

A randomised, double-masked phase III study of the efficacy and safety of Avastin® (bevacizumab) intravitreal injections compared to best available therapy in subjects with choroidal neovascularisation secondary to age-related macular degeneration

Submission date 27/10/2006	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 29/11/2006	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 10/05/2012	Condition category Eye Diseases	☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Clinical Trials Information System (CTIS)
2006-001544-31

Protocol serial number

Study information

Scientific Title

Acronym

ABC

Study objectives

To determine the efficacy and safety of intravitreal Avastin® (bevacizumab) intravitreal injections compared to usual care (verteporfin photodynamic therapy, Macugen® or sham) in treating choroidal neovascularisation (CNV) due to age-related macular degeneration (AMD).

Please note that, as of 24/09/2008, the anticipated end date of this trial has been updated from 01/12/2007 to 05/12/2008.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Moorfields and Whittington Local Research Ethics Committee, date of approval 14 July 2006 (ref: 06/Q0504/46).

Added as of 06/10/2008: An additional approval has been granted from the Guy's Research Ethics Committee on the 5th April 2007 to allow recruitment at additional trial sites within the UK (ref: 07/Q0704/20).

Primary study design

Interventional

Study design

Prospective, double masked, randomised, controlled trial

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Choroidal neovascularisation (CNV) secondary to age-related macular degeneration (AMD)

Interventions

1. Intravitreal Avastin® (bevacizumab) with placebo PDT where necessary to maintain masking
2. Verteporfin PDT with sham intravitreal injection
3. Intravitreal Macugen® (pegaptanib sodium)
4. Sham intravitreal injection

Intervention Type

Drug

Phase

Phase III

Drug/device/biological/vaccine name(s)

Avastin® (bevacizumab), verteporfin, Macugen® (pegaptanib sodium)

Primary outcome(s)

The proportion of subjects who gain 15 letters (3 lines) or more of best corrected visual acuity score at the 12 month timepoint compared with baseline, based on the ETDRS visual acuity chart and assessment at a starting distance of 4 m.

Key secondary outcome(s)

Secondary outcome measures amended as of 24/09/2008:

1. The proportion of subjects who lose fewer than 15 letters (approximately 3 lines), the proportion who have gained 5 letters or more (1 line), and the proportion who have gained 10 letters or more (2 lines) in the best corrected visual acuity score at 12 months compared with baseline, based on the ETDRS visual acuity chart and assessment at a starting distance of 4 m
2. The proportion of patients who meet these visual criteria at 6 months
3. To evaluate the safety and tolerability of intravitreal injections of Avastin® given every 6 weeks
4. Mean change in central OCT thickness
5. If the study is continued after the analysis of data at 12 month timepoint, after the second treatment year of the study, the same objectives will be analysed on unmasked data

Previous secondary outcome measures:

1. The proportion of subjects who lose fewer than 15 letters (approximately three lines) and the proportion who have gained five letters or more (one line) in the best corrected visual acuity score at 12 months compared with baseline, based on the ETDRS visual acuity chart and assessment at a starting distance of 4 m
2. The proportion of patients who meet these visual criteria at six months
3. To evaluate the safety and tolerability of intravitreal injections of Avastin® given every six weeks
4. Mean change in central OCT thickness
5. If study is continued after the analysis of data at 12 month time point then after the second treatment year of the study, the same objectives will be analysed on unmasked data

Completion date

05/12/2008

Eligibility

Key inclusion criteria

1. Aged over 50 years
2. Primary or subfoveal CNV lesions secondary to AMD in the study eye
3. An occult lesion must have presumed evidence of disease progression, defined as one or more of the following:
 - a. deterioration of best corrected vision by one Snellen line or five letters on Early Treatment Diabetic Retinopathy Study (ETDRS) chart within the past three months due to progression of CNV
 - b. presence of sub- or intra-retinal blood
 - c. growth of lesion size on the angiogram by more than 10% in the past three months

AND evidence of increased central macular thickness on Optical Coherence Tomography (OCT)

4. Area of sub-retinal blood less than 50% of total lesion area

5. Best corrected visual acuity, using ETDRS charts, of 20/40 (6/12) to 20/320 (6/96) Snellen equivalent in the study eye

6. Total lesion size less than 12 disc areas including all contiguous lesion components

7. Area of fibrosis less than 25% of the total lesion area

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

Ocular:

1. Sub-retinal haemorrhage in the study eye that involves the centre of the fovea, if the size of the haemorrhage is either more than 50% of the total lesion area or more than one disc areas in size

2. Subfoveal fibrosis or atrophy in the study eye

3. CNV in either eye due to causes other than AMD, such as ocular histoplasmosis, trauma, or pathologic myopia

4. Retinal pigment epithelial tear involving the macula in the study eye

5. Prior treatment with external-beam radiation therapy, Transpupillary Thermal Therapy (TTT), thermal laser, or Photo-Dynamic Therapy (PDT) in the study eye or history of submacular surgery or other surgical intervention for AMD in the study eye

6. PDT in the non-study eye less than seven days preceding day zero

7. Previous participation in a clinical trial (for either eye) involving anti-angiogenic drugs (Macugen®, Avastin®, anecortave acetate, protein kinase C inhibitors, etc.)

8. Previous intravitreal drug delivery (e.g., intravitreal corticosteroid injection or device implantation) in the study eye

9. Amblyopia, infective conjunctivitis or scleritis, glaucoma, corneal disease, inflammatory eye disease

10. Diabetic retinopathy more than mild nonproliferative in the fellow eye as defined by the ETDRS or any diabetic maculopathy

11. Intraocular surgery (including cataract surgery) in the study eye within two months preceding day zero

12. Aphakia or absence of the posterior capsule in the study eye

13. Previous violation of the posterior capsule in the study eye is also excluded unless it occurred as a result of Yttrium Aluminum Garnet (YAG) posterior capsulotomy in association with prior, posterior chamber intraocular lens implantation

14. Spherical equivalent of the refractive error in the study eye demonstrating more than -8 diopters of myopia or signs of pathologic myopia with a refraction of 4-8 diopters

15. For subjects who have undergone prior refractive or cataract surgery in the study eye, the preoperative refractive error in the study eye cannot exceed -8 diopters of myopia

Systemic:

1. Recent stroke (last six months), or cardiac event (last six months), uncontrolled angina or uncontrolled hypertension
2. Current treatment for active systemic infection
3. Unable to give informed consent
4. Anticoagulant treatment (anti-platelet drugs allowed)
5. Fluorescein or Indo-Cyanine Green (ICG) allergy
6. Pre-menopausal women not using adequate contraception; the following are considered effective means of contraception: surgical sterilisation, use of oral contraceptives, barrier contraception with either a condom or diaphragm in conjunction with spermicidal gel, an Intra-Uterine Device (IUD), or contraceptive hormone implant or patch

Date of first enrolment

11/08/2006

Date of final enrolment

05/12/2008

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Moorfields Eye Hospital NHS Foundation Trust

London

United Kingdom

EC1V 2PD

Sponsor information

Organisation

Moorfields Eye Hospital NHS Foundation Trust (UK)

ROR

<https://ror.org/03zaddr67>

Funder(s)

Funder type

Government

Funder Name

The Special Trustees of Moorfields Eye Hospital NHS Foundation Trust (UK)

Results and Publications

Individual participant data (IPD) sharing plan**IPD sharing plan summary**

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	09/06/2010		Yes	No
Results article	results	11/05/2011		Yes	No
Results article	results	09/03/2012		Yes	No