

Supplemental Table S3. Differential Hormone Responses to Hypoglycemia in Non-Obese T2DM and Obese Patients with T2DM (Repeated ANOVA)

Hormone		Non-obese T2DM	Obese T2DM	<i>P</i> value (time)	<i>P</i> value (group)	<i>P</i> value (time×group)
CP, ng/mL	Euglycemia	0.51±0.17	1.15±0.18	<0.001	0.016	0.067
	Hypo-0 min	0.31±0.09	0.67±0.1 ^b			
	Hypo-10 min	0.28±0.08	0.59±0.09 ^b			
	Hypo-20 min	0.27±0.08	0.57±0.08 ^b			
	Hypo-30 min	0.24±0.07	0.45±0.07 ^a			
Glucagon, pg/mL	Euglycemia	118.99±9.56	124.47±11.21	0.044	0.512	0.621
	Hypo-0 min	131.47±17.13	161.48±20.08			
	Hypo-10 min	133.85±15.48	159.03±18.16			
	Hypo-20 min	139.55±10.37	128.33±12.15			
	Hypo-30 min	134.49±12.91	143.62±15.13			
TSH, mU/L	Euglycemia	0.99±0.11	0.90±0.11	<0.001	0.136	0.058
	Hypo-0 min	0.93±0.12	0.86±0.13			
	Hypo-10 min	0.89±0.12	0.84±0.13			
	Hypo-20 min	0.90±0.12	0.82±0.13			
	Hypo-30 min	0.86±0.12 ^a	0.81±0.12			
ACTH, pmol/L	Euglycemia	6.70±2.53	9.49±2.65	0.002	0.050	0.057
	Hypo-0 min	49.74±7.46 ^b	27.52±7.82			
	Hypo-10 min	54.04±9.65 ^b	35.55±10.12			
	Hypo-20 min	66.50±10.46 ^b	33.38±10.97			
	Hypo-30 min	67.36±10.30 ^b	30.79±10.80			
Cortisol, nmol/L	Euglycemia	360.95±47.13	384.97±49.43	<0.001	0.644	0.561
	Hypo-0 min	554.51±59.02 ^a	551.80±61.9			
	Hypo-10 min	602.05±47.13 ^b	573.56±49.43 ^a			
	Hypo-20 min	656.50±43.33 ^b	599.43±45.44 ^b			
	Hypo-30 min	716.96±49.47 ^b	639.64±51.88 ^b			
Growth hormone, ng/mL	Euglycemia	3.76±1.11	2.17±1.17	<0.001	0.051	0.270
	Hypo-0 min	6.24±1.10	3.52±1.15			
	Hypo-10 min	6.04±0.96	3.73±1.01			
	Hypo-20 min	7.97±1.26	3.94±1.32			
	Hypo-30 min	8.62±1.40 ^a	4.73±1.47			
IGF-1, nmol/L	Euglycemia	20.59±2.29	20.56±2.29	0.064	0.438	0.489
	Hypo-0 min	24.10±1.90	22.32±1.90			
	Hypo-10 min	23.88±2.14	20.42±2.14			
	Hypo-20 min	23.05±2.38	20.69±2.38			
	Hypo-30 min	23.25±2.12	21.2±2.12			
LH, IU/L	Euglycemia	3.01±0.49	3.34±0.49	0.438	0.641	0.249
	Hypo-0 min	3.11±0.42	3.71±0.42			
	Hypo-10 min	3.29±0.42	3.63±0.42			
	Hypo-20 min	3.40±0.45	3.50±0.45			
	Hypo-30 min	3.41±0.42	3.40±0.42			

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Supplemental Table S3. Continued

Hormone		Non-obese T2DM	Obese T2DM	<i>P</i> value (time)	<i>P</i> value (group)	<i>P</i> value (time×group)
FSH, IU/L	Euglycemia	3.49±0.50	3.21±0.50	0.072	0.711	0.747
	Hypo-0 min	3.61±0.54	3.38±0.54			
	Hypo-10 min	3.72±0.55	3.42±0.55			
	Hypo-20 min	3.75±0.55	3.39±0.55			
	Hypo-30 min	3.73±0.57	3.44±0.57			
Estradiol, pmol/L	Euglycemia	106.06±6.38	131.39±6.38	0.342	0.012	0.887
	Hypo-0 min	102.39±8.40	124.78±8.40			
	Hypo-10 min	97.99±6.84	126.98±6.84			
	Hypo-20 min	97.62±8.54	126.25±8.54			
	Hypo-30 min	103.13±6.46	128.08±6.46			
Testosterone, nmol/L	Euglycemia	12.61±1.23	10.72±1.29	0.115	0.588	0.295
	Hypo-0 min	11.70±1.40	11.09±1.46			
	Hypo-10 min	11.59±1.35	10.68±1.42			
	Hypo-20 min	11.44±1.36	10.49±1.43			
	Hypo-30 min	11.35±1.31	10.46±1.37			
Prolactin, mIU/L	Euglycemia	132.75±16.60	133.90±17.41	<0.001	0.507	0.703
	Hypo-0 min	242.47±40.40	212.25±42.37			
	Hypo-10 min	402.57±92.73	355.25±97.25			
	Hypo-20 min	625.38±152.62 ^a	483.53±160.07			
	Hypo-30 min	800.70±197.22 ^a	572.29±206.85			

Values are expressed as mean±standard error of the mean.

T2DM, type 2 diabetes mellitus; ANOVA, analysis of variance; CP, C-peptide; TSH, thyroid stimulating hormone; ACTH, adrenocorticotrophic hormone; IGF-1, insulin-like growth factor 1; LH, luteinizing hormone; FSH, follicle-stimulating hormone.

^avs. Euglycemia, *P*<0.05; ^bvs. Euglycemia, *P*<0.01.