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Pooled Functionality Data of Revakinagene Taroretcel in Patients With Macular Telangiectasia Type 2

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- These trials were funded by Neurotech Pharmaceuticals
- This study includes research conducted on human subjects. Institutional Review Board approval was obtained prior to study initiation

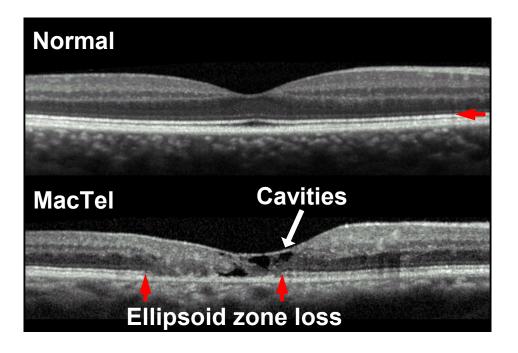
Take Home Points

- NT-501 conferred both anatomic and visual function benefits across three randomized, sham-controlled studies
- Relative to sham, NT-501 demonstrated a:
 - preservation of anatomy
 - 36% reduction in photoreceptor loss
 - preservation of function
 - 68% reduction in reading speed loss
 - 35% reduction in retinal sensitivity loss^a

Macular Telangiectasia Type 2 (MacTel) Is a Neurodegenerative Disease That Leads to Vision Loss^{1,2}

- MacTel is a bilateral, progressive retinal neurodegenerative disease
 - Leads to vision loss and functional impairment^{1,2}
 - Associated with abnormalities in Müller glia, retinal pigment epithelium, and photoreceptors in the central retina^{3,4}
 - Characterized by progressive loss of the ellipsoid zone on SD-OCT³

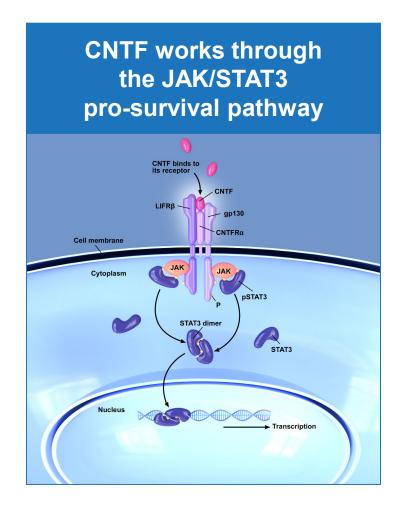
SD-OCT



^{1.} Charbel Issa P, et al. *Prog Retin Eye Res.* 2013;34:49-77. 2. Heeren TFC, et al. *Ophthalmology*. 2020;127:1539-48. 3. Heeren TFC, et al. *Retina*. 2018;38(suppl 1):S20-S26.

CNTF Is a Potent Neuroprotectant¹⁻³

- In response to injury, Müller glial cells release the neuroprotective factor CNTF¹
- CNTF protects and preserves photoreceptors²⁻⁴
- In preclinical models of retinal degeneration, photoreceptors can be rescued with intravitreal injection of CNTF^{2,4}

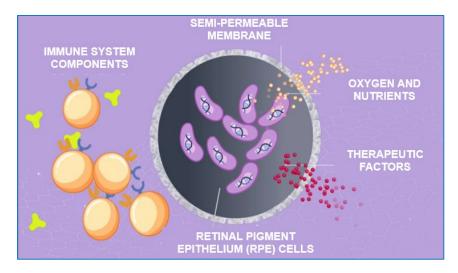


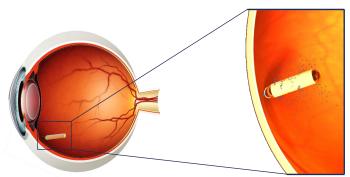
CNTF, ciliary neurotrophic factor; gp130, glycoprotein 130; JAK/STAT, Janus kinase/signal transducer and activator of transcription; LIFRβ, leukemia inhibitory factor β; P, phosphorous; STAT3, signal transducer and activator of transcription 3.

^{1.} Bringmann A, et al. *Prog Retin Eye Res.* 2009;28:423-45. 2. Shen W, et al. *J Neurosci.* 2012;32(45):15715-27. 3. Sleeman MW, et al. *Pharm Acta Helv.* 2000;74(2-3):265-72. 4. Tao W, et al. *Invest Ophthalmol Vis Sci.* 2002;43(10):3292-8.

Encapsulated Cell Therapy Is Designed to Deliver Sustained Levels of CNTF

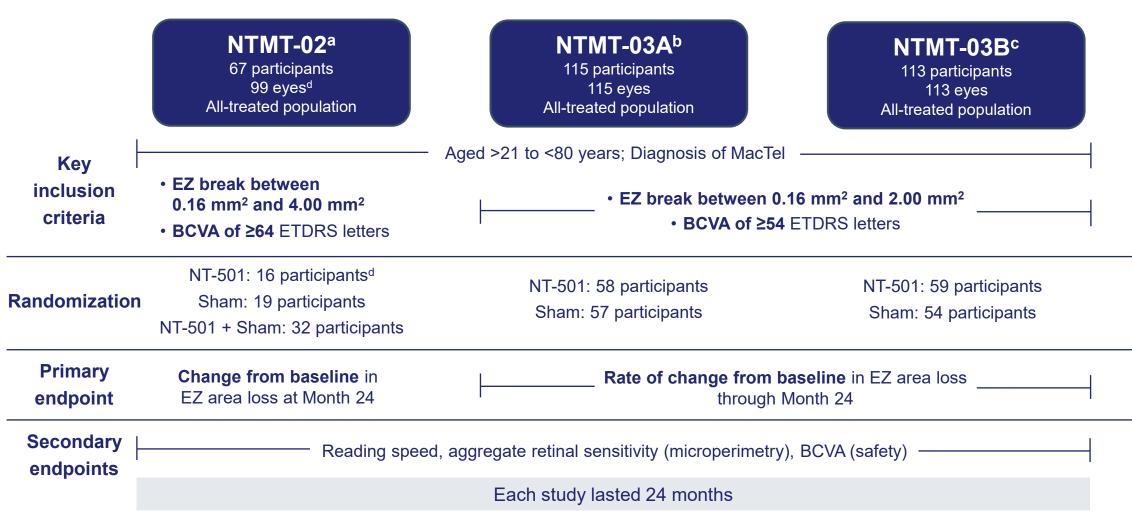
- NT-501 is a first-in-class encapsulated cell therapy¹⁻³
 - Houses NTC-201-6A cells¹
 - Allogenic retinal pigment epithelial cells with a unique expression vector for CNTF release¹
 - Surgically implanted into the vitreous cavity² and stably anchored to the sclera⁴
 - Developed to produce long-term sustained levels of CNTF²
 - The FDA has set a PDUFA date of March 18, 2025





CNTF, ciliary neurotrophic factor; FDA, Food and Drug Administration; NT-501, revakinagene taroretcel; PDUFA, Prescription Drug User Fee Act 1. Plakkot S, et al. Poster presented at: Association for Research in Vision and Ophthalmology; April 23-27, 2023; New Orleans, LA. 2. Kauper K, et al. Poster presented at: Association for Research in Vision and Ophthalmology; April 23-27, 2023; New Orleans, LA. 3. Kauper K, et al. *Invest Ophthalmol Vis Sci.* 2023;64(8):3680. 4. Chew E, et al. *Ophthalmology*. 2019;126(4):540-9.

NT-501 Has Been Studied Across 3 Randomized, Sham-controlled Clinical Trials



BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; EZ, ellipsoid zone; MacTel, macular telangiectasia type 2; NT-501, revakinagene taroretcel.

^aNCT01949324. ^bNCT03316300. ^cNCT03319849. ^dParticipants with one eligible eye (35 participants) received NT-501 (16 eyes) or sham (19 eyes). In participants with two eligible eyes (32 participants), one eye received NT-501 (32 eyes) and one eye received sham procedure (32 eyes). If both eyes were eligible, right eye was randomized 1:1 to sham or NT-501 and left eye received other surgery.

Rationale for a Pooled Functionality Analysis

- Rare disease
- Inherent variability of outcome measures¹⁻³
- Similar populations and study designs
- Increase the sample size



Modeling

ac Share ▼

Abstract

Purpose: Visual acuity(VA) is the prin indicates a lack of precision and redu enhance detection of VA signals, we d reduce variability of E-ETDRS testing (Be

the generative model of trial-by-trial p 1). The model comprises two parame size required to achieve a specific per rapidly VA behavior changes with inc distinct procedures were developed t testing:(1) A Bayesian Inference Proc hierarchical Bayesian model (HBM) th 2021a), and(3) A hierarchical Bayesian both E-ETDRS and qVA (Lesmes & Dor were applied to a VA dataset obtaine each of 4 Bangerter foil conditions wi We assessed TRV/1 96xtest-retest diff. derived from the repeated E-ETDRS te

Results: Figure 2 displays the Blandfrom the original E-ETDRS procedure 0.17 for E-ETDRS, 0.19 for BIP, 0.14 fo TRV for BIP is comparable to that of E-E by 22% and 30%, respectively.

Conclusions : By integrating information the E-ETDRS tests. Integrating inform tests, the HBIM exhibited the greater post-hoc procedures can be employ

Clinical and Epidemiologic Research

Test-Retest Variability of Reading Performance Metrics Using MNREAD in Patients with Age-Related Macular Degeneration

Praveen J. Patel, Fred K. Chen, 1,2 Lyndon I.

PURPOSE. To determine the test-retest variability of reaability using the MNREAD charts in patients with stable ag-related macular degeneration (AMD).

Microsos. In this prospective study, reading ability was me sured at two visits in 124 nontreated eyes of 124 patients with AMD, who were enrolled in an ongoing clinical trial using standardized MNREAD protocol. Only patients with stabl AMD who could perform the reading test at 40 cm at both visit were included in the analysis. Different scoring rules were applied to calculate critical print size and maximum rea

RESULTS, Data from the 59 patients with a mean (SD) age of (%) years who met the study criteria were analyzed at a me (SD) interval of 43 (6) days between measurements. The 9 coefficient of repeatability (CR) was 0.30 logMAR for read acuity. The CR for critical print size and maximum re speed varied depending on the analysis method applied CONCLUSIONS. This is a report of estimates of the intersession test-retest variability of reading performance metrics in patients with stable AMD. The results are helpful both in defining end points in clinical trials for AMD and in distinguish clinical change from measurement variability in clini practice. (Invest Obbtbalmol Vis Sci. 2011;52:3854-3859) DO

Visual acutty is the most want, function in clinical trials and clinical practice. However, function in clinical trials and clinical practice. reading ability is an important component of vision functio Reading difficulty diminishes quality of life, 1,2 and improv ment in reading performance is one of the main objectives elderly low-vision patients. 3 The MNREAD charts, developed the Minnesota Laboratory for Low-Vision Research, are a c

From the 'National Institutes of Health Research (NHRO) Blome in Research Centre for Ophthalmology (Moorfields by Biospital and UCL Institutes of Ophthalmology, Loodon, Unleast Kanghou, and the Company of Search Control of Company of Search Assertalia, Perth, Assertalia, and Vision Science, University of Search Assertalia, Perth, Assertalia. Supported by the Special Trustees of Moorfields by El Ropistal This research has received a proportion of its funding from the Durtment of Health's NHRI Biomedical Research Centre for Ophthalmological Control of the Search Centre for Ophthalmological Research Centre for Ophthalmological Research Centre for Ophthalmological Centre of Centre of Ophthalmological Research Centre for Ophthalmological Research

nology at Moorfields Eye Hospital and UCL Institute of Opht ogy. The views expressed in the publication are those of the aut and not necessarily those of the Department of Health. Submitted for publication September 19, 2010; revised Janua

and February 21, 2011; accepted February 25, 2011 Disclosure: P.I. Patel. None: F.K. Chen. None: L. Da Cruz. N G.S. Rubin, None; A. Tufail, None No reprints will be available.

Corresponding author: Praveen J. Patel, Medical Retina Servici Moorfields Eye Hospital, 162 City Road, London ECIV 2PD, UI

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ORIGINAL ARTICLE

Test-retest variability of microperimetry in geographic atrophy

Jay S. Duker¹ and Nadia K. Waheed³

monly employed as a clinical trial endpoint. Test-retest reliability is important when evaluating treatment effects in patients with geographic atrophy (GA). This study aimed to determine the test-retest variability of MP in patients with

Methods: In this prospective study, patients with a confirmed diagnosis of foveal-involving GA were enrolled. Participants performed three MP assessments of a selected eye over two visits with the Macular Integrity Assessment (MAIA) 2 instrument (Centervue, Padova, Italy) utilizing a wide 30° grid, consisting of 93 stimuli (Goldmann III) using a 4-2 epresentation strategy, encompassing the entire area of GA and beyond. Mean retinal sensitivity (MS) was expressed as an average threshold value (dB) for the entire field tested. Coefficients of Repeatability at a 95% level (CoR₉₅) were calculated for Point Wise Sensitivity (PWS). Fixation stability (FS) was assessed by evaluating the area of an elliptical representation encompassing 95% of the cloud of fixation points (CFP) dataset generated by the MAIA MP, known a the bivariate contour ellipse area (BCEA).

Results: A total of 8 subjects were enrolled (21 tests), with six subjects completing 3 MP assessments. BCVA in these patients ranged from 20/100 to 20/800. The mean area of GA was 18.7 ± 12.3 mm². The average time to complete one MP assessment was 13 min 9 s and mean BCEA@95% was 38.5 ± 19.3°2. The MS was 14.3 ± 4.5 dB. No significan increase in MS was noted between testing pairs 182 and 283. The preferred retinal locus was maintained in the same quadrant on successive tests. The mean CoR95 for PW5 were similar for testing pairs 1&2 (±3.50 dB) and 2&3 (±3.40).

Conclusion: Microperimetry using a wide grid can be reliably performed in a reasonable amount of time in patients with moderate and severe vision loss secondary to GA. There was no learning effect seen between sequential assessments when analyzing MS or PWS. A change of approximately 4 dB in PWS provides a threshold for considering a true change in this patient cohort.

Microperimetry (MP) is a several-decades old technology designed to test retinal sensitivity at different points in been a resurgence in development of new microperimthe macula. First developed in the 1980s, MP was initially etry systems, beginning with the Nidek MP-1 and condeployed as part of a scanning laser ophthalmoscope

system. In its early forms, MP systems were relatively difficult to use. In the last two decades, however, there has tinuing more recently with the Nidek MP-3 and Macular Integrity Assessment (MAIA) 2 systems, which are more user friendly with the addition of features such as eve

With newer improvements, microperimetry (MP) has gained more widespread adoption as a means of



1. Alibhai AY, et al. Int J Retina Vitreous. 2020 Apr 30;6:16. 2. Patel PJ, et al. Invest Ophthalmol Vis Sci. 2011 Jun 1;52(6):3854-9. 3. Zhao Y, et al. Poster presented at: Association for Research in Vision and Ophthalmology; May 5-9, 2024. Seattle, WA.

Changes From Baseline in EZ Area Loss, Reading Speed, Retinal Sensitivity, and BCVA Were Assessed

Assessments

- Change from baseline assessments in the all-treated population in the Phase 3 and Phase 2 studies:
 - Anatomical:
 - Area of photoreceptor (ie, EZ area) loss (primary endpoint)
 - Functional:
 - Monocular reading speed
 - Aggregate retinal sensitivity (microperimetry)
 - Safety:
 - BCVA

Baseline Demographic Characteristics, by Participanta

		Phase 2			Phase 3 (Study A)		Phase 3 (Study B)	
By participant	NT-501 (n=16)	Sham (n=19)	NT-501 + Sham (n=32)	NT-501 (n=58)	Sham (n=57)	NT-501 (n=59)	Sham (n=54)	
Female, n (%)	9 (56)	11 (58)	21 (66)	39 (67)	40 (70)	46 (78)	36 (67)	
Mean age, years (SD)	60.1 (10.7)	59.4 (7.6)	63.4 (8.4)	61.1 (8.0)	60.2 (8.4)	58.5 (7.6)	58.7 (8.9)	
Race, n (%) White Asian Black or African American American Indian or Alaska Native Other	12 (75) 0 0 0 0 4 (25)	16 (84) 1 (5) 0 0 2 (11)	30 (94) 0 1 (3) 0 1 (3)	50 (86) 2 (3) 1 (2) 0 5 (9)	48 (84) 3 (5) 2 (4) 1 (2) 3 (5)	55 (93) 3 (5) 0 0 1 (2)	47 (87) 1 (2) 0 0 6 (11)	
Ethnicity, n (%) Hispanic or Latino	1 (6)	0	1 (3)	1 (2)	5 (9)	4 (7)	4 (7)	

Baseline demographic characteristics were well balanced across studies and treatment arms

Baseline Ocular Characteristics, by Eyea

	Phase 2		Phase 3 (Study A)		Phase 3 (Study B)	
By eye	NT-501	Sham	NT-501	Sham	NT-501	Sham
	(n=48)	(n=51)	(n=58)	(n=57)	(n=59)	(n=54)
EZ area loss (mm²), n	48	51	58	57	59	54
Mean (SD)	0.70 (0.42)	0.77 (0.55)	0.51 (0.48)	0.49 (0.36)	0.52 (0.31)	0.48 (0.29)
EZ area category, n (%) <0.5 mm ² ≥0.5 mm ²	18 (37.5) 30 (62.5)	20 (39.2) 31 (60.8)	41 (70.7) 17 (29.3)	40 (70.2) 17 (29.8)	31 (52.5) 28 (47.5)	33 (61.1) 21 (38.9)
Mean BCVA, ETDRS letter (SD)	77.0 (5.6)	76.2 (6.9)	70.8 (9.11)	73.3 (8.64)	74.4 (7.76)	73.6 (9.23)
Snellen equivalent	20/32	20/32	20/40	20/40	20/32	20/32
Reading speed (wpm), n	47	49	57	56	59	53
Mean (SD)	94.29 (46.13)	107.26 (43.17)	92.09 (43.72)	96.01 (54.01)	96.49 (47.31)	94.09 (42.81)
Retinal sensitivity ^b , n	40	45	53	54	52	49
Mean (SD)	89.15 (76.15)	107.96 (106.77)	62.14 (77.58)	59.02 (62.63)	57.92 (56.94)	50.48 (58.36)

Participants in the Phase 2 trial had greater baseline EZ area loss compared with the Phase 3 studies

BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; EZ, ellipsoid zone; NT-501, revakinagene taroretcel; SD, standard deviation; wpm, words per minute.

aResults reported for the all-treated population, unless otherwise noted. Not available in full pool. BResults reported for the per-protocol population.

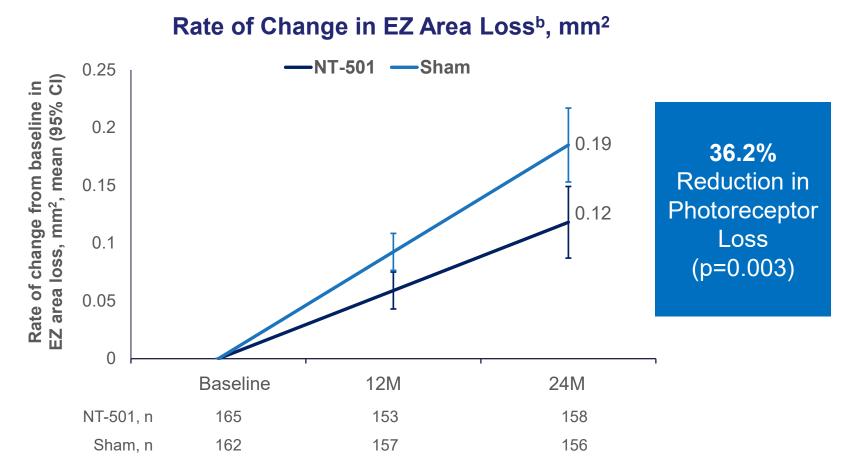
Baseline Demographic and Ocular Characteristics in Pooled Sample^a

	Phase 2 and Phase 3 Pool ^b		
	NT-501 (n=165)	Sham (n=162)	
Demographic characteristics (by participant)			
Female, n (%)	115 (69.7)	108 (66.7)	
Mean age, years (SD)	60.5 (8.4)	60.3 (8.6)	
Race, n (%)	· ,	• ,	
White	147 (89)	141 (87)	
Asian	5 (3)	5 (3)	
Black or African American	2 (1)	3 (2)	
American Indian or Alaska Native	Ò	1 (1)	
Other	11 (7)	12 (7)	
Ethnicity, n (%)			
Hispanic or Latino	7 (4)	10 (6)	
Ocular characteristics (by eye)			
EZ area loss (mm²), n	165	162	
Mean (SD)	0.57 (0.41)	0.57 (0.43)	
EZ area category, n (%)			
<0.5 mm ²	90 (54.5)	93 (57.4)	
≥0.5 mm ²	75 (45.5)	69 (42.6)	
Mean BCVA, ETDRS letter (SD)	73.8 (8.2)	74.2 (8.5)	
Snellen equivalent	20/40	20/32	
Reading speed (wpm), n	163	158	
Mean (SD)	94.32 (45.50)	98.86 (47.24)	
Retinal sensitivity ^c , n			
Mean (SD)	-	-	

BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; EZ, ellipsoid zone; NT-501, revakinagene taroretcel; SD, standard deviation; wpm, words per minute.
^aResults reported for the all-treated population, unless otherwise noted. Not available in full pool. ^bPer the NTMT-02 study design, participants with two eligible study eyes received NT-501 in one eye and sham in the other eye. These 32 participants are included in both columns for the pooled summary. ^cResults reported for the per-protocol population.

NT-501 Demonstrated Greater Preservation of EZ Area Over 2 Years Compared With Sham in All Treated Participants^a

- A 19.3% reduction in photoreceptor loss with NT-501 compared with sham in Phase 2
- A 54.8% reduction in photoreceptor loss with NT-501 compared with sham in Phase 3, Study A
- A 30.6% reduction in photoreceptor loss with NT-501 compared with sham in Phase 3, Study B



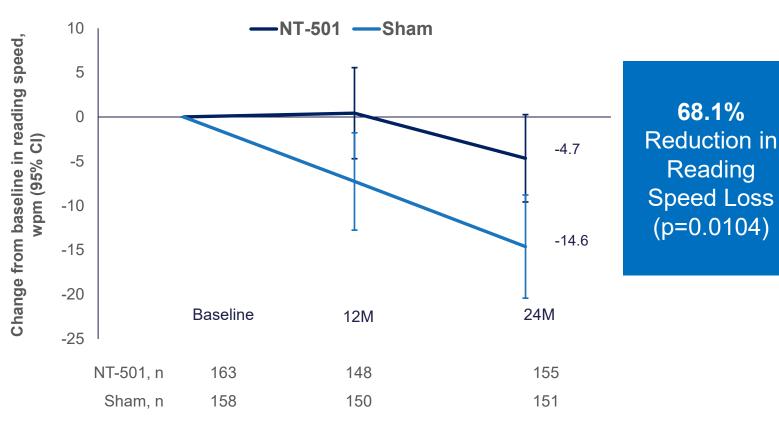
CI. confidence interval: EZ. ellipsoid zone: M. month: NT-501, revakinagene taroretcel

^aPer the NTMT-02 study design, participants with two eligible study eyes received NT-501 in one eye and sham in the other eye. These 32 participants are included in both groups for the pooled analysis, by study eye. Bate of EZ change, difference, and CIs from a repeated measures model. The outcome variable is EZ area assessed longitudinally at baseline, Months 12, 16 (Phase 3 only), 18 (Phase 2 only), 20 (Phase 3 only), and 24. At baseline, EZ area is calculated as the mean area across two independent readers. The model includes treatment group, time (continuous), treatment*time interaction, and participant-specific random intercepts. The difference between treatment groups in rate of EZ change is estimated at Month 12 and Month 24 based on the treatment*time interaction term.

NT-501 Preserved Reading Speed Over 2 Years Compared With Sham in All Treated Participants^a

- A 90.7% reduction in reading speed loss with NT-501 compared with sham in Phase 2
- A 49.3% reduction in reading speed loss with NT-501 compared with sham in Phase 3, Study A
- A 69.1% reduction in reading speed loss with NT-501 compared with sham in Phase 3, Study B

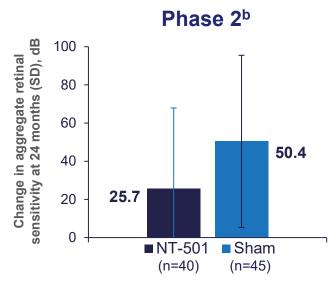




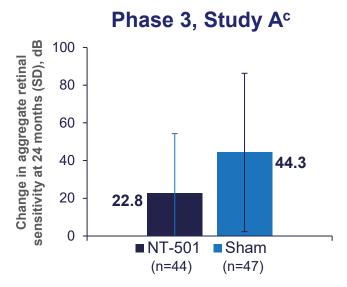
CI, confidence interval; M, month; NT-501, revakinagene taroretcel; SD, standard deviation; wpm, words per minute.

aPer the NTMT-02 study design, participants with two eligible study eyes received NT-501 in one eye and sham in the other eye. These 32 participants are included in both groups for the pooled analysis, by study eye.

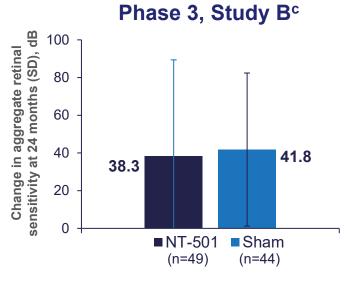
NT-501 Preserved Aggregate Retinal Sensitivity (Microperimetry) Over 2 Years Compared With Sham^a



A **49.0**% reduction in aggregate retinal sensitivity loss with NT-501 compared with sham in Phase 2



A **48.5**% reduction in aggregate retinal sensitivity loss with NT-501 compared with sham in Phase 3, Study A



An **8.4%** reduction in aggregate retinal sensitivity loss with NT-501 compared with sham in Phase 3, Study B

34.8% Reduction in Aggregate Retinal Sensitivity Loss Across the 3 Studiesd

dB, decibel; MAIA, Macular Integrity Assessment; NT-501, revakinagene taroretcel; SD, standard deviation.

^aRetinal sensitivity was measured via MAIA microperimetry. ^bIn the Phase 2 study, retinal sensitivity is reported for the per-protocol population, which included all treated subjects who had no major protocol infractions (defined prior to unmasking of the study). Per the NTMT-02 study design, participants with two eligible study eyes received NT-501 in one eye and sham in the other eye. These 32 participants are included in both groups for the pooled analysis by study eye. ^cIn the Phase 3 studies, the retinal sensitivity per-protocol population is reported, including all treated subjects who had a baseline and Month 24 microperimetry collected according to study protocol. ^dResults per study in the respective per-protocol populations were weighted by the proportion of treated eyes with non-missing data in each study and combined descriptively.

BCVA Remained Stable for NT-501 and Sham Treatment Arms

Mean Change in BCVA, (SD)^a

Phase 2	NT-501	Sham
Baseline	77.0 (5.61)	76.2 (6.85)
12M	-0.9 (4.87)	-1.6 (3.81)
24M	-1.9 (5.85)	-2.0 (4.28)

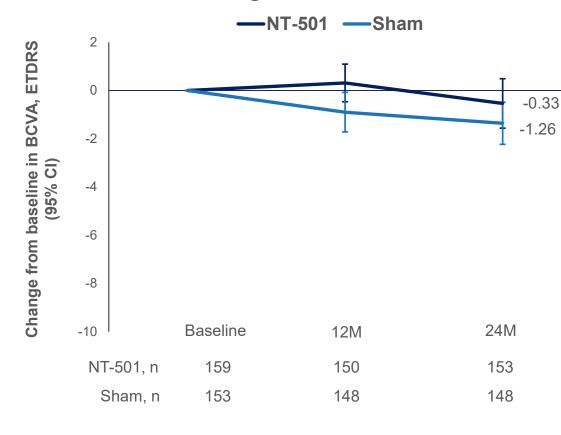
Mean Change in BCVA, (SD)

Phase 3, Study A	NT-501	Sham
Baseline	70.8 (9.11)	73.3 (8.64)
12M	1.0 (4.68)	-0.3 (5.36)
24M	0.2 (7.55)	-0.6 (6.30)

Mean Change in BCVA, (SD)

Phase 3, Study B	NT-501	Sham
Baseline	74.4 (7.76)	73.6 (9.23)
12M	0.6 (5.12)	-0.9 (5.81)
24M	-0.3 (6.01)	-1.7 (4.99)

Change in BCVA, ETDRS



BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; NT-501, revakinagene taroretcel.

^aPer the NTMT-02 study design, participants with two eligible study eyes received NT-501 in one eye and sham in the other eye. These 32 participants are included in both groups by study eye.

Take Home Points

- NT-501 conferred both anatomic and visual function benefits across three randomized, sham-controlled studies
- Relative to sham, NT-501 demonstrated a:
 - preservation of anatomy
 - 36% reduction in photoreceptor loss
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Acknowledgements

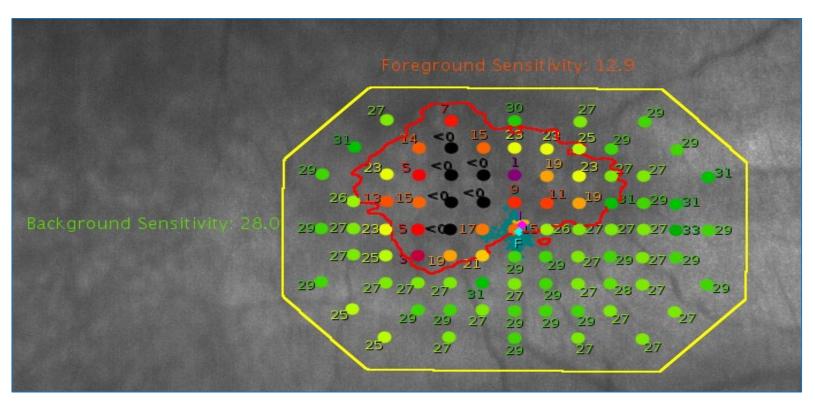
 Writing and editorial assistance was provided Elizabeth McSpiritt, MD, MPH, and Kristin Carlin, BS Pharm, RPh, of Peloton Advantage, LLC, an OPEN Health company, and was funded by Neurotech

Appendix

US-EO-SC-25020008 PROVIDED IN RESPONSE TO AN UNSOLICITED REQUEST

Aggregate Retinal Sensitivity Explained

The boundary in yellow denotes the FOV of the Microperimetry sensitivity map. All calculations are limited to the FOV only, since any extrapolation outside FOV may be subject to error¹



Calculation Overview²

- Aggregate retinal sensitivity is calculated by summing and averaging test point values on microperimetry outside of the scotoma (considered the background retinal sensitivity)
- 2. Levels of retinal sensitivity within the scotoma are subtracted from this mean
- The sum of these differences results in the value known as aggregate sensitivity

MacTel Patient Impact

Visual Symptoms^{1,2}

- Patients can experience¹:
 - Blurred vision
 - Distorted vision
 - Expanding Paracentral blind spots
 - Loss of central vision
- Late disease stage defined by a BCVA of 20/200 or worse³
- Visual acuity is a suboptimal measure of disease burden

Impact on Activities of Daily Living²⁻⁶

- Reduced reading capabilities
 - Baseline reading speed for Phase 3 studies was reduced by 50% of normal
- Limitations on driving
- Loss of depth perception impacting mobility

These microperimetry images demonstrate progression of a new scotoma in a MacTel patient over 4 years



^{1.} Finger RP, et al. *Investigative Ophthalmology & Visual Science*. 2009;50(3):1366-70. 2. Neurotech data on file. 3. Bronstad PM, et al. *JAMA Ophthalmol*. 2013;131(3):303-9. 4. Heeren TFC, et al. *Ophthalmology*. 2020;127(11):1539-48. 5. Lee AG, et al. AAO. Driving Restrictions per State. 2023. 6. Issa PC, et al. *Doc Ophthalmol*. 2009;119(2):133-40.

