

Dopamin

Base	Dopamin	Difference = leptin – baseline	Cohen's dz
52,87	65,23125	12,36125	dz=
31,035	187,1125	156,0775	
721,5	467	-254,5	
85	113,75	28,75	
32,5	54	21,5	
143	75,5	-67,5	
43	18,5	-24,5	
275,5	226,75	-48,75	
AVERAGE		-22,0702	
		116,0101	0,190243

MTII

Base	MTII	
29	17	-12
250	220	-30
195	173	-22
58	31	-27
23	56	33
241	258	17
56	58	2
72	91	19
197	200	3
AVERAGE		-1,88889
		22,29599

Leptin

Base	leptin		
253	139	-114	dz
234	170	-64	
221	154	-67	
247	133	-114	
AVERAGE		-1,88889	0,084719
		22,29599	

163	52	-111
333	317	-16
205	262	57

AVERAGE	-61,2857	dz	0,966771
	63,3922		

U50,488

Base	U50,488
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377	320	-57
212	200	-12
241	151	-90
115	67	-48
61	32	-29
59	31	-28
310	264	-46
208	123	-85

AVERAGE	-49,375	dz	1,801227
	27,41187		

dz=mean difference / SD

Sample size / Power analysis

Dopamin

[1] -- Sunday, March 08, 2026 -- 10:39:08

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: Post hoc: Compute achieved power

Input: Tail(s) = Two
Effect size d = 0,19

α err prob = 0,05

Total samp = 8

Output: Noncentral = 0,537401

Critical t = 2,364624

Df = 7

Power (1- β) = 0,07542

MTII

[2] -- Sunday, March 08, 2026 -- 10:40:24

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: Post hoc: Compute achieved power

Input: Tail(s) = Two
Effect size d = 0,08

α err prob = 0,05

Total samp = 9

Output: Noncentral = 0,24

Critical t = 2,306004

Df = 8

Power (1- β) = 0,055198

leptin

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: Post hoc: Compute achieved power

Input: Tail(s) = Two
Effect size d = 0,96

α err prob = 0,05

Total samp = 7

Output:	Noncentral =	2,539921
	Critical t =	2,446912
	Df =	6
	Power (1- β =	0,566682

U50,488

[4] -- Sunday, March 08, 2026 -- 10:45:42

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: Post hoc: Compute achieved power

Input:	Tail(s) =	Two
	Effect size r =	1,8
	α err prob =	0,05
	Total samp =	8

Output:	Noncentral =	5,091169
	Critical t =	2,364624
	Df =	7
	Power (1- β =	0,990761

Normality and lognormality tests**Dopamin**

Test for normal distribution

Shapiro-Wilk test

W 0,6752 0,8237

P value 0,0012 0,051

Passed normality t No Yes

P value summary ** ns

Number of values 8 8

MTII

Test for normal distribution

Shapiro-Wilk test

W 0,8359 0,8988

P value 0,052 0,245

Passed normality t Yes Yes

P value summary ns ns

Number of values 9 9

leptin

Test for normal distribution

Shapiro-Wilk test

W 0,9434 0,9379

P value 0,6696 0,6203

Passed normality t Yes Yes

P value summary ns ns

Number of values	7	7
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U50,488

Test for normal distribution

Shapiro-Wilk test

W	0,939	0,9314
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P value	0,6016	0,5294
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Passed normality t	Yes	Yes
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P value summary	ns	ns
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Number of values	8	8
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