

Clinical trial results:

A phase II, open label, non-randomised, single centre, clinical trial of ANX776 in Healthy Volunteers and patients with Glaucoma, Age-Related Macular Degeneration, and Optic Neuritis and Down's Syndrome

Summary

EudraCT number	2016-002531-15	
Trial protocol	GB	
Global end of trial date	07 June 2018	
Results information		
Result version number	v1 (current)	
This version publication date	22 August 2019	
First version publication date	22 August 2019	

Trial information

Trial identification		
Sponsor protocol code	15/0959	
Additional study identifiers		
ISRCTN number	ISRCTN10751859	
ClinicalTrials.gov id (NCT number)	-	
WHO universal trial number (UTN)	-	

Notes:

Sponsors		
Sponsor organisation name	Comprehensive Clinical Trials Unit at UCL	
Sponsor organisation address	Institute of Clinical Trials and Methodology, 90 High Holborn, London, United Kingdom, WC1V 6LJ	
Public contact	CCTU Enquiry Desk, Comprehensive Clinical Trials Unit at UCL, CCTU-enquiries@ucl.ac.uk	
Scientific contact	CCTU Enquiry Desk, Comprehensive Clinical Trials Unit at UCL, CCTU-enquiries@ucl.ac.uk	

Notes:

Paediatric regulatory details		
Is trial part of an agreed paediatric investigation plan (PIP)	No	
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No	
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No	

Notes:

Results analysis stage		
Analysis stage	Final	
Date of interim/final analysis	02 July 2019	
Is this the analysis of the primary completion data?	Yes	
Primary completion date	07 June 2018	
Global end of trial reached?	Yes	
Global end of trial date	07 June 2018	
Was the trial ended prematurely?	No	

General information about the trial

Main objective of the trial:

The primary outcome is the efficacy of the intervention ascertained by the DARC Count, which is the number of apoptosing retinal cells visualised 4 hours after the ANX776 injection in patients with Glaucoma, Age-related Macular Degeneration (AMD), Optic Neuritis (ON), Down's syndrome and in Healthy volunteers.

Protection of trial subjects:

The trial was conducted in compliance with the approved protocol, UCL CCTU Standard Operating Procedures, the Declaration of Helsinki (2008), the principles of Good Clinical Practice (GCP) as laid down by the Commission Directive 2005/28/EC with implementation in national legislation in the UK by Statutory Instrument 2004/1031 and subsequent amendments, the Human Tissue (Quality and Safety for Human Application) Regulations 2007, the UK Data Protection Act, and the National Health Service (NHS) Research Governance Framework for Health and Social Care (RGF).

The following protocol pre-defined reasons for stopping the trial early for a participant were in place: unacceptable toxicity or adverse event; inter-current illness that prevents further treatment; any change in the participant's condition that in the clinician's opinion justifies the discontinuation of the trial.

Participants were under no obligation to enter the trial and they could withdraw consent or assent / withdrawal of consent by the legal representative for Down's syndrome participants at any time during the trial, without having to give a reason, and without their clinical care being affected.

Background therapy: -		
Evidence for comparator: -		
Actual start date of recruitment	08 February 2017	
Long term follow-up planned	No	
Independent data monitoring committee (IDMC) involvement?	Yes	

Notes:

Population of trial subjects

Subjects enrolled per country

Country: Number of subjects enrolled	United Kingdom: 113
Worldwide total number of subjects	113
EEA total number of subjects	113

Notes:

Subjects enrolled per age group		
In utero	0	
Preterm newborn - gestational age < 37 wk	0	
Newborns (0-27 days)	0	
Infants and toddlers (28 days-23 months)	0	
Children (2-11 years)	0	
Adolescents (12-17 years)	0	
Adults (18-64 years)	78	
From 65 to 84 years	31	
85 years and over	4	

Subject disposition

Recruitment

Recruitment details:

Participants for the glaucoma, AMD, optic neuritis and healthy volunteer groups were recruited through designated participant identification centres and REC approved advertisements. Participants in the Down's syndrome arm were recruited from two pre-existing cohorts in the Cambridge Intellectual and Developmental Disabilities Research Group.

Pre-assignment

Screening details:

Eligibility criteria for all groups were those aged 18 years or above, with clear optical media in the studied eye, refractive error not higher than spherical equivalent of 10 D and women of childbearing potential identified as not pregnant. Each subgroup was enrolled into the study in accordance with group-specific inclusion/ exclusion criteria.

Period 1			
Period 1 title	Baseline (overall period)		
Is this the baseline period?	Yes		
Allocation method	Not applicable		
Blinding used	Not blinded		
Arms			
Are arms mutually exclusive?	Yes		
Arm title	Glaucoma		
Arm description:			
Subjects with at least one eye with a dia	agnosis of Glaucoma.		
Arm type	Experimental		
Investigational medicinal product name	ANX776		
Investigational medicinal product code			
Other name			
Pharmaceutical forms	Injection		
Routes of administration	Intravenous use		
Dosage and administration details:			
0.4mg			
Arm title	Age-related Macular Degeneration		
Arm description:			
Subjects with Age-related Macular Dege	neration (AMD).		
Arm type	Experimental		
Investigational medicinal product name	ANX776		
Investigational medicinal product code			
Other name			
Pharmaceutical forms	Injection		
Routes of administration	Intravenous use		
Dosage and administration details:			
0.4mg			
Arm title	Optic Neuritis		
Arm description:	•		
Subjects with clinical diagnosis of Optic including baseline data are based on the	neuritis (ON) affecting one eye within two years. All results e 14 eligible patients.		
Arm type	Experimental		
	<u>'</u>		

EU-CTR publication date: 22 August 2019

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Investigational medicinal product name	ANX776	
Investigational medicinal product code		
Other name		
Pharmaceutical forms	Injection	
Routes of administration	Intravenous use	
Dosage and administration details:		
0.4mg		
Arm title	Down's Syndrome	
Arm description:		
Subjects with confirmation of Down's Sy	ndrome.	
Arm type	Experimental	
Investigational medicinal product name	ANX776	
Investigational medicinal product code		
Other name		
Pharmaceutical forms	Injection	
Routes of administration	Intravenous use	
Dosage and administration details:		
0.4mg		
Arm title	Healthy Volunteers	
Arm description:		
Subjects with no evidence of any eye diseligible patients.	sease. All results including baseline data are based on the 39	
Arm type	Active comparator	
Investigational medicinal product name	ANX776	
Investigational medicinal product code		
Other name		
Pharmaceutical forms	Injection	
Routes of administration	Intravenous use	
Dosage and administration details:		

0.4mg

Number of subjects in period 1	Glaucoma	Age-related Macular Degeneration	Optic Neuritis
Started	20	19	18
Completed	20	19	14
Not completed	0	0	4
Ineligible	-	-	4
Missing baseline spot count	-	-	-

Number of subjects in period 1	Down's Syndrome	Healthy Volunteers
Started	16	40
Completed	15	39
Not completed	1	1
Ineligible	-	1
Missing baseline spot count	1	-



Baseline characteristics

Reporting groups		
Reporting group title	Glaucoma	
Reporting group description:		
Subjects with at least one eye with a diagnosis of Glaucoma.		
Reporting group title Age-related Macular Degeneration		
Reporting group description:		
Subjects with Age-related Macular Degeneration (AMD).		
Reporting group title	Optic Neuritis	

Early AMD & Neovascular AMD	0	1	0
Late AMD	0	3	0
Neovascular AMD	0	12	0
Early AMD	0	2	0
Not applicable	20	0	18
Glaucoma category			
Units: Subjects			
Glaucoma	8	0	0
Glaucoma suspect	12	0	0
Not applicable	0	19	18
Weight			
Units: Kg			
arithmetic mean	81.3	65.8	74.8
standard deviation	± 17.5	± 9.9	± 14.3
ВМІ			
Units: kg/m^2			
arithmetic mean	26.8	24.9	26.1
standard deviation	± 4.6	± 3.1	± 4.7
SBP			
Systolic Blood Pressure		1	
Units: mmHg			
arithmetic mean	140	142	132
standard deviation	± 17.0	± 17.5	± 18.7
DBP		_	
Diastolic Blood Pressure	1	1	
Units: mmHg			
arithmetic mean	77.9	71.4	73.6
standard deviation	± 10.3	± 9.6	± 18.7
Heart rate		-	
Units: beat/min			
arithmetic mean	69.5	64.9	69.0
standard deviation	± 14.0	± 9.7	± 11.3
Respiratory rate			
Units: breaths/min			
arithmetic mean	17.0	16.6	16.9
standard deviation	± 2.6	± 1.4	± 1.9
Autofluorescence spot count			
Units: Baseline spot count			
geometric mean	30.2	67.5	30.8
standard deviation	± 1.62	± 1.71	± 1.39
IOP			
Mean intraocular pressure of eligible eye	es.	1	
Units: mmHg			
arithmetic mean	18.9	13.5	13.9
standard deviation	± 2.6	± 3.5	± 2.0
Corneal pachymetry	-		-
Units: micrometer			
arithmetic mean	555	541	528
standard deviation	± 33.6	± 37.2	± 40.3
VF mean deviation	1		
Visual field mean deviation	1	1	I
Units: dB			
	I	I	I

arithmetic mean	-1.7	0	-4.7
standard deviation	± 2.1	± 0	± 5.7
Visual acuity			
Units: logmar			
arithmetic mean	0.01	0.45	-0.00000001
standard deviation	± 0.08	± 0.9	± 0.28

Reporting group values	Down's Syndrome	Healthy Volunteers	Total
Number of subjects	16	40	113
Age categorical			
Units: Subjects			
Adults (18-64 years)	16	31	73
From 65-84 years	0	8	31
85 years and over	0	0	4
Ineligible participant	0	1	5
Age continuous			
Units: years			
arithmetic mean	39.7	47.6	
standard deviation	± 7.7	± 17.1	-
Gender categorical			
Units: Subjects			
Female	4	21	51
Male	12	18	57
Ineligible participant	0	1	5
Ethnicity			
Units: Subjects			
Caucasian	16	28	85
Black	0	3	7
Asian	0	6	11
Hispanic	0	2	3
Other	0	0	2
Ineligible participant	0	1	5
AMD type			
Units: Subjects			
Early AMD & Late AMD	0	0	1
Early AMD & Neovascular AMD	0	0	1
Late AMD	0	0	3
Neovascular AMD	0	0	12
Early AMD	0	0	2
Not applicable	16	40	94
Glaucoma category			
Units: Subjects			
Glaucoma	0	0	8
Glaucoma suspect	0	0	12
Not applicable	16	40	93
Weight			
Units: Kg			
arithmetic mean	71.8	70.0	
standard deviation	± 18.7	± 11.6	-
ВМІ			
Units: kg/m^2			

arithmetic mean	29.7	24.0	
standard deviation	± 5.7	± 3.3	_
SBP			
Systolic Blood Pressure		1	l
Units: mmHg			
arithmetic mean	119	129	
standard deviation	± 15.3	± 14.5	-
DBP			
Diastolic Blood Pressure	•	•	
Units: mmHg			
arithmetic mean	70.4	75.8	
standard deviation	± 8.9	± 9.0	-
Heart rate			
Units: beat/min			
arithmetic mean	65.3	69.7	
standard deviation	± 11.1	± 9.9	-
Respiratory rate			
Units: breaths/min			
arithmetic mean	17.3	16.7	
standard deviation	± 1.2	± 1.9	-
Autofluorescence spot count			
Units: Baseline spot count			
geometric mean	22.6	30.2	
standard deviation	± 1.32	± 1.34	-
IOP			
Mean intraocular pressure of eligible ey	es.		
Units: mmHg			
arithmetic mean	0	13.6	
standard deviation	± 0	± 2.5	-
Corneal pachymetry			
Units: micrometer			
arithmetic mean	0	530	
standard deviation	± 0	± 25.8	-
VF mean deviation			
Visual field mean deviation	•	•	
Units: dB			
arithmetic mean	0	-0.3	
standard deviation	± 0	± 1.1	-
Visual acuity			
Units: logmar			
arithmetic mean	0	-0.03	
standard deviation	± 0	± 0.1	-

End points

End points reporting groups			
Reporting group title	Glaucoma		
Reporting group description:			
Subjects with at least one eye with a	diagnosis of Glaucoma.		
Reporting group title	Age-related Macular Degeneration		
Reporting group description:			
Subjects with Age-related Macular De	egeneration (AMD).		
Reporting group title	Optic Neuritis		
Reporting group description:			
Subjects with clinical diagnosis of Opincluding baseline data are based on	tic neuritis (ON) affecting one eye within two years. All results the 14 eligible patients.		
Reporting group title	Down's Syndrome		
Reporting group description:			
Subjects with confirmation of Down's	Syndrome.		
Reporting group title	Healthy Volunteers		
Reporting group description:			
Subjects with no evidence of any eye eligible patients.	disease. All results including baseline data are based on the 39		
Subject analysis set title	Per protocol		
Subject analysis set type	Per protocol		
Subject analysis set description:			
Only those participants who met the	eligibility criteria and were not recruited by mistake are included in		

Only those participants who met the eligibility criteria and were not recruited by mistake are included in the analyses.

Primary: Primary outcome

End point title	Primary outcome
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End point description:

Raw DARC counts are taken from imaging of each eligible eye using an automated process built on an algorithm which was developed blind to disease group to ensure an objective measure which is comparable across groups. The cSLO images were background subtracted and standardised before a template matching approach was applied using a 50*50 pixel 'ideal spot' template to identify spot candidates. Once identified, spot candidates will be extracted from each cSLO image and spot morphology recorded.

An exploratory technique was undertaken to validate an algorithm for differentiating 'true' DARC spots amongst candidates. The resulting DARC spots were summed for each eye to yield a 'weighted' DARC count. Analysis will be repeated using the 'weighted' DARC count produced using the algorithm as exploratory outcome.

End point type	Primary	
End point timeframe:		
4 hours post injection.		

End point values	Glaucoma	Age-related Macular Degeneration	Optic Neuritis	Down's Syndrome
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	20[1]	19 ^[2]	14 ^[3]	15 ^[4]
Units: raw DARC counts				
geometric mean (confidence interval	42.0 (38.4 to	76.0 (63.5 to	37.1 (29.2 to	30.0 (26.2 to

95%)	45.9)	91.0)	47.1)	34.2)
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- [1] Analysis based on the 38 eligible eyes.
- [2] Analysis based on the 32 eligible eyes.
- [3] Analysis based on the 22 eligible eyes.
- [4] Analysis based on the 30 eligible eyes.

End point values	Healthy Volunteers		
Subject group type	Reporting group		
Number of subjects analysed	39 ^[5]		
Units: raw DARC counts			
geometric mean (confidence interval 95%)	46.3 (41.7 to 51.4)		

Notes:

[5] - Analysis based on the 75 eligible eyes.

Statistical analyses

Statistical analysis title	Glaucoma and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts betwee injection.	n Glaucoma group and healthy volunteers at 4 hours post		
Comparison groups	Glaucoma v Healthy Volunteers		
Number of subjects included in analysis	59		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	0.91		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	0.75		
upper limit	1.1		

Statistical analysis title	AMD and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts betwee injection.	n AMD participants and Healthy volunteers at 4 hours post		
Comparison groups	Age-related Macular Degeneration v Healthy Volunteers		
Number of subjects included in analysis	58		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	1.1		

Confidence interval		
level	95 %	
sides	2-sided	
lower limit	0.96	
upper limit	1.27	

Statistical analysis title	ON and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts between ON participants and Healthy volunteers at 4 hours post injection.			
Comparison groups	Optic Neuritis v Healthy Volunteers		
Number of subjects included in analysis	53		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	0.93		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	0.85		
upper limit	1.02		

Statistical analysis title	Down's syndrome and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts between Down's syndrome participants and Healthy volunteers at 4 hours post injection.			
Comparison groups	Down's Syndrome v Healthy Volunteers		
Number of subjects included in analysis	54		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	0.92		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	0.87		
upper limit	0.98		

Secondary: Secondary outcome - 2 hours post injection		
End point title	Secondary outcome - 2 hours post injection	

End point description:

Comparison of raw DARC counts between each of the study groups and Healthy volunteers at 2 hours post injection.

End point type	Secondary
End point timeframe:	
2 hours post injection.	

End point values	Glaucoma	Age-related Macular Degeneration	Optic Neuritis	Down's Syndrome
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	20 ^[6]	19 ^[7]	14 ^[8]	15 ^[9]
Units: Raw DARC count				
geometric mean (confidence interval 95%)	41.3 (36.6 to 46.5)	72.9 (59.9 to 88.8)	48.4 (41.4 to 56.5)	29.9 (26.5 to 33.8)

- [6] Analysis based on the 38 eligible eyes.
- [7] Analysis based on the 32 eligible eyes.
- [8] Analysis based on the 22 eligible eyes.
- [9] Analysis based on the 30 eligible eyes.

End point values	Healthy Volunteers		
Subject group type	Reporting group		
Number of subjects analysed	39 ^[10]		
Units: Raw DARC count			
geometric mean (confidence interval 95%)	47.0 (42.6 to 52.0)		

Notes:

[10] - Analysis based on the 75 eligible eyes.

Statistical analyses

Statistical analysis title	Glaucoma and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts between Glaucoma group and healthy volunteers at 2 hours post injection.			
Comparison groups	Glaucoma v Healthy Volunteers		
Number of subjects included in analysis	59		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	0.87		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	0.71		
upper limit	1.06		

Statistical analysis title	AMD and Healthy Volunteers

Statistical analysis description:		
Comparison of raw DARC counts between AMD group and healthy volunteers at 2 hours post injection.		
Comparison groups	Age-related Macular Degeneration v Healthy Volunteers	
Number of subjects included in analysis	58	
Analysis specification	Pre-specified	
Analysis type	superiority	
Method	Mixed models analysis	
Parameter estimate	Geometric Mean Ratio	
Point estimate	1.1	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	0.96	
upper limit	1.27	

Statistical analysis title	ON and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts between ON group and healthy volunteers at 2 hours post injection.			
Comparison groups	Optic Neuritis v Healthy Volunteers		
Number of subjects included in analysis	53		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	1.01		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	0.93		
upper limit	1.09		

Statistical analysis title	Down's syndrome and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts between Down's syndrome group and healthy volunteers at 2 hours post injection.			
Comparison groups	Down's Syndrome v Healthy Volunteers		
Number of subjects included in analysis	54		
Analysis specification	Pre-specified		
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	0.91		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	0.86		
upper limit	0.96		

Secondary: Secondary outcome - 15 minutes post injection		
End point title Secondary outcome - 15 minutes post injection		
End point description:		
Comparison of raw DARC counts between each study group and healthy volunteers at 15 minutes post injection.		
End point type	Secondary	
End point timeframe:		
15 minutes post injection.		

End point values	Glaucoma	Age-related Macular Degeneration	Optic Neuritis	Down's Syndrome
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	20 ^[11]	19 ^[12]	14 ^[13]	15 ^[14]
Units: raw DARC count				
geometric mean (confidence interval 95%)	33.3 (29.9 to 37.1)	67.9 (57.2 to 80.6)	35.9 (30.7 to 42.0)	27.6 (24.8 to 30.7)

- [11] Analysis based on the 38 eligible eyes.
- [12] Analysis based on the 32 eligible eyes.
- [13] Analysis based on the 22 eligible eyes.
- [14] Analysis based on the 30 eligible eyes.

End point values	Healthy Volunteers		
Subject group type	Reporting group		
Number of subjects analysed	39 ^[15]		
Units: raw DARC count			
geometric mean (confidence interval 95%)	32.3 (28.9 to 36.1)		

Notes:

[15] - Analysis based on the 75 eligible eyes.

Statistical analyses

Statistical analysis title	Glaucoma and Healthy Volunteers		
Statistical analysis description:			
Comparison of raw DARC counts between Glaucoma group and healthy volunteers at 15 minutes posinjection.			
Comparison groups	Glaucoma v Healthy Volunteers		
Number of subjects included in analysis 59			
Analysis specification Pre-specified			
Analysis type	superiority		
Method	Mixed models analysis		
Parameter estimate	Geometric Mean Ratio		
Point estimate	1.06		

Confidence interval	
level	95 %
sides	2-sided
lower limit	0.82
upper limit	1.38

Statistical analysis title	AMD and Healthy Volunteers	
Statistical analysis description:		
Comparison of raw DARC counts between AMD group and healthy volunteers at 15 minutes post injection		
Comparison groups	Age-related Macular Degeneration v Healthy Volunteers	
Number of subjects included in analysis	58	
Analysis specification	Pre-specified	
Analysis type	superiority	
Method	Mixed models analysis	
Parameter estimate	Geometric Mean Ratio	
Point estimate	1.27	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	1.09	
upper limit	1.49	

Statistical analysis title	ON and Healthy Volunteers	
Statistical analysis description:		
Comparison of raw DARC counts betwee	n ON group and healthy volunteers at 15 minutes post injection	
Comparison groups	Optic Neuritis v Healthy Volunteers	
Number of subjects included in analysis	53	
Analysis specification	Pre-specified	
Analysis type	superiority	
Method	Mixed models analysis	
Parameter estimate	Geometric Mean Ratio	
Point estimate	1.04	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	0.94	
upper limit	1.15	

Statistical analysis title	Down's syndrome and Healthy Volunteers
Statistical analysis description:	
Comparison of raw DARC counts between Down's syndrome group and healthy volunteers at 15 mi post injection.	
Comparison groups	Down's Syndrome v Healthy Volunteers

Number of subjects included in analysis	54
Analysis specification	Pre-specified
Analysis type	superiority
Method	Mixed models analysis
Parameter estimate	Geometric Mean Ratio
Point estimate	1

lower limit	0.92
upper limit	1.07

Number of subjects included in analysis	5 40	
Analysis specification	Pre-specified	
Analysis type	superiority	
Method	Mixed models analysis	
Parameter estimate	Geometric Mean Ratio	
Point estimate	1.32	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	0.86	
upper limit	2.02	

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Participants (or carer for Down's syndrome participants) were followed up via telephone call 30 days after administration of IMP to check for any symptoms and/or adverse events.

Assessment type Systematic

Dictionary used

Dictionary name	CTCAE
Dictionary version	4.0

Reporting groups

Reporting group title Glaucoma

Reporting group description:

Subjects with at least one eye with a diagnosis of Glaucoma.

Reporting group title Age-related Macular Degeneration

Reporting group description:

Subjects with Age-related Macular Degeneration (AMD).

Reporting group title Optic Neuritis

Reporting group description:

Subjects with clinical diagnosis of Optic neuritis (ON) affecting one eye within two years. All results including baseline data are based on the 14 eligible patients.

Reporting group title Down's Syndrome

Reporting group description:

Subjects with confirmation of Down's Syndrome. All results including baseline data are based on the 15 patients with complete baseline data.

Reporting group title Healthy Volunteers

Reporting group description:

Subjects with no evidence of any eye disease. All results including baseline data are based on the 39 eligible patients.

Serious adverse events	Glaucoma	Age-related Macular Degeneration	Optic Neuritis
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	0 / 18 (0.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0

Serious adverse events	Down's Syndrome	Healthy Volunteers	
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
number of deaths (all causes)	0	0	
number of deaths resulting from adverse events	О	0	

Frequency threshold for reporting non-serious adverse events: 0 %

Non-serious adverse events	Glaucoma	Age-related Macular Degeneration	Optic Neuritis
Total subjects affected by non-serious			
adverse events subjects affected / exposed	2 / 20 (10.00%)	1 / 19 (5.26%)	4 / 18 (22.22%)
Nervous system disorders	2 / 20 (10.00%)	1 / 19 (3.20%)	4 / 10 (22.22%)
Feeling disorientated			
subjects affected / exposed	0 / 20 / 0 000/)	0 / 10 /0 000/)	1 / 10 / 5 50 /)
	0 / 20 (0.00%)	0 / 19 (0.00%)	1 / 18 (5.56%)
occurrences (all)	0	0	1
Headache			
subjects affected / exposed	2 / 20 (10.00%)	0 / 19 (0.00%)	1 / 18 (5.56%)
occurrences (all)	3	0	1
General disorders and administration			
site conditions			
Exhaustion/ Lethargy			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	3 / 18 (16.67%)
occurrences (all)	0	0	3
Rash on canula site			
subjects affected / exposed	0 / 20 /0 000/)	0 / 10 /0 000/)	0 / 10 /0 000/)
	0 / 20 (0.00%)	0 / 19 (0.00%)	0 / 18 (0.00%)
occurrences (all)	0	0	0
Sore throat			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	0 / 18 (0.00%)
occurrences (all)	0	0	0
Ear and labyrinth disorders			
Problems with balance			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	1 / 18 (5.56%)
occurrences (all)			
occurrences (air)	0	0	1
Eye disorders			
Deteriorating eyesight			
subjects affected / exposed	0 / 20 (0.00%)	1 / 19 (5.26%)	0 / 18 (0.00%)
occurrences (all)	0	1	0
Difficulty seeing objects in motion			
subjects affected / exposed	0 / 20 /0 202/	0 / 10 /0 000/	1 / 10 / 5 500
	0 / 20 (0.00%)	0 / 19 (0.00%)	1 / 18 (5.56%)
occurrences (all)	0	0	1
Sensitivity to light			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	0 / 18 (0.00%)
occurrences (all)			
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Tired eyes subjects affected / exposed	0 / 20 (0 000/)	0 / 10 (0 00%)	0 / 10 /0 000/)
Subjects unested / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	0 / 18 (0.00%)
occurrences (all)	0	0	0
Respiratory, thoracic and mediastinal disorders			
Upper respiratory tract infection			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	0 / 18 (0.00%)
occurrences (all)	0	0	0
Psychiatric disorders			
Anxiety			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	1 / 18 (5.56%)
occurrences (all)	0	0	1
Musculoskeletal and connective tissue disorders			
Swollen feet			
subjects affected / exposed	0 / 20 (0.00%)	0 / 19 (0.00%)	1 / 18 (5.56%)
occurrences (all)	0	0	1

Non-serious adverse events	Down's Syndrome	Healthy Volunteers	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	0 / 16 (0.00%)	3 / 40 (7.50%)	
Nervous system disorders			
Feeling disorientated			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
occurrences (all)	0	0	
Headache			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	1	
General disorders and administration site conditions			
Exhaustion/ Lethargy			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
occurrences (all)	0	0	
Rash on canula site			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	1	
Sore throat			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	0	
Ear and labyrinth disorders			

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Problems with balance			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
occurrences (all)	0	0	
Eye disorders			
Deteriorating eyesight			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
occurrences (all)	0	0	
Difficulty seeing objects in motion			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
occurrences (all)	0	0	
Sensitivity to light			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	1	
		1	
Tired eyes			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	1	
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Respiratory, thoracic and mediastinal disorders			
Upper respiratory tract infection			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	1	
		_	
Psychiatric disorders			
Anxiety			
subjects affected / exposed	0 / 16 (0.00%)	1 / 40 (2.50%)	
occurrences (all)	0	1	
Musculoskeletal and connective tissue disorders			
Swollen feet			
subjects affected / exposed	0 / 16 (0.00%)	0 / 40 (0.00%)	
occurrences (all)	0	0	

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
30 November 2016	Protocol updated to v3.0 with the following: removal of the Down's syndrome group and a reduction of the sample size accordingly by 20; general participant exclusion criterion in relation to contraception and pregnancy amended for consistency; inclusion of a table of additional pre-clinical data for DARC; clarifications throughout.
03 January 2017	Extension of the expiry date of the IMP (ANX776) until 30 June 2017 based on new stability testing data. Updated IMPD.
20 April 2017	Protocol updated to v4.0 with the following: re-inclusion of a subgroup of 20 participants with Down's syndrome. This subgroup was originally approved by the MHRA but was removed as the REC requested further scientific and ethical rationale for the inclusion of this subgroup. The rationale is provided in the protocol.
01 June 2017	Details: Protocol updated to v9.0 with the following: REC requested changes in relation to the inclusion of the participants with Down's syndrome subgroup; general inclusion criteria edited to remove requirement for best corrected visual acuity equal to 6/24 or better at qualification and to state women of childbearing potential must agree to a pregnancy test instead of consent; removal of the exclusion criteria for age-related macular degeneration subgroup relating to the presence of ocular conditions with increased risk of choroidal neovascularisation. Only those with choroidal neovascularisation will be excluded; removal of the single exclusion criteria for the optic neuritis subgroup; clarifications throughout.

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported