

SUPPLEMENTARY MATERIALS

Neuropsychological outcomes of children with Optic Pathway Glioma

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Table S1. Analysis of the characteristics of each neuropsychological subtest.

Domain	Test	Scale	Subtest	Vision	Fine motor	Timed		
Visual perception	DTVP-2 /	MRP	Position in space ^a	1	0	0		
			Figure-ground	1	0	0		
			Visual closure	1	0	0		
			Form constancy	1	0	0		
	DVTP-A	VMI	Eye-hand coordination ^a	1	1	0		
			Copying	1	1	0		
			Spatial relations ^a	1	1	0		
			Visual-motor speed	1	1	1		
Cognitive function	WISC-IV ^{UK}	VC	Similarities	0	0	0		
			Vocabulary	0	0	0		
		PR	Comprehension	0	0	0		
			Block design ^c	1	1	0/1		
			Picture concept	1	0	0		
		WM	Matrix reasoning	1	0	0		
			Digit span	0	0	0		
		PS	Letter-number sequence	0	0	0		
			Coding	1	1	1		
			Symbol searching	1	1	1		
			Visual-motor search ^b	1	1	1		
		Scholastic attainment	WIAT-II ^{UK}	R	Word reading	1	0	0
					Reading comprehension	1	0	0
					Pseudoword decoding	1	0	0
M	Numerical operations			1	1	0		
	Mathematica reasoning			1	0	0		
WL	Spelling			1	1	0		
	Written expression			1	1	0		
	OL			Listening comprehension	1	0	0	
Oral expression		1	0	1				

MRP = Motor-Reduced Perception; VMI = Visual-Motor Integration; VC = Verbal Comprehension; PR = Perceptual Reasoning; WM = Working Memory; PS = Processing Speed; R = Reading; M = Mathematics; WL = Written Language; OL = Oral Language.

^a Subtest included only in the DTVP-2.

^b Subtest included only in the DVTP-A.

^c In our sample, there was no discrepancy between scores with and without time bonus.

Table S2. Descriptive statistics (M and SD) and comparison to test norms (*t*-statistic and *P*-value) on each neuropsychological index for sporadic and syndromic OPGs.

	Index	Sporadic			Syndromic		
		<i>M</i> (<i>SD</i>)	<i>n</i>	<i>t</i> , <i>P</i>	<i>M</i> (<i>SD</i>)	<i>n</i>	<i>t</i> , <i>P</i>
Visual perception (DTVP-2/DTVP-A)	MRP	93.2 (13.2)	5	-1.15, .315	83.3 (14.0)	7	-3.17, .019
	VMI	85.0 (23.2)	5	-1.45, .222	82.4 (14.8)	7	-3.13, .020
	GVP	88.2 (18.6)	5	-1.42, .230	81.9 (14.3)	7	-3.35, .015
Cognitive functioning (WISC-IV ^{UK})	VC	94.4 (13.8)	5	-0.91, .415	88.6 (14.6)	5	-1.74, .157
	PR	102.0 (15.5)	5	0.29, .787	89.0 (17.2)	5	-1.43, .225
	WM	90.0 (3.7)	5	-5.98, .004	80.8 (10.5)	5	-4.10, .015
	PS	91.6 (14.6)	5	-1.29, .268	83.4 (15.8)	5	-2.35, .079
	FSIQ	93.8 (8.6)	5	-1.60, .184	82.6 (11.5)	5	-3.38, .028
Scholastic attainment (WIAT-II ^{UK})	GA	98.2 (9.8)	5	-0.41, .703	87.8 (12.1)	5	-2.25, .087
	R	101.8 (8.0)	5	0.50, .641	85.8 (13.0)	5	-2.45, .071
	M	106.6 (17.0)	5	0.87, .435	91.0 (18.4)	5	-1.09, .335
	WL	92.4 (11.3)	5	-1.51, .206	85.6 (16.0)	5	-2.01, .114
	OL	91.6 (10.7)	5	-1.76, .154	85.4 (17.8)	5	-1.83, .141
	TC	98.0 (10.8)	5	-0.41, .700	84.8 (14.8)	5	-2.30, .083

MRP = Motor-Reduced Perception; VMI = Visual-Motor Integration; GVP = General Visual Perception; VC = Verbal Comprehension; PR = Perceptual Reasoning; WM = Working Memory; PS = Processing Speed; FSIQ = Full-Scale IQ; GA = General Ability; R = Reading; M = Mathematics; WL = Written Language; OL = Oral Language; TC = Total Composite.