Faculty of Health: Medicine, Dentistry and Human Sciences

Peninsula Medical School

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A pilot examination of the validity of stylus and finger drawing on visuomotor-mediated tests on ACEmobile

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Supplementary Analyses

Frequency distribution of scores (%)

Subtest	Score	Control			AD		
		Pencil	Stylus	Finger	Pencil	Stylus	Finger
Infinity Loop	0	4	5	9	23	19	28
	1	96	95	91	77	81	72
Cube	0	4	0	9	15	24	28
	1	13	11	14	23	29	28
	2	83	89	77	62	48	44
Clock Drawing	0	0	0	0	0	5	0
	1	0	0	0	4	5	8
	2	0	0	0	19	29	4
	3	4	11	5	15	5	38
	4	9	5	29	23	29	21
	5	87	84	67	39	29	29
Sentence Writing	0	9	0	14	38	38	29
	1	22	42	48	38	24	42
	2	70	58	38	23	38	29

Sensitivity, specificity and area under the curve for infinity loop, cube and clock with 95% confidence intervals (CI)

Test	Method	Cut off	Sensitivity (%)	Specificity (%)	AUC
	Pencil (n = 49	0	23.1 [9.0, 43.7]	95.7 [78.1, 99.9]	0.594
					[0.501,
					0.687]
	Stylus (n = 40)	0	19.1 [5.5, 41.9]	94.7 [74.0, 99.9]	0.569
Infinity loop					[0.469,
	F: (47)		20.0[42.4.40.4]	00 0 [70 0 00 0]	0.669]
	Finger (n = 47)	0	28.0 [12.1, 49.4]	90.9 [70.8, 98.9]	0.595
					[0.486,
	D :: / 40\		20 5 [20 2 50 4]	02.6.[64.2.05.4]	0.703]
Cube	Pencil (n = 49)	≤1	38.5 [20.2, 59.4]	82.6 [61.2, 95.1]	0.610
					[0.486,
	0. 1 (10)		50 4 500 0 74 0	00 = [00 0 00 =]	0.734]
	Stylus (n = 40)	≤1	52.4 [29.8, 74.3]	89.5 [66.9, 98.7]	0.722
					[0.595,
	/>		= = = = = = = = = = = = = = = = = = = =	== 0 (= 4 0 00 0)	0.849]
	Finger (n = 47)	≤1	56.0 [34.9, 75.6]	77.3 [54.6, 92.2]	0.673
					[0.536,
	5 11 / 40)		22 4 [2 2 42 7]	100 0 [05 0 100 0]	0.809]
Clock	Pencil (n = 49)	≤2	23.1 [9.0, 43.7]	100.0 [85.2, 100.0]	0.759
					[0.644,
	C: 1 / 40)	-12	20.4 [40.44	400 0 [00 4 400 0]	0.874]
	Stylus (n = 40)	≤2	38.1 [18.11,	100.0 [82.4, 100.0]	0.795
			61.6]		[0.668,
	F: / 45)	-12	42.5 [2.7.22.4]	400 0 [02 0 400 0]	0.921]
	Finger (n = 45)	≤2	12.5 [2.7, 32.4]	100.0 [83.9, 100.0]	0.757
					[0.625,
6 .	D :: / 40\	-4	CO C [47.4 OC O]	76.0 [56.4.04.0]	0.889]
Sentence	Pencil (n = 49)	≤1	69.6 [47.1, 86.8]	76.9 [56.4, 91.0]	0.758
Writing					[0.629,
	Chalas (a. 40)	- 11	F7 0 [22 F 70 2]	C4 0 [20 4 04 0]	0.886]
	Stylus (n = 40)	≤1	57.9 [33.5, 79.8]	61.9 [38.4, 81.9]	0.679
					[0.524,
	F: / .F.	1.0	20 4 [40 4 64 5]	70.0[40.0.07.4]	0.835]
	Finger (n = 45)	≤1	38.1 [18.1, 61.6]	70.8 [48.9, 87.4]	0.584
					[0.427,
					0.741]