

Supplementary Material

CANTAB assessments: Means $\pm$ SD, F-statistic, and p-value, for each variable, by dose group and day of assessments

	Baseline				Dose 1			
	Placebo	5 u	10 u	20 u	Placebo	5 u	10 u	20 u
PAL Total errors (adjusted)	22.25 $\pm$ 12.77	23.17 $\pm$ 14.61	25.42 $\pm$ 16.47	23.08 $\pm$ 16.50	17.50 $\pm$ 14.95	12.17 $\pm$ 6.15	22.27 $\pm$ 14.85	17.58 $\pm$ 11.56
PAL Total attempts 8 patterns	2.58 $\pm$ 1.73	2.17 $\pm$ 1.75	2.17 $\pm$ 1.75	2.17 $\pm$ 1.80	2.08 $\pm$ 1.44	3.17 $\pm$ 0.94	3.00 $\pm$ 1.55	3.25 $\pm$ 1.22
PAL Total attempts 6 patterns	2.83 $\pm$ 0.94	2.92 $\pm$ 1.08	3.00 $\pm$ 1.21	3.00 $\pm$ 1.13	2.58 $\pm$ 1.08	2.17 $\pm$ 0.94	2.27 $\pm$ 1.27	2.25 $\pm$ 0.87
PAL Total attempts 4 patterns	1.25 $\pm$ 0.45	1.50 $\pm$ 0.52	1.50 $\pm$ 0.67	1.67 $\pm$ 0.89	1.17 $\pm$ 0.39	1.67 $\pm$ 0.78	1.82 $\pm$ 0.98	1.83 $\pm$ 0.94
PAL Total attempts 2 patterns	1.17 $\pm$ 0.39	1.08 $\pm$ 0.29	1.17 $\pm$ 0.39	1.08 $\pm$ 0.29	1.00 $\pm$ 0.00	1.00 $\pm$ 0.00	1.09 $\pm$ 0.30	1.08 $\pm$ 0.29
PAL Total errors 8 patterns	9.25 $\pm$ 8.30	6.42 $\pm$ 7.82	7.00 $\pm$ 7.83	5.42 $\pm$ 6.82	5.58 $\pm$ 6.92	8.42 $\pm$ 5.84	9.91 $\pm$ 7.26	10.25 $\pm$ 6.22
PAL Total errors 6 patterns	5.17 $\pm$ 3.88	6.25 $\pm$ 4.67	7.67 $\pm$ 6.02	7.08 $\pm$ 5.11	4.50 $\pm$ 4.81	2.50 $\pm$ 2.20	3.55 $\pm$ 3.39	3.50 $\pm$ 3.87
PAL Total errors 4 patterns	0.58 $\pm$ 1.08	1.08 $\pm$ 1.38	1.17 $\pm$ 2.08	1.17 $\pm$ 1.75	0.42 $\pm$ 1.00	1.25 $\pm$ 1.42	1.73 $\pm$ 2.49	1.33 $\pm$ 1.56
PAL Total errors 2 patterns	0.25 $\pm$ 0.62	0.08 $\pm$ 0.29	0.25 $\pm$ 0.62	0.08 $\pm$ 0.29	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.18 $\pm$ 0.60	0.17 $\pm$ 0.58
PAL Total errors	15.25 $\pm$ 7.91	13.83 $\pm$ 8.42	16.08 $\pm$ 7.23	13.75 $\pm$ 7.53	10.50 $\pm$ 6.35	12.17 $\pm$ 6.15	15.36 $\pm$ 6.93	15.25 $\pm$ 7.71
PAL Total errors 8 shapes adjusted	16.25 $\pm$ 9.38	15.75 $\pm$ 10.98	16.33 $\pm$ 10.43	14.75 $\pm$ 11.23	12.58 $\pm$ 11.09	8.42 $\pm$ 5.84	15.00 $\pm$ 8.37	12.58 $\pm$ 7.20
PAL Total errors 6 shapes adjusted	5.17 $\pm$ 3.88	6.25 $\pm$ 4.67	7.67 $\pm$ 6.02	7.08 $\pm$ 5.11	4.50 $\pm$ 4.81	2.50 $\pm$ 2.20	5.36 $\pm$ 5.80	3.50 $\pm$ 3.87
PAL Total errors 4 shapes adjusted	0.58 $\pm$ 1.08	1.08 $\pm$ 1.38	1.17 $\pm$ 2.08	1.17 $\pm$ 1.75	0.42 $\pm$ 1.00	1.25 $\pm$ 1.42	1.73 $\pm$ 2.49	1.33 $\pm$ 1.56
PAL Total errors 2 shapes adjusted	0.25 $\pm$ 0.62	0.08 $\pm$ 0.29	0.25 $\pm$ 0.62	0.08 $\pm$ 0.29	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.18 $\pm$ 0.60	0.17 $\pm$ 0.58
PAL Total Number of Patterns reached	7.50 $\pm$ 0.90	7.33 $\pm$ 0.98	7.33 $\pm$ 0.98	7.33 $\pm$ 0.98	7.50 $\pm$ 0.90	8.00 $\pm$ 0.00	7.45 $\pm$ 1.29	7.83 $\pm$ 0.58
PAL Mean attempts to success	2.33 $\pm$ 1.87	1.58 $\pm$ 1.38	1.92 $\pm$ 1.51	1.83 $\pm$ 1.27	1.08 $\pm$ 0.90	2.50 $\pm$ 1.17	1.73 $\pm$ 1.19	2.42 $\pm$ 0.79
PAL First attempt memory score	10.58 $\pm$ 3.37	11.33 $\pm$ 3.87	10.00 $\pm$ 4.49	10.67 $\pm$ 4.12	13.08 $\pm$ 3.50	13.08 $\pm$ 2.61	10.27 $\pm$ 4.43	11.58 $\pm$ 3.68
PAL Total attempts	7.83 $\pm$ 1.64	7.67 $\pm$ 1.78	7.83 $\pm$ 1.53	7.92 $\pm$ 1.51	6.83 $\pm$ 1.19	8.00 $\pm$ 1.60	8.18 $\pm$ 1.72	8.42 $\pm$ 1.73
RTI Mean five-choice reaction time (ms)	546.03 $\pm$ 56.84	563.45 $\pm$ 50.93	501.81 $\pm$ 119.90	542.32 $\pm$ 74.48	534.57 $\pm$ 33.60	560.85 $\pm$ 81.82	517.53 $\pm$ 84.29	545.81 $\pm$ 66.59
RTI Five choice error score (all)	2.83 $\pm$ 2.17	3.75 $\pm$ 2.99	4.25 $\pm$ 5.31	3.42 $\pm$ 2.71	2.92 $\pm$ 3.60	5.08 $\pm$ 3.78	3.00 $\pm$ 2.86	3.00 $\pm$ 2.30
RTI Five choice error score (no response)	0.08 $\pm$ 0.29	0.17 $\pm$ 0.39	0.17 $\pm$ 0.58	0.08 $\pm$ 0.29	0.17 $\pm$ 0.39	0.17 $\pm$ 0.39	0.09 $\pm$ 0.30	0.17 $\pm$ 0.39
RTI Five choice error score (premature)	1.75 $\pm$ 1.96	2.17 $\pm$ 2.86	2.42 $\pm$ 4.06	1.83 $\pm$ 1.90	1.58 $\pm$ 2.39	2.83 $\pm$ 4.13	1.73 $\pm$ 2.61	1.33 $\pm$ 1.23
RTI Five choice error score (inaccurate)	0.50 $\pm$ 0.52	0.75 $\pm$ 0.62	0.33 $\pm$ 0.65	1.17 $\pm$ 1.53	0.50 $\pm$ 0.90	1.08 $\pm$ 1.56	0.64 $\pm$ 0.92	1.33 $\pm$ 1.78
RTI Five choice error score (incorrect)	0.08 $\pm$ 0.29	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.09 $\pm$ 0.30	0.00 $\pm$ 0.00
RTI Five choice movement time (SD)	63.42 $\pm$ 51.93	55.32 $\pm$ 20.36	83.43 $\pm$ 70.15	57.98 $\pm$ 37.92	75.52 $\pm$ 63.28	62.00 $\pm$ 28.24	76.05 $\pm$ 48.96	60.40 $\pm$ 38.07
RTI Five choice movement time (ms)	304.42 $\pm$ 91.58	261.54 $\pm$ 63.11	14.67 $\pm$ 103.44	266.88 $\pm$ 74.23	330.38 $\pm$ 116.04	293.96 $\pm$ 52.46	340.27 $\pm$ 141.18	273.71 $\pm$ 89.58
RTI Five choice movement time (ms)	310.71 $\pm$ 85.91	268.33 $\pm$ 57.53	327.17 $\pm$ 111.45	269.67 $\pm$ 71.46	342.67 $\pm$ 128.18	297.38 $\pm$ 56.41	349.75 $\pm$ 147.94	275.95 $\pm$ 86.07
RTI Five choice reaction time (ms)	60.73 $\pm$ 26.68	63.71 $\pm$ 27.35	132.25 $\pm$ 137.81	77.37 $\pm$ 33.08	70.46 $\pm$ 26.74	66.43 $\pm$ 19.97	75.18 $\pm$ 46.15	73.89 $\pm$ 41.82

Supplementary Material

CANTAB assessments: Means $\pm$ SD, F-statistic, and p-value, for each variable, by dose group and day of assessments

	Dose 6				Follow-up				One-way ANOVA	Bonferroni post-hoc
	Placebo	5 u	10 u	20 u	Placebo	5 u	10 u	20 u		
PAL Total errors (adjusted)	18.75 $\pm$ 15.17	16.67 $\pm$ 13.41	24.64 $\pm$ 19.12	24.25 $\pm$ 15.53	20.67 $\pm$ 17.65	15.67 $\pm$ 11.19	27.58 $\pm$ 16.10	13.58 $\pm$ 11.70	F= 1.24, p= 0.23	ns
PAL Total attempts 8 patterns	1.75 $\pm$ 1.60	2.50 $\pm$ 1.57	2.18 $\pm$ 1.83	1.67 $\pm$ 1.83	2.17 $\pm$ 1.59	3.08 $\pm$ 1.38	2.08 $\pm$ 1.93	2.75 $\pm$ 1.29	F= 1.03, p= 0.43	ns
PAL Total attempts 6 patterns	3.08 $\pm$ 0.90	2.42 $\pm$ 1.24	2.36 $\pm$ 1.36	2.75 $\pm$ 1.42	2.67 $\pm$ 0.98	2.50 $\pm$ 1.00	3.00 $\pm$ 1.28	2.42 $\pm$ 1.00	F= 1.08, p= 0.38	ns
PAL Total attempts 4 patterns	1.33 $\pm$ 0.49	1.33 $\pm$ 0.65	1.64 $\pm$ 0.92	1.42 $\pm$ 0.79	2.08 $\pm$ 1.16	1.42 $\pm$ 0.51	1.58 $\pm$ 0.67	1.67 $\pm$ 0.78	F= 1.12, p= 0.34	ns
PAL Total attempts 2 patterns	1.00 $\pm$ 0.00	1.08 $\pm$ 0.29	1.09 $\pm$ 0.30	1.17 $\pm$ 0.39	1.08 $\pm$ 0.29	1.00 $\pm$ 0.00	1.00 $\pm$ 0.00	1.17 $\pm$ 0.39	F= 0.71, p= 0.80	ns
PAL Total errors 8 patterns	3.17 $\pm$ 5.08	6.67 $\pm$ 6.68	5.45 $\pm$ 5.34	3.50 $\pm$ 3.90	6.33 $\pm$ 6.27	9.25 $\pm$ 7.88	6.42 $\pm$ 6.46	5.83 $\pm$ 4.30	F= 1.14, p= 0.31	ns
PAL Total errors 6 patterns	5.67 $\pm$ 3.92	4.67 $\pm$ 4.54	5.09 $\pm$ 5.19	5.58 $\pm$ 4.87	5.25 $\pm$ 5.22	3.33 $\pm$ 3.42	8.25 $\pm$ 7.07	3.92 $\pm$ 4.27	F= 1.49, p= 0.09	ns
PAL Total errors 4 patterns	0.58 $\pm$ 1.16	0.58 $\pm$ 1.24	2.00 $\pm$ 4.40	0.92 $\pm$ 1.68	1.92 $\pm$ 2.50	0.75 $\pm$ 1.06	1.25 $\pm$ 1.36	1.25 $\pm$ 1.60	F= 0.75, p= 0.76	ns
PAL Total errors 2 patterns	0.00 $\pm$ 0.00	0.08 $\pm$ 0.29	0.09 $\pm$ 0.30	0.25 $\pm$ 0.62	0.17 $\pm$ 0.58	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.25 $\pm$ 0.62	F= 0.68, p= 0.84	ns
PAL Total errors	9.42 $\pm$ 5.78	12.00 $\pm$ 7.80	12.64 $\pm$ 4.90	10.25 $\pm$ 3.84	13.67 $\pm$ 8.04	13.33 $\pm$ 7.51	15.92 $\pm$ 7.01	11.25 $\pm$ 7.25	F= 1.51, p= 0.08	ns
PAL Total errors 8 shapes adjusted	12.50 $\pm$ 12.30	11.33 $\pm$ 9.77	15.64 $\pm$ 10.29	17.50 $\pm$ 11.05	13.33 $\pm$ 10.15	11.58 $\pm$ 8.96	18.08 $\pm$ 9.29	8.17 $\pm$ 7.36	F= 1.11, p= 0.35	ns
PAL Total errors 6 shapes adjusted	5.67 $\pm$ 3.92	4.67 $\pm$ 4.54	6.91 $\pm$ 6.55	5.58 $\pm$ 4.87	5.25 $\pm$ 5.22	3.33 $\pm$ 3.42	8.25 $\pm$ 7.07	3.92 $\pm$ 4.27	F= 1.36, p= 0.15	ns
PAL Total errors 4 shapes adjusted	0.58 $\pm$ 1.16	0.58 $\pm$ 1.24	2.00 $\pm$ 4.40	0.92 $\pm$ 1.68	1.92 $\pm$ 2.50	0.75 $\pm$ 1.06	1.25 $\pm$ 1.36	1.25 $\pm$ 1.60	F= 0.75, p= 0.76	ns
PAL Total errors 2 shapes adjusted	0.00 $\pm$ 0.00	0.08 $\pm$ 0.29	0.09 $\pm$ 0.30	0.25 $\pm$ 0.62	0.17 $\pm$ 0.58	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.25 $\pm$ 0.62	F= 0.68, p= 0.84	ns
PAL Total Number of Patterns reached	7.33 $\pm$ 0.98	7.67 $\pm$ 0.78	7.09 $\pm$ 1.38	7.00 $\pm$ 1.04	7.50 $\pm$ 0.90	7.83 $\pm$ 0.58	7.17 $\pm$ 1.03	7.83 $\pm$ 0.58	F= 1.04, p= 0.42	ns
PAL Mean attempts to success	1.00 $\pm$ 1.28	2.00 $\pm$ 1.21	1.45 $\pm$ 1.44	1.33 $\pm$ 1.37	2.17 $\pm$ 1.34	1.75 $\pm$ 1.06	1.83 $\pm$ 1.34	2.50 $\pm$ 1.57	F= 1.40, p= 0.13	ns
PAL First attempt memory score	13.00 $\pm$ 4.29	12.58 $\pm$ 3.42	10.55 $\pm$ 4.48	11.00 $\pm$ 3.86	10.92 $\pm$ 4.68	12.42 $\pm$ 3.00	9.75 $\pm$ 3.39	12.50 $\pm$ 4.19	F= 1.22, p= 0.25	ns
PAL Total attempts	7.17 $\pm$ 1.75	7.33 $\pm$ 1.44	7.27 $\pm$ 1.85	7.00 $\pm$ 1.71	8.00 $\pm$ 1.86	8.00 $\pm$ 1.41	7.67 $\pm$ 2.02	8.00 $\pm$ 1.71	F= 0.82, p= 0.69	ns
RTI Mean five-choice reaction time (ms)	567.41 $\pm$ 58.31	526.08 $\pm$ 68.76	549.48 $\pm$ 58.77	533.40 $\pm$ 46.65	576.39 $\pm$ 62.97	543.04 $\pm$ 47.38	582.15 $\pm$ 79.63	547.14 $\pm$ 79.94	F= 1.24, p= 0.23	ns
RTI Five choice error score (all)	1.42 $\pm$ 1.68	3.25 $\pm$ 6.05	1.82 $\pm$ 1.72	2.83 $\pm$ 2.08	2.42 $\pm$ 2.15	2.67 $\pm$ 2.67	6.00 $\pm$ 8.15	2.42 $\pm$ 2.43	F= 1.08, p= 0.38	ns
RTI Five choice error score (no response)	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.08 $\pm$ 0.29	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	F= 1.01, p= 0.45	ns
RTI Five choice error score (premature)	0.83 $\pm$ 1.27	1.92 $\pm$ 5.71	1.00 $\pm$ 1.55	1.17 $\pm$ 1.53	1.83 $\pm$ 1.85	1.58 $\pm$ 2.43	3.67 $\pm$ 6.07	1.33 $\pm$ 2.23	F= 0.66, p= 0.86	ns
RTI Five choice error score (inaccurate)	0.17 $\pm$ 0.39	0.75 $\pm$ 0.97	0.18 $\pm$ 0.40	1.00 $\pm$ 1.04	0.17 $\pm$ 0.58	0.58 $\pm$ 0.67	0.75 $\pm$ 1.42	0.92 $\pm$ 1.56	F= 1.12, p= 0.34	ns
RTI Five choice error score (incorrect)	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.08 $\pm$ 0.29	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	F= 0.92, p= 0.56	ns
RTI Five choice movement time (SD)	111.15 $\pm$ 169.41	47.46 $\pm$ 17.15	74.11 $\pm$ 44.67	51.56 $\pm$ 24.10	61.79 $\pm$ 24.60	64.86 $\pm$ 27.28	79.57 $\pm$ 63.44	56.80 $\pm$ 31.99	F= 0.80, p= 0.71	ns
RTI Five choice movement time (ms)	308.50 $\pm$ 87.18	291.83 $\pm$ 66.13	328.55 $\pm$ 95.04	285.83 $\pm$ 60.61	314.42 $\pm$ 110.24	290.54 $\pm$ 65.66	360.54 $\pm$ 129.08	274.83 $\pm$ 67.57	F= 1.22, p= 0.25	ns
RTI Five choice movement time (ms)	327.38 $\pm$ 96.77	295.30 $\pm$ 67.10	337.27 $\pm$ 99.35	288.61 $\pm$ 58.51	321.49 $\pm$ 102.28	293.63 $\pm$ 61.55	374.67 $\pm$ 151.94	275.97 $\pm$ 66.08	F= 1.40, p= 0.13	ns
RTI Five choice reaction time (ms)	63.93 $\pm$ 23.47	53.89 $\pm$ 14.18	66.27 $\pm$ 27.59	58.29 $\pm$ 21.11	62.72 $\pm$ 23.01	67.08 $\pm$ 15.49	93.46 $\pm$ 92.87	55.72 $\pm$ 17.42	F= 1.35, p= 0.15	ns

Supplementary Material

CANTAB assessments: Means $\pm$ SD, F-statistic, and p-value, for each variable, by dose group and day of assessments

	Baseline				Dose 1			
	Placebo	5 u	10 u	20 u	Placebo	5 u	10 u	20 u
RTI Five choice reaction time (ms)	534.75 $\pm$ 60.44	553.71 $\pm$ 53.65	564.17 $\pm$ 82.76	530.79 $\pm$ 69.27	527.33 $\pm$ 35.93	551.58 $\pm$ 80.07	504.95 $\pm$ 76.42	529.58 $\pm$ 58.16
RVP Mean response latency (ms)	481.75 $\pm$ 69.99	533.71 $\pm$ 68.43	579.29 $\pm$ 177.80	496.94 $\pm$ 63.55	479.90 $\pm$ 46.42	522.07 $\pm$ 78.64	511.87 $\pm$ 112.21	520.62 $\pm$ 94.67
RVP Total misses	17.42 $\pm$ 6.54	18.00 $\pm$ 8.24	17.25 $\pm$ 10.18	18.17 $\pm$ 9.05	14.08 $\pm$ 7.37	13.08 $\pm$ 8.87	17.45 $\pm$ 12.41	17.83 $\pm$ 9.62
RVP Probability of false alarm	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.02	0.05 $\pm$ 0.13	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.03
RVP Probability of hit	0.68 $\pm$ 0.12	0.67 $\pm$ 0.15	0.68 $\pm$ 0.19	0.66 $\pm$ 0.17	0.74 $\pm$ 0.14	0.76 $\pm$ 0.16	0.68 $\pm$ 0.23	0.67 $\pm$ 0.18
RVP Total False alarms	7.08 $\pm$ 5.99	3.92 $\pm$ 3.87	7.75 $\pm$ 9.73	26.08 $\pm$ 66.93	6.42 $\pm$ 7.33	3.83 $\pm$ 3.74	6.91 $\pm$ 6.83	9.75 $\pm$ 13.75
RVP Total hits	36.58 $\pm$ 6.54	36.00 $\pm$ 8.24	36.75 $\pm$ 10.18	35.83 $\pm$ 9.05	39.92 $\pm$ 7.37	40.92 $\pm$ 8.87	36.55 $\pm$ 12.41	36.17 $\pm$ 9.62
RVP A	0.91 $\pm$ 0.04	0.91 $\pm$ 0.04	0.91 $\pm$ 0.06	0.90 $\pm$ 0.04	0.93 $\pm$ 0.04	0.94 $\pm$ 0.04	0.91 $\pm$ 0.07	0.91 $\pm$ 0.05
RVP Response latency (SD) (ms)	137.43 $\pm$ 95.98	193.71 $\pm$ 61.76	194.53 $\pm$ 110.38	151.59 $\pm$ 84.89	139.07 $\pm$ 90.58	191.41 $\pm$ 83.81	176.34 $\pm$ 128.24	186.90 $\pm$ 124.38
RVP Median response latency (ms)	449.96 $\pm$ 59.73	476.67 $\pm$ 45.35	534.21 $\pm$ 173.14	465.13 $\pm$ 43.53	450.54 $\pm$ 62.21	465.21 $\pm$ 57.58	456.41 $\pm$ 74.00	468.17 $\pm$ 61.70
SWM Total errors	10.08 $\pm$ 7.93	11.83 $\pm$ 9.09	17.00 $\pm$ 10.15	16.08 $\pm$ 8.97	11.25 $\pm$ 7.75	9.50 $\pm$ 7.27	18.82 $\pm$ 7.80	11.58 $\pm$ 8.87
SWM Problem Reached	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00
SWM Strategy (6-8 boxes)	8.33 $\pm$ 2.53	8.92 $\pm$ 1.93	8.50 $\pm$ 2.28	8.33 $\pm$ 2.06	7.83 $\pm$ 3.16	8.17 $\pm$ 1.70	9.00 $\pm$ 2.68	8.50 $\pm$ 2.50
SWM Double errors 8 boxes	0.17 $\pm$ 0.39	0.33 $\pm$ 0.65	0.92 $\pm$ 2.27	0.58 $\pm$ 0.90	0.08 $\pm$ 0.29	0.33 $\pm$ 0.89	1.64 $\pm$ 2.38	0.67 $\pm$ 1.78
SWM Within errors 8 boxes	0.25 $\pm$ 0.62	0.42 $\pm$ 0.79	1.50 $\pm$ 2.84	1.17 $\pm$ 1.47	0.50 $\pm$ 0.80	0.42 $\pm$ 1.00	2.64 $\pm$ 3.07	0.83 $\pm$ 2.04
SWM Between errors 8 boxes	6.08 $\pm$ 5.40	7.42 $\pm$ 5.79	10.67 $\pm$ 6.04	11.75 $\pm$ 6.05	6.67 $\pm$ 5.47	6.42 $\pm$ 5.43	12.73 $\pm$ 5.44	7.50 $\pm$ 6.78
SWM Total errors 8 boxes	6.17 $\pm$ 5.51	7.50 $\pm$ 5.85	11.25 $\pm$ 6.55	12.33 $\pm$ 5.97	7.08 $\pm$ 5.38	6.50 $\pm$ 5.49	13.73 $\pm$ 5.41	7.67 $\pm$ 6.93
SWM Double errors 6 boxes	0.08 $\pm$ 0.29	0.08 $\pm$ 0.29	0.08 $\pm$ 0.29	0.17 $\pm$ 0.39	0.17 $\pm$ 0.39	0.00 $\pm$ 0.00	0.09 $\pm$ 0.30	0.25 $\pm$ 0.87
SWM Within errors 6 boxes	0.17 $\pm$ 0.39	0.17 $\pm$ 0.58	0.17 $\pm$ 0.58	0.25 $\pm$ 0.62	0.25 $\pm$ 0.62	0.08 $\pm$ 0.29	0.27 $\pm$ 0.47	0.25 $\pm$ 0.87
SWM Between errors 6 boxes	3.25 $\pm$ 3.17	3.92 $\pm$ 3.29	4.83 $\pm$ 3.04	3.08 $\pm$ 3.06	3.50 $\pm$ 3.21	2.33 $\pm$ 3.17	4.27 $\pm$ 3.98	3.50 $\pm$ 3.90
SWM Total errors 6 boxes	3.33 $\pm$ 3.11	4.00 $\pm$ 3.44	4.92 $\pm$ 3.20	3.17 $\pm$ 3.24	3.58 $\pm$ 3.26	2.42 $\pm$ 3.32	4.45 $\pm$ 3.93	3.50 $\pm$ 3.90
SWM Double errors 4 boxes	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
SWM Within errors 4 boxes	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
SWM Between errors 4 boxes	0.58 $\pm$ 1.38	0.33 $\pm$ 0.78	0.83 $\pm$ 0.94	0.58 $\pm$ 1.00	0.58 $\pm$ 1.24	0.58 $\pm$ 1.38	0.64 $\pm$ 1.12	0.42 $\pm$ 0.67
SWM Total errors 4 boxes	0.58 $\pm$ 1.38	0.33 $\pm$ 0.78	0.83 $\pm$ 0.94	0.58 $\pm$ 1.00	0.58 $\pm$ 1.24	0.58 $\pm$ 1.38	0.64 $\pm$ 1.12	0.42 $\pm$ 0.67
SWM Double errors	0.25 $\pm$ 0.45	0.42 $\pm$ 0.67	1.00 $\pm$ 2.30	0.75 $\pm$ 1.22	0.25 $\pm$ 0.45	0.33 $\pm$ 0.89	1.73 $\pm$ 2.37	0.92 $\pm$ 2.15
SWM Within errors	0.42 $\pm$ 0.67	0.58 $\pm$ 0.90	1.67 $\pm$ 2.99	1.42 $\pm$ 2.02	0.75 $\pm$ 1.06	0.50 $\pm$ 1.00	2.91 $\pm$ 3.36	1.08 $\pm$ 2.35
SWM Between errors	9.92 $\pm$ 7.97	11.67 $\pm$ 8.92	16.33 $\pm$ 9.54	15.42 $\pm$ 8.73	10.75 $\pm$ 7.71	9.33 $\pm$ 7.24	17.64 $\pm$ 7.74	11.42 $\pm$ 8.76

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CANTAB assessments: Means $\pm$ SD, F-statistic, and p-value, for each variable, by dose group and day of assessments

	Dose 6				Follow-up				One-way ANOVA	Bonferroni post-hoc
	Placebo	5 u	10 u	20 u	Placebo	5 u	10 u	20 u		
RTI Five choice reaction time (ms)	550.38 $\pm$ 53.15	516.96 $\pm$ 66.58	542.36 $\pm$ 62.11	527.67 $\pm$ 44.89	571.71 $\pm$ 67.16	529.88 $\pm$ 54.06	572.38 $\pm$ 63.52	535.00 $\pm$ 79.82	F= 0.94, p= 0.53	ns
RVP Mean response latency (ms)	500.65 $\pm$ 46.88	516.84 $\pm$ 77.94	480.82 $\pm$ 97.27	502.25 $\pm$ 67.73	523.58 $\pm$ 107.98	513.62 $\pm$ 54.61	499.08 $\pm$ 107.63	491.43 $\pm$ 54.45	F= 1.44, p= 0.11	ns
RVP Total misses	13.17 $\pm$ 8.09	12.25 $\pm$ 6.89	14.36 $\pm$ 14.33	16.42 $\pm$ 11.04	16.75 $\pm$ 13.74	8.75 $\pm$ 6.14	15.00 $\pm$ 13.93	14.25 $\pm$ 8.81	F= 1.54, p= 0.07	ns
RVP Probability of false alarm	0.02 $\pm$ 0.02	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	F= 1.05, p= 0.41	ns
RVP Probability of hit	0.76 $\pm$ 0.15	0.77 $\pm$ 0.13	0.73 $\pm$ 0.27	0.70 $\pm$ 0.20	0.69 $\pm$ 0.25	0.84 $\pm$ 0.11	0.72 $\pm$ 0.26	0.74 $\pm$ 0.16	F= 1.54, p= 0.07	ns
RVP Total False alarms	8.00 $\pm$ 9.36	3.25 $\pm$ 4.37	5.09 $\pm$ 3.65	5.58 $\pm$ 4.68	4.92 $\pm$ 5.04	2.83 $\pm$ 3.79	5.42 $\pm$ 6.53	3.50 $\pm$ 4.03	F= 1.03, p= 0.42	ns
RVP Total hits	40.83 $\pm$ 8.09	41.75 $\pm$ 6.89	39.64 $\pm$ 14.33	37.58 $\pm$ 11.04	37.25 $\pm$ 13.74	45.25 $\pm$ 6.14	39.00 $\pm$ 13.93	39.75 $\pm$ 8.81	F= 1.54, p= 0.07	ns
RVP A	0.93 $\pm$ 0.04	0.94 $\pm$ 0.03	0.93 $\pm$ 0.07	0.92 $\pm$ 0.06	0.92 $\pm$ 0.06	0.96 $\pm$ 0.03	0.92 $\pm$ 0.07	0.93 $\pm$ 0.04	F= 1.73, p= 0.03*	ns
RVP Response latency (SD) (ms)	173.74 $\pm$ 105.98	173.22 $\pm$ 77.84	129.93 $\pm$ 68.13	153.42 $\pm$ 73.84	138.42 $\pm$ 63.52	138.97 $\pm$ 45.06	146.39 $\pm$ 83.24	140.85 $\pm$ 83.20	F= 1.28, p= 0.20	ns
RVP Median response latency (ms)	457.63 $\pm$ 55.17	472.21 $\pm$ 66.58	454.91 $\pm$ 79.92	472.50 $\pm$ 66.13	498.33 $\pm$ 114.26	479.00 $\pm$ 55.37	461.25 $\pm$ 95.71	463.33 $\pm$ 44.34	F= 1.37, p= 0.15	ns
SWM Total errors	9.42 $\pm$ 9.73	12.50 $\pm$ 7.93	13.64 $\pm$ 9.16	9.83 $\pm$ 8.13	9.50 $\pm$ 10.21	10.67 $\pm$ 8.78	14.50 $\pm$ 9.55	11.92 $\pm$ 10.04	F= 1.75, p= 0.03*	ns
SWM Problem Reached	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00	5.00 $\pm$ 0.00		ns
SWM Strategy (6-8 boxes)	6.33 $\pm$ 3.08	7.50 $\pm$ 2.24	7.09 $\pm$ 2.91	7.33 $\pm$ 2.90	6.58 $\pm$ 3.18	7.67 $\pm$ 2.74	8.50 $\pm$ 3.03	7.33 $\pm$ 2.74	F= 1.28, p= 0.20	ns
SWM Double errors 8 boxes	0.17 $\pm$ 0.39	0.17 $\pm$ 0.39	0.27 $\pm$ 0.47	0.17 $\pm$ 0.39	0.17 $\pm$ 0.39	0.42 $\pm$ 0.51	0.83 $\pm$ 1.19	1.00 $\pm$ 1.48	F= 1.23, p= 0.24	ns
SWM Within errors 8 boxes	0.42 $\pm$ 0.79	0.33 $\pm$ 0.89	0.55 $\pm$ 0.93	0.42 $\pm$ 0.67	0.42 $\pm$ 0.90	0.58 $\pm$ 0.79	1.33 $\pm$ 1.87	1.08 $\pm$ 1.56	F= 1.43, p= 0.11	ns
SWM Between errors 8 boxes	6.50 $\pm$ 6.86	8.92 $\pm$ 5.37	9.27 $\pm$ 6.47	5.83 $\pm$ 4.97	5.50 $\pm$ 6.52	7.50 $\pm$ 6.08	9.67 $\pm$ 6.84	8.83 $\pm$ 6.38	F= 1.85, p= 0.02*	ns
SWM Total errors 8 boxes	6.75 $\pm$ 6.84	9.08 $\pm$ 5.47	9.55 $\pm$ 6.30	6.08 $\pm$ 4.87	5.75 $\pm$ 6.34	7.67 $\pm$ 6.17	10.17 $\pm$ 7.16	8.92 $\pm$ 6.53	F= 2.04, p= 0.01**	ns
SWM Double errors 6 boxes	0.25 $\pm$ 0.45	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.25 $\pm$ 0.62	0.33 $\pm$ 0.49	0.00 $\pm$ 0.00	0.33 $\pm$ 0.89	0.17 $\pm$ 0.58	F= 0.78, p= 0.73	ns
SWM Within errors 6 boxes	0.42 $\pm$ 0.51	0.08 $\pm$ 0.29	0.00 $\pm$ 0.00	0.42 $\pm$ 1.00	0.58 $\pm$ 0.67	0.00 $\pm$ 0.00	0.50 $\pm$ 1.24	0.33 $\pm$ 0.89	F= 0.83, p= 0.67	ns
SWM Between errors 6 boxes	2.17 $\pm$ 2.92	3.00 $\pm$ 3.88	3.18 $\pm$ 3.40	3.25 $\pm$ 3.65	3.08 $\pm$ 3.48	2.50 $\pm$ 2.65	4.08 $\pm$ 3.09	2.75 $\pm$ 4.27	F= 1.09, p= 0.37	ns
SWM Total errors 6 boxes	2.33 $\pm$ 2.81	3.08 $\pm$ 3.96	3.18 $\pm$ 3.40	3.42 $\pm$ 3.82	3.33 $\pm$ 3.55	2.50 $\pm$ 2.65	4.25 $\pm$ 3.31	2.92 $\pm$ 4.48	F= 1.03, p= 0.43	ns
SWM Double errors 4 boxes	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.09 $\pm$ 0.30	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	F= 0.98, p= 0.48	ns
SWM Within errors 4 boxes	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.09 $\pm$ 0.30	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	F= 0.91, p= 0.57	ns
SWM Between errors 4 boxes	0.33 $\pm$ 1.15	0.33 $\pm$ 0.78	0.91 $\pm$ 1.30	0.33 $\pm$ 1.15	0.42 $\pm$ 1.00	0.50 $\pm$ 1.17	0.08 $\pm$ 0.29	0.08 $\pm$ 0.29	F= 0.97, p= 0.49	ns
SWM Total errors 4 boxes	0.33 $\pm$ 1.15	0.33 $\pm$ 0.78	0.91 $\pm$ 1.30	0.33 $\pm$ 1.15	0.42 $\pm$ 1.00	0.50 $\pm$ 1.17	0.08 $\pm$ 0.29	0.08 $\pm$ 0.29	F= 1.02, p= 0.43	ns
SWM Double errors	0.42 $\pm$ 0.67	0.17 $\pm$ 0.39	0.36 $\pm$ 0.50	0.42 $\pm$ 0.67	0.50 $\pm$ 0.67	0.42 $\pm$ 0.51	1.17 $\pm$ 1.34	1.17 $\pm$ 1.99	F= 1.06, p= 0.40	ns
SWM Within errors	0.83 $\pm$ 1.03	0.42 $\pm$ 0.90	0.64 $\pm$ 0.92	0.83 $\pm$ 1.03	1.00 $\pm$ 1.21	0.58 $\pm$ 0.79	1.83 $\pm$ 1.99	1.42 $\pm$ 2.39	F= 1.29, p= 0.19	ns
SWM Between errors	9.00 $\pm$ 9.79	12.25 $\pm$ 7.93	13.36 $\pm$ 9.32	9.42 $\pm$ 8.03	9.00 $\pm$ 10.35	10.50 $\pm$ 8.74	13.83 $\pm$ 9.07	11.67 $\pm$ 9.66	F= 1.65, p= 0.05*	ns