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PUBLICATIONS

Abstracts:

1. Circadian Rhythm In Obstructive Sleep Apnoea: Are There Other Causes For Daytime Somnolence. Joffe, D. Kennaway, D. Robinson, B. Berend, N.(Abstract publication) March 1995 ***Proceedings of Australasian Thoracic Society Annual Scientific Meeting*** Hobart.

2. Circadian Rhythm In Obstructive Sleep Apnoea. Joffe, D. Kennaway, D. Robinson, B. Berend, N. (Abstract) ***Journal of Respiratory and Critical Care Medicine*** 1996. April.Vol. 153(4) pA351.

3. The role of hypoxia and arousal in the genesis of daytime somnolence and cognitive impairment. Joffe, D. Marshall, G. Herkes, G. Berend, N. (Abstract) 148 March 1997 ***Proceedings of Australasian Thoracic Society Annual Scientific Meeting***. P 214.

4. Effect of hypoxia on cognitive function in obstructive sleep apnoea (OSA). Joffe, D. Marshall, G. Herkes, G. Berend, N. (Abstract). ***Journal of Respiratory and Critical Care Medicine*** 1997 April.Vol. 155(4) pA848.

APPPENDIX 1

Simple linear correlations

The following appendix includes all linear regression analyses performed between each cognitive test outcome and all variables of sleep disordered breathing. The clinically important outcomes are discussed in detail within the body of the thesis. See Chapter 3.4.

1. NREM RDI versus cognitive test battery

Regression Coefficients
RDI NREM vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	12.235	2.725	12.235	4.490	<.0001
Digitspan forward	.996	2.887	.047	.345	.7316

Regression Coefficients
RDI NREM vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	11.583	2.687	11.583	4.311	<.0001
Trails A	1.712	2.596	.091	.659	.5125

Regression Coefficients
RDI NREM vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	12.305	2.775	12.305	4.434	<.0001
Trails B	1.078	3.677	.041	.293	.7706

Regression Coefficients
RDI NREM vs. Symbol digit

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	11.769	2.562	11.769	4.594	<.0001
Symbol digit	-4.989	2.721	-.244	-1.833	.0724

Regression Coefficients
RDI NREM vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	13.030	2.740	13.030	4.756	<.0001
COWA	1.328	2.203	.083	.603	.5492

Regression Coefficients
RDI NREM vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	12.521	2.638	12.521	4.746	<.0001
Reye complex	-.060	2.035	-.004	-.030	.9765

Regression Coefficients
RDI NREM vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	22.803	7.508	22.803	3.037	.0037
Serial digit percentiles	-.142	.098	-.196	-1.458	.1506

Regression Coefficients
RDI NREM vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	22.644	9.616	22.644	2.355	.0224
Block design percentiles	-.139	.125	-.154	-1.113	.2707

Regression Coefficients
RDI NREM vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	31.057	12.352	31.057	2.514	.0151
BVR (correct)	-2.606	1.719	-.208	-1.516	.1357

Regression Coefficients
RDI NREM vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	14.700	18.389	14.700	.799	.4277
Shipley Vt score	-.037	.310	-.017	-.120	.9047

Regression Coefficients
RDI NREM vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	24.694	18.690	24.694	1.321	.1921
Shipley At score	-.203	.308	-.090	-.658	.5132

Regression Coefficients
RDI NREM vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	35.213	24.729	35.213	1.424	.1603
Shipley IQ	-.199	.216	-.126	-.923	.3601

Regression Coefficients
RDI NREM vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	11.078	4.250	11.078	2.606	.0119
Beck Depression	.207	.486	.058	.426	.6717

Regression Coefficients
RDI NREM vs. Epworth SS

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	4.991	6.038	4.991	.827	.4122
Epworth SS	.814	.592	.186	1.375	.1748

Regression Coefficients
RDI NREM vs. Digitspan reverse

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	12.865	2.630	12.865	4.892	<.0001
Digitspan reverse	-2.121	2.621	-.110	-.809	.4222

Regression Coefficients
RDI NREM vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	11.880	3.064	11.880	3.877	.0003
Perdue Dom (Norm)	.934	2.396	.053	.390	.6983

Regression Coefficients
RDI NREM vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	12.584	2.968	12.584	4.240	<.0001
Perdue Non-Dom (norm)	-.128	2.428	-.007	-.053	.9582

Regression Coefficients
RDI NREM vs. Z scores for S.C.

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	14.541	3.244	14.541	4.483	<.0001
Z scores for S.C.	-.209	.202	-.141	-1.036	.3051

2. REM RDI versus cognitive test battery

Regression Coefficients
RDI REM vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	21.997	3.386	21.997	6.496	<.0001
Digitspan forward	3.097	3.588	.118	.863	.3919

Regression Coefficients
RDI REM vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	21.951	3.403	21.951	6.450	<.0001
Trails A	3.015	3.288	.126	.917	.3635

Regression Coefficients
RDI REM vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	23.742	3.508	23.742	6.769	<.0001
Trails B	3.917	4.648	.116	.843	.4032

Regression Coefficients
RDI REM vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	30.057	9.513	30.057	3.160	.0026
Serial digit percentiles	-.100	.124	-.110	-.806	.4240

Regression Coefficients
RDI REM vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	38.593	11.791	38.593	3.273	.0019
Block design percentiles	-.219	.153	-.197	-1.432	.1582

Regression Coefficients
RDI REM vs. Logical MP 1

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.621	10.111	28.621	2.831	.0065
Logical MP 1	-.080	.133	-.083	-.603	.5493

Regression Coefficients
RDI REM vs. Logical MP 2

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	25.082	9.713	25.082	2.582	.0126
Logical MP 2	-.031	.128	-.033	-.244	.8083

Regression Coefficients
RDI REM vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	41.392	15.517	41.392	2.667	.0102
BVR (correct)	-2.563	2.160	-.164	-1.187	.2409

Regression Coefficients
RDI REM vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	36.602	22.910	36.602	1.598	.1161
Shipley Vt score	-.234	.386	-.083	-.606	.5469

Regression Coefficients
RDI REM vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	31.829	23.425	31.829	1.359	.1800
Shipley At score	-.150	.387	-.053	-.387	.7003

Regression Coefficients
RDI REM vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	70.877	30.445	70.877	2.328	.0238
Shipley IQ	-.421	.265	-.213	-1.586	.1186

Regression Coefficients
RDI REM vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	21.602	5.317	21.602	4.063	.0002
Beck Depression	.181	.608	.041	.297	.7675

Regression Coefficients
RDI REM vs. Epworth SS

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	13.619	7.552	13.619	1.803	.0770
Epworth SS	1.000	.740	.182	1.350	.1827

Regression Coefficients
RDI REM vs. PASAT

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	22.428	3.384	22.428	6.627	<.0001
PASAT	-5.213	3.257	-.221	-1.601	.1157

Regression Coefficients
RDI REM vs. Digitspan reverse

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	22.931	3.307	22.931	6.934	<.0001
Digitspan reverse	-.476	3.296	-.020	-.144	.8857

Regression Coefficients
RDI REM vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	24.596	3.809	24.596	6.457	<.0001
Perdue Dom (Norm)	-2.591	2.978	-.119	-.870	.3883

Regression Coefficients
RDI REM vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	21.491	3.689	21.491	5.826	<.0001
Perdue Non-Dom (norm)	2.333	3.018	.106	.773	.4429

Regression Coefficients
RDI REM vs. Z scores for S.C.

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	25.811	4.040	25.811	6.389	<.0001
Z scores for S.C.	-.304	.251	-.164	-1.211	.2312

Regression Coefficients
RDI REM vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	23.520	3.424	23.520	6.870	<.0001
COWA	1.707	2.753	.085	.620	.5379

Regression Coefficients
RDI REM vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	23.371	3.262	23.371	7.164	<.0001
Reye complex	-2.707	2.517	-.146	-1.076	.2870

3. Log desat% < 90 versus cognitive test battery

Regression Coefficients
Log Desat <90% vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.966	.172	-.966	-5.627	<.0001
Digitspan forward	.001	.179	.001	.004	.9968

Regression Coefficients
Log Desat <90% vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.996	.168	-.996	-5.929	<.0001
Trails A	.055	.205	.042	.269	.7894

Regression Coefficients
Log Desat <90% vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.033	.173	-1.033	-5.973	<.0001
Trails B	-.178	.217	-.128	-.817	.4187

Regression Coefficients
Log Desat <90% vs. Symbol digit

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.001	.162	-1.001	-6.196	<.0001
Symbol digit	-.212	.163	-.199	-1.301	.2006

Regression Coefficients
Log Desat <90% vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.925	.169	-.925	-5.477	<.0001
COWA	.107	.134	.124	.800	.4282

Regression Coefficients
Log Desat <90% vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.963	.163	-.963	-5.890	<.0001
Reye complex	-.017	.113	-.023	-.149	.8819

Regression Coefficients
Log Desat <90% vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.182	.445	-.182	-.408	.6851
Serial digit percentiles	-.011	.006	-.281	-1.877	.0676

Regression Coefficients
Log Desat <90% vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.094	.572	-.094	-.164	.8702
Block design percentiles	-.012	.007	-.244	-1.574	.1237

Regression Coefficients
Log Desat <90% vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	.256	.780	.256	.329	.7443
BVR (correct)	-.169	.109	-.242	-1.555	.1281

Regression Coefficients
Log Desat <90% vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-.232	1.051	-.232	-.221	.8260
Shipley Vt score	-.013	.018	-.110	-.706	.4843

Regression Coefficients
Log Desat <90% vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	.248	1.107	.248	.224	.8241
Shipley At score	-.020	.018	-.170	-1.108	.2744

Regression Coefficients
Log Desat <90% vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	1.446	1.407	1.446	1.028	.3102
Shipley IQ	-.021	.012	-.260	-1.724	.0922

Regression Coefficients
Log Desat <90% vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.114	.266	-1.114	-4.187	.0001
Beck Depression	.026	.037	.109	.703	.4859

Regression Coefficients
Log Desat <90% vs. Epworth SS

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.215	.406	-1.215	-2.992	.0047
Epworth SS	.027	.040	.104	.670	.5065

Regression Coefficients
Log Desat <90% vs. PASAT

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.000	.173	-1.000	-5.775	<.0001
PASAT	-.194	.163	-.190	-1.190	.2414

Regression Coefficients
Log Desat <90% vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.015	.190	-1.015	-5.348	<.0001
Perdue Dom (Norm)	.091	.181	.078	.503	.6174

Regression Coefficients
Log Desat <90% vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	-1.023	.183	-1.023	-5.596	<.0001
Perdue Non-Dom (norm)	.113	.168	.104	.671	.5058

4. Total RDI versus cognitive test battery

Regression Coefficients
RDI total vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	13.711	2.716	13.711	5.048	<.0001
Digitspan forward	1.234	2.878	.059	.429	.6697

Regression Coefficients
RDI total vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	13.218	2.697	13.218	4.900	<.0001
Trails A	1.741	2.606	.092	.668	.5071

Regression Coefficients
RDI total vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	14.134	2.782	14.134	5.080	<.0001
Trails B	1.806	3.687	.068	.490	.6263

Regression Coefficients
RDI total vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	14.581	2.732	14.581	5.337	<.0001
COWA	1.352	2.197	.084	.615	.5410

Regression Coefficients
RDI total vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	14.184	2.628	14.184	5.397	<.0001
Reye complex	-.691	2.028	-.047	-.341	.7346

Regression Coefficients
RDI total vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	24.366	7.486	24.366	3.255	.0020
Serial digit percentiles	-.143	.097	-.197	-1.466	.1486

Regression Coefficients
RDI total vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	25.873	9.561	25.873	2.706	.0092
Block design percentiles	-.161	.124	-.179	-1.300	.1993

Regression Coefficients
RDI total vs. Logical MP 1

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.486	7.819	28.486	3.643	.0006
Logical MP 1	-.201	.103	-.259	-1.950	.0565

Regression Coefficients
RDI total vs. Logical MP 2

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.638	7.456	28.638	3.841	.0003
Logical MP 2	-.204	.098	-.274	-2.077	.0427

Regression Coefficients
RDI total vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	33.012	12.300	33.012	2.684	.0098
BVR (correct)	-2.658	1.712	-.212	-1.553	.1266

Regression Coefficients
RDI total vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	19.684	18.326	19.684	1.074	.2876
Shipley Vt score	-.096	.309	-.043	-.311	.7574

Regression Coefficients
RDI total vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	25.357	18.650	25.357	1.360	.1797
Shipley At score	-.188	.308	-.084	-.612	.5430

Regression Coefficients
RDI total vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	41.495	24.570	41.495	1.689	.0971
Shipley IQ	-.241	.214	-.152	-1.123	.2664

Regression Coefficients
RDI total vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	12.689	4.239	12.689	2.993	.0042
Beck Depression	.197	.485	.056	.407	.6860

Regression Coefficients
RDI total vs. Epworth SS

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	6.456	6.019	6.456	1.073	.2883
Epworth SS	.822	.590	.188	1.394	.1692

Regression Coefficients
RDI total vs. Digitspan reverse

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	14.387	2.625	14.387	5.482	<.0001
Digitspan reverse	-2.003	2.616	-.105	-.766	.4473

Regression Coefficients
RDI total vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	13.799	3.060	13.799	4.509	<.0001
Perdue Dom (Norm)	.375	2.392	.022	.157	.8761

Regression Coefficients
RDI total vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	13.765	2.959	13.765	4.652	<.0001
Perdue Non-Dom (norm)	.491	2.420	.028	.203	.8401

Regression Coefficients
RDI total vs. Z scores for S.C.

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	16.268	3.228	16.268	5.039	<.0001
Z scores for S.C.	-.228	.201	-.154	-1.135	.2614

5. Arousal index versus cognitive test battery

Regression Coefficients
Arousal Index vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	29.287	2.067	29.287	14.169	<.0001
Digitspan forward	.121	2.190	.008	.055	.9563

Regression Coefficients
Arousal Index vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.925	2.017	28.925	14.340	<.0001
Trails A	-.325	1.949	-.023	-.167	.8681

Regression Coefficients
Arousal Index vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.918	2.077	28.918	13.924	<.0001
Trails B	.301	2.752	.015	.110	.9132

Regression Coefficients
Arousal Index vs. Symbol digit

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	29.101	1.993	29.101	14.603	<.0001
Symbol digit	-1.476	2.117	-.095	-.697	.4886

Regression Coefficients
Arousal Index vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	30.689	1.996	30.689	15.377	<.0001
COWA	3.493	1.605	.286	2.176	.0340

Regression Coefficients
Arousal Index vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	29.144	1.992	29.144	14.628	<.0001
Reye complex	.915	1.537	.081	.595	.5544

Regression Coefficients
Arousal Index vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	38.408	5.648	38.408	6.800	<.0001
Serial digit percentiles	-.126	.073	-.229	-1.711	.0928

Regression Coefficients
Arousal Index vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	32.325	7.248	32.325	4.460	<.0001
Block design percentiles	-.048	.094	-.071	-.510	.6121

Regression Coefficients
Arousal Index vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	37.978	9.431	37.978	4.027	.0002
BVR (correct)	-1.180	1.313	-.125	-.899	.3729

Regression Coefficients
Arousal Index vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	19.147	13.865	19.147	1.381	.1731
Shipley Vt score	.173	.234	.101	.741	.4618

Regression Coefficients
Arousal Index vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	35.159	14.197	35.159	2.476	.0165
Shipley At score	-.097	.234	-.057	-.415	.6796

Regression Coefficients
Arousal Index vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.373	18.888	28.373	1.502	.1390
Shipley IQ	.008	.165	.007	.050	.9600

Regression Coefficients
Arousal Index vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	31.675	3.200	31.675	9.898	<.0001
Beck Depression	-.341	.366	-.127	-.931	.3559

Regression Coefficients
Arousal Index vs. PASAT

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.551	1.985	28.551	14.385	<.0001
PASAT	-2.994	1.910	-.216	-1.568	.1233

Regression Coefficients
Arousal Index vs. Digitspan reverse

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	29.680	1.983	29.680	14.966	<.0001
Digitspan reverse	-2.147	1.977	-.148	-1.086	.2824

Regression Coefficients
Arousal Index vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	29.114	2.325	29.114	12.523	<.0001
Perdue Dom (Norm)	.306	1.818	.023	.169	.8668

Regression Coefficients
Arousal Index vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	28.875	2.245	28.875	12.861	<.0001
Perdue Non-Dom (norm)	.764	1.837	.057	.416	.6791

Regression Coefficients
Arousal Index vs. Z scores for S.C.

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	29.042	2.482	29.042	11.702	<.0001
Z scores for S.C.	.029	.154	.025	.185	.8539

6. Minimum saturation in NREM versus cognitive test battery

Regression Coefficients
Min desat% NREM vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.352	.757	86.352	114.098	<.0001
Digitspan forward	-.616	.802	-.105	-.769	.4455

Regression Coefficients
Min desat% NREM vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.449	.727	86.449	118.857	<.0001
Trails A	-.158	.703	-.031	-.225	.8225

Regression Coefficients
Min desat% NREM vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.440	.749	86.440	115.407	<.0001
Trails B	.127	.992	.018	.128	.8990

Regression Coefficients
Min desat% NREM vs. Symbol digit

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.332	.725	86.332	119.034	<.0001
Symbol digit	1.014	.770	.178	1.317	.1936

Regression Coefficients
Min desat% NREM vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.097	.766	86.097	112.394	<.0001
COWA	-.216	.616	-.048	-.350	.7278

Regression Coefficients
Min desat% NREM vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.100	.732	86.100	117.613	<.0001
Reye complex	.426	.565	.103	.754	.4543

Regression Coefficients
Min desat% NREM vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.825	2.108	83.825	39.762	<.0001
Serial digit percentiles	.033	.027	.161	1.189	.2398

Regression Coefficients
Min desat% NREM vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.012	2.707	83.012	30.660	<.0001
Block design percentiles	.043	.035	.170	1.235	.2226

Regression Coefficients
Min desat% NREM vs. Logical MP 1

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	82.784	2.210	82.784	37.459	<.0001
Logical MP 1	.047	.029	.218	1.624	.1103

Regression Coefficients
Min desat% NREM vs. Logical MP 2

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.067	2.121	83.067	39.167	<.0001
Logical MP 2	.044	.028	.209	1.559	.1249

Regression Coefficients
Min desat% NREM vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	80.949	3.432	80.949	23.584	<.0001
BVR (correct)	.728	.478	.209	1.523	.1339

Regression Coefficients
Min desat% NREM vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.705	5.120	83.705	16.350	<.0001
Shipley Vt score	.042	.086	.067	.489	.6271

Regression Coefficients
Min desat% NREM vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	81.969	5.203	81.969	15.755	<.0001
Shipley At score	.070	.086	.112	.818	.4172

Regression Coefficients
Min desat% NREM vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	75.618	6.800	75.618	11.121	<.0001
Shipley IQ	.093	.059	.210	1.562	.1242

Regression Coefficients
Min desat% NREM vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.038	1.188	86.038	72.452	<.0001
Beck Depression	.021	.136	.021	.153	.8786

Regression Coefficients
Min desat% NREM vs. Digitspan reverse

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	85.970	.717	85.970	119.836	<.0001
Digitspan reverse	1.263	.715	.236	1.767	.0830

Regression Coefficients
Min desat% NREM vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	86.128	.856	86.128	100.610	<.0001
Perdue Dom (Norm)	.080	.669	.017	.120	.9048

Regression Coefficients
Min desat% NREM vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	85.995	.826	85.995	104.082	<.0001
Perdue Non-Dom (norm)	.321	.676	.065	.475	.6367

Regression Coefficients
Min desat% NREM vs. Z scores for S.C.

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	85.526	.902	85.526	94.837	<.0001
Z scores for S.C.	.067	.056	.163	1.202	.2349

6. Minimum saturation in REM versus cognitive test battery

Regression Coefficients
Min desat% REM vs. Digitspan forward

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.505	.973	84.505	86.888	<.0001
Digitspan forward	-.434	1.027	-.059	-.423	.6740

Regression Coefficients
Min desat% REM vs. Trails A

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.523	.983	84.523	85.957	<.0001
Trails A	-.186	.944	-.028	-.197	.8448

Regression Coefficients
Min desat% REM vs. Trails B

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.351	1.006	84.351	83.878	<.0001
Trails B	-.476	1.323	-.050	-.359	.7207

Regression Coefficients
Min desat% REM vs. COWA

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.143	.981	84.143	85.784	<.0001
COWA	-.612	.782	-.108	-.783	.4372

Regression Coefficients
Min desat% REM vs. Reye complex

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.327	.942	84.327	89.474	<.0001
Reye complex	.331	.721	.063	.459	.6484

Regression Coefficients
Min desat% REM vs. Serial digit percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	81.689	2.693	81.689	30.337	<.0001
Serial digit percentiles	.038	.035	.146	1.068	.2906

Regression Coefficients
Min desat% REM vs. Block design percentiles

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	78.767	3.404	78.767	23.139	<.0001
Block design percentiles	.076	.044	.237	1.723	.0910

Regression Coefficients
Min desat% REM vs. Logical MP 1

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	81.880	2.868	81.880	28.549	<.0001
Logical MP 1	.035	.038	.127	.924	.3596

Regression Coefficients
Min desat% REM vs. Logical MP 2

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	82.471	2.757	82.471	29.908	<.0001
Logical MP 2	.027	.036	.102	.739	.4635

Regression Coefficients
Min desat% REM vs. BVR (correct)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	77.233	4.378	77.233	17.643	<.0001
BVR (correct)	1.013	.609	.229	1.664	.1023

Regression Coefficients
Min desat% REM vs. Shipley Vt score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	77.608	6.463	77.608	12.009	<.0001
Shipley Vt score	.116	.109	.145	1.060	.2940

Regression Coefficients
Min desat% REM vs. Shipley At score

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	81.522	6.672	81.522	12.218	<.0001
Shipley At score	.048	.110	.060	.434	.6661

Regression Coefficients
Min desat% REM vs. Shipley IQ

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	74.393	8.740	74.393	8.512	<.0001
Shipley IQ	.088	.076	.158	1.150	.2553

Regression Coefficients
Min desat% REM vs. Beck Depression

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.897	1.509	83.897	55.604	<.0001
Beck Depression	.072	.174	.057	.415	.6797

Regression Coefficients
Min desat% REM vs. Epworth SS

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	85.825	2.232	85.825	38.448	<.0001
Epworth SS	-.154	.217	-.098	-.708	.4823

Regression Coefficients
Min desat% REM vs. Digitspan reverse

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.203	.935	84.203	90.026	<.0001
Digitspan reverse	1.098	.924	.163	1.188	.2402

Regression Coefficients
Min desat% REM vs. Perdue Dom (Norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.992	1.093	83.992	76.826	<.0001
Perdue Dom (Norm)	.585	.848	.095	.690	.4930

Regression Coefficients
Min desat% REM vs. Perdue Non-Dom (norm)

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	84.715	1.056	84.715	80.240	<.0001
Perdue Non-Dom (norm)	-.562	.858	-.090	-.654	.5158

Regression Coefficients
Min desat% REM vs. Z scores for S.C.

	Coefficient	Std. Error	Std. Coeff.	t-Value	P-Value
Intercept	83.250	1.146	83.250	72.663	<.0001
Z scores for S.C.	.116	.071	.222	1.640	.1070

APPPENDIX 2

Stepwise regression analyses

The following appendix includes all stepwise regression analyses performed between cognitive test outcomes and all variables of sleep disordered breathing. The clinically important outcomes are discussed in detail within the body of the thesis. See Chapter 3.8.

1. Digitspan forward versus variables of sleep disordered breathing.

Stepwise Regression Summary
Digitspan forward vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Digitspan forward vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.309	.140	.309	4.852

Variables Not In Model
Digitspan forward vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.026	.028
RDI REM	.109	.489
Arousal Index	-.002	9.673E-5
Min desat% NREM	-.097	.393
Min desat% REM	-.025	.026
RDI total	.037	.055
Log Desat <90%	.001	1.678E-5

2. Trails A versus variables of sleep disordered breathing.

Stepwise Regression Summary
Trails A vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Trails A vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.160	.125	.160	1.622

Variables Not In Model
Trails A vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.233	2.289
RDI REM	.324	4.706
Arousal Index	.183	1.378
Min desat% NREM	-.248	2.614
Min desat% REM	-.282	3.465
RDI total	.246	2.584
Log Desat <90%	.042	.072

Variables In Model
Trails A vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.144	.185	-.144	.611
RDI REM	.011	.005	.324	4.706

Variables Not In Model
Trails A vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	-.024	.023
Arousal Index	-.009	.003
Min desat% NREM	-.071	.196
Min desat% REM	-.087	.299
RDI total	-.052	.105
Log Desat <90%	-.235	2.278

3. Trails B versus variables of sleep disordered breathing.

Stepwise Regression Summary
Trails B vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Trails B vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.260	.117	-.260	4.886

Variables Not In Model
Trails B vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.050	.102
RDI REM	.146	.870
Arousal Index	.064	.164
Min desat% NREM	.016	.011
Min desat% REM	-.080	.259
RDI total	.083	.279
Log Desat <90%	-.128	.668

4. Symbol digit versus variables of sleep disordered breathing.

Stepwise Regression Summary
Symbol digit vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Symbol digit vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.170	.151	-.170	1.270

Variables Not In Model
Symbol digit vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.262	3.015
RDI REM	-.436	9.636
Arousal Index	-.139	.813
Min desat% NREM	.184	1.436
Min desat% REM	.348	5.648
RDI total	-.316	4.563
Log Desat <90%	-.199	1.692

Variables In Model
Symbol digit vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.334	.213	.334	2.463
RDI REM	-.018	.006	-.436	9.636

Variables Not In Model
Symbol digit vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	.112	.511
Arousal Index	.144	.848
Min desat% NREM	-.085	.290
Min desat% REM	.076	.229
RDI total	.096	.372
Log Desat <90%	.120	.585

5. COWA versus variables of sleep disordered breathing.

Stepwise Regression Summary
COWA vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
COWA vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.376	.186	-.376	4.097

Variables Not In Model
COWA vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.075	.235
RDI REM	.085	.300
Arousal Index	.251	2.755
Min desat% NREM	-.002	2.334E-4
Min desat% REM	-.099	.403
RDI total	.076	.241
Log Desat <90%	.124	.640

6. RCFT versus variables of sleep disordered breathing.

Stepwise Regression Summary
Reye complex vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Reye complex vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.160	.221	.160	.520

Variables Not In Model
Reye complex vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.011	.005
RDI REM	-.135	.758
Arousal Index	.109	.495
Min desat% NREM	.074	.226
Min desat% REM	.036	.053
RDI total	-.031	.041
Log Desat <90%	-.023	.022

7. Serial digit percentile versus variables of sleep disordered breathing.

Stepwise Regression Summary
Serial digit percentiles vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Serial digit percentiles vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	70.372	4.057	70.372	300.912

Variables Not In Model
Serial digit percentiles vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.175	1.294
RDI REM	-.072	.213
Arousal Index	-.240	2.495
Min desat% NREM	.086	.303
Min desat% REM	.097	.387
RDI total	-.174	1.285
Log Desat <90%	-.281	3.524

8. Block design versus variables of sleep disordered breathing.

Stepwise Regression Summary
Block design percentiles vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Block design percentiles vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	73.707	3.513	73.707	440.281

Variables Not In Model
Block design percentiles vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.155	.958
RDI REM	-.221	1.999
Arousal Index	-.162	1.054
Min desat% NREM	.191	1.473
Min desat% REM	.324	4.583
RDI total	-.188	1.434
Log Desat <90%	-.244	2.476

Variables In Model
Block design percentiles vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-18.825	43.352	-18.825	.189
Min desat% REM	1.122	.524	.324	4.583

Variables Not In Model
Block design percentiles vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	.075	.217
RDI REM	.013	.006
Arousal Index	-.022	.019
Min desat% NREM	.010	.004
RDI total	.050	.096
Log Desat <90%	.005	.001

9. LM1 versus variables of sleep disordered breathing.

Stepwise Regression Summary
Logical MP 1 vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Logical MP 1 vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	73.558	3.646	73.558	406.983

Variables Not In Model
Logical MP 1 vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.383	7.063
RDI REM	-.179	1.359
Arousal Index	-.373	6.626
Min desat% NREM	.318	4.628
Min desat% REM	.227	2.221
RDI total	-.365	6.310
Log Desat <90%	-.307	4.261

Variables In Model
Logical MP 1 vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	80.458	4.285	80.458	352.619
RDI NREM	-.443	.167	-.383	7.063

Variables Not In Model
Logical MP 1 vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI REM	.180	1.336
Arousal Index	-.110	.488
Min desat% NREM	.038	.059
Min desat% REM	-.023	.022
RDI total	.099	.396
Log Desat <90%	-.027	.030

10. LMII versus variables of sleep disordered breathing.

Stepwise Regression Summary
Logical MP 2 vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	2
Variables Entered	2
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Logical MP 2 vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	74.047	3.750	74.047	389.878

Variables Not In Model
Logical MP 2 vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.457	10.816
RDI REM	-.141	.831
Arousal Index	-.439	9.772
Min desat% NREM	.380	6.914
Min desat% REM	.245	2.624
RDI total	-.417	8.625
Log Desat <90%	-.375	6.693

Variables In Model
Logical MP 2 vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	82.504	4.244	82.504	377.908
RDI NREM	-.543	.165	-.457	10.816

Variables Not In Model
Logical MP 2 vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI REM	.346	5.452
Arousal Index	-.124	.627
Min desat% NREM	.048	.093
Min desat% REM	-.065	.171
RDI total	.260	2.895
Log Desat <90%	-.049	.096

Variables In Model
Logical MP 2 vs. 7 Independents
Step: 2

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	75.595	5.000	75.595	228.553
RDI NREM	-.962	.238	-.809	16.302
RDI REM	.473	.203	.468	5.452

Variables Not In Model
Logical MP 2 vs. 7 Independents
Step: 2

	Partial Cor.	F-to-Enter
Arousal Index	-.080	.251
Min desat% NREM	.038	.058
Min desat% REM	.088	.301
RDI total	-.148	.869
Log Desat <90%	-.119	.559

11. BVRT versus variables of sleep disordered breathing.

Stepwise Regression Summary
BVR (correct) vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
BVR (correct) vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	7.000	.237	7.000	873.478

Variables Not In Model
BVR (correct) vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.225	2.086
RDI REM	-.206	1.726
Arousal Index	-.151	.914
Min desat% NREM	.238	2.348
Min desat% REM	.309	4.103
RDI total	-.238	2.339
Log Desat <90%	-.242	2.418

Variables In Model
BVR (correct) vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	1.037	2.953	1.037	.123
Min desat% REM	.072	.036	.309	4.103

Variables Not In Model
BVR (correct) vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	-.042	.067
RDI REM	.006	.002
Arousal Index	-.030	.034
Min desat% NREM	.083	.265
RDI total	-.043	.071
Log Desat <90%	-.012	.006

12. Shipley IQ versus variables of sleep disordered breathing.

Stepwise Regression Summary
Shipley IQ vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Shipley IQ vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	114.395	1.981	114.395	3336.098

Variables Not In Model
Shipley IQ vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.154	.997
RDI REM	-.271	3.244
Arousal Index	-.084	.294
Min desat% NREM	.291	3.804
Min desat% REM	.233	2.357
RDI total	-.188	1.505
Log Desat <90%	-.260	2.974

13. BDI versus variables of sleep disordered breathing.

Stepwise Regression Summary
Beck Depression vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Beck Depression vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	5.791	.682	5.791	71.999

Variables Not In Model
Beck Depression vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.242	2.548
RDI REM	.304	4.163
Arousal Index	.087	.311
Min desat% NREM	-.294	3.871
Min desat% REM	-.251	2.767
RDI total	.264	3.064
Log Desat <90%	.109	.495

Variables In Model
Beck Depression vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	4.205	1.018	4.205	17.050
RDI REM	.056	.027	.304	4.163

Variables Not In Model
Beck Depression vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	.021	.018
Arousal Index	-.108	.471
Min desat% NREM	-.155	.986
Min desat% REM	-.063	.159
RDI total	.020	.016
Log Desat <90%	-.119	.577

14. ESS versus variables of sleep disordered breathing.

Stepwise Regression Summary
Epworth SS vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Epworth SS vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	9.279	.621	9.279	223.209

Variables Not In Model
Epworth SS vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.225	2.192
RDI REM	.237	2.439
Arousal Index	.264	3.078
Min desat% NREM	-.010	.004
Min desat% REM	-.133	.737
RDI total	.228	2.240
Log Desat <90%	.104	.449

15. PASAT versus variables of sleep disordered breathing.

Stepwise Regression Summary
PASAT vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
PASAT vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.268	.165	-.268	2.643

Variables Not In Model
PASAT vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.346	5.154
RDI REM	-.201	1.601
Arousal Index	-.244	2.415
Min desat% NREM	.333	4.749
Min desat% REM	.311	4.069
RDI total	-.330	4.632
Log Desat <90%	-.190	1.416

Variables In Model
PASAT vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.002	.197	.002	1.116E-4
RDI NREM	-.017	.008	-.346	5.154

Variables Not In Model
PASAT vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI REM	.100	.376
Arousal Index	.075	.207
Min desat% NREM	.110	.456
Min desat% REM	.128	.612
RDI total	.090	.301
Log Desat <90%	.111	.459

16. Digitspan reverse versus variables of sleep disordered breathing.

Stepwise Regression Summary
Digitspan reverse vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	2
Variables Entered	2
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Digitspan reverse vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.097	.138	.097	.488

Variables Not In Model
Digitspan reverse vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.087	.310
RDI REM	.068	.189
Arousal Index	-.099	.407
Min desat% NREM	.208	1.854
Min desat% REM	.108	.482
RDI total	-.074	.227
Log Desat <90%	-.302	4.115

Variables In Model
Digitspan reverse vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.155	.182	-.155	.721
Log Desat <90%	-.260	.128	-.302	4.115

Variables Not In Model
Digitspan reverse vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	.228	2.203
RDI REM	.361	5.989
Arousal Index	.125	.634
Min desat% NREM	-.023	.021
Min desat% REM	-.198	1.634
RDI total	.267	3.068

Variables In Model
Digitspan reverse vs. 7 Independents
Step: 2

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	-.874	.341	-.874	6.586
RDI REM	.017	.007	.450	5.989
Log Desat <90%	-.511	.159	-.593	10.372

Variables Not In Model
Digitspan reverse vs. 7 Independents
Step: 2

	Partial Cor.	F-to-Enter
RDI NREM	.048	.089
Arousal Index	.033	.043
Min desat% NREM	.044	.075
Min desat% REM	-.067	.178
RDI total	.025	.025

17. Pegboard (non-dom) versus variables of sleep disordered breathing.

Stepwise Regression Summary
Perdue Non-Dom (norm) vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Perdue Non-Dom (norm) vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.507	.148	.507	11.714

Variables Not In Model
Perdue Non-Dom (norm) vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.031	.038
RDI REM	.256	2.881
Arousal Index	.097	.390
Min desat% NREM	.045	.082
Min desat% REM	-.259	2.955
RDI total	.092	.347
Log Desat <90%	.104	.451

18. Pegboard (dom) versus variables of sleep disordered breathing.

Stepwise Regression Summary
Perdue Dom (Norm) vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	0
Variables Entered	0
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Perdue Dom (Norm) vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	.546	.138	.546	15.682

Variables Not In Model
Perdue Dom (Norm) vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	.166	1.164
RDI REM	-.006	.001
Arousal Index	.156	1.022
Min desat% NREM	-.104	.451
Min desat% REM	-.084	.293
RDI total	.140	.816
Log Desat <90%	.078	.253

19. Z-scores for Steer Clear versus variables of sleep disordered breathing.

Stepwise Regression Summary
Z scores for S.C. vs. 7 Independents

F-to-Enter	4.000
F-to-Remove	3.996
Number of Steps	1
Variables Entered	1
Variables Forced	0
Stepwise Procedure	Forward

Variables In Model
Z scores for S.C. vs. 7 Independents
Step: 0

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	9.507	2.023	9.507	22.087

Variables Not In Model
Z scores for S.C. vs. 7 Independents
Step: 0

	Partial Cor.	F-to-Enter
RDI NREM	-.145	.879
RDI REM	-.179	1.354
Arousal Index	-.018	.013
Min desat% NREM	.227	2.229
Min desat% REM	.277	3.405
RDI total	-.162	1.108
Log Desat <90%	-.318	4.603

Variables In Model
Z scores for S.C. vs. 7 Independents
Step: 1

	Coefficient	Std. Error	Std. Coeff.	F-to-Remove
Intercept	5.642	2.649	5.642	4.538
Log Desat <90%	-4.004	1.866	-.318	4.603

Variables Not In Model
Z scores for S.C. vs. 7 Independents
Step: 1

	Partial Cor.	F-to-Enter
RDI NREM	.155	.982
RDI REM	.036	.053
Arousal Index	.250	2.663
Min desat% NREM	-.011	.005
Min desat% REM	.057	.129
RDI total	.141	.816