SC	15.8 $\pm$ 5.4	55.4 $\pm$ 21.2 †	37.5 $\pm$ 17.4 °
Humeral SC	2.5 $\pm$ 2.0	5.5 $\pm$ 2.0 †	5.4 $\pm$ 2.0
Thoracic SC	8.4 $\pm$ 5.5	31.9 $\pm$ 10.4 †	23.6 $\pm$ 8.6 °
VF/WB (%)	-	-	-
SC/WB (%)	-	-	-
Total fat/WB	-	-	-

\* Data are mean ± SD; SC, subcutaneous fat, VF, visceral fat; †  $p \leq 0.05$  or less for the comparison of pre-surgery patients with controls; #  $p \leq 0.05$  or less for the difference between ND and T2D at baseline; °  $p \leq 0.05$  or less for the effect of surgery; <sup>a</sup> T2D > ND; <sup>b</sup> T2D < ND.

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### Supplementary Figure S1.



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Supplementary Figure S2.

