This appendix has been provided by the authors to give readers additional information about their work.

SUPPLEMENTARY APPENDIX TO:

Effect of Fenofibrate on Progression of Diabetic Retinopathy

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Information regarding Scotland's Diabetic Eye Screening programme

The National Health Service in Scotland, United Kingdom, offers population screening to adults for abdominal aortic aneurysms, bowel cancer, breast cancer, cervical cancer, and diabetic retinopathy. The Diabetic Eye Screening (DES) programme was initiated in 2003. Diabetic eye screening (i.e. retinal screening) is offered to people aged 12 and over with diabetes. The frequency of invitation is based on an individual's recent retinal screening results (see Table S1). At each retinal screening visit, a single 45-degree macula-centered color photograph of each eye is captured by a trained imager with a non-mydriatic camera through an undilated pupil. If the imager considers an image to be of insufficient quality for grading, they then apply mydriatic drops and capture additional images. If it is still not possible to capture gradable images, then the individual is referred for slit lamp examination (and may remain under slit lamp review within the DES programme in the longer term). Image quality is graded (from best to worst) as - nerve fibre layer visible, nerve fibre layer not visible, small vessels blurred, major arcade vessels just blurred, image not gradable/technical failure.

Retinal images are graded by trained professionals in ten centres according to the NHS Scotland Diabetic Eye Screening scheme (see Table S1). Images undergo three levels of grading - Level 1 grading (typically conducted using image analysis software) to identify images with retinal disease, Level 2 grading (by junior graders) to identify images with potentially sight-threatening disease and Level 3 (by senior graders) to make the final grading decision regarding which patients require specialist referral or further investigation. Graders participate in an external quality assurance exercise in both Spring and Fall annually. Individuals with R3 (referable background retinopathy i.e. moderately severe or severe non-proliferative retinopathy) or R4 (proliferative retinopathy) disease are referred for specialist ophthalmological review. Until approximately early 2022, all individuals with M2 (referable maculopathy i.e. blot

hemorrhage or exudate within 1 disc diameter distance of the foveal centre) disease were also referred for specialist review. Since then there has been a phased introduction of a new management pathway whereby those with M2 disease and good visual acuity remain within the screening programme (and are reviewed every six months) whereas those with M2 disease and poor visual acuity (6/9.5 or worse) have optical coherence tomography (OCT) imaging performed every six months followed by specialist ophthalmological referral if there is evidence of significant central macular edema.

A randomised placebo-controlled trial of fenofibrate to prevent progression of non-proliferative retinopathy in diabetes.

Adjudication Charter and Outcome Definitions

EDMS #6781 Version 1.3

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1. Overview

The purpose of this document is to provide definitions of primary, secondary and tertiary outcomes for the LENS trial, and to outline the roles, responsibilities and procedures in regards to the verification and adjudication of these outcomes.

There are two main methods to identify clinical outcomes such as eye events and cardiovascular outcomes, namely 6-monthly telephone follow-up assessments with participants during which they are asked whether events of interest have occurred since the previous contact (in which case an adverse event [AE] is recorded), medical records follow-up where a participant cannot be contacted or has withdrawn consent for direct contact, and also linkage to NHS Scotland datasets.

LENS will use two complementary approaches to handle potential clinical outcomes: (i) verification (ii) adjudication. Verification is the process of establishing the validity of an adverse event report, whereas adjudication is the formal process of phenotyping adverse events from supporting documentation, against a pre-defined standard. A distinction is made with regards to the handling of events which are to be verified and those which are to be adjudicated (see Sections 2 and 3).

As stated in the protocol, 'diabetic retinopathy' (DR) should be considered to refer to both diabetic retinopathy and diabetic maculopathy unless otherwise specified.

2. Verification of events

The following types of events will undergo verification in the web-based management system, *Endeavour:*

- cardiovascular events
 - myocardial infarction
 - stroke
 - coronary artery revascularizations
 - peripheral artery revascularizations
- lower limb amputations
- deaths

When one of these event types is first reported, it is given a status of "unconfirmed." Clinical users from the Local Clinical Centre [LCC] or Central Coordinating Office [CCO] will then use information available to them (e.g. medical records) to assess whether the reported AE occurred. Unlike adjudicated events, LCCs will not be expected to send any documentation about verified AEs to the CCO (though this can be done where assistance is

sought by the LCC). Users will review verification events based on the available information, and assign the following general statuses to them:

- 'Confirmed in the medical notes'
- 'Unable to confirm in the medical notes'
- Refuted

The motivation to verify, but not adjudicate, these clinical AEs is supported by the fact that large cardiovascular trials (FIELD and ACCORD-Lipid) have already provided detailed evaluations (with adjudication of cardiovascular events and deaths) of the effect of fenofibrate therapy on such outcomes.

3. Adjudication of events

According to the LENS protocol, data regarding the progression to referable eye disease shall mostly be obtained through linkage to the NHS Scotland registries, however a small number of additional events are to be adjudicated. These include:

- Eye events reported as AEs:
 - Medical eye procedures for DR:
 - Laser treatment (i.e. photocoagulation)
 - Intra-vitreal injection
 - Vitrectomy
 - Vitreous haemorrhage
 - Macular oedema
- SSARs¹

3.1 Roles

Event adjudication is to be carried out by medically qualified staff working within the University of Oxford's Clinical Trial Service Unit. Adjudication staff are to be given appropriate training, covering relevant aspects of the Trial Protocol, the procedures and IT systems relating to data capture and adjudication, and the specific issues relating to those aspects of the study which they are adjudicating.

3.2 Responsibilities

Adjudication staff are responsible for:

- Reading and understanding the contents of the LENS protocol, relevant SOPs, and the Outcome Definitions and Adjudication Charter
- Thorough review of all supporting documentation (henceforth referred to as "Event Data Packages") after receipt of complete packages at the CCO
- Completion of the adjudication process within the Endeavour system

¹ Handling of SSARs is discussed in EDMS #5441 Reporting of Adverse Events and Procedures for Un-blinding Treatment Allocation for the LENS Trial

 Escalating any difficult adjudication cases to a senior adjudicator (see section 3.3.1)

3.3 Methods

3.3.1 General approach to adjudication

All Event Data Packages will be redacted at the LCC to remove references to identifiers and results of lipid blood tests (though it is unexpected for lipid blood results to be included in ophthalmology letters and reports). The unique LENS participant ID and AE ID should be added to each page of the Event Data Package. All adjudicators will be blinded to randomized treatment allocation. Only one adjudicator will execute the adjudication procedure for each event. Where assistance is required, the adjudicator will be able to discuss the event with a senior adjudicator to reach resolution on the event by consensus. Where the adjudicator considers there to be any risk of unblinding based on the information provided, the adjudicator will cease adjudication of that event, liaise with the LCC to provide appropriate documentation (e.g. with additional redaction) and will then transfer responsibility for adjudicating the relevant event to an alternative adjudicator.

This approach to adjudication has been applied in various cardiovascular trials in CTSU to good effect.

Definitions of the outcomes to be adjudicated are given in Section 4. In all cases, clinical judgement should be used; some cases may be complex and may not neatly fit the criteria set out. Furthermore, within a large-scale multicentre national study, some results may not be available, either because they were never measured by the physician responsible for the participant's care at the time, or because the test was not available locally, or because the results can no longer be found. In such cases, the most appropriate preferred term (based on the currently available information) should be selected.

3.3.2 Sources of information

When adjudicating potential outcome measures, adjudicators should take into account all available sources of information. These may include:

- Study Forms: including study visits and AE reports in *Endeavour*
- Supporting Documentation: documentation provided to the CCO by the LCCs as part of the adjudication process
- Routine NHS data sources: information available from NHS Scotland registries, where available (in particular NHS Scotland Diabetic Eye Screening [DES] program data)
- Study 'Contact Log': the Contact Log section of Endeavour contains correspondence relating to the study participants

3.3.3 Invalid and duplicate events

An AE report should only be judged to be invalid if the event never occurred for this participant or if it does not meet the definition of an AE. *Endeavour* allows AEs to be marked as invalid where required. Duplicate reports of the same event may be identified during the adjudication process and the duplicate(s) will be marked as invalid.

3.3.4 Handling of dates

For those events that require adjudication, the event start date is to be checked and amended in line with the available supporting documentation. If the date of event is unclear, additional information need only be sought if it would be likely to determine the pre- / post-randomization status.

The event date must never be after the date that the AE was initially reported and this will be enforced by an automated check within the *Endeavour* system.

Particular care should be taken if editing the event date would change the randomization status at the time of the event (i.e. moving the date from after to before the date of randomization or vice versa).

3.3.5 Data items available for adjudication

The following aspects of any AE report should be reviewed (and edited where appropriate) as part of the adjudication process:

| Field | Options |
|-----------------|---|
| Source of event | Participant Relative / friend Study nurse Study doctor Other doctor Other nurse Medical records Data linkage |
| Valid | YesNo |
| Description | MedDRA preferred term (or extra term) |
| Start date | Event start date |
| Death date* | Date of death (fatal events only) |
| End date | Date event ended (if recovered) |

| Field | Options |
|---|--|
| Serious | YesNo |
| Reason for seriousness† | Death* (fatal events only) Life-threatening Hospitalization Disabling Congenital anomaly in offspring Other important medical condition |
| Location [†] | Place: freetextTown/city: freetextName of doctor: freetext |
| Nights in hospital† | Number of nights in hospital |
| Related | YesNo |
| Outcome | Recovered Recovering Not recovered Death* (fatal outcomes only) Unknown |
| Adjudication status [‡] * only relevant for fatal SAEs | Needs documentation to be sent Documentation has been sent (1) Documentation received at CCO (1) Confirmed in medical notes as entered (2) Confirmed in medical notes, edited (2) Unable to confirm in medical notes (2) Refuted (2) Confirmed in medical notes as entered, retinopathy (2) Confirmed in medical notes as entered, maculopathy (2) Confirmed in medical notes as entered, not due to diabetes (2) |

^{*} only relevant for fatal SAEs
† only relevant for SAEs
‡ statuses and transitions are described in section 3.3.6.2; (1) indicates statuses relevant to administrative tasks, (2) indicates statuses set by adjudicators

3.3.6 Adequacy of information

3.3.6.1 General rules

For an Eye event to be considered as fully assessed, the following data items must be confirmed:

- Event start date (in particular, whether pre-/post-randomization)
- Event description (preferred term or extra term code)
- Adjudication status (confirmed, unable to confirm, refuted)

3.3.6.2 Recording Adjudication status

Adjudication Status is stored in the study database for relevant reported AEs as follows:

| Adjudication Status | Status Set by | Description | Action |
|--|---|---|--------------------------------------|
| Needs documentation to be sent | Initial value set by <i>Endeavour</i> | No adjudication conducted. | LCC to send documents |
| Documentation has been sent* | LCC user or CCO user | Package sent to CCO | CCO to confirm receipt |
| Documentation received at CCO* | CCO user | Package received at CCO | Ready to adjudicate |
| Confirmed in medical notes as entered†¶ | Adjudicator | Adjudicator confirmed event occurred as entered; for retinal laser therapy and intra-vitreal injection AEs, this status will be used when treatment was required for diabetic retinopathy but it is unclear whether this was primarily for retinal disease or macular disease | Adjudicated, no further action |
| Confirmed in medical notes, edited ^{†¶} | Adjudicator | Adjudicator confirms an eye event occurred; preferred term edited to other eye event | Adjudicated, no further action |
| Unable to confirm in medical notes†¶ | Adjudicator | This remains the preferred term for the event; all potential sources of information have been exhausted without being able to confirm or refute key data items for the event | None; or further data sought |

| Refuted [†] | Adjudicator | Available information confirms that the reported event did not occur | None |
|--|-------------|--|--------------------------------------|
| Confirmed in medical notes as entered, retinopathy ^{†¶} | Adjudicator | Adjudicator confirmed event occurred as entered; this status will be used for retinal laser therapy and intra-vitreal injection AEs, when treatment was required for retinal (not macular) disease | Adjudicated, no further action |
| Confirmed in medical notes as entered, maculopathy ^{†¶} | Adjudicator | Adjudicator confirmed event occurred as entered; this status will be used for retinal laser therapy and intra-vitreal injection AEs, when treatment was required for macular (not retinal) disease | Adjudicated, no further action |
| Confirmed in medical notes as entered, not due to diabetes†§ | Adjudicator | Adjudicator confirmed event occurred as entered; however, underlying cause of the condition was not diabetic retinopathy | Adjudicated, no further action |

^{*} administrative tasks

3.4IT and coding systems

All adjudication will be performed using the AE module of the LENS webbased IT system *Endeavour*.

All event descriptions are to be coded using preferred terms from MedDRA version 14.0 (to which a small number of additional terms relevant to the trial have been added). Adjudicators should use the available supporting information to choose the most suitable preferred term available.

4. Study Outcomes and Definitions

This section describes LENS trial outcomes and the definitions of these outcomes. With the exception of health economic analyses, these definitions were finalised (in version 1.0 of this document) prior to review of any

[†] adjudication tasks

[¶] AEs adjudicated to these statuses will count towards pre-specified eye outcomes § AEs adjudicated to this status will not count towards pre-specified eye outcomes when adjudged to not be caused by diabetic retinopathy according to the best interpretation of the adjudicator (but will be reported elsewhere [e.g. results table footnote])

unblinded Eye event data by the Data Monitoring Committee and prior to receipt of any NHS linkage data.

The approach to statistical analyses of these outcomes will be described separately in the LENS Statistical Analysis Plan and is not considered here.

4.1 LENS trial outcomes

Pre-specified outcomes, as listed in the LENS protocol, are provided below.

4.1.1 Primary outcome

The composite of:

- Progression from observable DR to referable DR, or
- Treatment for DR with:
 - Retinal laser therapy
 - Vitrectomy
 - o Intra-vitreal injection of medication

4.1.2 Secondary outcomes

- The individual components of the composite primary outcome, i.e.:
 - Progression of DR to referable DR
 - Retinal laser therapy for DR
 - Vitrectomy for DR
 - Intra-vitreal injection for DR
- Composite of treatments (i.e. retinal laser, vitrectomy or intra-vitreal injection) for DR
- Any progression of DR across the DES grading scale
- Visual acuity
- The development of hard exudates or blot haemorrhage within 1 disc diameter of the macula
- The development of macular oedema
- Visual function
- Quality of life
- Total cost to the health service (further detail not included here)
- Cost-effectiveness (further detail not included here)

4.1.3 Tertiary outcomes

- Urine albumin: creatinine ratio
- Composite of major cardiovascular events (myocardial infarction, stroke, coronary artery revascularization and peripheral artery revascularisation)
- Composite of non traumatic lower limb amputation (minor and major)

4.2 Definitions of Outcomes

4.2.1 Progression from observable DR to referable DR

It is expected that the vast majority of progression to referable DR outcomes will be identified by linkage to NHS Scotland registries. In addition, referable disease identified during clinical examination, namely vitreous haemorrhage, macular oedema, pre-proliferative and/or proliferative retinopathy, will be recorded as AEs and will also be counted towards relevant outcomes (after adjudication where required). Relevant outcomes will be reported in terms of numbers of participants, not individual eyes.

Referable retinopathy or maculopathy from NHS data linkage: referable DR in the context of the LENS trial is defined according to the NHS Scotland retinal screening grading scheme as 'R3' or 'R4' or 'M2' in at least one eye (see Appendix 1: NHS Scotland DES Collaborative grading system). Not adjudicated.

Vitreous haemorrhage from AE report: unrefuted AE of vitreous haemorrhage (exclusion: vitreous haemorrhage not due to DR). Adjudicated.

Macular oedema from AE report: unrefuted AE of macular oedema; macular oedema refers to accumulation of fluid in the macular region with retinal thickening but does not mandate that a certain minimum threshold thickness is exceeded (exclusion: macular oedema not due to DR). Adjudicated.

Macular oedema from OCT imaging NHS Scotland DES data linkage: during LENS, NHS Scotland is introducing routine OCT imaging for patients with M2 maculopathy and poor visual acuity in a phased manner. Any report of macular oedema (namely referable central oedema, observable central oedema, observable inner ring oedema, observable outer ring oedema) will be considered as a macular oedema outcome. Not adjudicated.

Pre-proliferative retinopathy from AE report: unrefuted AE of pre-proliferative retinopathy (exclusion: pre-proliferative retinopathy not due to DR). Not adjudicated – these AEs are created by CCO clinicians during adjudication of other eye events.

Proliferative retinopathy from AE report: unrefuted AE of proliferative retinopathy (exclusion: proliferative retinopathy not due to DR). Not adjudicated – these AEs are created by CCO clinicians during adjudication of other eye events.

4.2.2 Treatment for DR

Retinal laser therapy*: unrefuted AE of retinal laser (i.e. photocoagulation) (exclusions: laser not for retinal disease [e.g. capsular opacity, iridotomy] and retinal laser not for DR [e.g. retinal breaks, other ocular disease]). Adjudicated.

Vitrectomy: unrefuted AE of vitrectomy (exclusion: vitrectomy not for DR). Adjudicated.

*Intra-vitreal injection**: unrefuted AE of intra-vitreal injection (exclusion: intra-vitreal injection not for DR). Adjudicated.

*where possible, we will differentiate between treatments for (i) proliferative diabetic retinopathy (ii) macular oedema – see Section 3.3.6.2

4.2.3 Any progression of DR across the DES grading scale

Baseline imaging will be considered to be NHS Scotland retinal screening results from imaging conducted most recently prior to the date of randomization (see Appendix 1: NHS Scotland DES Collaborative grading system). For this outcome, only eyes recorded as R0, R1 or R2 (for retinopathy) and M0 or M1 (for maculopathy) at baseline will be considered i.e. eyes with any other baseline gradings will be excluded. This outcome will be reported in terms of numbers of participants, not individual eyes.

Progression will be considered as a composite of any ≥1 step in R or M grade as follows:

- R0 at baseline: to any of R1, R2, R3, R4, vitreous haemorrhage, macular oedema or any DR treatment
- R1 at baseline: to any of R2, R3, R4, vitreous haemorrhage, macular oedema or any DR treatment
- R2 at baseline: to any of R3, R4, vitreous haemorrhage, macular oedema or any DR treatment
- M0 at baseline: to any of M1, M2, vitreous haemorrhage, macular oedema or any DR treatment
- M1 at baseline: to any of M2, vitreous haemorrhage, macular oedema or any DR treatment

After randomization, regression followed by progression (e.g. R1 at baseline, followed by R0 and later R1 in that eye) to the initial baseline level will not be considered to represent progression unless the subsequent grading is worse than the baseline grading.

4.2.4 Visual acuity

LogMAR or Snellen measurement of visual acuity, as collected by data linkage from NHS Scotland registry data at retinal screening visits

4.2.5 The development of hard exudates or blot haemorrhage within 1 disc diameter of the foveal centre

This represents 'M2' in the DES grading scheme. See Appendix 1: NHS Scotland DES Collaborative grading system.

4.2.6 The development of macular oedema

Macular oedema will consist of AEs of macular oedema plus any cases identified from NHS data linkage; see section 4.2.1

4.2.7 Visual function

Visual function will be defined by the composite score derived from the VFQ25. VFQ data are collected at the screening visit, after two years and at the end of the study.

4.2.8 Quality of life

Quality of life will be defined by EQ-5D questionnaire composite scores. EQ-5D data are collected at the screening visit, after two years and at the end of the study.

4.2.9 Urine albumin: creatinine ratio

Urine albumin: creatinine ratio (UACR) results. Urine is collected for measurement of UACR at LENS screening visits wherever possible. Thereafter, LENS does not collect further urine specimens but participants will typically have regular spot urine collections for UACR as part of routine care. Data from the baseline and routine care UACRs will be sought via linkage to NHS Scotland registries.

4.2.10 Major cardiovascular events

Cardiovascular events will be verified (not adjudicated) as described in section 2.

This outcome is a composite of myocardial infarction, stroke, coronary artery revascularisation and peripheral artery revascularisation. Unrefuted relevant AEs will be counted towards this outcome.

Myocardial infarction: AEs recorded as myocardial infarction and acute coronary syndrome (exclusion: unstable angina)

Stroke: ischaemic stroke AEs, haemorrhagic stroke AEs and stroke AEs of unclear etiology (exclusions: transient ischaemic attack, amaurosis fugax, ruptured cerebral aneurysm, subdural haematoma, subarachnoid haemorrhage)

Coronary artery revascularisation: AEs of angioplasty, stent and thrombectomy procedures of the coronary arteries; plus coronary artery bypass graft

Peripheral artery revascularisation: AEs of angioplasty, stent, endarterectomy and bypass procedures of the carotid, subclavian, iliac, limb and renal arteries, and of the aorta; plus aortic aneurysm repair

4.2.11 Lower limb amputation

This outcome is a composite of non-traumatic major and minor lower limb amputations. Unrefuted relevant AEs will be counted towards this outcome.

Minor lower limb amputation: AE of amputation distal to the ankle (i.e. foot and toe)

Major lower limb amputation: AE of amputation through or proximal to the ankle (i.e. leg)

5. Appendix 1: NHS Scotland DES Collaborative grading system

| Grading | Description | | | | |
|-------------|---|--|--|--|--|
| RETINOPATHY | | | | | |
| R0 | 'No retinopathy' | | | | |
| | 'Background DR – mild' | | | | |
| | The presence of at least one of any of the following features | | | | |
| | anywhere | | | | |
| D4 | dot haemorrhages | | | | |
| R1 | microaneurysms | | | | |
| | hard exudates | | | | |
| | cotton wool spots | | | | |
| | blot haemorrhages | | | | |
| | superficial/ flame shaped haemorrhages | | | | |
| | 'Background DR – observable' | | | | |
| R2 | Four or more blot haemorrhages in one hemi-field only (Inferior and | | | | |
| | superior hemi-fields delineated by a line passing through the centre of | | | | |
| | the fovea and optic disc) | | | | |
| | 'Background DR – referable' | | | | |
| D 0 | Any of the following features: | | | | |
| R3 | Four or more blot haemorrhages in both inferior and | | | | |
| | superior hemi-fields | | | | |
| | Venous beading | | | | |
| | IRMA 'Proliferative DR' | | | | |
| R4 | Any of the following features: | | | | |
| K4 | Active new vessels | | | | |
| | | | | | |
| R6 | Vitreous haemorrhage 'Not adequately visualised' | | | | |
| IXO | Retina not sufficiently visible for assessment | | | | |
| | Treating flot sufficiently visible for assessment | | | | |
| MACULOP | ATHY | | | | |
| | 'No maculopathy' | | | | |
| MO | No features ≤2 disc diameters from the centre of the fovea sufficient | | | | |
| | to qualify for M1 or M2 | | | | |
| | 'Observable maculopathy' | | | | |
| M1 | Lesions as specified below within a radius of >1 but ≤2 disc diameters | | | | |
| IVII | the centre of the fovea: | | | | |
| | Any hard exudates | | | | |
| | 'Referable maculopathy' | | | | |
| | Lesions as specified below within a radius of ≤1 disc diameter of the | | | | |
| M2 | centre of the fovea: | | | | |
| | Any blot haemorrhages | | | | |
| | Any hard exudates | | | | |

Trial treatment mailing error

Each LENS trial treatment pack, and the bottles of trial treatment it contained, included a unique pack identifier number (pack ID). Wherever possible, these pack IDs were checked with participants at randomization (in person) and follow up (telephone) assessments to confirm that the correct packs of trial treatment had been mailed to them (with a new pack of randomized trial treatment being mailed to a participant once every 180 days). During a routine follow up telephone assessment in late 2022, it was ascertained that a participant had received a pack of trial treatment with an incorrect pack ID (i.e. a pack ID for trial treatment not assigned to them, but assigned to another participant). Urgent investigation confirmed that there had been an inappropriate reordering of data in 3 mailing order spreadsheets by the drug distribution depot on 2 consecutive days. This error temporarily affected 28 participants in total, all of whom were immediately contacted. At the time of contact, 18 of the 28 participants had started taking trial treatment from the incorrect packs and 10 had not. The error was explained to the affected participants. No SAEs occurred during temporary exposure to trial treatment from the erroneous packs. No participants requested to be unmasked and all members of the research team also remained masked to the assigned treatment arm for these participants. All 28 participants were resupplied with randomized trial treatment.

This error was reported to the Research Ethics Committee and to the Medicines and Healthcare products Regulatory Agency, and it was categorized as a Serious Breach.

A detailed review of the handling of all 808 previous trial treatment mailing orders (including both active run-in and randomized trial treatment) was conducted by the drug distribution depot to confirm that no other errors in handling mailing order spreadsheets had occurred, and all 75 subsequent orders were reviewed until the end of the trial.

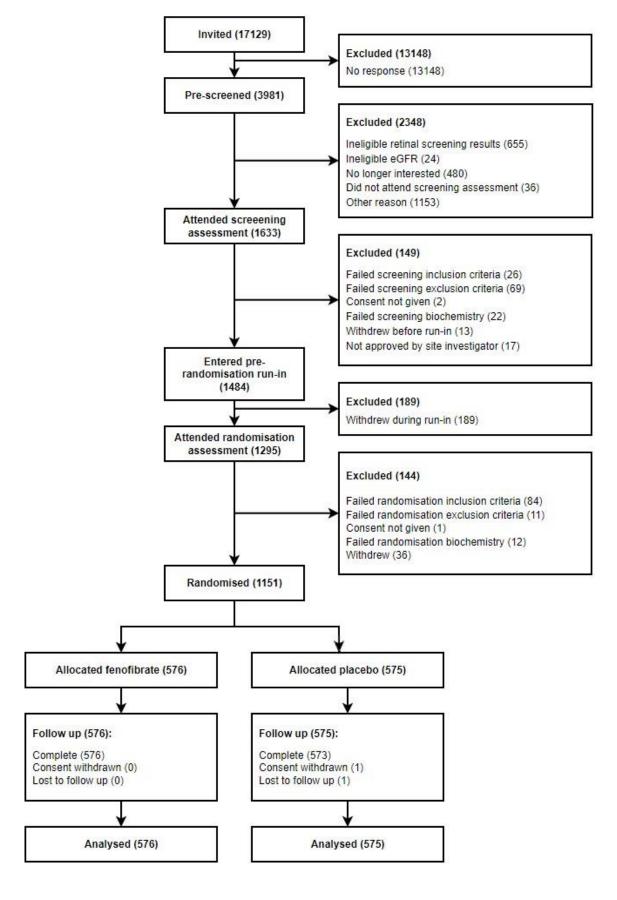
It was subsequently confirmed that, of the 28 participants temporarily affected by this error, 14 were mailed trial treatment packs from the appropriate treatment arm and 14 were mailed trial treatment packs from the incorrect treatment arm.

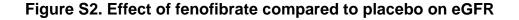
Clarification regarding primary outcome terminology

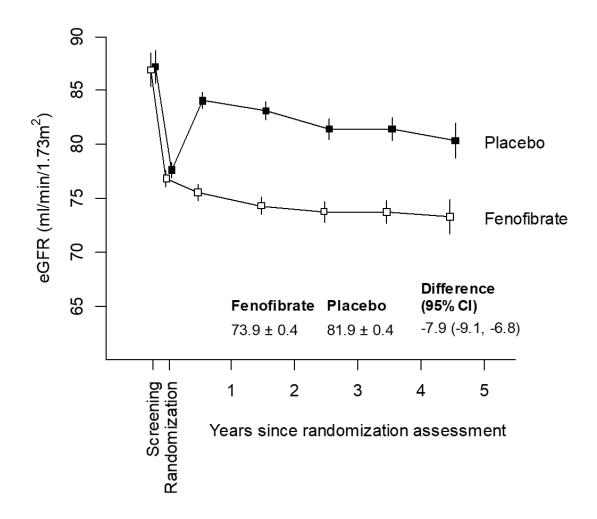
In Versions 1.0 to 6.3 of the protocol (noting that the trial commenced recruitment with Version 6.0 in place) and in earlier entries of the LENS trial in clinical trial registries (NCT03439345, ISRCTN15073006), the terms referable' and 'clinically significant' terms were used interchangeably to describe the development of a grading of diabetic retinopathy or maculopathy that would be counted as a primary outcome. During the trial, the Steering Committee recognized that this could prove confusing given that 'clinically significant' is a specific description used to categorize advanced macular edema. Therefore, the wording in both the protocol (Version 7.0) and in the clinical trial registries was updated to use consistent terminology by only referring to progression of diabetic retinopathy or maculopathy to a grade consistent with a primary outcome as 'referable' disease (i.e. to avoid the term 'clinically significant').

There was no change to the components of the primary outcome before or during the conduct of the trial i.e. the update referred to above was only a clarification regarding the description of the primary outcome. This can be confirmed in version 1.0 of the protocol which clearly states that a primary outcome of progressive retinopathy or maculopathy was defined according to the Scottish grading scheme as R3 (i.e. referable background diabetic retinopathy) or R4 (i.e. proliferative diabetic retinopathy) or M2 (i.e. referable maculopathy) in at least one eye. The primary outcome therefore remained unchanged throughout the conduct of the trial.

Figure S1. CONSORT diagram of the LENS trial







The figure shows mean eGFR at the screening assessment, the randomization assessment and in one-year windows after randomization by treatment allocation.

Linear mixed models for repeated measures (MMRM) analyses were used to estimate the mean eGFR by treatment group at each follow-up time point, as well as a trial-averaged difference in mean follow-up levels, between fenofibrate and placebo. The models adjusted for baseline (screening) eGFR and the randomization minimization criteria (in the same categories used in the minimization process), and assumed an unstructured covariance matrix. Vertical lines indicate the 95% confidence intervals for the estimated means. The coordinates of the boxes are shifted slightly on the x axis to avoid overlap.

Table S1. NHS Scotland's Diabetic Eye Screening Programme grading scheme for retinopathy and maculopathy

| Grading | Description | Findings | Outcome |
|------------------|--|---|---|
| RETINO | PATHY (exclude | ding the macula) | |
| R0 | No DR anywhere | - | Rescreen in 12-24 months |
| R1 | Mild background diabetic retinopathy | The presence of at least one of any of the following features anywhere: • dot hemorrhages / microaneurysms • hard exudates • cotton wool spots • blot hemorrhages* • superficial/ flame shaped hemorrhages | Rescreen in 12 months |
| R2 | Observable background diabetic retinopathy | Four or more blot hemorrhages* in one hemi-field only (Inferior and superior hemi-fields delineated by a line passing through the centre of the fovea and optic disc) | Rescreen in 6 months |
| R3 | Referable background diabetic retinopathy | Any of the following features: four or more blot hemorrhages* in both inferior and superior hemi-fields Venous beading Intraretinal Microvascular Abnormalities (IRMA) | Specialist referral (routine) |
| R4 | Proliferative diabetic retinopathy | Any of the following features:Active new vesselsVitreous hemorrhage | Specialist referral (urgent) |
| R4i [†] | Treated proliferative diabetic retinopathy | Any of the following features: Inactive new vessels with evidence of laser treatment | Rescreen in 12 months |
| R6 | Not adequately visualized | Retina not sufficiently visible for assessment | Technical failure |
| | OPATHY | | |
| M0 | No maculopathy | No features ≤2 disc diameters from the centre of the fovea sufficient to qualify for M1 or M2 | Rescreen in 12-24 months |
| M1 | Observable maculopathy | Lesions as specified below within a radius of >1 but ≤2 disc diameters from the centre of the fovea: • Any hard exudates | Rescreen in 12 months |
| M2 | Referable maculopathy | Lesions as specified below within a radius of ≤1 disc diameter of the centre of the fovea: • Any blot hemorrhages* • Any hard exudates | OCT surveillance scan or Rescreen in 12 months [‡] |

^{*} Blot hemorrhage has the same or greater diameter as a retinal vein crossing the optic disc

[†] R4i is not counted towards the primary outcome as it represents inactive disease

[‡] At the start of LENS in 2018 and until end-2021, all patients in Scotland with M2 retinal screening results required referral to a specialist in ophthalmology. During 2022, the Diabetic Eye Screening programme started to introduce a phased change to the management pathway of patients with M2 disease. In the new pathway, M2 in the context of poor visual acuity (e.g. 6/9.5 or worse) leads to optical coherence tomography (OCT) imaging followed by referral to an ophthalmologist if there is evidence of macular edema.

Table S2. Serious Adverse Events in run-in, categorized by MedDRA system organ class

| | Fenc | ofibrate |
|---|------|----------|
| | (N= | 1484) |
| Cardiac disorders | 4 | (0.3%) |
| Gastrointestinal disorders | 4 | (0.3%) |
| General disorders and administration site conditions | 2 | (0.1%) |
| Hepatobiliary disorders | 1 | (0.1%) |
| Infections and infestations | 9 | (0.6%) |
| Injury, poisoning and procedural complications | 4 | (0.3%) |
| Metabolism and nutrition disorders | 3 | (0.2%) |
| Musculoskeletal and connective tissue disorders | 1 | (0.1%) |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | 1 | (0.1%) |
| Nervous system disorders | 1 | (0.1%) |
| Skin and subcutaneous tissue disorders | 1 | (0.1%) |
| Surgical and medical procedures | 4 | (0.3%) |
| Vascular disorders | 1 | (0.1%) |
| Subtotal: Any Serious Adverse Event | 35 | (2.4%) |
| Figures are number of participants (%). Only categories with events are listed. | | |

Table S3. Representativeness of the trial population

| Category | Comment |
|--|---|
| Disease, problem, or condition under investigation | Diabetic retinopathy and maculopathy |
| Special considerations related to: | |
| Sex | At a given HbA1c level and with similar diabetes duration, sex does not appear to be a key risk factor for the presence or progression of diabetic retinopathy; the worldwide prevalence of visual loss and moderate to severe vision impairment due to diabetic retinopathy is similar in men and women by age. |
| Age | Given the importance of diabetes duration as a risk factor for diabetic retinopathy, increasing age is associated with higher risks of retinopathy and vision-threatening disease; however people with type 1 diabetes develop diabetes earlier and are at higher risk of progressive retinopathy than people with type 2 diabetes, so they develop significant disease at a younger age than people with type 2 diabetes. |
| Race or ethnic group | Some studies in developed countries have suggested that people of South Asian or Afro-Caribbean background may be at higher risk of any diabetic retinopathy or vison-threatening diabetic retinopathy than Caucasian people, but it is unclear whether this difference is fully accounted for by differences in key risk factors such as glycemic control. |
| Geography | National and regional retinal screening programmes remain limited in many parts of the world; the prevalence of vision-threatening diabetic retinopathy is reported to be highest in North Africa and the Middle East, followed by Latin America and the Caribbean, but all regions carry a heavy burden of disease. |
| Other considerations | Key risk factors for the presence and progression of diabetic retinopathy are longer duration of diabetes and exposure to higher HbA1c levels. |
| Overall representativeness of this trial | Information regarding participants' sex and date of birth was obtained from NHS Scotland, and ethnicity was self-reported. We have previously demonstrated that LENS trial participants are highly representative of all potentially eligible people in Scotland with regard to age, type of diabetes, grading of retinopathy, HbA1c and kidney function, but that the trial included fewer women and people of non-Caucasian ethnicity than expected based on estimates of national Scottish data (even though potentially eligible people were invited without consideration of sex or ethnicity); in the context of worldwide data for retinopathy and vision-threatening disease, an important limitation of the LENS trial is the small number of participants of non-Caucasian ethnicity. |

Table S4. Completeness of Follow up

| | Fenofibrate | | Placebo | | Total | |
|---|-------------|----------|---------|---------|-------|---------|
| | (N=576) | | (N=575) | | (N= | =1151) |
| Complete follow up information | 576 | (100.0%) | 573 | (99.7%) | 1149 | (99.8%) |
| Final follow up assessment with participant | 504 | (87.5%) | 502 | (87.3%) | 1006 | (87.4%) |
| Final follow up assessment by medical records/GP | 37 | (6.4%) | 33 | (5.7%) | 70 | (6.1%) |
| Death before end of final follow up period | 35 | (6.1%) | 38 | (6.6%) | 73 | (6.3%) |
| Registry data confirming vital status during final follow up period | 0 | (0.0%) | 0 | (0.0%) | 0 | (0.0%) |
| Incomplete follow up information | 0 | (0.0%) | 2 | (0.3%) | 2 | (0.2%) |
| Full withdrawal of consent | 0 | (0.0%) | 1 | (0.2%) | 1 | (0.1%) |
| No final follow up assessment (loss to follow up) | 0 | (0.0%) | 1 | (0.2%) | 1 | (0.1%) |
| Figures are number of participants (%). | | | | | | |

Table S5. Frequency of retinal screening after randomization

| | Fenofibrate | Placebo |
|--|-------------|-------------|
| | (N=576) | (N=575) |
| Retinal screening episodes | | |
| Count | 1485 | 1469 |
| Average per participant (SE) | 2.58 (0.04) | 2.55 (0.04) |
| Figures are total counts and mean ± standard error | | |

Table S6. Modalities of retinal screening and information on retinal image quality and the use of mydriasis

| Modality | Retinal screening episodes | Additional information | Right eye | Left eye |
|----------------------------------|----------------------------|---|--------------|--------------|
| | N | | N (%) | N (%) |
| Routine digital screening | 2815 | Image quality* | | |
| | | Nerve fibre layer visible | 2668 (94.8%) | 2654 (94.3%) |
| | | Nerve fibre layer not visible | 47 (1.7%) | 46 (1.6%) |
| | | Small vessels blurred | 25 (0.9%) | 26 (0.9%) |
| | | Major arcade vessels just blurred | 12 (0.4%) | 23 (0.8%) |
| | | Image not gradable/technical failure or no information available about image quality | 63 (2.2%) | 66 (2.3%) |
| | | Mydriasis | | |
| | | Mydriasis used | 765 (27.2%) | 765 (27.2%) |
| | | Mydriasis not used | 2050 (72.8%) | 2050 (72.8%) |
| Slit lamp biomicroscopy | 143 | Mydriasis used | 143 (100.0%) | 143 (100.0%) |
| OCT Surveillance [†] | 119 | - | - | - |

^{*} Image quality in the NHS Scotland Diabetic Eye Screening (DES) programme is rated (from best to worst) as nerve fibre layer visible, nerve fibre layer not visible, small vessels blurred, major arcade vessels just blurred, image not gradable/technical failure; in the case of images being not gradable/technical failure, patients typically then have slit lamp biomicroscopy arranged (and may continue with slit lamp biomicroscopy in the longer term for retinal screening).

[†] During 2022, DES started to introduce a phased change to the management pathway of patients with referable maculopathy. In the new pathway, referable maculopathy in the context of poor visual acuity (Snellen 6/9.5 or worse) leads to optical coherence tomography (OCT) imaging in the first instance.

Table S7. Adherence to randomized trial treatment

| | Fenofibr | ate | Placeb | 0 | Total | | |
|-------------------|-------------|--------|-----------|--------|-------------|--------|--|
| | (N=576 | 6) | (N=575 | 5) | (N=1151 | 1) | |
| Full trial | | | | | | | |
| All regimens | | | | | | | |
| Randomization | 576 / 576 | (100%) | 575 / 575 | (100%) | 1151 / 1151 | (100%) | |
| Trial mid-point | 495 / 560 | (88%) | 500 / 561 | (89%) | 995 / 1121 | (89%) | |
| End of trial | 421 / 541 | (78%) | 427 / 535 | (80%) | 848 / 1076 | (79%) | |
| Trial average | 88% | | 89% | | 89% | | |
| Daily | | | | | | | |
| Randomization | 447 / 447 | (100%) | 448 / 448 | (100%) | 895 / 895 | (100%) | |
| Trial mid-point | 344 / 379 | (91%) | 374 / 421 | (89%) | 718 / 800 | (90%) | |
| End of trial | 268 / 329 | (81%) | 322 / 392 | (82%) | 590 / 721 | (82%) | |
| Trial average | 90% | | 89% | | 90% | | |
| Alternate days | | | | | | | |
| Randomization | 129 / 129 | (100%) | 127 / 127 | (100%) | 256 / 256 | (100%) | |
| Trial mid-point | 151 / 181 | (83%) | 126 / 140 | (90%) | 277 / 321 | (86%) | |
| End of trial | 153 / 212 | (72%) | 105 / 143 | (73%) | 258 / 355 | (73%) | |
| Trial average | 83% | | 88% | | 85% | | |
| Censored at prima | ary outcome | | | | | | |
| All regimens | | | | | | | |
| Randomization | 576 / 576 | (100%) | 575 / 575 | (100%) | 1151 / 1151 | (100%) | |
| Trial mid-point | 443 / 498 | (89%) | 428 / 475 | (90%) | 871 / 973 | (90%) | |
| End of trial | 325 / 412 | (79%) | 303 / 372 | (81%) | 628 / 784 | (80%) | |
| Trial-average | 89% | | 90% | | 90% | | |
| Daily | | | | | | | |
| Randomization | 447 / 447 | (100%) | 448 / 448 | (100%) | 895 / 895 | (100%) | |
| Trial mid-point | 302 / 331 | (91%) | 316 / 350 | (90%) | 618 / 681 | (91%) | |
| End of trial | 198 / 237 | (84%) | 227 / 270 | (84%) | 425 / 507 | (84%) | |
| Trial-average | 91% | | 91% | | 91% | | |
| Alternate days | | | | | | | |
| Randomization | 129 / 129 | (100%) | 127 / 127 | (100%) | 256 / 256 | (100%) | |
| Trial mid-point | 141 / 167 | (84%) | 112 / 125 | (90%) | 253 / 292 | (87%) | |
| End of trial | 127 / 175 | (73%) | 76 / 102 | (75%) | 203 / 277 | (73%) | |
| Trial-average | 84% | | 89% | | 86% | | |

Adherence at specific time points was calculated as the number of participants taking trial treatment divided by the number of participants who were alive and not fully withdrawn from the trial at that point. Average adherence within each treatment arm and time period of interest was calculated as the sum over all participants of the adherent days divided by the sum over all participants of the days at risk. Data are provided for both regimens (i.e. daily treatment and alternate day treatment) combined and separately.

Table S8. Reasons for stopping randomized trial treatment

| | Fenofibrate | | Pla | icebo | | |
|---|-------------|--------|-----|---------|------|--|
| | (N=576) | | (N= | (N=575) | | |
| Serious adverse event (SAE) | | | | | | |
| Cardiac disorders | 2 | (0.3%) | 1 | (0.2%) | | |
| Gastrointestinal disorders | 2 | (0.3%) | 3 | (0.5%) | | |
| Hepatobiliary disorders | 3 | (0.5%) | 4 | (0.7%) | | |
| Infections and infestations | 1 | (0.2%) | 1 | (0.2%) | | |
| Injury, poisoning and procedural complications | 0 | (0.0%) | 1 | (0.2%) | | |
| Investigations | 0 | (0.0%) | 1 | (0.2%) | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | 5 | (0.9%) | 5 | (0.9%) | | |
| Nervous system disorders | 4 | (0.7%) | 4 | (0.7%) | | |
| Renal and urinary disorders | 3 | (0.5%) | 1 | (0.2%) | | |
| Surgical and medical procedures | 1 | (0.2%) | 3 | (0.5%) | | |
| Subtotal: Any SAE | 21 | (3.6%) | 24 | (4.2%) | 0.64 | |
| Non-serious adverse event (NSAE) | | | | | | |
| Eye disorders | 2 | (0.3%) | 2 | (0.3%) | | |
| Gastrointestinal disorders | 6 | (1.0%) | 5 | (0.9%) | | |
| Hepatobiliary disorders | 0 | (0.0%) | 1 | (0.2%) | | |
| Investigations | 1 | (0.2%) | 3 | (0.5%) | | |
| Musculoskeletal and connective tissue disorders | 3 | (0.5%) | 2 | (0.3%) | | |
| Nervous system disorders | 4 | (0.7%) | 3 | (0.5%) | | |
| Pregnancy, puerperium and perinatal conditions | 0 | (0.0%) | 1 | (0.2%) | | |
| Respiratory, thoracic and mediastinal disorders | 1 | (0.2%) | 1 | (0.2%) | | |
| Skin and subcutaneous tissue disorders | 0 | (0.0%) | 3 | (0.5%) | | |
| Subtotal: Any NSAE | 17 | (3.0%) | 21 | (3.7%) | 0.51 | |
| Other medical reasons | | | | | | |
| Contraindicated medication | 0 | (0.0%) | 2 | (0.3%) | | |
| Fall in eGFR | 9 | (1.6%) | 5 | (0.9%) | | |
| Unwilling to use contraception | 2 | (0.3%) | 0 | (0.0%) | | |
| Subtotal: Other medical reasons | 11 | (1.9%) | 7 | (1.2%) | 0.34 | |

| | Fenofibrate | | Pla | Placebo | |
|---|-------------|---------|-----|---------|------|
| | (N=576) | | (N= | (N=575) | |
| Other non-medical reasons | | | | | |
| Patient wishes | 29 | (5.0%) | 30 | (5.2%) | |
| Other reason | 54 | (9.4%) | 42 | (7.3%) | |
| Withdrew consent for further contact | 3 | (0.5%) | 2 | (0.3%) | |
| Subtotal: Other non-medical reasons | 86 | (14.9%) | 74 | (12.9%) | 0.31 |
| Any reason | 135 | (23.4%) | 126 | (21.9%) | 0.54 |
| Figures are number of participants (%). | | | | | |
| Only categories with events are listed. | | | | | |

Table S9. Effect of fenofibrate compared to placebo on treatment for diabetic retinopathy or maculopathy

| Fenofibrate (N=576) | | Placebo | | |
|------------------------|-----------------------------------|---|--|--|
| | | (N= | :575) | |
| N (%) | Events per 100 person-years | N (%) | Events per 100 person-years | HR (95% CI) |
| 9 (1.6%) | 0.4 | 12 (2.1%) | 0.5 | |
| 10 (1.7%) | 0.5 | 17 (3.0%) | 0.8 | |
| 0 (0.0%) | 0.0 | 4 (0.7%) | 0.2 | |
| 17 (3.0%) | 0.8 | 28 (4.9%) | 1.3 | 0.58 (0.31-1.06) |
| | N (%) 9 (1.6%) 10 (1.7%) 0 (0.0%) | (N=576) Events per 100 person-years 9 (1.6%) 0.4 10 (1.7%) 0.5 0 (0.0%) 0.0 | (N=576) (N= Events per 100 person-years N (%) 9 (1.6%) 0.4 12 (2.1%) 10 (1.7%) 0.5 17 (3.0%) 0 (0.0%) 0.0 4 (0.7%) | (N=576) (N=575) Events per 100 person-years Events per 100 person-years 9 (1.6%) 0.4 12 (2.1%) 0.5 10 (1.7%) 0.5 17 (3.0%) 0.8 0 (0.0%) 0.0 4 (0.7%) 0.2 |

Table S10. Effect of fenofibrate compared to placebo on visual acuity, quality of life and visual function*

| | | Fenofibrate | | Placebo | |
|--|-----|------------------|-----|------------------|------------------------------------|
| | N | Mean (95% CI) | N | Mean (95% CI) | Difference between groups (95% CI) |
| Visual acuity ^{†‡} | | | | | |
| Baseline | 548 | 0.04 (0.03-0.05) | 552 | 0.03 (0.02-0.04) | |
| Year 1 | | 0.04 (0.03-0.05) | | 0.04 (0.03-0.05) | 0.00 (-0.01 - 0.02) |
| Year 2 | | 0.06 (0.05-0.07) | | 0.05 (0.03-0.06) | 0.02 (0.00 - 0.03) |
| Year 3 | | 0.05 (0.04-0.06) | | 0.05 (0.04-0.06) | 0.00 (-0.01 - 0.02) |
| Year 4 | | 0.07 (0.06-0.08) | | 0.06 (0.05-0.07) | 0.01 (-0.01 - 0.02) |
| Year 5 | | 0.07 (0.06-0.09) | | 0.08 (0.07-0.10) | -0.01 (-0.03 - 0.01) |
| Trial average follow-up | | 0.06 (0.05-0.07) | | 0.05 (0.05-0.06) | 0.00 (-0.01 - 0.01) |
| EQ-5D-5L index score ^{†§} | | | | | |
| Baseline | 573 | 0.81 (0.80-0.83) | 569 | 0.81 (0.79-0.83) | |
| Year 2 | | 0.76 (0.75-0.78) | | 0.76 (0.74-0.77) | 0.00 (-0.02 - 0.02) |
| End of trial | | 0.74 (0.72-0.75) | | 0.74 (0.72-0.76) | -0.01 (-0.03 - 0.02) |
| Trial average follow-up | | 0.75 (0.73-0.76) | | 0.75 (0.74-0.76) | 0.00 (-0.02 - 0.02) |
| EQ-5D-5L visual analogue scale ^{†§} | | | | | |
| Baseline | 576 | 81 (79-82) | 574 | 81 (79-82) | |
| Year 2 | | 76 (75-78) | | 76 (75-78) | 0 (-2 - 2) |
| End of trial | | 74 (73-76) | | 76 (74-77) | -1 (-3 - 1) |
| | | | | | |

| | Fenofibrate | | | Placebo | | | |
|--------------------------------------|-------------|---------------|-----|---------------|------------------------------------|--|--|
| | N | Mean (95% CI) | N | Mean (95% CI) | Difference between groups (95% CI) | | |
| Trial average follow-up | | 75 (74-76) | | 76 (75-77) | -1 (-2 - 1) | | |
| VFQ-25 composite score ^{†∥} | | | | | | | |
| Baseline | 576 | 91 (90-92) | 575 | 92 (91-93) | | | |
| Year 2 | | 90 (89-91) | | 90 (90-91) | 0 (-1 - 1) | | |
| End of trial | | 89 (89-90) | | 89 (88-89) | 1 (0 - 2) | | |
| Trial average follow-up | | 90 (89-91) | | 89 (89-90) | 0 (-1 - 1) | | |

^{*} Shown are arithmetic means and 95% confidence intervals. Confidence intervals have not been adjusted for multiplicity, and should not be used to infer clinical utility.

[†] The estimates were derived from a linear mixed model repeated measures adjusted for the baseline value and the minimization criteria.

[‡] Baseline visual acuity is taken from routine measurement within NHS Scotland's Diabetic Eye Screening programme (within 18 months of randomization) and with conversion from Snellen to LogMAR where necessary; analysis of the better eye: if only 1 eye, analyse that eye; if 2 eyes, use eye with better acuity; if identical acuity in both eyes, use the right eye.

[§] Quality of life was measured using the EQ-5D-5L instrument, and valued by mapping to the EQ-5D-3L UK value set using the mapping function developed by Hernández Alava et al. PharmacoEconomics (2022). The visual analogue scale is a score out of 100.

Visual function is based on the Visual Function Questionnaire-25.

Table S11. Effect of fenofibrate compared to placebo on major cardiovascular events and non-traumatic lower limb amputations

| | Fenofibrate (N=576) | | | cebo | |
|--|------------------------|--------------------------------|--------------|--|------------------|
| | (N= N (%) | Events per 100 person-years | (N= N (%) | 575) Events per 100 person-years | HR (95% CI) |
| Major cardiovascular events* | 45 (7.8%) | 2.1 | 43 (7.5%) | 2.0 | 1.05 (0.69-1.60) |
| Non-traumatic lower limb amputation [†] | 4 (0.7%) | 0.2 | 11 (1.9%) | 0.5 | 0.35 (0.11-1.12) |

^{*} Composite of any major cardiovascular event (defined as myocardial infarction, stroke, coronary or peripheral revascularization).

Confidence intervals have not been adjusted for multiplicity, and should not be used to infer clinical utility.

[†] Composite of any non-traumatic lower limb amputation (defined as minor amputation [distal to the ankle] or major amputation [through or proximal to the ankle]).

Table S12. Effect of fenofibrate compared to placebo on renal function, lipids, HbA1c and urine albumin creatinine ratio by year and as trial-average*

| Mean (95% CI) 86.9 (85.4-88.4) 75.3 (74.6-76.1) | N 575 | Mean (95% CI) | Difference between groups (95% CI) |
|---|---|---|---|
| 86.9 (85.4-88.4) | | Mean (95% CI) | groups (95% CI) |
| , | 575 | | |
| , | 575 | | |
| 75.3 (74.6-76.1) | | 87.2 (85.7-88.7) | |
| · | | 83.8 (83.1-84.6) | -8.5 (-9.67.4) |
| 74.1 (73.3-74.9) | | 82.9 (82.1-83.7) | -8.8 (-10.07.6) |
| 73.6 (72.6-74.5) | | 81.2 (80.2-82.2) | -7.6 (-9.06.3) |
| 73.5 (72.4-74.6) | | 81.2 (80.2-82.3) | -7.7 (-9.26.2) |
| 73.1 (71.5-74.7) | | 80.1 (78.6-81.7) | -7.0 (-9.34.8) |
| 73.9 (73.1-74.7) | | 81.9 (81.1-82.7) | -7.9 (-9.16.8) |
| | | | |
| 156.4 (153.4-159.4) | 567 | 156.8 (153.6-159.9) | |
| 150.8 (148.8-152.8) | | 157.1 (155.1-159.1) | -6.3 (-9.13.4) |
| 151.4 (148.8-153.9) | | 158.1 (155.5-160.7) | -6.7 (-10.43.1) |
| 152.2 (149.7-154.6) | | 157.9 (155.5-160.4) | -5.8 (-9.22.3) |
| 154.6 (151.9-157.3) | | 155.4 (152.6-158.1) | -0.8 (-4.7 - 3.1) |
| 152.8 (147.9-157.6) | | 154.2 (149.3-159.0) | -1.4 (-8.3 - 5.5) |
| 152.3 (150.4-154.3) | | 156.5 (154.6-158.5) | -4.2 (-7.01.4) |
| | | | |
| | 150.8 (148.8-152.8) 151.4 (148.8-153.9) 152.2 (149.7-154.6) 154.6 (151.9-157.3) 152.8 (147.9-157.6) | 150.8 (148.8-152.8) 151.4 (148.8-153.9) 152.2 (149.7-154.6) 154.6 (151.9-157.3) 152.8 (147.9-157.6) | 150.8 (148.8-152.8) 157.1 (155.1-159.1) 151.4 (148.8-153.9) 158.1 (155.5-160.7) 152.2 (149.7-154.6) 157.9 (155.5-160.4) 154.6 (151.9-157.3) 155.4 (152.6-158.1) 152.8 (147.9-157.6) 154.2 (149.3-159.0) |

| | | Fenofibrate | | Pla | | | |
|--------------------------------------|-----|-------------------|--------|-------|---------------|--------|--------------|
| | | | | | | | ence between |
| | N | Mean (95% CI) | N | | n (95% CI) | group | s (95% CI) |
| Baseline | 568 | 105.8 (103.0-108. | 7) 560 | 106.2 | (103.1-109.3) | | |
| Year 1 | | 101.3 (98.8-103.8 |) | 107.3 | (104.8-109.9) | -6.0 | (-9.62.5) |
| Year 2 | | 102.4 (100.0-104. | 8) | 108.2 | (105.8-110.6) | -5.8 | (-9.22.4) |
| Year 3 | | 103.4 (101.0-105. | 9) | 108.1 | (105.7-110.6) | -4.7 | (-8.21.2) |
| Year 4 | | 105.7 (103.0-108. | 4) | 104.8 | (102.1-107.6) | 0.9 | (-3.0 - 4.7) |
| Year 5 | | 103.6 (98.8-108.4 |) | 103.0 | (98.2-107.8) | 0.6 | (-6.2 - 7.4) |
| Trial average follow-up | | 103.3 (101.3-105. | 3) | 106.3 | (104.3-108.3) | -3.0 | (-5.80.2) |
| HDL cholesterol – mg/dL [†] | | | | | | | |
| Baseline | 568 | 50.6 (49.2-51.9) | 560 | 50.4 | (49.2-51.6) | | |
| Year 1 | | 49.0 (48.3-49.6) | | 49.6 | (49.0-50.3) | -0.7 | (-1.6 - 0.3) |
| Year 2 | | 48.8 (48.0-49.5) | | 49.4 | (48.7-50.2) | -0.6 | (-1.7 - 0.4) |
| Year 3 | | 48.3 (47.6-49.0) | | 49.3 | (48.6-50.0) | -1.0 | (-2.0 - 0.1) |
| Year 4 | | 48.9 (48.0-49.7) | | 49.9 | (49.1-50.8) | -1.1 | (-2.3 - 0.2) |
| Year 5 | | 48.3 (47.0-49.7) | | 51.2 | (49.8-52.6) | -2.9 | (-4.80.9) |
| Trial average follow-up | | 48.6 (48.0-49.2) | | 49.9 | (49.3-50.5) | -1.2 | (-2.10.4) |
| Triglycerides – mg/dL [†] | | | | | | | |
| Baseline | 571 | 140.2 (133.5-147. | 2) 563 | 136.7 | (130.7-143.0) | | |
| Year 1 | | 113.3 (108.9-117. | 8) | 135.8 | (130.5-141.4) | -16.6% | (-21.2%11.89 |
| Year 2 | | 115.4 (110.7-120. | 4) | 132.7 | (127.0-138.6) | -13.0% | (-18.1%7.6% |
| Year 3 | | 117.6 (113.0-122. | 4) | 137.9 | (132.5-143.6) | -14.7% | (-19.4%9.7% |

| | | Fenofibrate | | Place | ebo | | |
|---|-----|---------------------|-----|---------|--------------|----------|------------------|
| | | | | | | _ | ence between |
| | N | Mean (95% CI) | N | | (95% CI) | <u> </u> | s (95% CI) |
| Year 4 | | 117.3 (111.7-123.2) |) | 135.1 (| 128.4-142.1) | -13.2% | (-19.0%6.8%) |
| Year 5 | | 126.8 (113.3-141.8) |) | 142.4 (| 127.2-159.4) | -11.0% | (-23.9% - 4.2%) |
| Trial average follow-up | | 118.0 (113.7-122.4) |) | 136.7 (| 131.7-142.0) | -13.7% | (-18.1%9.1%) |
| HbA1c – mmol/mol [†] | | | | | | | |
| Baseline | 538 | 66.4 (65.0-67.7) | 539 | 66.3 (| 65.0-67.7) | | |
| Year 1 | | 66.0 (65.1-66.9) | | 66.9 (| 66.0-67.8) | -0.8 | (-2.1 - 0.4) |
| Year 2 | | 66.9 (65.8-68.1) | | 67.6 (| 66.4-68.8) | -0.7 | (-2.3 - 1.0) |
| Year 3 | | 66.3 (65.2-67.5) | | 66.7 (| 65.6-67.9) | -0.4 | (-2.1 - 1.3) |
| Year 4 | | 67.0 (65.8-68.3) | | 66.9 (| 65.6-68.1) | 0.2 | (-1.6 - 2.0) |
| Year 5 | | 67.1 (64.8-69.3) | | 66.1 (6 | 63.9-68.4) | 0.9 | (-2.2 - 4.1) |
| Trial average follow-up | | 66.7 (65.8-67.6) | | 66.8 (| 65.9-67.8) | -0.2 | (-1.5 - 1.2) |
| Urine albumin creatinine ratio – mg/g^{\dagger} | | | | | | | |
| Baseline | 312 | 14.4 (12.3-16.9) | 310 | 16.6 (| 14.0-19.6) | | |
| Year 1 | | 11.7 (10.3-13.2) | | 12.8 (| 11.2-14.5) | -8.5% | (-23.3% - 9.1%) |
| Year 2 | | 12.0 (10.3-13.9) | | 15.2 (| 13.0-17.7) | -21.1% | (-36.2%2.5%) |
| Year 3 | | 13.7 (11.9-15.8) | | 16.9 (| 14.7-19.6) | -19.1% | (-34.1%0.8%) |
| Year 4 | | 14.4 (12.2-16.9) | | 17.7 (| 15.0-20.8) | -18.7% | (-35.3% - 2.2%) |
| Year 5 | | 16.9 (13.1-21.9) | | 15.6 (| 11.8-20.5) | 8.8% | (-25.0% - 57.8%) |
| Trial average follow-up | | 13.6 (12.1-15.3) | | 15.5 (| 13.8-17.5) | -12.4% | (-25.8% - 3.5%) |

| Fenofibr | ate | Placebo | |
|-----------|----------|---------------|--------------------|
| | | | Difference between |
| N Mean (9 | 5% CI) N | Mean (95% CI) | groups (95% CI) |

^{*}Shown are arithmetic means and 95% confidence intervals for eGFR, total cholesterol, non-HDL cholesterol, HDL cholesterol and HbA1c; shown are geometric means and approximate 95% confidence intervals for triglycerides and urine albumin to creatinine ratio.

Confidence intervals have not been adjusted for multiplicity, and should not be used to infer clinical utility. For triglycerides and the urine albumin to creatinine ratio, the difference reflects a percentage difference. To convert the values for cholesterol to millimoles per liter multiply by 0.02586. To convert the values for triglycerides to millimoles per liter multiply by 0.01129.

[†] The estimates were derived from a linear mixed model repeated measures adjusted for the baseline value and the minimization criteria.

Table S13. Serious adverse events after randomization, categorized by MedDRA system organ class

| | Fenofibrate | | Placebo | | |
|--|-------------|---------|---------|---------|--|
| | (N=576) | | (N | (N=575) | |
| Blood and lymphatic system disorders | 5 | (0.9%) | 2 | (0.3%) | |
| Cardiac disorders | 37 | (6.4%) | 36 | (6.3%) | |
| Congenital, familial and genetic disorders | 0 | (0.0%) | 0 | (0.0%) | |
| Ear and labyrinth disorders | 0 | (0.0%) | 0 | (0.0%) | |
| Endocrine disorders | 1 | (0.2%) | 1 | (0.2%) | |
| Eye disorders | 6* | (1.0%) | 0 | (0.0%) | |
| Gastrointestinal disorders | 21 | (3.6%) | 27 | (4.7%) | |
| General disorders and administration site | 12 | (2.1%) | 16 | (2.8%) | |
| conditions | | | | | |
| Hepatobiliary disorders | 6 | (1.0%) | 7 | (1.2%) | |
| Immune system disorders | 0 | (0.0%) | 0 | (0.0%) | |
| Infections and infestations | 49 | (8.5%) | 50 | (8.7%) | |
| Injury, poisoning and procedural | 23 | (4.0%) | 28 | (4.9%) | |
| complications | | | | | |
| Investigations | 4 | (0.7%) | 3 | (0.5%) | |
| Metabolism and nutrition disorders | 16 | (2.8%) | 21 | (3.7%) | |
| Musculoskeletal and connective tissue | 11 | (1.9%) | 7 | (1.2%) | |
| disorders | | | | | |
| Neoplasms benign, malignant and | 29 | (5.0%) | 23 | (4.0%) | |
| unspecified (incl cysts and polyps) | | | | | |
| Nervous system disorders | 33 | (5.7%) | 27 | (4.7%) | |
| Pregnancy, puerperium and perinatal | 0 | (0.0%) | 0 | (0.0%) | |
| conditions | | | | | |
| Psychiatric disorders | 6 | (1.0%) | 5 | (0.9%) | |
| Renal and urinary disorders | 14 | (2.4%) | 10 | (1.7%) | |
| Reproductive system and breast disorders | 2 | (0.3%) | 1 | (0.2%) | |
| Respiratory, thoracic and mediastinal | 19 | (3.3%) | 14 | (2.4%) | |
| disorders | | | | | |
| Skin and subcutaneous tissue disorders | 3 | (0.5%) | 4 | (0.7%) | |
| Social circumstances | 0 | (0.0%) | 0 | (0.0%) | |
| Surgical and medical procedures | 50 | (8.7%) | 52 | (9.0%) | |
| Vascular disorders | 3 | (0.5%) | 4 | (0.7%) | |
| Product issues | 0 | (0.0%) | 0 | (0.0%) | |
| Subtotal: Any Serious Adverse Event | 208 | (36.1%) | 204 | (35.5%) | |

MedDRA = Medical Dictionary for Regulatory Activities.

Figures are number of participants (%).

^{*}Eye disorder SAEs: cataract, vitreous hemorrhage X2, retinal vein occlusion, diabetic glaucoma, retinal hemorrhage