

Independent Samples (equivalence bounds based on raw scores)										
Mean group 1	76	Mean group 2	78	90% CI Mdiff [Lower]	-7.799	90% CI Mdiff [Upper]	3.556			
SD group 1	23	SD group 2	19.05998	NHST Welch's two-sided t -test				NHST Student's two-sided t -test		
n group 1	73	n group 2	79	t	-0.618			t	-0.623	
low equivalence bound (raw scores)		high equivalence bound (raw scores)	10	df	140.5869956			df	150	
				p	0.537			p	0.534	
				TOST Power Analysis				TOST Equivalence Test Equal Variances Not Assumed		
alpha (Type 1 error rate)	0.025			One-Sided Test 1		One-Sided Test 2		TOST Equivalence Test Equal Variances Assumed		
Desired Power	0.9			t	2.297	t	-3.533	t	2.313	
low equivalence bound (raw scores)	-10			df	140.59	df	140.59	df	150	
high equivalence bound (raw scores)	10			p	0.012	p	0.000	p	0.025	
pooled SD	20			TOST result				TOST result		
Required Sample Size (in each condition)	104			t	2.297	p	0.012	t	2.313	
The TOST procedure based on Welch's t-test indicated that the observed effect size (d = -0.1) was significantly within the equivalent bounds of -10 and 10 scale points, (or in Cohen's d: -0.48 and 0.48), t(140.59) = 2.3, p = 0.012							The TOST procedure based on Student's t-test indicated that the observed effect size (d = -0.1) was significantly within the equivalent bounds of -10 and 10 scale points, t(150) = 2.31, p = 0.025			