

**Table 1 Age comparison**

	Younger	Older	Total
Total AD/HD	97.6 ± 9.7 (n=41)	135.2 ± 10.0 (n=13)	106.6 ± 18.9 (n=54)
Combined AD/HD	97.7 ± 10.2 (n=24)	134.0 ± 10.8 (n=8)	106.8 ± 18.9 (n=32)
Inattentive AD/HD	97.6 ± 9.2 (n=17)	137.0 ± 9.5 (n=5)	106.5 ± 19.2 (n=22)
Control	100.2 ± 5.4 (n=54)	128.6 ± 10.1 (n=16)	106.6 ± 13.6 (n=70)

**Table 2 Data comparison (total AD/HD group vs. control group)**

	Younger	Older	Total
Omission error (times)			
Total AD/HD	27.9 ± 32.6	18.8 ± 18.0	21.0 ± 22.4
Control	9.3 ± 13.0	2.2 ± 1.9	7.7 ± 11.9
	**	**	**
Commission error (times)			
Total AD/HD	45.9 ± 27.6	40.8 ± 23.7	44.6 ± 26.6
Control	29.6 ± 24.6	22.8 ± 17.3	28.0 ± 23.3
	**	*	**
Multiple response error (times)			
Total AD/HD	9.8 ± 21.7	5.2 ± 10.0	8.7 ± 19.6
Control	2.0 ± 6.3	0.8 ± 1.9	1.7 ± 5.6
	**	*	**
Invalid response error (times)			
Total AD/HD	12.7 ± 23.7	8.5 ± 13.0	11.7 ± 21.6
Control	1.9 ± 3.7	1.4 ± 2.6	1.8 ± 3.5
	**	*	**
Mean response time (ms)			
Total AD/HD	501.0 ± 92.5	427.6 ± 87.0	483.3 ± 95.7
Control	491.9 ± 69.3	404.1 ± 54.9	471.9 ± 75.6
	N.S.	N.S.	N.S.
Coefficient of variability of R.T.			
Total AD/HD	28.5 ± 6.6	27.7 ± 8.3	28.3 ± 6.9
Control	24.3 ± 4.0	25.1 ± 4.1	24.5 ± 4.0
	**	N.S.	**

N.S. Not significant, \* p<0.05, \*\* p<0.01. R.T. Reaction time

**Table 3 Sensitivity and specificity for total AD/HD diagnosis**

	Sensitivity (%)	Specificity (%)
<b>Omission error</b>		
Total sessions	55.1	91.4
No noise sessions	59.3	90.6
Auditory noise sessions	52.1	89.2
Visual noise sessions	49.6	92.6
<b>Commission error</b>		
Total sessions	52.7	81.4
No noise sessions	52.4	80.2
Auditory noise sessions	58.2	89.4
Visual noise sessions	43.3	76.7
<b>Coefficient of variability of R.T.</b>		
Total sessions	43.5	82.6
No noise sessions	39.3	88.7
Auditory noise sessions	46.7	70.7
Visual noise sessions	40.1	79.5

R.T. Reaction time.

**Table 4 Data with and without noise for control group (control group: no-noise vs. noise sessions)**

	No noise	Auditory noise	Visual noise
<b>Omission error (%)</b>			
No noise ( $1.9 \pm 2.6$ )	–	*	*
Auditory noise ( $0.9 \pm 1.5$ )		–	*
Visual noise ( $3.0 \pm 8.4$ )			–
<b>Commission error (%)</b>			
No noise ( $5.1 \pm 4.5$ )	–	**	N.S.
Auditory noise ( $8.5 \pm 6.4$ )		–	**
Visual noise ( $4.3 \pm 4.6$ )			–
<b>Multiple response error (%)</b>			
No noise ( $0.4 \pm 1.4$ )	–	N.S.	N.S.
Auditory noise ( $0.4 \pm 0.9$ )		–	N.S.
Visual noise ( $0.2 \pm 1.0$ )			–
<b>Invalid response error (%)</b>			
No noise ( $0.3 \pm 0.7$ )	–	N.S.	N.S.
Auditory noise ( $0.4 \pm 0.9$ )		–	N.S.
Visual noise ( $0.4 \pm 1.0$ )			–
<b>Mean reaction time (ms)</b>			
No noise ( $473.6 \pm 74.3$ )	–	**	**
Auditory noise ( $448.8 \pm 80.6$ )		–	**
Visual noise ( $488.1 \pm 81.7$ )			–
<b>Coefficient of variability of R.T.</b>			
No noise ( $24.9 \pm 4.2$ )	–	N.S.	N.S.
Auditory noise ( $24.1 \pm 5.5$ )		–	N.S.
Visual noise ( $23.8 \pm 6.1$ )			–

N.S. Not significant, \*  $p < 0.05$ , \*\*  $p < 0.01$ . R.T. Reaction time

**Table 5 Differences between noise and no-noise sessions (total AD/HD group vs. control group)**

	Auditory noise — No noise	Visual noise — No noise
<b>Omission error (%)</b>		
Total AD/HD	-2.69 ± 4.43	-1.77 ± 3.17
Control	-1.01 ± 1.93	1.08 ± 8.19
	*	**
<b>Commission error (%)</b>		
Total AD/HD	3.18 ± 4.17	-0.88 ± 2.79
Control	3.49 ± 3.79	-0.74 ± 2.48
	N.S.	N.S.
<b>Multiple response error (%)</b>		
Total AD/HD	-0.45 ± 1.42	-0.32 ± 1.46
Control	0.002 ± 1.03	-0.20 ± 0.59
	*	N.S.
<b>Invalid response error (%)</b>		
Total AD/HD	-0.15 ± 0.32	0.03 ± 1.44
Control	0.02 ± 0.83	0.02 ± 0.63
	N.S.	N.S.
<b>Mean response time (ms)</b>		
Total AD/HD	-35.95 ± 33.46	19.53 ± 39.59
Control	-21.79 ± 25.17	14.47 ± 28.14
	*	N.S.
<b>Coefficient of variability of R.T.</b>		
Total AD/HD	-2.00 ± 5.72	-2.69 ± 5.22
Control	-0.79 ± 4.57	-1.12 ± 5.36
	N.S.	N.S.

N.S. Not significant, \* p<0.05, \*\* p<0.01.

**Table 6 Differences between noise and no-noise sessions (combined AD/HD group vs. inattentive AD/HD group)**

	Auditory noise — No noise	Visual noise — No noise
Omission error (%)		
Combined AD/HD	-2.63 ± 5.25	-1.84 ± 3.27
Inattentive AD/HD	-2.80 ± 2.98	-1.66 ± 3.09
	N.S.	N.S.
Commission error (%)		
Combined AD/HD	4.29 ± 3.76	-0.58 ± 3.19
Inattentive AD/HD	1.56 ± 4.30	-1.30 ± 2.07
	*	N.S.
Multiple response error (%)		
Combined AD/HD	-0.53 ± 1.65	-0.44 ± 1.69
Inattentive AD/HD	-0.33 ± 1.01	-0.15 ± 1.06
	N.S.	N.S.
Invalid response error (%)		
Combined AD/HD	-0.41 ± 1.14	0.03 ± 1.35
Inattentive AD/HD	0.21 ± 1.10	0.03 ± 1.59
	*	N.S.
Mean response time (ms)		
Combined AD/HD	-36.75 ± 32.62	20.81 ± 35.41
Inattentive AD/HD	-34.79 ± 35.38	17.66 ± 45.82
	N.S.	N.S.
Coefficient of variability of R.T.		
Combined AD/HD	-1.51 ± 3.90	-2.81 ± 4.30
Inattentive AD/HD	-2.66 ± 7.70	-2.52 ± 6.44
	N.S.	N.S.

N.S. Not significant, \* p<0.05, \*\* p<0.01.