

## Supplementary materials

**Supplementary Table S1.** Basal characteristics of the control group and patients group

Parameter	Controls (n = 15)	Patients (n = 34)
Sex (M/F)	8/7	22/12 NS
Age [years]	30.5 (25–64)	49 (19–59) NS
Height [cm]	173 ±9.5	174.2 ±9.33 NS
Weight [kg]	23.4 (20.1–32.7)	26.72 (19.6–33.51) NS
BMI ratio	23.4 (20.1–32.7)	26.72 (19.6–33.51) NS

NS – non-significant, M/F – male/female ratio, BMI – body mass index.

**Supplementary Table S2.** The median values of KLF4 serum levels in BMI-subgroups before and after total treatment

Variable	Controls (n = 15)	BMI I (n = 8)	BMI II (n = 18)	BMI III (n = 8)
Before treatment	1.36 (0.09–4.59)	0.72 (0–2.05) <sup>-</sup>	1.16 (0–2.82)	1.05 (0.02–3.13) <sup>-</sup>
After treatment	–	1.05 (0.04–2.33)	1.28 (0.01–4.15)	1.71 (0.22–4.13)

<sup>-</sup>The existence of the trend due to a small number of “n” in the subgroups.

**Supplementary Table S3.** Chosen correlations inside BMI-subgroups: before (A) and after (B) total treatment with use of Spearman’s rank correlation

**A**

Parameter	R (p-value)		
	BMI I:	BMI II	BMI III
PASI	–0.641 (0.078)	0.047 (NS)	–0.405 (NS)
CRP	0.185 (NS)	–0.237 (NS)	–0.381 (NS)
RBC	0.071 (NS)	0.288 (NS)	0.333 (NS)
PLT	–0.357 (NS)	–0.80 (NS)	–0.619 (0.082) <sup>-</sup>
ALT	–0.464 (NS)	0.03 (NS)	0.119 (NS)

**B**

Parameter	R (p-value)		
	BMI I	BMI II	BMI III
PASI	0.288 (NS)	0.091 (NS)	–0.677 (0.064) <sup>-</sup>
CRP	–0.214 (NS)	–0.714 (0.001)	–0.264 (NS)
RBC	0.162 (NS)	0.082 (NS)	0.119 (NS)
PLT	–0.75 (0.057)	–0.611 (0.0092)	–0.154 (NS)
ALT	0.07 (NS)	–0.231 (NS)	0.697 (0.06) <sup>-</sup>

<sup>-</sup>The existence of the trend due to a small number of “n” in the subgroups.