

Supplementary Materials

Table 1. Blood biochemical parameters in GSD patients. Values are expressed as mean (standard deviation). Reference values are reported.

	GSD Mean (SD)	GSD Ia Mean (SD)	GSD Ib Mean (SD)	Reference values
Glucose, fasting	71.38 (10.28)	65.50 (7.05)	80.00 (10.79)	70–105 mg/dL
Insulin, fasting	5.88 (9.74)	2.45 (2.86)	8.96 (11.70)	0–25 uU/ml
HOMA-IR	1.10 (1.89)	0.42 (0.54)	1.76 (2.26)	
QUICKI Index	0.47 (0.12)	0.53 (0.13)	0.39 (0.07)	
HOMA-β	1.64 (2.59)	0.76 (0.77)	2.37 (3.14)	
Tyg-Index	3.95 (0.42)	4.18 (0.39)	3.80 (0.35)	
Cholesterol, total	206.75 (124.68)	265.50 (152.17)	166.40 (68.02)	< 200 mg/dL
Triglycerides	300.25 (225.92)	422.50 (241.58)	204.60 (138.56)	<150 mg/dL
Uric acid	6.675 (1.03)	7.10 (0.50)	6.25 (3.02)	2.5–8 mg/dL
Serum lactate	3.00 (1.77)	3.85 (1.93)	2.14 (1.10)	0.7–2.1 mmol/L
AST	42.5 (23.84)	54.50 (28.35)	37.80 (19.25)	0–35 U/L
ALT	54.13 (43.44)	67.75 (47.13)	50.80 (42.36)	0–35 U/L

Table 2. Fecal SCFA concentrations. For each experimental group, mean and standard deviation from Mann-Whitney test are reported. Values are expressed as mean (standard deviation). P-values <0.05 were considered significant.

	HC Mean (SD)	GSD Mean (SD)	p-value
Acetate	1.84 (0.73)	3.54 (1.95)	0.0310*
Propionate	0.72 (0.24)	1.41 (1.07)	0.0381*
<i>iso</i>-butyrate	0.29 (0.12)	0.28 (0.22)	0.8965
Butyrate	0.32 (0.12)	0.33 (0.22)	0.8381
<i>iso</i>-valerate	0.24 (0.11)	0.19 (0.16)	0.3598
Total SCFAs	3.40 (0.85)	5.75 (2.88)	0.0159*