

Participant	Diagnosis	Treatment administered	Best-Corrected Visual Acuity (logMAR)	MSE Refractive Error (dioptre sphere)	Horizontal motor fusion amplitude (prism dioptres)	Stereoacuity (arc seconds)	Near angle of deviation (prism dioptres)
001†	Strabismic amblyopia (LE)*	Occlusion, glasses, botox	Amblyopic Eye: 0.000 Fellow Eye: -0.100	Amblyopic Eye: +1.50 Fellow Eye: +2.50	Not measurable	Not measurable	15
002†	Microtropic amblyopia (RE)*	Occlusion, glasses	Amblyopic Eye: 0.000 Fellow Eye: -0.060	Amblyopic Eye: +3.50 Fellow Eye: +3.50	Positive (base out): 20 Negative (base in): 1	Frisby: 75 Preschool Randot: 400	6
003†	Microtropic amblyopia (LE)	Occlusion, glasses	Amblyopic Eye: 0.060 Fellow Eye: -0.200	Amblyopic Eye: +0.00 Fellow Eye: -0.63	Positive (base out): 35 Negative (base in): 18	Frisby: 75 Preschool Randot: 400	16
004†	Anisometropic amblyopia (LE)	Occlusion, glasses	Amblyopic Eye: 0.240 Fellow Eye: -0.040	Amblyopic Eye: +3.38 Fellow Eye: +3.50	Positive (base out): 35 Negative (base in): 14	Frisby: 40 Preschool Randot: 100	6
005†	Anisometropic amblyopia (RE)*	Occlusion, glasses	Amblyopic Eye: 0.000 Fellow Eye: -0.060	Amblyopic Eye: -0.50 Fellow Eye: -0.88	Positive (base out): 40 Negative (base in): 12	Frisby: 55 Preschool Randot: 100	6
006†	Mixed amblyopia (RE)	Occlusion, glasses	Amblyopic Eye: 0.625 Fellow Eye: -0.100	Amblyopic Eye: +2.88 Fellow Eye: +1.75	Not measurable	Not measurable	16
007	Mixed amblyopia (LE)	No treatment	Amblyopic Eye: 1.00 Fellow Eye: -0.180	Amblyopic Eye: +6.13 Fellow Eye: +5.13	Not measurable	Not measurable	12
008	Microtropic amblyopia (RE)*	Occlusion, glasses	Amblyopic Eye: -0.300 Fellow Eye: -0.300	Amblyopic Eye: +0.63 Fellow Eye: +0.63	Positive (base out): 30 Negative (base in): 12	Frisby: 20 Preschool Randot: 60	3
009†	Mixed amblyopia (LE)	Occlusion, glasses	Amblyopic Eye: 0.500 Fellow Eye: 0.140	Amblyopic Eye: +4.75 Fellow Eye: +8.51	Not measurable	Not measurable	12
010†	Microtropic amblyopia (LE)	No treatment	Amblyopic Eye: 0.460 Fellow Eye: 0.060	Amblyopic Eye: -1.50 Fellow Eye: -2.75	Positive (base out): 35 Negative (base in): 14	Not measurable	6

011	Anisometropic amblyopia (RE)*	Glasses	Amblyopic Eye: 0.000 Fellow Eye: -0.100	Amblyopic Eye: +0.88 Fellow Eye: +0.38	Positive (base out): 25 Negative (base in): 18	Frisby: 30 Preschool Randot: 100	4
012	Anisometropic amblyopia (RE)*	Glasses, occlusion	Amblyopic Eye: 0.200 Fellow Eye: 0.040	Amblyopic Eye: +3.50 Fellow Eye: +0.63	Positive (base out): 16 Negative (base in): 12	Frisby: 75 Preschool Randot: 60	2
013	Microtropic amblyopia (RE)	Occlusion	Amblyopic Eye: 0.060 Fellow Eye: -0.200	Amblyopic Eye: Plano Fellow Eye: Plano	Positive (base out): 20 Negative (base in): 4	Not measurable	2
014	Microtropic amblyopia (RE)*	Glasses, occlusion	Amblyopic Eye: 0.140 Fellow Eye: 0.040	Amblyopic Eye: -3.13 Fellow Eye: -2.25	Positive (base out): 8 Negative (base in): 16	Frisby: 40 Preschool Randot: 40	2
015	Microtropic amblyopia (LE)*	Glasses, occlusion	Amblyopic Eye: 0.060 Fellow Eye: -0.080	Amblyopic Eye: +1.00 Fellow Eye: +0.25	Positive (base out): 16 Negative (base in): 8	Not measurable	6
016	Mixed amblyopia (LE)	Glasses, occlusion, surgery	Amblyopic Eye: 0.825 Fellow Eye: 0.000	Amblyopic Eye: +4.75 Fellow Eye: +4.38	Not measurable	Not measurable	10
017	Microtropic amblyopia (RE)	Glasses, occlusion	Amblyopic Eye: 0.460 Fellow Eye: 0.000	Amblyopic Eye: +4.625 Fellow Eye: +5.000	Positive (base out): 30 Negative (base in): 16	Frisby: 600 Preschool Randot: Not measurable	8
018	Microtropic amblyopia (LE)*	Perceptual learning	Amblyopic Eye: 0.060 Fellow Eye: -0.040	Amblyopic Eye: +0.75 Fellow Eye: +0.75	Positive (base out): 14 Negative (base in): 18	Frisby: 20 Preschool Randot: 100	2
019	Strabismic amblyopia (LE)	Glasses, surgery	Amblyopic Eye: 0.200 Fellow Eye: -0.060	Amblyopic Eye: +0.38 Fellow Eye: +0.63	Not measurable	Not measurable	10
020	Strabismic amblyopia (RE)	Glasses, occlusion, surgery	Amblyopic Eye: 0.920 Fellow Eye: 0.000	Amblyopic Eye: +0.75 Fellow Eye: Plano	Not measurable	Not measurable	8
021	Microtropic amblyopia (RE)	No treatment	Amblyopic Eye: 1.000 Fellow Eye: -0.100	Amblyopic Eye: +3.50 Fellow Eye: +0.25	Positive (base out): 25 Negative (base in): 8	Frisby: 600 Preschool Randot: Not measurable	2

022	Microtropic amblyopia (RE)*	Glasses, occlusion	Amblyopic Eye: 0.100 Fellow Eye: -0.020	Amblyopic Eye: +1.25 Fellow Eye: +1.63	Positive (base out): 25 Negative (base in): 8	Frisby: 40 Preschool Randot: 100	4
023	Microtropic amblyopia (LE)	Glasses, possibly occlusion	Amblyopic Eye: 0.800 Fellow Eye: -0.100	Amblyopic Eye: +0.75 Fellow Eye: +0.25	Positive (base out): 14 Negative (base in): 8	Not measurable	4
024	Anisometropic amblyopia (LE)*	Glasses	Amblyopic Eye: -0.060 Fellow Eye: -0.200	Amblyopic Eye: +3.25 Fellow Eye: +4.63	Positive (base out): 18 Negative (base in): 16	Frisby: 30 Preschool Randot: 60	4

**Supplementary Table. Clinical characteristics of amblyopic participants recruited to the study.**

\* No longer amblyopic as a result of treatment administered

† Participated in the subsequent study involving repeated measurements of their perceptual visual distortions over time.

Grey shaded rows indicate dichoptic global distortion and/or uncertainty was not significantly different from the participant's non-dichoptic measurement and therefore participant was classified as not having significant perceptual visual distortions.

Note that for microtropic subjects the near angle of deviation also includes any latent component due to the dissociative nature of the prism cover test.