

TABLE S1. Patient group data. Groups A and B have normal HF-prVEPs. Group C have HF-prVEP defects. The group classification is described in Figure 1, schema of symmetrical (A), asymmetrical (B) FF-prVEPs and HF-prVEP (C).

A.		Normal - Symmetric FF-prVEP (normal FF-PrVEP at Oz and normal HF-prVEPs) n=14										
ID	Age [years]	Ophthalmology referral	FF-prVEP trans-occipital asymmetry [%]		HF-prVEP IP100 amplitudes [µV]				HF-prVEP distribution			
			RE	LE	RE		LE		RE		LE	
					RHF	LHF	RHF	LHF	RHF	LHF	RHF	LHF
		symbols: ● = hemifield deficit, ○ = normal distribution of hemifields, ⊖ = atypical distribution of hemifields, ⊕ = symmetric distribution of hemifields										
55	8.3	Craniosynostosis - sagittal	14% smaller L.Occ	17% smaller L.Occ	20	27	26	17	○○	○○		
56	15.2	Craniosynostosis - sagittal	9% smaller R.Occ	0% symmetrical	8	11	10	8	○○	○○		
60	11.9	Craniosynostosis - sagittal	9% smaller L.Occ	4% smaller L.Occ	22	21	20	16	○○	○○		
54	8.7	Craniosynostosis - multisutural	9% smaller L.Occ	0% (symmetrical)	12	23	13	10	○○	○○		
61	16.2	IIH	0% symmetrical	7% smaller L.Occ	13	7	15	11	○○	○○		
63	12.3	IIH	0% symmetrical	8% smaller R.Occ	9	8	10	5	○○	○○		
53	13.6	Pseudopapilledema Elhers Danlos syndrome.	17% smaller L.Occ	14% smaller L.Occ	7	5	8	7	○○	○○		
50	10.6	Optic disc drusen or Papilledema	8% smaller R.Occ	18% smaller R.Occ	13	10	13	12	○○	○○		
51	9.9	Optic disc drusen. Alt XT mild amblyopia	14% smaller L.Occ	10% smaller L.Occ	9	15	12	12	○○	○○		
52	15.1	Diplopia. Dizziness. Non-specific symptoms	16% smaller R.Occ	6% smaller R.Occ	11	14	10	9	○○	○○		
57	12.3	Peripheral field loss. Unreliable visual fields.	14% smaller R.Occ	6% smaller R.Occ	18	24	16	14	○○	○○		
58	15.6	Reduced vision. Colour vision changes. Diplopia	7% smaller L.Occ	10% smaller L.Occ	12	9	14	13	○○	○○		
59	16	Reduced vision.	0% symmetrical	0% symmetrical	9	11	8	10	○○	○○		
62	6.6	Reduced vision.	16% smaller R.Occ	4% smaller L.Occ	24	27	26	31	○○	○○		
B.		Normal - Asymmetric FF-prVEP Retinotopic (normal FF-prVEP at Oz and normal HF-prVEP) n=31										
		symbols: ● = hemifield deficit, ○ = normal distribution of hemifields, ⊖ = atypical distribution of hemifields, ⊕ = symmetric distribution of hemifields										
19	10.8	Epilepsy presurgical evaluation Left MCA stroke.	38% smaller R.Occ	11% smaller R.Occ	9	10	12	10	⊕○	⊕○		
23	11.7	Epilepsy presurgical evaluation	33% smaller L.Occ	43% smaller L.Occ	12	16	12	12	○⊕	○⊕		
42	15.8	Epilepsy presurgical evaluation Focal epilepsy – temporal lobe	38% smaller R.Occ	29% smaller R.Occ	11	13	12	14	⊕○	⊕○		
20	5.7	Craniosynostosis - sagittal	18% smaller L.Occ	32% smaller L.Occ	16	24	22	18	○⊕	○⊕		
41	9	Craniosynostosis - sagittal	35% smaller L.Occ	40% smaller L.Occ	15	12	15	11	○⊕	○⊕		
46	5.8	Craniosynostosis - sagittal	42% smaller L.Occ	35% smaller L.Occ	17	20	24	16	○⊕	○⊕		
49	5.3	Craniosynostosis - sagittal	81% smaller L.Occ	80% smaller L.Occ	35	10	32	21	○⊖	○⊖		
45	7.4	Craniosynostosis - Crouzons S	21% smaller L.Occ	27% smaller L.Occ	15	13	14	8	○⊕	○⊕		
44	11.1	Craniosynostosis - multisutural	72% smaller R.Occ	63% smaller R.Occ	9	9	11	14	⊕○	⊕○		
29	7.2	Craniosynostosis - multisutural	40% smaller L.Occ	44% smaller L.Occ	12	15	19	16	○⊕	○⊕		
30	4.4	Papilloedema	68% smaller R.Occ	48% smaller R.Occ	17	27	13	15	⊕○	⊕○		
47	12.9	Papilloedema with normal MRI	23% smaller R.Occ	18% smaller R.Occ	21	19	24	25	⊕○	⊕○		
38	7.8	IIH	60% smaller L.Occ	95% smaller L.Occ	17	35	26	43	○⊕	○⊕		
28	8.3	IIH. Optic disc drusen.	41% smaller L.Occ	26% smaller L.Occ	28	24	25	19	○⊕	○⊕		
33	10.2	Headaches. Optic disc drusen.	28% smaller R.Occ	30% smaller R.Occ	20	32	18	26	⊕○	⊕○		
21	15.2	Headaches. Blurry vision	38% smaller L.Occ	46% Smaller L.Occ	8	14	10	10	○⊕	○⊕		
40	8.3	Glioma	8% smaller L.Occ	57% smaller L.Occ	14	16	11	11	○⊕	○⊕		
43	8.3	Glioma	38% smaller L.Occ	53% smaller L.Occ	11	13	14	10	○⊕	○⊕		
26	6.3	Optic neuritis. White matter changes on MRI.	53% smaller L.Occ	43% smaller L.Occ	25	15	23	17	○⊕	○⊕		
32	10.7	Colour vision changes	22% smaller R.Occ	25% smaller R.Occ	15	19	15	14	⊕○	⊕○		
22	6	Reduced vision. Pale optic nerves.	92% smaller L.Occ	90% smaller L.Occ	16	13	10	10	○⊕	○⊕		
37	9.4	Reduced vision. LE central scotoma.	60% smaller L.Occ	65% smaller L.Occ	14	10	16	9	○⊕	○⊕		
27	11.6	Reduced vision. Subretinal fluid RE.	21% smaller L.Occ	17% smaller L.Occ	19	11	18	13	○⊕	○⊕		
35	7.9	Reduced vision. Abnormal foveal reflex.	23% smaller L.Occ	54% smaller L.Occ	19	10	14	12	○⊕	○⊕		
31	14.6	Reduced vision. Migrane	19% smaller R.Occ	36% smaller R.Occ	21	10	20	11	⊕○	⊕○		
25	12.9	Reduced vision. Myopia. Unreliable visual fields.	20% smaller L.Occ	33% smaller L.Occ	16	17	19	13	○⊕	○⊕		
34	16.9	Reduced vision. Unreliable visual fields	44% smaller L.Occ	45% smaller L.Occ	5	7	6	8	○⊕	○⊕		
24	8.9	Reduced vision.	19% smaller L.Occ	56% smaller L.Occ	19	16	19	18	○⊕	○⊕		
36	9.6	Reduced vision.	16% smaller L.Occ	53% smaller L.Occ	12	13	16	15	○⊕	○⊕		
48	11	Reduced vision.	23% smaller L.Occ	43% smaller L.Occ	10	13	12	11	○⊕	○⊕		
39	10.5	SNHL	71% smaller R.Occ	67% smaller R.Occ	9	14	12	13	⊕○	⊕○		

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C.		Abnormal - Half field defect (normal FF-prVEP at Oz and abnormal HF-prVEP) n=11										
ID	Age [years]	Ophthalmology referral	FF-prVEP trans-occipital asymmetry [%]		HF-prVEP IP100 amplitudes [µV]				HF-prVEP distribution			
			RE	LE	RE		LE		RE		LE	
					RHF	LHF	RHF	LHF	RHF	LHF	RHF	LHF
symbols: ●= hemifield deficit, ○= normal distribution of hemifields, ⊙= atypical distribution of hemifields, ⊕= symmetric distribution of hemifields												
13	16.3	Epilepsy pre-surgical evaluation Focal epilepsy	20% smaller L.Occ	13% smaller L.occ	5	Absent	5	6	○●	○○		
11	14	Glioma	14% smaller R.Occ	25% smaller L.Occ	Absent	10	4	Absent	●○	○●		
10	13.4	Glioma	0% symmetrical	0% symmetrical	2	9	8	10	●⊕	○○		
14	9.8	Reduced vision. Craniopharyngioma	12% smaller L.Occ	0% symmetrical	12	14	Absent	17	○○	●⊕		
9	16.1	Reduced vision. Fibrous dysplasia	18% smaller R.Occ	33% smaller R.Occ	5	12	11	10	●○	⊕○		
8	13.3	Reduced vision. Optic atrophy. Unreliable visual fields.	36% smaller R.Occ	60% smaller R.Occ	11	12	8	2	⊕○	⊕●		
15	6.9	Reduced vision. Abnormal foveal reflex.	50% smaller L.Occ	70% smaller R.Occ	15	3	6	18	○●	●○		
16	7.6	Reduced vision. Normal MRI.	31% smaller R.Occ	9% smaller L.Occ	4	11	12	13	●○	○○		
17	5.1	Reduced vision. Bilateral hypermetropia.	40% smaller L.Occ	36% smaller L.Occ	8	13	11	4	○○	○●		
18	5.9	Reduced vision	64% smaller L.Occ	17% smaller L.Occ	12	3	10	4	○●	○●		
12	8.2	Optic atrophy. RPE changes at the fovea.	26% smaller L.Occ	22% smaller R.Occ	13	6	4	14	○●	●○		