

Results

H4: gd

Within Subjects Effects

Cases	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	ω^2
time of measurement	None	17289.381 ^a	2.000 ^a	8644.691 ^a	34.126 ^a	< .001 ^a	0.038
	Greenhouse–Geisser	17289.381	1.729	10002.110	34.126	< .001	0.038
time of measurement * Bed	None	8124.904 ^a	2.000 ^a	4062.452 ^a	16.037 ^a	< .001 ^a	0.018
	Greenhouse–Geisser	8124.904	1.729	4700.352	16.037	< .001	0.018
Residuals	None	90181.048	356.000	253.318			
	Greenhouse–Geisser	90181.048	307.686	293.094			

Note. Type III Sum of Squares

^a Mauchly's test of sphericity indicates that the assumption of sphericity is violated ($p < .05$).

Between Subjects Effects

Cases	Sum of Squares	df	Mean Square	F	p	ω^2
Bed	6147.563	1	6147.563	3.298	0.071	0.006
Residuals	331801.919	178	1864.056			

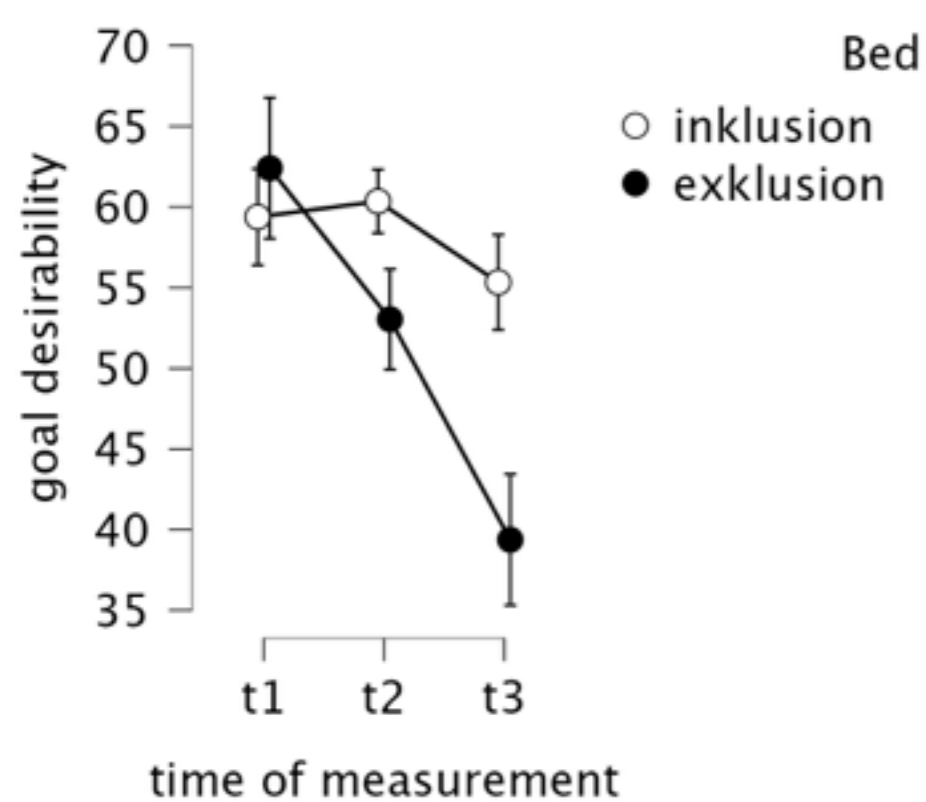
Note. Type III Sum of Squares

Descriptives

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time of measurement	Bed	Mean	SD	N
t1	exklusion	62.406	25.510	90
	inklusion	59.383	28.531	90
t2	exklusion	53.039	24.802	90
	inklusion	60.350	30.616	90
t3	exklusion	39.378	25.949	90
	inklusion	55.333	32.416	90

Descriptives plots



Assumption Checks

Test for Equality of Variances (Levene's)

	F	df1	df2	p
gdt.Teil2_1	1.059	1	178	0.305
gdt.Teil2_2	6.026	1	178	0.015
gdt.Teil2_3	6.900	1	178	0.009

Test of Sphericity

	Mauchly's W	Approx. X^2	df	p-value	Greenhouse–Geisser ϵ	Huynh–Feldt ϵ	Lower Bound ϵ
time of measurement	0.843	30.234	2	< .001	0.864	0.872	0.500

Contrast Tables

Custom Contrast – Bed * time of measurement

Comparison	Estimate	95% CI for Mean Difference		SE	df	t	p
		Lower	Upper				
1	-3.022	-10.983	4.939	4.034	178.000	-0.749	0.455
2	7.311	-0.885	15.507	4.153	178.000	1.760	0.080
3	15.956	7.318	24.593	4.377	178.000	3.645	< .001
4	-8.644	-14.345	-2.944	2.888	178.000	-2.993	0.003

Custom Contrast Coefficients – Bed * time of measurement

Bed	time of measurement	Comparison 1	Comparison 2	Comparison 3	Comparison 4
inklusion	t1	1	0	0	0
	exklusion	-1	0	0	0
inklusion	t2	0	1	0	1
	exklusion	0	-1	0	-1
inklusion	t3	0	0	1	-1
	exklusion	0	0	-1	1