

Obestatin and adropin in Prader-Willi syndrome and non-syndromic obesity: associations with weight, BMI-z, and HOMA-IR

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Table S1: Obestatin and adropin concentrations in children with Prader-Willi syndrome according to subtype and growth hormone treatment.

	PWS subtype			GH treatment		
	UPD (n = 7)	Deletion (n = 13)	P-value [†]	GH treated (n = 9)	non-GH treated (n = 5)	P-value [†]
Obestatin (pg/mL)	4052.00 (2506.00, 4691.00)	2577.00 (2042.00, 3475.00)	0.30	3339.00 (2933.50, 4062.50)	3331.00 (3099.50, 3766.00)	0.70
Adropin (ng/mL)	3.90 (2.90, 6.82)	3.53 (2.45, 5.06)	0.42	2.70 (2.07, 6.03)	2.71 (2.23, 3.14)	1.00

GH, growth hormone; PWS, Prader-Willi syndrome; UPD, uniparental disomy.

[†] P-values determined using Mann-Whitney U test.

Table S2: Hormonal and metabolic characteristics of children with Prader-Willi syndrome and controls who were insulin resistant.

	PWS children with IR (n = 7)	Control children with IR (n = 13)	P-value[†]
Obestatin (pg/mL)	3472.00 (3146.00, 3764.00)	3505.00 (2978.00, 4194.50)	0.50
Adropin (ng/mL)	2.68 (1.78, 3.43)	2.03 (1.39, 3.10)	0.22
Ghrelin (pg/mL)	1266.03 (881.32, 1525.80)	827.66 (706.09, 886.66)	<0.005
Ghrelin:Obestatin	0.34 (0.30, 0.46)	0.20 (0.17, 0.29)	0.01
Leptin (ng/mL)	40.76 (30.26, 67.34)	37.09 (14.48, 54.91)	0.66
Insulin (μIU/mL)	29.38 (15.91, 36.71)	23.84 (19.39, 36.30)	0.92
Glucose (mg/dl)	86.00 (78.25, 99.00)	95.50 (87.50, 99.63)	0.18
HOMA-IR	5.68 (3.89, 9.27)	5.24 (4.19, 9.22)	0.78

HOMA-IR, Homeostatic model assessment-insulin resistance; PWS, Prader-Willi syndrome; IR, Insulin resistance.

Data are presented as median (25th percentile, 75th percentile). Statistically significant differences are in bold type ($p \leq 0.05$).

[†] P-values determined using independent t-test (Pearson).