

**ESM Table 1** Plasma levels of fasting and postprandial  $\alpha$ -dicarbonyl levels at baseline without and with adjustment for glucose

	Unadjusted means	Adjusted means (adjusted for glucose)
<b>Fasting MGO (nmol/l)</b>		
Lean	262 ± 15	290 ± 19
Obese NGT	322 ± 12*	346 ± 14*
Obese T2DM	381 ± 16 <sup>††</sup>	344 ± 16
<b>Fasting GO (nmol/l)</b>		
Lean	645 ± 46	729 ± 60
Obese NGT	707 ± 25	777 ± 42
Obese T2DM	937 ± 52 <sup>†††</sup>	829 ± 48
<b>Fasting 3-DG (nmol/l)</b>		
Lean	1531 ± 53	2061 ± 81
Obese NGT	1620 ± 61	2063 ± 57
Obese T2DM	2926 ± 159 <sup>†††</sup>	2247 ± 65
<b>iAUC MGO</b>		
Lean	795 ± 3487	2057 ± 2718
Obese NGT	823 ± 1424	1542 ± 1673
Obese T2DM	7963 ± 1571 <sup>††</sup>	6759 ± 1795
<b>iAUC GO</b>		
Lean	3211 ± 7872	6500 ± 10170
Obese NGT	9006 ± 3368	10925 ± 6270
Obese T2DM	18837 ± 7809	15771 ± 6601
<b>iAUC 3-DG</b>		
Lean	24434 ± 15607	39639 ± 15229
Obese NGT	51074 ± 7604	59945 ± 9389
Obese T2DM	123027 ± 10922 <sup>†††</sup>	108853 ± 9884

Lean,  $n=12$ ; obese NGT,  $n=27$ ; obese type 2 diabetes,  $n=27$ . Data are presented as unadjusted and adjusted means (SEM). Without correction for glucose, differences between the groups were tested with one-way ANOVA with Bonferroni correction. To compare the groups after adjustment for glucose, one-way ANCOVA with Bonferroni correction was used. \* $p<0.05$  for lean vs obese NGT individuals. <sup>††</sup> $p<0.01$  and <sup>†††</sup> $p<0.001$  for obese NGT vs. obese type 2 diabetes individuals