

Supplement B: Transformed Population Correlations

Table SB1.

Mean Transformed Population Correlation (Transformed ρ) When Untransformed Population Correlation (ρ) was .5

Population Moments		Mean Transformed ρ					
		When X & Y have shown moments			When X has shown moments, and Y~normal		
γ_1	γ_2	Spearman	Box-Cox	RIN	Spearman	Box-Cox	RIN
0	-1	.50	.50	.51	.49	.50	.51
0	0	.48	.50	.50	.48	.50	.50
0	2	.49	.50	.51	.49	.50	.50
0	4	.50	.50	.52	.49	.50	.51
0	6	.51	.50	.52	.50	.50	.52
0	8	.51	.50	.53	.50	.50	.52
0	10	.52	.50	.54	.51	.50	.53
0	20	.56	.50	.58	.54	.50	.56
0	30	.59	.50	.61	.58	.50	.59
0	40	.62	.50	.64	.61	.50	.63
1	2	.49	.51	.51	.49	.51	.51
1	4	.50	.51	.52	.50	.51	.51
1	6	.51	.50	.52	.50	.50	.52
1	8	.51	.50	.53	.51	.50	.52
1	10	.52	.50	.54	.51	.50	.53
1	20	.56	.50	.58	.54	.50	.56
1	30	.59	.50	.61	.58	.50	.59
1	40	.62	.50	.64	.62	.50	.63
2	8	.52	.52	.54	.52	.53	.54
2	10	.52	.51	.54	.52	.52	.54
2	20	.56	.50	.58	.55	.51	.56
2	30	.59	.50	.61	.58	.50	.60
2	40	.62	.50	.64	.62	.50	.63
3	20	.56	.51	.58	.56	.52	.58
3	30	.59	.50	.61	.59	.51	.60
3	40	.62	.50	.64	.62	.51	.64
4	30	.59	.51	.61	.62	.53	.63
4	40	.62	.50	.64	.64	.52	.65

Notes. Estimates of transformed population correlations (transformed ρ) were derived from pseudo-populations. Not shown here, when ρ was 0, transformed ρ was also 0. Only positive skews are shown because the corresponding negative skews produced a similar pattern of results. γ_1 =population skewness, γ_2 =population kurtosis.