

Model: Dependent variable ~GlobalSTD + LastSOA + LocalSTD + (1+ GlobalSTD Subject)								
Local STD from N previous SOAs								
N = 2								
Dep. Var.: subject's responses					Dep. Var.: response times			
Groups	Name	Variance	SD	Corr	Name	Variance	SD	Corr
Subj	(Intercept)	0.1285	0.3585		(Intercept)	0.00183	0.04278	
	global STD	1.2459	1.1162	0.48	Global STD	0.04278 0.09853	0.21018 0.31390	-0.39
Residual								
Fixed effects:								
	Estimate	SE	Z value	Pr(> z)		Estimate	SE	t value Pr(> t)
Intercept	1.15013	0.15962	7.205	< 0.001		0.61127	0.02786	21.938 < 0.001
Global STD	-1.46183	0.63695	-2.295	0.02173		0.19790	0.09112	2.172 0.0299
Last SOA	0.75670	0.25905	2.921	0.00349		-0.03023	0.01765	-1.713 0.0868
Local STD	-0.02454	0.60973	-0.040	0.96790		-0.02721	0.04182	-0.651 0.5153
N = 3								
Groups	Name	Variance	SD	Corr	Name	Variance	SD	Corr
Subj	(Intercept)	0.1285	0.3584		(Intercept)	0.001828	0.04276	
	Global STD	1.2599	1.1224	0.48	Global STD	0.044112 0.098496	0.21003 0.31384	-0.39
Residual								
Fixed effects:								
	Estimate	SE	Z value	Pr(> z)		Estimate	SE	t value Pr(> t)
Intercept	1.1712	0.1582	7.401	< 0.001		0.61008	0.02789	21.876 < 0.001
Global STD	-0.3017	0.7222	-0.418	0.67615		0.10619	0.09370	1.133 0.2571
Last SOA	0.7147	0.2556	2.796	0.00518		-0.02779	0.01783	-1.558 0.1192
Local STD	-1.6233	0.6676	-2.431	0.01504		0.10590	0.04669	2.268 0.0233
N = 4								
Groups	Name	Variance	SD	Corr	Name	Variance	SD	Corr
Subj	(Intercept)	0.1285	0.3585		(Intercept)	0.001829	0.04277	
	Global STD	1.2569	1.1211	0.48	Global STD	0.044133 0.098534	0.21008 0.31390	-0.39
Residual								
Fixed effects:								
	Estimate	SE	Z value	Pr(> z)		Estimate	SE	t value Pr(> t)
Intercept	1.1635	0.1584	7.347	< 0.001		0.61070	0.02787	21.909 < 0.001
Global STD	-0.3167	0.7827	-0.405	0.68574		0.14078	0.09642	1.460 0.144
Last SOA	0.7336	0.2559	2.867	0.00414		-0.02911	0.01773	-1.642 0.101
Local STD	-1.4981	0.7434	-2.015	0.04387		0.05331	0.05210	1.023 0.306

N = 5								
Groups	Name	Variance	SD	Corr	Name	Variance	SD	Corr
Subj	(Intercept)	0.1285	0.3585		(Intercept)	0.001829	0.04276	
	Global							
	STD	1.2559	1.1206	0.48	Global STD	0.044066	0.20992	-0.39
Residual						0.098528	0.31389	
Fixed effects:								
	Estimate	SE	Z value	Pr(> z)	Estimate	SE	t value	Pr(> t)
Intercept	1.1714	0.1587	7.380	< 0.001	0.60997	0.02788	21.876	< 0.001
Global STD	-0.2257	0.8598	-0.262	0.79294	0.10573	0.09941	1.064	0.288
Last SOA	0.7175	0.2567	2.795	0.00519	-0.02765	0.01780	-1.553	0.120
Local STD	-1.5221	0.8197	-1.857	0.06333	0.09259	0.05737	1.614	0.107
N = 6								
Groups	Name	Variance	SD	Corr	Name	Variance	SD	Corr
Subj	(Intercept)	0.1285	0.3585		(Intercept)	0.001829	0.04276	
	Global							
	STD	1.2478	1.1171	0.48	Global STD	0.044017	0.20980	-0.39
Residual						0.098540	0.31391	
Fixed effects:								
	Estimate	SE	Z value	Pr(> z)	Estimate	SE	t value	Pr(> t)
Intercept	1.1553	0.1592	7.255	< 0.001	0.61020	0.02788	21.885	< 0.001
Global STD	-1.0614	0.9234	-1.149	0.25039	0.09016	0.10255	0.879	0.3793
Last SOA	0.7475	0.2579	2.898	0.00375	-0.02811	0.01780	-1.580	0.1142
Local STD	-0.4897	0.8996	-0.544	0.58616	0.10752	0.06287	1.710	0.0872
N = 7								
Groups	Name	Variance	SD	Corr	Name	Variance	SD	Corr
Subj	(Intercept)	0.1285	0.3585		(Intercept)	0.001829	0.04277	
	Temporal							
	STD	1.2460	1.1162	0.48	Temporal STD	0.044062	0.20991	-0.39
Residual						0.098546	0.31392	
Fixed effects:								
	Estimate	SE	Z value	Pr(> z)	Estimate	SE	t value	Pr(> t)
Intercept	1.1505	0.1595	7.214	< 0.001	0.61024	0.02788	21.888	< 0.001
Global STD	-1.4124	0.9912	-1.425	0.15418	0.09790	0.10643	0.920	0.358
Last SOA	0.7561	0.2586	2.924	0.00345	-0.02807	0.01778	-1.579	0.114
Local STD	-0.0722	0.9585	-0.075	0.93996	0.09454	0.06823	1.386	0.166

SD; standard deviation; SE, standarderror; Corr, correlation

Table S1: Models summaries of local statistics vs global statistics influences on subject's responses and subject's response times