

Supplementary Material for the I-BiT Trial

Pre-treatment Prism Cover Test on an intention to treat basis for the study population at baseline.

	I-BiT DVD	I-BiT Games	Non I-BiT Games	Total
N randomised	24	26	25	75
Test				
Prism cover test	24(100%)	26(100%)	25(100%)	75(100%)
Prism reflection test	0(0%)	0(0%)	0(0%)	0(0%)
Test performed with glasses				
Yes	23(96%)	25(96%)	25(100%)	73(97%)
No	1(4.2%)	1(3.9%)	0(0%)	2(2.7%)
Prism cover test				
Inconclusive	1	1	1	3
Near				
N	23	26	22	71
0-<10	10(43%)	15(58%)	13(59%)	38(54%)
10-<20	7(30%)	5(19%)	4(18%)	16(23%)
20-<30	5(22%)	5(19%)	3(14%)	13(18%)
30-< 40	0(0%)	0(0%)	1(4.54%)	1(1.41%)
40-<50	1(4%)	0(0%)	3(14%)	4(6%)
>50	1(4.4%)	1(3.9%)	1(4.5%)	3(4.2%)
ET	15(65%)	14(54%)	13(%)	42(59%)
XT	1(4.4%)	2(7.7%)	3(%)	6(8.5%)
X	0(0%)	5(19%)	3(%)	8(11%)
E	5(227%)	3(12%)	4(%)	12(17%)
Distance				
N	24	26	25	75
0-<10	13(54%)	19(73.08%)	15(60%)	47(62.67%)
10-<20	7(29%)	6(23.08%)	3(12%)	16(21.33%)
20-<30	3(14%)	0(0%)	6(24%)	9(12%)
30-< 40	0(0%)	0(0%)	0(0%)	0(0%)
40-<50	0(0%)	0(0%)	0(0%)	0(0%)
>50	1(4.17%)	1(3.85%)	1(4%)	3(4%)
ET	14(58%)	14(54%)	13(52%)	41(55%)
XT	1(4.2%)	2(7.7%)	4(16%)	7(9.33%)
X	0(0%)	5(19.23%)	4(16%)	9(12%)
E	4(17%)	3(12%)	2(8%)	9(12%)

Pre-treatment Binocular Functions on an intention to treat basis for the study population

	I-BiT DVD	I-BiT Games	Non I-BiT Games	Total
N randomised	24	26	25	75
Bagolini Glasses/Worth's lights				
BSV				
Near	13(54%)	19(73%)	15(60%)	47(63%)
Distance	12(50%)	16(62%)	15(60%)	43(57%)
Suppression (right)				
Near	4(17%)	0(0%)	2(8%)	6(8%)
Distance	6(25%)	2(7.7%)	2(8%)	10(13%)
Suppression (left)				
Near	1(4.17%)	4(15.38%)	2(8%)	7(9.33%)
Distance	3(13%)	7(27%)	4(16%)	14(19%)
Suppression (alt)				
Near	0(0%)	0(0%)	0(0%)	0(0%)
Distance	0(0%)	0(0%)	0(0%)	0(0%)
Diplopia				
Near	1(4.2%)	0(0%)	0(0%)	1(1.3%)
Distance	0(0%)	0(0%)	0(0%)	0(0%)
Inconclusive				
Near	5(21%)	3(12%)	6(24%)	14(19%)
Distance	3(13%)	1(3.9%)	4(16%)	8(11%)
Frisby				
Seconds of arc				
N	11	11	12	34
Mean (sd)	331(224)	195(170)	231(151)	252(187)
Median (range)	300(110,600)	170(55,300)	193(101,340)	170(108,340)
Inconclusive				

Changes in Prism Cover test from Baseline to Week 10 on an intention to treat basis for the study population

Near	Baseline			10 weeks		
	I-BiT DVD	I-BiT Game	Non I-BiT Game	I-BiT DVD	I-BiT Game	Non I-BiT Game
Prism Cover N	23	25	24	22	26	24
Mean (sd)	12.35 (10.39)	8.04 (7.85)	13.67 (14.03)	10.91 (9.17)	8.31 (7.49)	12.5 (12.22)
Median (IQR)	12 (4, 20)	4 (1.5, 15)	7.5 (4.5, 20)	9 (3, 20)	6 (2.8, 13)	7.5 (4, 19)
Change from baseline N	NB empty as change from baseline			22	25	23
Mean (sd)				-0.95 (4.24)	0.48 (3.03)	-1.04 (6.26)
Median (IQR)				0 (-2.5, 1.25)	1 (0, 2)	0 (-3, 2)
Distance	Baseline			10 weeks		
	I-BiT DVD	I-BiT Game	Non I-BiT Game	I-BiT DVD	I-BiT Game	Non I-BiT Game
Prism Cover N	23	25	24	22	26	24
Mean (sd)	9.13 (7.85)	5.72 (5.70)	9.58 (9.55)	8.77 (9.45)	7.15 (5.41)	10.25 (10.41)
Median (IQR)	8 (2, 15)	4 (0.5, 9)	7 (1.25, 19)	6 (2, 12.75)	8 (2, 12)	6 (2.25, 18)
Change from baseline N	NB empty as change from baseline			22	25	23
Mean (sd)				-0.09 (4.93)	1.16 (2.91)	0.78 (4.46)
Median (IQR)				0 (-4, 2)	1 (0, 3)	0 (-1, 4)

Binocular functions on an intention to treat basis

	Baseline			Week 10		
	I-BiT DVD	I-BiT Games	Non I-BiT Games	I-BiT DVD	I-BiT Games	Non I-BiT Games
N	24	26	25	23	26	24
Bagolini Glasses/Worth's lights						
BSV						
Near	13(54%)	19(73%)	15(60%)	10(43%)	16(62%)	15(63%)
Distance	12(50%)	16(62%)	15(60%)	9(39%)	11(42%)	14(58%)
Suppression (right, left and alt)						
Near	5(21%)	4(15%)	4(16%)	93(9.1%)	6(24%)	6(25%)
Distance	9(38%)	9(35%)	6(24%)	9(393%)	11(42%)	7(29%)
Diplopia						
Near	1(4.2%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)
Distance	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)
Inconclusive						
Near	5(21%)	3(12%)	6(24%)	4(17%)	4(15%)	3(13%)
Distance	3(13%)	1(3.9%)	4(16%)	5(21%)	4(15%)	3(13%)
Synoptophore						
Angle of anomaly						
Yes	9(38%)	7(27%)	4(16%)	5(22%)	4(15%)	3(13%)
No	2(8.3%)	3(12%)	2(8%)	1(4.4%)	3(11%)	2(8.3%)
Inc	4(17%)	4(15%)	8(32%)	9(39%)	5(19%)	8(33%)
NA	9(38%)	12(46%)	11(44%)	8(35%)	14(54%)	11(46%)
Potential for fusion						
Yes	6(25%)	4(15%)	5(20%)	2(8.7%)	2(7.7%)	2(8.3%)
No	6(25%)	8(31%)	6(24%)	8(35%)	6(23%)	7(29%)
Inc	3(13%)	2(7.7%)	3(12%)	4(17%)	1(3.9%)	4(17%)
NA	9(38%)	12(46%)	11(44%)	9(39%)	17(65%)	11(46%)
Potential for stereopsis						
Yes	4(17%)	3(12%)	1(4%)	2(8.7%)	1(3.9%)	2(8.3%)
No	8(33%)	8(30.77%)	7(28%)	9(39%)	5(19%)	7(29%)
Inc	3(13%)	3(12%)	6(24%)	3(13%)	3(13%)	4(17%)
NA	9(38%)	12(46%)	11(44%)	9(39%)	9(39%)	11(46%)

