

```

GLM SUD_static_1 SUD_static_2 SUD_static_3 SUD_static_4 SUD_dynamic_1 SUD_dyn
amic_2 SUD_dynamic_3
      SUD_dynamic_4 HR_static_1 HR_static_2 HR_static_3 HR_static_4 HR_dynamic_
1 HR_dynamic_2
      HR_dynamic_3 HR_dynamic_4 RMSSD_static_1 RMSSD_static_2 RMSSD_static_3 RM
SSD_static_4
      RMSSD_dynamic_1 RMSSD_dynamic_2 RMSSD_dynamic_3 RMSSD_dynamic_4 Speak_sta
tic_1 Speak_static_2
      Speak_static_3 Speak_static_4 Speak_dynamic_1 Speak_dynamic_2 Speak_dynam
ic_3 Speak_dynamic_4 BY
      SIAS_LowHi
/WSFACTOR=SystemRespond 2 Polynomial TimeSlot 4 Polynomial
/MEASURE=SUD HeartRate HeartRateVariability LenghtOfSpeak
/METHOD=SSTYPE(3)
/PRINT=ETASQ
/CRITERIA=ALPHA(.05)
/WSDESIGN=SystemRespond TimeSlot SystemRespond*TimeSlot
/DESIGN=SIAS_LowHi.

```

## General Linear Model

### Within-Subjects Factors

Measure	SystemRespond	TimeSlot	Depende nt Variable
SUD	1	1	SUD_stat ic_1
		2	SUD_stat ic_2
		3	SUD_stat ic_3
		4	SUD_stat ic_4
	2	1	SUD_dyn amic_1
		2	SUD_dyn amic_2
		3	SUD_dyn amic_3
		4	SUD_dyn amic_4
HeartRate	1	1	HR_static _1
		2	HR_static _2

### Within-Subjects Factors

Measure	SvstemRespond	TimeSlot	Depende nt Variable
HeartRateVariabili ty	2	3	HR_static_3
		4	HR_static_4
		1	HR_dynamic_1
		2	HR_dynamic_2
		3	HR_dynamic_3
		4	HR_dynamic_4
	1	1	RMSSD_static_1
		2	RMSSD_static_2
		3	RMSSD_static_3
		4	RMSSD_static_4
	2	1	RMSSD_dynamic_1
		2	RMSSD_dynamic_2
		3	RMSSD_dynamic_3
		4	RMSSD_dynamic_4
LenghtOfSpeak	1	1	Speak_static_1
		2	Speak_static_2
		3	Speak_static_3
		4	Speak_static_4
	2	1	Speak_dynamic_1
		2	Speak_dynamic_2
		3	Speak_dynamic_3
		4	Speak_dynamic_4

### Between-Subjects Factors

		N
Group SIAS: Low Anxiety ( ≤ 27.79 ) & High Anxiety ( > 27.79 )	.00	19
	1.00	5

### Multivariate Tests<sup>a</sup>

Effect			Value	F	Hypothesis is df
Between Subjects	Intercept	Pillai's Trace	1.000	25402,8 <sup>b</sup>	4.000
		Wilks' Lambda	.000	25402,8 <sup>b</sup>	4.000
		Hotelling's Trace	5347.961	25402,8 <sup>b</sup>	4.000
		Roy's Largest Root	5347.961	25402,8 <sup>b</sup>	4.000
	SIAS_LowHi	Pillai's Trace	.811	20.336 <sup>b</sup>	4.000
		Wilks' Lambda	.189	20.336 <sup>b</sup>	4.000
		Hotelling's Trace	4.281	20.336 <sup>b</sup>	4.000
		Roy's Largest Root	4.281	20.336 <sup>b</sup>	4.000
	SystemRespond	Pillai's Trace	.623	7.839 <sup>b</sup>	4.000
		Wilks' Lambda	.377	7.839 <sup>b</sup>	4.000
		Hotelling's Trace	1.650	7.839 <sup>b</sup>	4.000
		Roy's Largest Root	1.650	7.839 <sup>b</sup>	4.000
	SystemRespond * SIAS_LowHi	Pillai's Trace	.271	1.763 <sup>b</sup>	4.000
		Wilks' Lambda	.729	1.763 <sup>b</sup>	4.000
		Hotelling's Trace	.371	1.763 <sup>b</sup>	4.000
		Roy's Largest Root	.371	1.763 <sup>b</sup>	4.000
Within Subjects	TimeSlot	Pillai's Trace	.982	50.470 <sup>b</sup>	12.000
		Wilks' Lambda	.018	50.470 <sup>b</sup>	12.000
		Hotelling's Trace	55.058	50.470 <sup>b</sup>	12.000
		Roy's Largest Root	55.058	50.470 <sup>b</sup>	12.000
	TimeSlot * SIAS_LowHi	Pillai's Trace	.949	16.927 <sup>b</sup>	12.000
		Wilks' Lambda	.051	16.927 <sup>b</sup>	12.000
		Hotelling's Trace	18.466	16.927 <sup>b</sup>	12.000
		Roy's Largest Root	18.466	16.927 <sup>b</sup>	12.000
	SystemRespond * TimeSlot	Pillai's Trace	.941	14.603 <sup>b</sup>	12.000
		Wilks' Lambda	.059	14.603 <sup>b</sup>	12.000

**Multivariate Tests<sup>a</sup>**

Effect			Error df	Sig.	Partial Eta Squared
Between Subjects	Intercept	Pillai's Trace	19.000	.000	1.000
		Wilks' Lambda	19.000	.000	1.000
		Hotelling's Trace	19.000	.000	1.000
		Roy's Largest Root	19.000	.000	1.000
	SIAS_LowHi	Pillai's Trace	19.000	.000	.811
		Wilks' Lambda	19.000	.000	.811
		Hotelling's Trace	19.000	.000	.811
		Roy's Largest Root	19.000	.000	.811
Within Subjects	SystemRespond	Pillai's Trace	19.000	.001	.623
		Wilks' Lambda	19.000	.001	.623
		Hotelling's Trace	19.000	.001	.623
		Roy's Largest Root	19.000	.001	.623
	SystemRespond * SIAS_LowHi	Pillai's Trace	19.000	.178	.271
		Wilks' Lambda	19.000	.178	.271
		Hotelling's Trace	19.000	.178	.271
		Roy's Largest Root	19.000	.178	.271
	TimeSlot	Pillai's Trace	11.000	.000	.982
		Wilks' Lambda	11.000	.000	.982
		Hotelling's Trace	11.000	.000	.982
		Roy's Largest Root	11.000	.000	.982
	TimeSlot * SIAS_LowHi	Pillai's Trace	11.000	.000	.949
		Wilks' Lambda	11.000	.000	.949
		Hotelling's Trace	11.000	.000	.949
		Roy's Largest Root	11.000	.000	.949
	SystemRespond * TimeSlot	Pillai's Trace	11.000	.000	.941
		Wilks' Lambda	11.000	.000	.941

**Multivariate Tests<sup>a</sup>**

Effect		Value	F	Hypothesis df
SystemRespond * TimeSlot * SIAS_LowHi	Hotelling's Trace	15.930	14.603 <sup>b</sup>	12.000
	Roy's Largest Root	15.930	14.603 <sup>b</sup>	12.000
	Pillai's Trace	.832	4.537 <sup>b</sup>	12.000
	Wilks' Lambda	.168	4.537 <sup>b</sup>	12.000
	Hotelling's Trace	4.950	4.537 <sup>b</sup>	12.000
	Roy's Largest Root	4.950	4.537 <sup>b</sup>	12.000

**Multivariate Tests<sup>a</sup>**

Effect		Error df	Sig.	Partial Eta Squared
SystemRespond * TimeSlot * SIAS_LowHi	Hotelling's Trace	11.000	.000	.941
	Roy's Largest Root	11.000	.000	.941
	Pillai's Trace	11.000	.009	.832
	Wilks' Lambda	11.000	.009	.832
	Hotelling's Trace	11.000	.009	.832
	Roy's Largest Root	11.000	.009	.832

a. Design: Intercept + SIAS\_LowHi

Within Subjects Design: SystemRespond + TimeSlot + SystemRespond \* TimeSlot

b. Exact statistic

**Mauchly's Test of Sphericity<sup>a</sup>**

Within Subjects Effect	Measure	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon <sup>b</sup>
						Greenhouse-Geisser
SystemRespond	SUD	1.000	.000	0	.	1.000
	HeartRate	1.000	.000	0	.	1.000
	HeartRateVariability	1.000	.000	0	.	1.000
	LenghtOfSpeak	1.000	.000	0	.	1.000
TimeSlot	SUD	.849	3.386	5	.641	.894
	HeartRate	.646	9.050	5	.107	.805
	HeartRateVariability	.539	12.807	5	.025	.701
	LenghtOfSpeak	.655	8.765	5	.119	.834
SystemRespond * TimeSlot	SUD	.638	9.321	5	.097	.778
	HeartRate	.628	9.647	5	.086	.759
	HeartRateVariability	.277	26.595	5	.000	.573
	LenghtOfSpeak	.736	6.346	5	.274	.832

**Mauchly's Test of Sphericity<sup>a</sup>**

Within Subjects Effect	Measure	Epsilon <sup>b</sup>	
		Huynh-Feldt	Lower-bound
SystemRespond	SUD	1.000	1.000
	HeartRate	1.000	1.000
	HeartRateVariability	1.000	1.000
	LenghtOfSpeak	1.000	1.000
TimeSlot	SUD	1.000	.333
	HeartRate	.952	.333
	HeartRateVariability	.812	.333
	LenghtOfSpeak	.993	.333
SystemRespond * TimeSlot	SUD	.916	.333
	HeartRate	.890	.333
	HeartRateVariability	.645	.333
	LenghtOfSpeak	.990	.333

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept + SIAS\_LowHi

Within Subjects Design: SystemRespond + TimeSlot + SystemRespond \* TimeSlot

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

## Tests of Within-Subjects Effects

### Multivariate<sup>a,b</sup>

Within Subjects Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
SystemRespond	Pillai's Trace	.623	7.839 <sup>c</sup>	4.000	19.000	.001	.623
	Wilks' Lambda	.377	7.839 <sup>c</sup>	4.000	19.000	.001	.623
	Hotelling's Trace	1.650	7.839 <sup>c</sup>	4.000	19.000	.001	.623
	Roy's Largest Root	1.650	7.839 <sup>c</sup>	4.000	19.000	.001	.623
SystemRespond * SIAS_LowHi	Pillai's Trace	.271	1.763 <sup>c</sup>	4.000	19.000	.178	.271
	Wilks' Lambda	.729	1.763 <sup>c</sup>	4.000	19.000	.178	.271
	Hotelling's Trace	.371	1.763 <sup>c</sup>	4.000	19.000	.178	.271
	Roy's Largest Root	.371	1.763 <sup>c</sup>	4.000	19.000	.178	.271
TimeSlot	Pillai's Trace	1.034	8.544	12.000	195.000	.000	.345
	Wilks' Lambda	.107	18.466	12.000	166.974	.000	.525
	Hotelling's Trace	7.069	36.328	12.000	185.000	.000	.702
	Roy's Largest Root	6.891	111.983 <sup>d</sup>	4.000	65.000	.000	.873
TimeSlot * SIAS_LowHi	Pillai's Trace	.884	6.785	12.000	195.000	.000	.295
	Wilks' Lambda	.274	8.777	12.000	166.974	.000	.350
	Hotelling's Trace	2.104	10.814	12.000	185.000	.000	.412
	Roy's Largest Root	1.836	29.836 <sup>d</sup>	4.000	65.000	.000	.647
SystemRespond * TimeSlot	Pillai's Trace	.772	5.633	12.000	195.000	.000	.257
	Wilks' Lambda	.282	8.549	12.000	166.974	.000	.345
	Hotelling's Trace	2.360	12.127	12.000	185.000	.000	.440
	Roy's Largest Root	2.276	36.988 <sup>d</sup>	4.000	65.000	.000	.695
SystemRespond * TimeSlot * SIAS_LowHi	Pillai's Trace	.205	1.191	12.000	195.000	.292	.068
	Wilks' Lambda	.802	1.213	12.000	166.974	.278	.071
	Hotelling's Trace	.239	1.230	12.000	185.000	.265	.074
	Roy's Largest Root	.200	3.258 <sup>d</sup>	4.000	65.000	.017	.167

- a. Design: Intercept + SIAS\_LowHi  
Within Subjects Design: SystemRespond + TimeSlot + SystemRespond \* TimeSlot
- b. Tests are based on averaged variables.
- c. Exact statistic
- d. The statistic is an upper bound on F that yields a lower bound on the significance level.

#### Univariate Tests

Source	Measure		Type III Sum of Squares	df	Mean Square	F
SystemRespond	SUD	Sphericity Assumed	19.605	1	19.605	15.337
		Greenhouse- Geisser	19.605	1.000	19.605	15.337
		Huynh-Feldt	19.605	1.000	19.605	15.337
		Lower-bound	19.605	1.000	19.605	15.337
	HeartRate	Sphericity Assumed	29.320	1	29.320	3.983
		Greenhouse- Geisser	29.320	1.000	29.320	3.983
		Huynh-Feldt	29.320	1.000	29.320	3.983
		Lower-bound	29.320	1.000	29.320	3.983
	HeartRateVariability	Sphericity Assumed	952.374	1	952.374	7.408
		Greenhouse- Geisser	952.374	1.000	952.374	7.408
		Huynh-Feldt	952.374	1.000	952.374	7.408
		Lower-bound	952.374	1.000	952.374	7.408
	LenghtOfSpeak	Sphericity Assumed	831.531	1	831.531	9.068
		Greenhouse- Geisser	831.531	1.000	831.531	9.068
		Huynh-Feldt	831.531	1.000	831.531	9.068
		Lower-bound	831.531	1.000	831.531	9.068
SystemRespond * SIAS_LowHi	SUD	Sphericity Assumed	3.105	1	3.105	2.429
		Greenhouse- Geisser	3.105	1.000	3.105	2.429
		Huynh-Feldt	3.105	1.000	3.105	2.429
		Lower-bound	3.105	1.000	3.105	2.429
	HeartRate	Sphericity Assumed	9.745	1	9.745	1.324
		Greenhouse- Geisser	9.745	1.000	9.745	1.324



# Univariate Tests

Source	Measure		Sig.	Partial Eta Squared
SystemRespond	SUD	Sphericity Assumed	.001	.411
		Greenhouse- Geisser	.001	.411
		Huynh-Feldt	.001	.411
		Lower-bound	.001	.411
	HeartRate	Sphericity Assumed	.058	.153
		Greenhouse- Geisser	.058	.153
		Huynh-Feldt	.058	.153
		Lower-bound	.058	.153
	HeartRateVariabili ty	Sphericity Assumed	.012	.252
		Greenhouse- Geisser	.012	.252
		Huynh-Feldt	.012	.252
		Lower-bound	.012	.252
	LenghtOfSpeak	Sphericity Assumed	.006	.292
		Greenhouse- Geisser	.006	.292
		Huynh-Feldt	.006	.292
		Lower-bound	.006	.292
SystemRespond * SIAS_LowHi	SUD	Sphericity Assumed	.133	.099
		Greenhouse- Geisser	.133	.099
		Huynh-Feldt	.133	.099
		Lower-bound	.133	.099
	HeartRate	Sphericity Assumed	.262	.057
		Greenhouse- Geisser	.262	.057

# Univariate Tests

Source	Measure		Type III Sum of Squares	df	Mean Square	F
Error (SystemRespond)	HeartRateVariability	Huynh-Feldt	9.745	1.000	9.745	1.324
		Lower-bound	9.745	1.000	9.745	1.324
		Sphericity Assumed	115.048	1	115.048	.895
		Greenhouse- Geisser	115.048	1.000	115.048	.895
		Huynh-Feldt	115.048	1.000	115.048	.895
		Lower-bound	115.048	1.000	115.048	.895
	LenghtOfSpeak	Sphericity Assumed	475.656	1	475.656	5.187
		Greenhouse- Geisser	475.656	1.000	475.656	5.187
		Huynh-Feldt	475.656	1.000	475.656	5.187
		Lower-bound	475.656	1.000	475.656	5.187
	SUD	Sphericity Assumed	28.124	22	1.278	
		Greenhouse- Geisser	28.124	22.000	1.278	
		Huynh-Feldt	28.124	22.000	1.278	
		Lower-bound	28.124	22.000	1.278	
	HeartRate	Sphericity Assumed	161.948	22	7.361	
		Greenhouse- Geisser	161.948	22.000	7.361	
		Huynh-Feldt	161.948	22.000	7.361	
		Lower-bound	161.948	22.000	7.361	
	HeartRateVariability	Sphericity Assumed	2828.401	22	128.564	
		Greenhouse- Geisser	2828.401	22.000	128.564	
		Huynh-Feldt	2828.401	22.000	128.564	
		Lower-bound	2828.401	22.000	128.564	
	LenghtOfSpeak	Sphericity Assumed	2017.426	22	91.701	
		Greenhouse- Geisser	2017.426	22.000	91.701	
		Huynh-Feldt	2017.426	22.000	91.701	
		Lower-bound	2017.426	22.000	91.701	

**Univariate Tests**

Source	Measure		Sig.	Partial Eta Squared
Error (SystemRespond)	HeartRateVariability	Huynh-Feldt	.262	.057
		Lower-bound	.262	.057
		Sphericity Assumed	.354	.039
		Greenhouse- Geisser	.354	.039
		Huynh-Feldt	.354	.039
		Lower-bound	.354	.039
	LenghtOfSpeak	Sphericity Assumed	.033	.191
		Greenhouse- Geisser	.033	.191
		Huynh-Feldt	.033	.191
		Lower-bound	.033	.191
	SUD	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	HeartRate	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	HeartRateVariability	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	LenghtOfSpeak	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		

### Univariate Tests

Source	Measure		Type III Sum of Squares	df	Mean Square	F
TimeSlot	SUD	Sphericity Assumed	48.321	3	16.107	38.817
		Greenhouse- Geisser	48.321	2.683	18.011	38.817
		Huynh-Feldt	48.321	3.000	16.107	38.817
		Lower-bound	48.321	1.000	48.321	38.817
	HeartRate	Sphericity Assumed	125.571	3	41.857	36.638
		Greenhouse- Geisser	125.571	2.414	52.022	36.638
		Huynh-Feldt	125.571	2.856	43.972	36.638
		Lower-bound	125.571	1.000	125.571	36.638
	HeartRateVariabili ty	Sphericity Assumed	706.903	3	235.634	28.816
		Greenhouse- Geisser	706.903	2.103	336.086	28.816
		Huynh-Feldt	706.903	2.437	290.119	28.816
		Lower-bound	706.903	1.000	706.903	28.816
	LenghtOfSpeak	Sphericity Assumed	8841.159	3	2947.053	58.059
		Greenhouse- Geisser	8841.159	2.503	3531.547	58.059
		Huynh-Feldt	8841.159	2.979	2967.654	58.059
		Lower-bound	8841.159	1.000	8841.159	58.059
TimeSlot * SIAS_LowHi	SUD	Sphericity Assumed	18.738	3	6.246	15.052
		Greenhouse- Geisser	18.738	2.683	6.984	15.052
		Huynh-Feldt	18.738	3.000	6.246	15.052
		Lower-bound	18.738	1.000	18.738	15.052
	HeartRate	Sphericity Assumed	27.024	3	9.008	7.885
		Greenhouse- Geisser	27.024	2.414	11.196	7.885
		Huynh-Feldt	27.024	2.856	9.463	7.885
		Lower-bound	27.024	1.000	27.024	7.885
	HeartRateVariabili ty	Sphericity Assumed	156.011	3	52.004	6.360
		Greenhouse- Geisser	156.011	2.103	74.173	6.360

# Univariate Tests

Source	Measure		Sig.	Partial Eta Squared
TimeSlot	SUD	Sphericity Assumed	.000	.638
		Greenhouse- Geisser	.000	.638
		Huynh-Feldt	.000	.638
		Lower-bound	.000	.638
	HeartRate	Sphericity Assumed	.000	.625
		Greenhouse- Geisser	.000	.625
		Huynh-Feldt	.000	.625
		Lower-bound	.000	.625
	HeartRateVariabili ty	Sphericity Assumed	.000	.567
		Greenhouse- Geisser	.000	.567
		Huynh-Feldt	.000	.567
		Lower-bound	.000	.567
	LenghtOfSpeak	Sphericity Assumed	.000	.725
		Greenhouse- Geisser	.000	.725
		Huynh-Feldt	.000	.725
		Lower-bound	.000	.725
TimeSlot * SIAS_LowHi	SUD	Sphericity Assumed	.000	.406
		Greenhouse- Geisser	.000	.406
		Huynh-Feldt	.000	.406
		Lower-bound	.001	.406
	HeartRate	Sphericity Assumed	.000	.264
		Greenhouse- Geisser	.000	.264
		Huynh-Feldt	.000	.264
		Lower-bound	.010	.264
	HeartRateVariabili ty	Sphericity Assumed	.001	.224
		Greenhouse- Geisser	.003	.224

# Univariate Tests

Source	Measure		Type III Sum of Squares	df	Mean Square	F
Error(TimeSlot)	LenghtOfSpeak	Huynh-Feldt	156.011	2.437	64.028	6.360
		Lower-bound	156.011	1.000	156.011	6.360
		Sphericity Assumed	2713.480	3	904.493	17.819
		Greenhouse- Geisser	2713.480	2.503	1083.883	17.819
		Huynh-Feldt	2713.480	2.979	910.816	17.819
		Lower-bound	2713.480	1.000	2713.480	17.819
	SUD	Sphericity Assumed	27.387	66	.415	
		Greenhouse- Geisser	27.387	59.023	.464	
		Huynh-Feldt	27.387	66.000	.415	
		Lower-bound	27.387	22.000	1.245	
	HeartRate	Sphericity Assumed	75.401	66	1.142	
		Greenhouse- Geisser	75.401	53.104	1.420	
		Huynh-Feldt	75.401	62.825	1.200	
		Lower-bound	75.401	22.000	3.427	
	HeartRateVariability	Sphericity Assumed	539.693	66	8.177	
		Greenhouse- Geisser	539.693	46.273	11.663	
		Huynh-Feldt	539.693	53.605	10.068	
		Lower-bound	539.693	22.000	24.531	
	LenghtOfSpeak	Sphericity Assumed	3350.126	66	50.759	
		Greenhouse- Geisser	3350.126	55.077	60.827	
		Huynh-Feldt	3350.126	65.542	51.114	
		Lower-bound	3350.126	22.000	152.278	
SystemRespond * TimeSlot	SUD	Sphericity Assumed	19.886	3	6.629	12.991
		Greenhouse- Geisser	19.886	2.334	8.519	12.991
		Huynh-Feldt	19.886	2.747	7.239	12.991
		Lower-bound	19.886	1.000	19.886	12.991

# Univariate Tests

Source	Measure		Sig.	Partial Eta Squared
Error(TimeSlot)	LenghtOfSpeak	Huynh-Feldt	.002	.224
		Lower-bound	.019	.224
		Sphericity Assumed	.000	.448
		Greenhouse- Geisser	.000	.448
		Huynh-Feldt	.000	.448
		Lower-bound	.000	.448
	SUD	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	HeartRate	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	HeartRateVariabili ty	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	LenghtOfSpeak	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
SystemRespond * TimeSlot	SUD	Sphericity Assumed	.000	.371
		Greenhouse- Geisser	.000	.371
		Huynh-Feldt	.000	.371
		Lower-bound	.002	.371

# Univariate Tests

Source	Measure		Type III Sum of Squares	df	Mean Square	F
SystemRespond * TimeSlot * SIAS_LowHi	HeartRate	Sphericity Assumed	69.131	3	23.044	15.786
		Greenhouse- Geisser	69.131	2.277	30.355	15.786
		Huynh-Feldt	69.131	2.670	25.893	15.786
		Lower-bound	69.131	1.000	69.131	15.786
	HeartRateVariability	Sphericity Assumed	470.102	3	156.701	17.456
		Greenhouse- Geisser	470.102	1.718	273.578	17.456
		Huynh-Feldt	470.102	1.935	242.976	17.456
		Lower-bound	470.102	1.000	470.102	17.456
	LenghtOfSpeak	Sphericity Assumed	3159.294	3	1053.098	19.238
		Greenhouse- Geisser	3159.294	2.496	1265.534	19.238
		Huynh-Feldt	3159.294	2.969	1063.952	19.238
		Lower-bound	3159.294	1.000	3159.294	19.238
	SUD	Sphericity Assumed	.636	3	.212	.416
		Greenhouse- Geisser	.636	2.334	.273	.416
		Huynh-Feldt	.636	2.747	.232	.416
		Lower-bound	.636	1.000	.636	.416
	HeartRate	Sphericity Assumed	3.056	3	1.019	.698
		Greenhouse- Geisser	3.056	2.277	1.342	.698
		Huynh-Feldt	3.056	2.670	1.145	.698
		Lower-bound	3.056	1.000	3.056	.698
	HeartRateVariability	Sphericity Assumed	14.937	3	4.979	.555
		Greenhouse- Geisser	14.937	1.718	8.693	.555
		Huynh-Feldt	14.937	1.935	7.720	.555
		Lower-bound	14.937	1.000	14.937	.555
	LenghtOfSpeak	Sphericity Assumed	554.144	3	184.715	3.374
		Greenhouse- Geisser	554.144	2.496	221.976	3.374



# Univariate Tests

Source	Measure		Sig.	Partial Eta Squared
SystemRespond * TimeSlot * SIAS_LowHi	HeartRate	Sphericity Assumed	.000	.418
		Greenhouse- Geisser	.000	.418
		Huynh-Feldt	.000	.418
		Lower-bound	.001	.418
	HeartRateVariabili ty	Sphericity Assumed	.000	.442
		Greenhouse- Geisser	.000	.442
		Huynh-Feldt	.000	.442
		Lower-bound	.000	.442
	LenghtOfSpeak	Sphericity Assumed	.000	.467
		Greenhouse- Geisser	.000	.467
		Huynh-Feldt	.000	.467
		Lower-bound	.000	.467
	SUD	Sphericity Assumed	.742	.019
		Greenhouse- Geisser	.693	.019
		Huynh-Feldt	.725	.019
		Lower-bound	.526	.019
	HeartRate	Sphericity Assumed	.557	.031
		Greenhouse- Geisser	.520	.031
		Huynh-Feldt	.541	.031
		Lower-bound	.412	.031
	HeartRateVariabili ty	Sphericity Assumed	.647	.025
		Greenhouse- Geisser	.553	.025
		Huynh-Feldt	.573	.025
		Lower-bound	.464	.025
	LenghtOfSpeak	Sphericity Assumed	.023	.133
		Greenhouse- Geisser	.032	.133

### Univariate Tests

Source	Measure		Type III Sum of Squares	df	Mean Square	F
Error (SystemRespond* TimeSlot)	SUD	Huynh-Feldt	554.144	2.969	186.619	3.374
		Lower-bound	554.144	1.000	554.144	3.374
		Sphericity Assumed	33.676	66	.510	
		Greenhouse- Geisser	33.676	51.356	.656	
		Huynh-Feldt	33.676	60.437	.557	
		Lower-bound	33.676	22.000	1.531	
	HeartRate	Sphericity Assumed	96.344	66	1.460	
		Greenhouse- Geisser	96.344	50.103	1.923	
		Huynh-Feldt	96.344	58.738	1.640	
		Lower-bound	96.344	22.000	4.379	
	HeartRateVariabili ty	Sphericity Assumed	592.481	66	8.977	
		Greenhouse- Geisser	592.481	37.804	15.673	
		Huynh-Feldt	592.481	42.565	13.919	
		Lower-bound	592.481	22.000	26.931	
	LenghtOfSpeak	Sphericity Assumed	3612.936	66	54.741	
		Greenhouse- Geisser	3612.936	54.921	65.784	
		Huynh-Feldt	3612.936	65.327	55.306	
		Lower-bound	3612.936	22.000	164.224	

# Univariate Tests

Source	Measure		Sig.	Partial Eta Squared
Error (SystemRespond* TimeSlot)	SUD	Huynh-Feldt	.024	.133
		Lower-bound	.080	.133
		Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	HeartRate	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	HeartRateVariabili ty	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		
	LenghtOfSpeak	Sphericity Assumed		
		Greenhouse- Geisser		
		Huynh-Feldt		
		Lower-bound		

### Tests of Within-Subjects Contrasts

Source	Measure	SystemRespond	TimeSlot	Type III Sum of Squares	df	Mean Square
SystemRespond	SUD	Linear		19.605	1	19.605
	HeartRate	Linear		29.320	1	29.320
	HeartRateVariability	Linear		952.374	1	952.374
	LenghtOfSpeak	Linear		831.531	1	831.531
SystemRespond * SIAS_LowHi	SUD	Linear		3.105	1	3.105
	HeartRate	Linear		9.745	1	9.745
	HeartRateVariability	Linear		115.048	1	115.048
	LenghtOfSpeak	Linear		475.656	1	475.656
Error (SystemRespond)	SUD	Linear		28.124	22	1.278
	HeartRate	Linear		161.948	22	7.361
	HeartRateVariability	Linear		2828.401	22	128.564
	LenghtOfSpeak	Linear		2017.426	22	91.701
TimeSlot	SUD	Linear		43.335	1	43.335
		Quadratic		3.763	1	3.763
		Cubic		1.223	1	1.223
	HeartRate	Linear		106.803	1	106.803
		Quadratic		18.350	1	18.350
		Cubic		.418	1	.418
	HeartRateVariability	Linear		660.967	1	660.967
		Quadratic		29.234	1	29.234
		Cubic		16.702	1	16.702
	LenghtOfSpeak	Linear		8440.929	1	8440.929
		Quadratic		220.066	1	220.066
		Cubic		180.163	1	180.163
TimeSlot * SIAS_LowHi	SUD	Linear		13.952	1	13.952
		Quadratic		.097	1	.097
		Cubic		4.690	1	4.690
	HeartRate	Linear		22.218	1	22.218
		Quadratic		4.798	1	4.798
		Cubic		.008	1	.008
	HeartRateVariability	Linear		137.838	1	137.838
		Quadratic		17.821	1	17.821
		Cubic		.353	1	.353

**Tests of Within-Subjects Contrasts**

Source	Measure	SystemRespond	TimeSlot	F	Sig.	Partial Eta Squared
SystemRespond	SUD	Linear		15.337	.001	.411
	HeartRate	Linear		3.983	.058	.153
	HeartRateVariability	Linear		7.408	.012	.252
	LenghtOfSpeak	Linear		9.068	.006	.292
SystemRespond * SIAS_LowHi	SUD	Linear		2.429	.133	.099
	HeartRate	Linear		1.324	.262	.057
	HeartRateVariability	Linear		.895	.354	.039
	LenghtOfSpeak	Linear		5.187	.033	.191
Error (SystemRespond)	SUD	Linear				
	HeartRate	Linear				
	HeartRateVariability	Linear				
	LenghtOfSpeak	Linear				
TimeSlot	SUD	Linear		78.801	.000	.782
		Quadratic		11.886	.002	.351
		Cubic		3.233	.086	.128
	HeartRate	Linear		60.801	.000	.734
		Quadratic		16.154	.001	.423
		Cubic		.782	.386	.034
	HeartRateVariability	Linear		44.494	.000	.669
		Quadratic		5.072	.035	.187
		Cubic		4.269	.051	.163
	LenghtOfSpeak	Linear		142.751	.000	.866
		Quadratic		5.160	.033	.190
		Cubic		3.568	.072	.140
TimeSlot * SIAS_LowHi	SUD	Linear		25.370	.000	.536
		Quadratic		.305	.586	.014
		Cubic		12.397	.002	.360
	HeartRate	Linear		12.648	.002	.365
		Quadratic		4.224	.052	.161
		Cubic		.016	.901	.001
	HeartRateVariability	Linear		9.279	.006	.297
		Quadratic		3.092	.093	.123
		Cubic		.090	.767	.004

**Tests of Within-Subjects Contrasts**

Source	Measure	SvstemRespond	TimeSlot	Type III Sum of Squares	df	Mean Square
Error(TimeSlot)	LenghtOfSpeak		Linear	910.900	1	910.900
			Quadratic	1126.291	1	1126.291
			Cubic	676.288	1	676.288
	SUD		Linear	12.098	22	.550
			Quadratic	6.966	22	.317
			Cubic	8.323	22	.378
	HeartRate		Linear	38.645	22	1.757
			Quadratic	24.991	22	1.136
			Cubic	11.764	22	.535
	HeartRateVariabili ty		Linear	326.818	22	14.855
			Quadratic	126.807	22	5.764
			Cubic	86.067	22	3.912
	LenghtOfSpeak		Linear	1300.874	22	59.131
			Quadratic	938.347	22	42.652
			Cubic	1110.905	22	50.496
SystemRespond * TimeSlot	SUD	Linear	Linear	17.243	1	17.243
			Quadratic	1.856	1	1.856
			Cubic	.788	1	.788
	HeartRate	Linear	Linear	50.230	1	50.230
			Quadratic	8.820	1	8.820
			Cubic	10.081	1	10.081
	HeartRateVariabili ty	Linear	Linear	432.272	1	432.272
			Quadratic	36.728	1	36.728
			Cubic	1.101	1	1.101
	LenghtOfSpeak	Linear	Linear	2722.920	1	2722.920
			Quadratic	379.649	1	379.649
			Cubic	56.725	1	56.725
SystemRespond * TimeSlot * SIAS_LowHi	SUD	Linear	Linear	.143	1	.143
			Quadratic	.106	1	.106
			Cubic	.388	1	.388
	HeartRate	Linear	Linear	2.316	1	2.316
			Quadratic	.618	1	.618
			Cubic	.122	1	.122
	HeartRateVariabili ty	Linear	Linear	11.567	1	11.567
			Quadratic	1.917	1	1.917
			Cubic	1.453	1	1.453

**Tests of Within-Subjects Contrasts**

Source	Measure	SvstemRespond	TimeSlot	F	Sig.	Partial Eta Squared
Error(TimeSlot)	LenghtOfSpeak		Linear	15.405	.001	.412
			Quadratic	26.406	.000	.546
			Cubic	13.393	.001	.378
	SUD		Linear			
			Quadratic			
			Cubic			
	HeartRate		Linear			
			Quadratic			
			Cubic			
	HeartRateVariabili ty		Linear			
			Quadratic			
			Cubic			
	LenghtOfSpeak		Linear			
			Quadratic			
			Cubic			
SystemRespond * TimeSlot	SUD	Linear	Linear	25.510	.000	.537
			Quadratic	4.770	.040	.178
			Cubic	1.691	.207	.071
	HeartRate	Linear	Linear	23.401	.000	.515
			Quadratic	5.818	.025	.209
			Cubic	14.065	.001	.390
	HeartRateVariabili ty	Linear	Linear	25.029	.000	.532
			Quadratic	9.219	.006	.295
			Cubic	.194	.664	.009
	LenghtOfSpeak	Linear	Linear	53.883	.000	.710
			Quadratic	10.552	.004	.324
			Cubic	.730	.402	.032
SystemRespond * TimeSlot * SIAS_LowHi	SUD	Linear	Linear	.211	.651	.009
			Quadratic	.273	.607	.012
			Cubic	.832	.372	.036
	HeartRate	Linear	Linear	1.079	.310	.047
			Quadratic	.408	.530	.018
			Cubic	.170	.684	.008
	HeartRateVariabili ty	Linear	Linear	.670	.422	.030
			Quadratic	.481	.495	.021
			Cubic	.256	.618	.012

### Tests of Within-Subjects Contrasts

Source	Measure	SvstemRespond	TimeSlot	Type III Sum of Squares	df	Mean Square
Error (SystemRespond* TimeSlot)	LenghtOfSpeak	Linear	Linear	316.135	1	316.135
			Quadratic	1.786	1	1.786
			Cubic	236.223	1	236.223
	SUD	Linear	Linear	14.870	22	.676
			Quadratic	8.561	22	.389
			Cubic	10.246	22	.466
	HeartRate	Linear	Linear	47.223	22	2.146
			Quadratic	33.353	22	1.516
			Cubic	15.768	22	.717
	HeartRateVariability	Linear	Linear	379.959	22	17.271
			Quadratic	87.644	22	3.984
			Cubic	124.877	22	5.676
	LenghtOfSpeak	Linear	Linear	1111.746	22	50.534
			Quadratic	791.552	22	35.980
			Cubic	1709.638	22	77.711

### Tests of Within-Subjects Contrasts

Source	Measure	SvstemRespond	TimeSlot	F	Sig.	Partial Eta Squared
Error (SystemRespond* TimeSlot)	LenghtOfSpeak	Linear	Linear	6.256	.020	.221
			Quadratic	.050	.826	.002
			Cubic	3.040	.095	.121
	SUD	Linear	Linear			
			Quadratic			
			Cubic			
	HeartRate	Linear	Linear			
			Quadratic			
			Cubic			
	HeartRateVariability	Linear	Linear			
			Quadratic			
			Cubic			
	LenghtOfSpeak	Linear	Linear			
			Quadratic			
			Cubic			



### Tests of Between-Subjects Effects

Transformed Variable: Average

Source	Measure	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	SUD	2490.548	1	2490.548	2097.832	.000	.990
	HeartRate	1032361	1	1032361	47392,63	.000	1.000
	HeartRateVariability	305757,0	1	305757,0	7024.397	.000	.997
	LenghtOfSpeak	582690,2	1	582690,2	13576,39	.000	.998
SIAS_LowHi	SUD	40.548	1	40.548	34.154	.000	.608
	HeartRate	607.331	1	607.331	27.881	.000	.559
	HeartRateVariability	2180.638	1	2180.638	50.098	.000	.695
	LenghtOfSpeak	6.431	1	6.431	.150	.702	.007
Error	SUD	26.118	22	1.187			
	HeartRate	479.229	22	21.783			
	HeartRateVariability	957.613	22	43.528			
	LenghtOfSpeak	944.226	22	42.919			