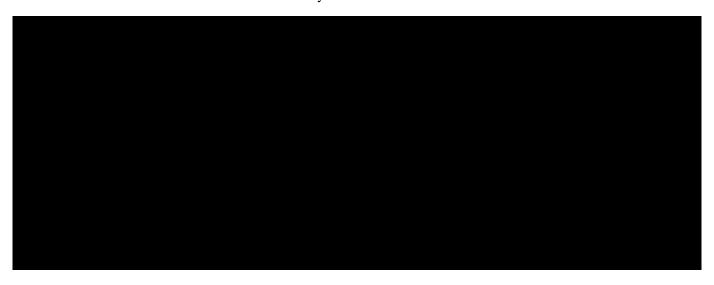
Official Study Title: A Phase 3 Multicenter, Randomized, Double-Masked, Sham-Controlled Clinical Trial to Assess the Safety and Efficacy of Intravitreal Administration of Zimura[™] (Complement C5 Inhibitor) in Patients with Geographic Atrophy Secondary to Age-Related Macular Degeneration

NCT#: NCT04435366

Document: Statistical Analysis Plan

Document Date: 07 April 2022

Signature Page for ISEE2008_SAP Study ISEE2008 v4.0



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STATISTICAL ANALYSIS PLAN

SPONSOR:	IVERIC BIO, INC.
PROTOCOL	A PHASE 3 MULTICENTER, RANDOMIZED, DOUBLE-MASKED,
TITLE:	SHAM CONTROLLED CLINICAL TRIAL TO ASSESS THE SAFETY
	AND EFFICACY OF INTRAVITREAL ADMINISTRATION OF
	ZIMURA™ (COMPLEMENT C5 INHIBITOR) IN PATIENTS WITH
	GEOGRAPHIC ATROPHY SECONDARY TO AGE-RELATED
	MACULAR DEGENERATION
STUDY CODE:	ISEE2008 (GATHER2)
VERSION:	4.0
DATE:	07APR2022



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Approved in Vault: 07 Apr 2022



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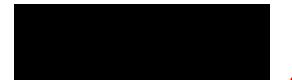


LIST OF ABBREVIATIONS AND DEFINITION OF TERMS

Abbreviation	Term
AE	Adverse Event
AMD	Age-Related Macular Degeneration
ATC	Anatomic Therapeutic Chemical
BCVA	Best Corrected Visual Acuity
BUN	Blood Urea Nitrogen
CI	Confidence Interval
ECG	Electrocardiogram
ECOG	Eastern Cooperative Oncology Group
ETDRS	Early Treatment Diabetic Retinopathy Study
FA	Fluorescein Angiography
FAF	Fundus Autofluorescence
FP	Fundus Photography
GA	Geographic Atrophy
GGT	Gamma-glutamyl Transferase
ICH	International Conference on Harmonization
DSMB	Data Safety Monitoring Board
IOP	Intraocular Pressure
ITT	Intention-to-Treat
LLN	Lower Limit Normal
MAR	Missing at Random
MedDRA	Medical Dictionary for Regulatory Activities
MMRM	Mixed Model for Repeated Measures
MNAR	Missing Not At Random
NA	Not Available / Not Applicable
OU	Oculus Uterque (Both Eyes)
PSC	Posterior Subcapsular Cataract
REML	Restricted Maximum Likelihood
SAE	Serious Adverse Event
SAP	Statistical Analysis Plan
SD	Standard Deviation
SE	Study Eye
SGOT/AST	Aspartate Aminotransferase
SGPT/ALT	Alanine Aminotransferase
ULN	Upper Limit Normal
	

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Visual Acuity VA

White Blood Cells WBC

WHO World Health Organization



INTRODUCTION

This Statistical Analysis Plan describes the statistical methodology and data handling for the clinical trial with Protocol Number: ISEE2008 (GATHER2), Version Date: 18 December 2020.

The trial consists of a total treatment period of 24 months. This SAP covers all analyses to be performed on 1 year data. By pre-specification, this study will obtain evidence regarding the effect of Zimura on the mean rate of growth (slope) estimated based on geographic atrophy (GA) area measured by fundus autofluorescence (FAF) in at least 3 time points over 12 months, when compared with Sham (square root treansformation). Details of an analysis at 18 and 24 months, if applicable, will be specified in a separate SAP.

The ICH guideline E3 "Structure and Content of Clinical Study Reports" is used as a guide to the writing of the plan.

STUDY DESIGN AND OBJECTIVES

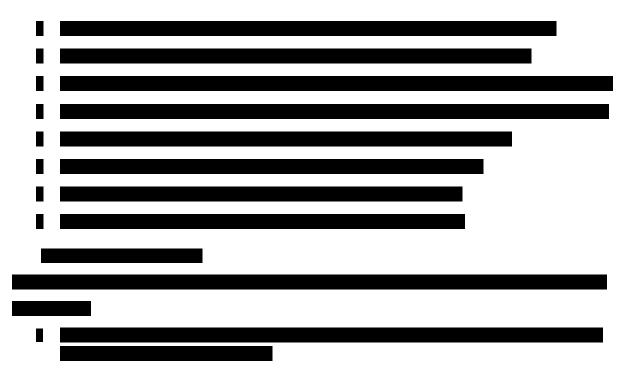
STUDY OBJECTIVES

The objectives of this study are to evaluate the safety and efficacy of Zimura intravitreal administration in patients with geographic atrophy secondary to age-related macular degeneration (AMD).

Primary Efficacy Outcome

The primary efficacy outcome is the mean rate of growth (slope) estimated based on GA area measured by FAF in at least 3 time points: Baseline, Month 6, and Month 12 (square root transformation).





Safety Outcomes

The following safety outcomes will be evaluated:

- Adverse events (AEs)
- Serious adverse events (SAEs)
- Vital signs (pulse, systolic and diastolic blood pressure)
- Ophthalmic variables (ophthalmic examination, best corrected visual acuity (BCVA), low luminance BCVA (LLBCVA), intraocular pressure (IOP))
- Electrocardiography (ECG) (12-lead)
- Laboratory variables (blood: hematology, renal function, hepatic function, and electrolytes; urinalysis)

STUDY DESIGN AND SAMPLE SIZE

Approximately 400 patients will be randomized at Day 1 in a 1:1 ratio to the following monthly treatment groups:

- Zimura 2 mg
- Sham

Patients receiving monthly Zimura 2 mg will be re-randomized at Month 12 in a 1:1 ratio to the following treatment groups:



- Zimura 2 mg administered monthly from Month 12 Month 23
- Sham administered at Months 12, 14, 16, 18, 20, and 22, and Zimura 2mg administered every other month at Months 13, 15, 17, 19, 21, and 23

All patients who were initially randomized to Sham (at Day 1) will continue with monthly Sham injections through Month 23.

All patients will have a final follow-up visit at Month 24.

The trial consists of a total treatment period of 24 months. This SAP covers all analyses to be performed on 1 year (12 months) data.

The sample size for this study is based on the 12-month results of the OPH2003 (GATHER1) pivotal international, multicenter, randomized, double masked, sham-controlled clinical trial that was performed to evaluate the safety and efficacy of Zimura in patients with geographic atrophy secondary to AMD. The prespecified primary endpoint, mean change in GA growth over 12 months, equivalent to the mean rate of GA growth used in this study, was measured by fundus autofluorescence (FAF) based on readings at three time points (Baseline, Month 6, and Month 12) and was calculated using the square root transformation of the GA area. The FAF images were assessed by an independent masked reading center. The reduction in the mean rate of GA growth over 12 months was 0.11 mm (p = 0.0072) for the Zimura 2 mg group compared to the Sham control group.

A total of approximately 400 patients will be randomized in the GATHER2 trial. The effect of treatment will be assessed on the square root transformation of the mean rate of GA growth (slope) estimated based on GA area measured in at least 3 time points over 12 months, where the analysis of variance will include the stratification factors. Suppose the standard deviation for the primary endpoint in GATHER2 is as assumed in the design of the GATHER1 trial, (which is 7% higher than was actually observed in that trial.) If the 2 mg dose of Zimura truly provides a 0.11 mm reduction in the mean rate of GA growth over 12 months, then the trial will have 97% power to detect that effect when using a test statistic having (one-sided) 2.5% false positive error rate. Furthermore, the trial will have nearly 90% power to achieving an even more robust significance level at two-sided p<0.01. Statistical significance at the traditional level of two-sided p=0.05 would be achieved with an estimated 0.057 reduction in the mean rate of GA growth over 12 months. Note that the power of the trial will be slightly lower when using an alpha-level that would be adjusted by (two-sided) 0.001 for each DSMB meeting at which any data are reviewed.

RANDOMIZATION

Patients will be centrally allocated to one of the two treatment groups by a dynamic minimization procedure using clinical site in a 1:1 ratio stratified by factors known to be of prognostic importance in AMD:

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- Baseline visual acuity < 50 ETDRS letters (20/100 Snellen equivalent) vs. ≥ 50 ETDRS letters
- Size of Baseline GA (< 4 disc areas vs. ≥ 4 disc areas)
- Pattern of FAF at the junctional zone of GA (none/focal vs. banded/diffuse)

Patients initially randomized to Zimura 2 mg at Day 1 will be re-randomized at Month 12 in 1:1 ratio to Zimura 2 mg monthly vs every other month using the same minimization procedure as for the initial randomization (i.e., using the same factors at Baseline).

Randomization will be performed using an IRT system based on the stratification information above to randomize each subject and assign a treatment arm.

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DEFINITION OF POPULATIONS

The analysis and reporting of the data from this study will be performed using the following analysis populations:

Intention-To-Treat (ITT) Population

The intention-to-treat population (ITT) will consist of all randomized subjects who received at least one dose of study drug. Subjects will be analyzed in the treatment group assigned at randomization.

Per-protocol (PP) Population

The per-protocol population (PP) will consist of all ITT subjects without any significant violation of the protocol. The significant and major protocol violations will be defined prior to database lock in a masked fashion.

Safety Population

The safety population will include all subjects who received at least one dose of study drug. Subjects who have ever received an injection of Zimura during this trial will be analyzed in the Zimura group.

DEFINITION OF SUBGROUPS

The mean rate of growth (slope) estimated based on GA area measured by FAF in at least 3 time points: Baseline, Month 6, and Month 12 (square root transformation) will be displayed within the following subgroups:

- Size of Baseline geographic atrophy (< 4 disc area vs. ≥ 4 disc area)
- Baseline visual acuity < 50 ETDRS letters (20/100 Snellen equivalent) vs. ≥ 50 ETDRS letters
- Pattern of Fundus Auto Fluorescence (FAF) at the junctional zone of GA (None/focal vs. banded/diffuse)
- Age (<65 vs. $65 \sim 74$ vs. $75 \sim 84$ vs. ≥ 85)
- Gender (Male vs. Female)
- Race (American Indian/Alaska Native vs. Black or African American vs. Asian vs. Native Hawaiian/Pacific Islander vs. White vs. Other)
- Ethnicity (Hispanic or Latino vs. Not Hispanic or Latino)

DATA HANDLING CONVENTIONS

General Conventions

Data will be analyzed using SAS Studio (version 3.6) or R. Descriptive analyses will be performed on Baseline, safety and efficacy data. All tables will be created by treatment arm (Zimura and Sham) and overall



Descriptive statistics will be tabulated as follows:

- Categorical data will be summarized in contingency tables presenting frequencies and percentages.
- Continuous data will be summarized using number of non-missing values (n), mean, standard deviation, median, minimum, 1st quartile (Q1), 3rd quartile (Q3), and maximum values.

Listings with individual subjects' data will be provided for all CRF (including derived data) and central laboratory data or other external data. Data collected in the CRF that are *not* present in a table will also be listed (e.g., time and method of tonometry, comments fields, data on Fatal Outcomes page, etc.).

Visit Windows

The scheduled visits will be used in the analyses over time.

Missing scheduled follow-up visits will be substituted by an unscheduled or early withdrawal visit occurring within each follow-up visit window, if there is only one unscheduled or early withdrawal visit occurring within the window. If there are multiple unscheduled or early withdrawal visits occurring within the window, the closest one within the visit window will be used. If no unscheduled or early withdrawal visit occurred within the window, the visit will be considered as missing. The *details* are tabulated in **Appendix 1**.

Procedures for Minimizing the Occurrence of Missing Data

Of note, the proper approach to address missingness is the prevention of missing data. The sponsor will implement aggressive proactive approaches to minimize the number of patients who are not assessed at 12 months. Among these approaches are the following:

- The study protocol properly distinguishes between reasons for nonadherence (that is, for not receiving randomized therapy and hence for being "off study treatment") versus nonretention (that is, for not obtaining outcome information and hence for being "off study"). There are only 2 valid reasons a patient can be off study: withdrawal of consent or the achievement of all required efficacy and safety end point information
- The term 'withdrawal of consent' is used only when the patient no longer wishes to participate in the trial and no longer authorizes the investigators to make efforts to continue to obtain their outcome data
- Patients are educated during the informed consent process about the continued scientific relevance of their data even if they discontinue treatment, as well as the deleterious effect that missing data has on trial integrity and credibility
- To enable proper ITT analyses, all patients will be followed until death or trial completion, even if off they discontinue study treatment or initiate other treatment



- Creative and effective procedures are being implemented during enrollment and follow-up to enhance achieving targeted levels of retention.
- An oversight process by the sponsor is in place during trial conduct to ensure the achievement of performance standards, including targeted levels of data capture.

Handling Missing Data in Efficacy analyses

Methods that take into account the presence of missing data and that yield valid estimates under the assumption of data missing at random (MAR) will be used. In particular, a Mixed Model for Repeated Measures fitted by Restricted Maximum Likelihood method will be used in the primary analysis, where as-observed data will be used with no imputation. Multiple-imputation will be used in sensitivity analyses, whenever necessary, to impute the missing data, as described in Section 7.4.

Handling Missing Data in Descriptive Analyses

When summarizing categorical variables, subjects with missing data are generally not included unless otherwise specified. When needed, the category of "Missing" is created and the number of subjects with missing data is presented.

When summarizing continuous variables, subjects with missing data are not included in calculations. No imputations are made.

Handling Missing or Partially Missing Dates

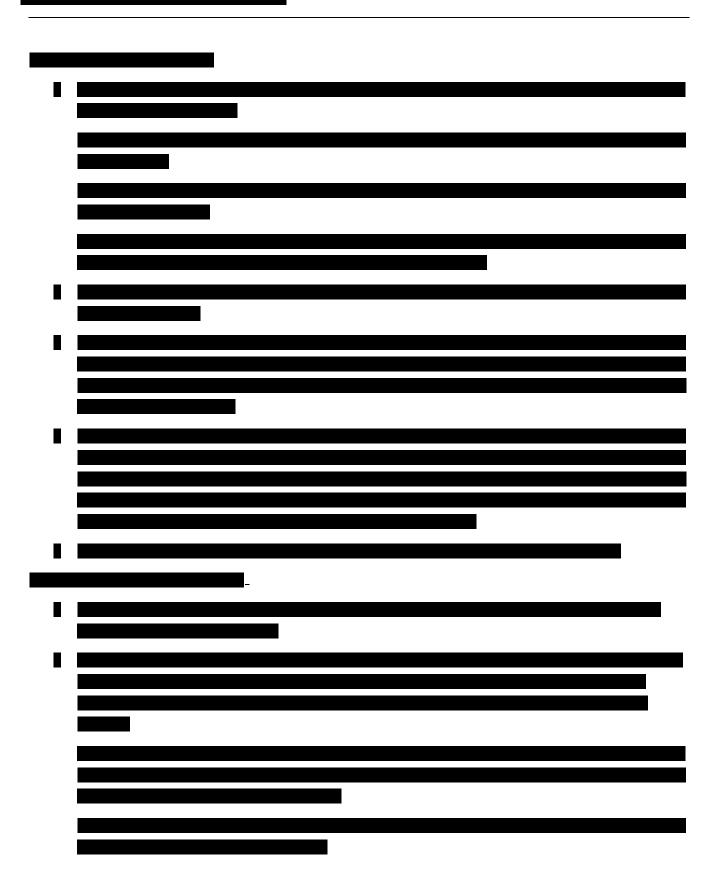
Missing or partially missing dates will not be imputed at data level. However, assumptions for missing or partially missing dates for important variables will be made to allow inclusion of appropriate data records in the analyses. In general, the assumptions about the missing or partially missing dates, when needed, are made conservatively to avoid overestimation of treatment effect and underestimation of adverse effects.

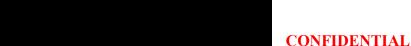
If a medication date or time is missing or partially missing, so it cannot be determined whether it was taken prior or concomitantly, it will be considered both as a prior and a concomitant medication.

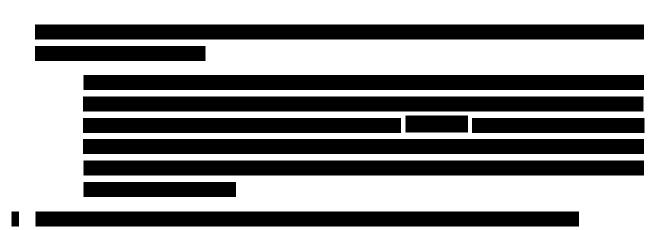
If the partial AE onset date information does not indicate whether the AE started prior to treatment or after treatment, the AE will be classified as after the start of treatment.











STUDY SUBJECTS

DISPOSITION OF SUBJECTS

Efforts will be made to clearly record reasons for study and/or treatment discontinuations.

The number of subjects randomized and treated, by treatment arm will be presented. The reason for exclusion from one or more analysis sets will be summarized.

The frequency of premature discontinuations from the study treatment prior to Month 12 will be given by treatment arm and overall. The details of the 'Adverse Event', 'Protocol violation', 'Investigator decision', 'Sponsor Decision', 'Subject request', 'Lost to Follow-Up', 'Subject Non-Compliance', 'Death', or 'Other' will be included in a listing.

The frequency of premature discontinuations from the study prior to Month 12 will be given for the ITT and PP population by treatment arm and overall. The primary reason for non-completion of the study will be summarized.

TREATMENT MISALLOCATIONS

For subjects with errors in treatment allocation, the following is described under which treatment groups they will be reported for efficacy and safety analyses:

For example, if subjects were:

- Randomized (regardless of error) but not treated, then they will be excluded for all efficacy and safety analyses. These subjects will be included in the summary of subject populations.
- Treated but not randomized, then by definition they will be excluded from the efficacy analyses since randomization is missing, but will be reported under the treatment they actually received for all safety analyses.

-

¹ The ETDRS lines in order, from largest to smallest, are 20/800, 20/640, 20/500, 20/400, 20/320, 20/250, 20/200, 20/160, 20/125, 20/100, 20/80, 20/63, 20/50, 20/40, 20/32, 20/25, 20/20, 20/16, 20/13, 20/10.

• Randomized but were administered the incorrect treatment at any time during the study, then they will be reported under their randomized treatment group for efficacy analyses on ITT population, but will be reported under the treatment they actually received for all safety analyses on Safety population (see Section 3.2.3); specifically, this implies that for safety analyses, a patient who ever received Zimura will be included in the Zimura group.

PROTOCOL VIOLATIONS

All protocol violations will be assessed and identified prior to database lock in a masked fashion to determine whether they are significant, major, or neither by the sponsor. The final list of major and significant protocol violations will be provided prior to the database lock.

Subjects with significant protocol violations will be excluded from the Per-Protocol population.

The major protocol violations and significant protocol violations will be summarized for the ITT population. The details will be listed by subject and by treatment arm.

INCLUSION AND EXCLUSION CRITERIA

A frequency table of all inclusion and exclusion criteria not met will be provided for the ITT population by treatment arm and overall. A detailed listing will be provided by subject.

DEMOGRAPHIC AND OTHER BASELINE CHARACTERISTICS

Descriptive statistics will be provided to document Baseline and on-trial comparability, including demographic information and treatment administration. No tests of significance will be carried out to compare treatment groups on Baseline data because any observed differences between them must be attributed to chance.

Descriptive statistics with respect to subject characteristics at Baseline will be displayed for the ITT population; if the PP and safety populations are different than the ITT population, demographic data will also be provided for these populations. When several measurements are available before the first administration of study drug, the Baseline value is the last available value prior to first dose, except for the Baseline visual acuity score which is the mean of the Screening and Day 1 values, if both are available

The variables to be summarized are:

- Gender, ethnicity, race, iris color, age, current smoking status
- Prior ocular history, both eyes (by MedDRA preferred term, including number and percentage of all subjects with at least one prior ocular history)
- Medical history (excluding ocular history) (by body system and preferred term, with number and percentage for both; including number and percentage of all subjects with at least one prior medical history)



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- Prior surgeries/procedures (by body system and preferred term, with number and percentage for both; including number and percentage of all subjects with at least one prior surgery/procedure)
- Vital signs (height, weight, pulse, blood pressure)
- ECOG performance status
- Pregnancy test
- Visual acuity (ETDRS and Snellen equivalent), both eyes
- Low luminance visual acuity (ETDRS and Snellen equivalent), both eyes
- Tonometry, both eyes
- ECG
- Ophthalmic exam, both eyes (motility, lids/lacrimal/lashes, conjunctiva/sclera, cornea, anterior chamber activity: cells, iris, pupils, lens status, vitreous haze, vitreous hemorrhage, posterior vitreous detachment, optic nerve, macula, retinal vessels, peripheral retina)
- Fundus autofluorescence (FAF) imaging assessments, both eyes
 - o Localization of hypo FAF (Foveal, Extrafoveal, Ungradeable or no hypo FAF present)
 - Localization of peripapillary atrophy (Temporal only, Nasal and temporal, ungradeable or not applicable)
 - o Hyper FAF pattern (Fine granular-punctate spots, Branching, Fine granular-dusty, Trickling, Reticular, Patchy, Banded, Focal, Not determinable/NA)
 - Temporal peripapillary atrophy (N/Y/ungradable or NA)
 - o Is peripapillary atrophy confluent with macular GA (N/Y/ungradable or NA)
 - o Macular atrophy gradable (N/Y) and reason if not gradable
 - Area of macular atrophy (mm²)
- Fluorescein angiography (FA) imaging assessment, both eyes
 - Evidence of CNV

PRIOR AND CONCOMITANT MEDICATION

All prior and concomitant medications will be summarized separately by WHO Drug code (version 2020 v1) on the ITT population. Medication usage will be summarized according to the 2nd level (main therapeutic level) and the 4th level (preferred term level) Anatomic Therapeutic Chemical (ATC) classification. Subjects will only be included once in the summaries within each ATC 2nd level or ATC 4th level category. The summaries will include the number and percentage of all Subjects with at least one prior or concomitant medication, respectively.



EFFICACY EVALUATION

All efficacy analyses will be conducted for the ITT population. The primary endpoint will also be conducted for the PP population in a supportive manner.

The primary analysis will use the ITT population and will be based on a Mixed Model for Repeated Measures (MMRM) to compare the treatment groups. This analysis provides valid estimates as long as the missing data mechanism fulfills the Missing at Random (MAR) assumption. However, sensitivity analyses (see Section 7.4.1) will be performed to assess the potential magnitude and direction of the impact of missing data.

CONTROL OF ALPHA

The overall (one-sided) false positive error rate in this trial is 0.025.

An alpha-level adjustment will be made in the assessment of statistical significance at the time of the final analysis, equal to (two-sided) 0.001 for each DSMB meeting for any look at the data. There will not be formal interim analyses for early termination for benefit and, in turn, the DSMB will not make recommendations for early termination even if emerging data would provide strongly favorable evidence for benefit. Rather, the principal justification for the DSMB to have access to emerging data on efficacy as well as safety data during DSMB meetings is to enable the DSMB to more effectively safeguard interests of study participants through a properly informed assessment of benefit-to-risk.

ANALYSIS OF PRIMARY EFFICACY OUTCOME

The primary efficacy endpoint is the mean rate of growth (slope) estimated based on GA area measured by FAF in at least 3 time points: Baseline, Month 6, and Month 12 (square root transformation). To eliminate the dependency of GA growth rates on the Baseline lesion size (Feuer et al., 2013), instead of using the observed GA area measurement, the square root of the GA area will be used in the analysis.

Primary Estimand

In alignment with the primary objective of the study, the main estimand to be used for the evaluation of the primary outcome is described as:

The difference in the mean rate of growth (slope) estimated based on GA area measured by FAF in at least 3 time points: Baseline, Month 6, and Month 12 (square root transformation) between treatment conditions (Zimura versus Sham) in the target patient population, regardless of any non-adherence to or interruption of study treatment, and regardless of initiation of alternative treatment.

The following 5 attributes define the main estimand for primary endpoint evaluation:

A. Population:

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Population defined through inclusion/exclusion criteria to reflect the targeted patient population. Analysis will be performed on all randomized patients who received at least one dose of study drug.

B. Treatment:

Zimura 2 mg versus Sham.

C. Primary variable:

Mean rate of growth (slope) of the square root of GA area over 12 months.

- D. Intercurrent events (ICE's) and strategies:
 - 1. Treatment changes (i.e., interruptions, non-adherence, dose changes, discontinuation): "treatment policy" i.e., treatment changes will be ignored and all data collected will contribute to the analysis regardless of whether or not these follow such ICE's.
 - 2. COVID-19: "treatment policy" i.e., impact of COVID-19 pandemic will be ignored and all data collected will contribute to the analysis regardless of whether or not these follow such ICE's.

E. Population-level summary:

Difference between groups in mean rate of growth (slope) of the square root of GA area over 12 months.

The primary estimator is described as follows.

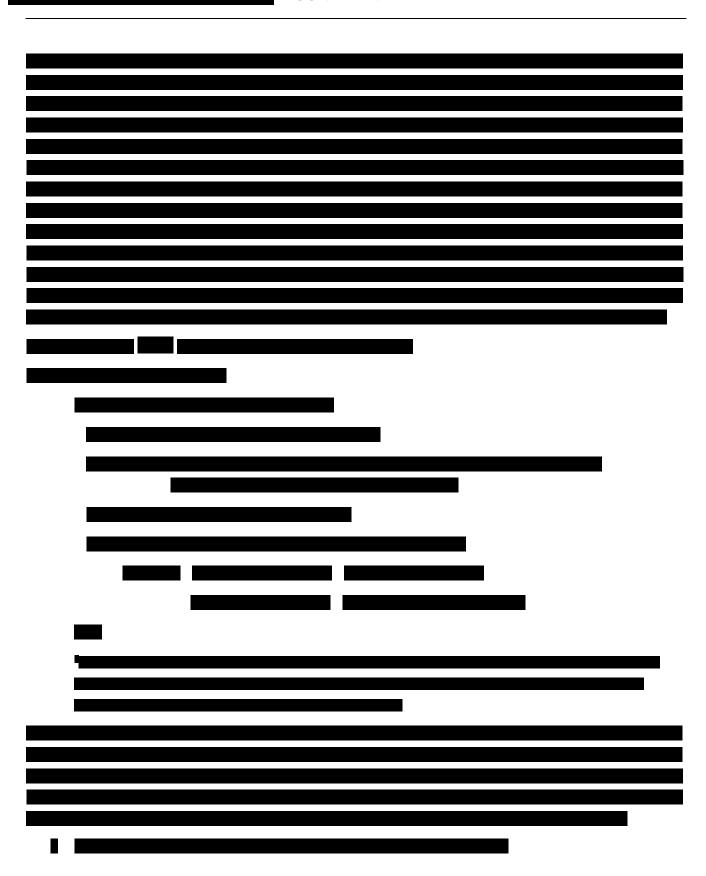
A mixed model for repeated measures (MMRM) will be applied to all available data, using as response variable the square root of GA area measured by FAF in at least 3 time points: Baseline, Month 6, and Month 12. The MMRM will be used to assess the difference between the treatment groups in terms of the rate of growth of the square root of GA area (slope) over 12 months. Previous trial OPH2003 (GATHER1) showed the change in the square root of geographic atrophy to be remarkably linear over time. As a result, a linear model is not only convenient and easily interpretable, but it is also appropriate given the natural history of the disease. A model will be fitted by using restricted maximum likelihood (REML) and include Baseline VA (< 50 letters vs. ≥ 50 letters), and pattern of FAF at the junctional zone of GA (none/focal vs. banded/diffuse) as used in the randomization as covariates. For the model, fixed effects will include time, treatment, Baseline VA (< 50 letters vs. ≥ 50 letters), pattern of FAF at the junctional zone of GA (none/focal vs. banded/diffuse), treatment by time interaction, Baseline VA (< 50 letters vs. \geq 50 letters) by time interaction, and pattern of FAF at the junctional zone of GA (none/focal vs. banded/diffuse) by time interaction. The model will include an unstructured modelling of within-subject correlations. If this analysis fails to converge, alternative structures (e.g., heterogeneous autoregressive, heterogeneous compound symmetry, autoregressive, or compound symmetry, in this order) will be considered. The Kenward-Roger approximation will be used to estimate denominator degrees of freedom. The test of difference between the two arms in the mean rate of growth



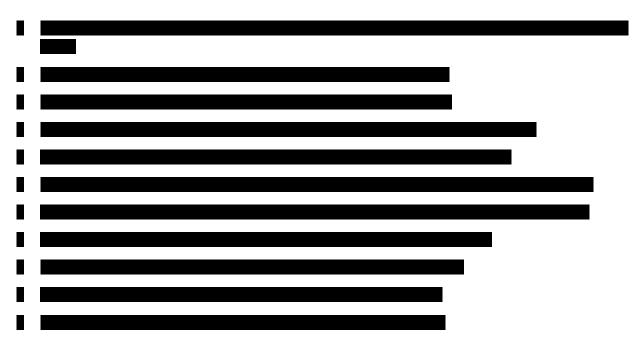
(slope) of the square root of GA area over 12 months will be assessed by testing the appropriate contrast of the model parameter estimates.

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SENSITIVITY ANALYSES

Sensitivity Analyses for Missing Data

For the analyses of the primary outcome, the MMRM analysis does not require data imputation and uses only the observed data. Moreover, assuming that the missing data are MAR, the model yields valid results that are comparable to those obtained by applying MI under the MAR assumption.

Four analyses described by Miller et al. (2001) will be performed for further insight into the potential impact of missing data on the results:

- 1. the observed means from the active arm and the sham arm will be imputed to patients with missing data in the arm they were allocated to;
- 2. the average of observed means from the active arm and the sham arm will be imputed to all patients with missing data;
- 3. the observed mean from the sham arm will be imputed to all patients with missing data.
- 4. the observed means from the active arm and the sham arm will be imputed to patients with missing data in the opposite arm they were allocated to (a "cross-over" scheme);

These four sensitivity analyses make different assumptions about missing data, and are likely to be increasingly biased against a true treatment effect. A robust treatment effect would be expected to remain statistically significant in analyses 1 to 3, since these are likely to be much less biased than analysis 4 under the assumption of a true treatment effect.

To check the sensitivity of the results of the primary efficacy analysis (using the primary estimator as described in section 7.2) to the MAR assumption, MI based on models compatible with Missing Not At

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Random (MNAR) missingness mechanisms will be used. Two approaches, using SAS' PROC MI, will be considered:

- 1. The "shift imputation" approach: for missing values at a particular visit, it will be assumed that their expected value is smaller (shifted) by a specified amount (i.e., a specified shift in the size of GA), than for the observed responses (implying that the missing values are more likely corresponding to smaller changes vs. Baseline than the observed ones). Increasing values of the shiftwill be explored to investigate the sensitivity of the results. This approach can be applied to data with arbitrary missing data patterns. The "tipping point" is the value of the shift that causes statistical significance to be lost. For a robust treatment effect, the tipping point would be considered an implausible value of the shift used in the missing data imputation.
- 2. The "pattern-mixture-model imputation" approach: missing values at Month 12 visit will be imputed by using the pattern-mixture-model restrictions. Pattern-mixture models provide a general and flexible framework for sensitivity analyses that allows formulating assumptions regarding missing data in a transparent and clinically interpretable manner. In particular, Complete-Case Missing Value (CCMV) and Neighbouring-Case Missing Value (NCMV) restrictions will be applied.

Of note, these imputation techniques are known to induce potential bias, hence they will be used only for sensitivity purposes.

Sensitivity Analysis for Stratification Error

On Monday November 16, 2020 the Duke Reading Center notified that an error occurred at the reading center in the reporting of fundus autofluorescence (FAF) results used as stratification factors for randomization of eligible patients into GATHER2 (ISEE2008) clinical trial.

As a result, 38 patients randomized with Baseline geographic atrophy size between 4 to 10 mm² were placed in a stratum that included participants with size \geq 10 mm² rather than being placed in stratum that included participants with size \leq 10 mm².

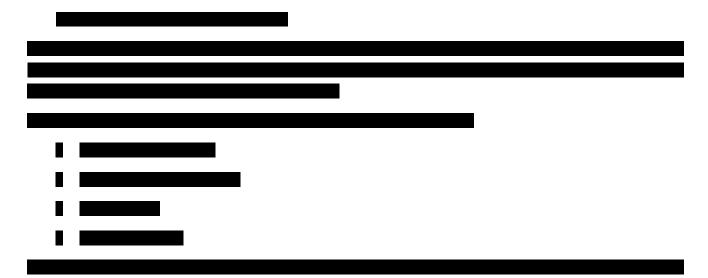
To assess the impact of this stratification error, two sensitivity analyses will be done by performing analyses that stratify by 3-level covariates for the Baseline geographic atrophy size. The first analysis will stratify by: $< 4 \text{ mm}^2 \text{ vs.} \ge 4 \text{ to} < 10 \text{ mm}^2 \text{ vs.} \ge 10 \text{ mm}^2$, and the second analysis will stratify by: patients randomized prior to November 16, 2020 vs. $< 4 \text{ mm}^2 \text{ vs.} \ge 4 \text{ mm}^2$.

Since November 16^{th} , patients have been stratified correctly as indicated in the protocol based on their baseline geographic atrophy size: < 4 disc areas (10 mm^2) vs ≥ 4 disc areas (10 mm^2). The minimization procedure was not modified after November 16, 2020, because implementing any changes to this procedure would have meant putting the trial on hold while the changes were being implemented and validated. Furthermore, an inspection by the randomization center of the balance with respect to baseline geographic atrophy size achieved on November 16, 2021 provided reassurance that the minimization algorithm could continue unchanged.



Sensitivity Analysis for Observed GA Measurement

The sensitivity of the results from the analyses of observed (non-square root transformed) area of GA over 12 months will be conducted using the same analysis model as specified in section 7.2.



Descriptive Summaries by Visit

The change in score from Baseline will be analyzed as continuous variables. The composite score and the scores of each sub-scales at Baseline and the changes from Baseline will be summarized descriptively by visit and by treatment group using the observed cases (missing values will not be imputed).

SUBSET ANALYSES

The trial is not designed to have adequate power to formally test for the presence of treatment by covariate interactions. Thus, true treatment by covariate interactions will likely be missed, unless they are quite substantial. Conversely, should particular subsets of subjects seem to benefit more or less from therapy than the total population, this will not be taken as reliable evidence of a true treatment by covariate interaction, given the likelihood that such an observation could be due to chance alone. With these caveats in mind, exploratory subset analyses will be performed to identify any major effect that might be worth testing in future trials. In a descriptive manner, treatment effect will be presented for subsets created by multiple covariates. Among these covariates will be the stratification factors: Baseline VA ($< 50 \text{ vs.} \ge 50 \text{ ETDRS}$ letters), Baseline GA ($< 4 \text{ vs.} \ge 4 \text{ disc area}$), Pattern of FAF at the junctional zone of geographic atrophy (none/focal vs. banded/diffuse) as well as age (<65 vs. 65~74 vs. 75~84 vs. ≥85), gender (male vs. female) race (American Indian/Alaska Native vs. Black or African American vs. Asian vs. Native Hawaiian/Pacific Islander vs. White vs. Other), and ethnicity (Hispanic or Latino vs. Not Hispanic or Latino).

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Since these analyses will be considered as exploratory, they will be conducted without any alpha-level adjustment.

SAFETY EVALUATION

All safety analyses will be performed on the safety population. The analyses will be conducted according to the treatment that they actually received. However, subjects who have ever received an injection of Zimura will be analyzed in the Zimura group. Missing values of safety data will not be imputed and safety summaries will be based on the observed cases.

EXTENT OF EXPOSURE

Exposure to study medication will be evaluated for each treatment group with respect to treatment duration (= Last injection date - First injection date + 30, in days), number of subjects treated at each planned visit, total injections received, using descriptive statistics (N, mean, standard deviation, median, minimum, Q1, Q3, maximum).

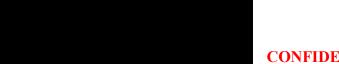
ADVERSE EVENTS

Adverse events (AEs) will be recorded starting after the first dose of study drug and continuing until 30 days after the last dose or until the last follow-up visit required by the protocol, whichever comes later. AE data will be evaluated for each treatment group.

Only first year AE data will be included in the following analyses. Treatment Emergent Adverse Events (TEAEs) from the first year will be defined as starting after the first dose of study drug until prior to Month 12 injection. If a Month 12 injection does not exist, the end of the first year is defined as the Month 12 visit (or target of 365.25 days after the first dose if no Month 12 visit) or 30 days after the last injection, whichever is later.

All AEs will be coded using MedDRA™ (version 23.0 update) terms.

- An overview of TEAEs will be provided. A second overview of TEAEs will be provided which displays the overall summary of TEAEs by the categories 'Study Eye', 'Non-Study Eye', and 'Non-Ocular'. In addition, the number and percentage of patients with TEAEs will be tabulated for each treatment group and in total by system organ class (SOC) and preferred term (PT). The number and percentage of the subjects who experienced at least one TEAE will be included. Subjects will only be counted once for each preferred term. In case that a subject experienced the same event more than once, the worst severity will be presented.
- Tabular summaries of the following AEs will be provided by SOC and PT:
 - Summary of TEAEs
 - All TEAEs regardless of the relationship to study treatment
 - All TEAEs regardless of the relationship to study treatment with frequency of \geq 5% in any treatment arm.



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- TEAEs related to study treatment
- TEAEs related to injection procedure
- TEAEs by the maximum severity grade
- TEAEs related to study treatment by the maximum severity grade
- TEAEs related to injection procedure by the maximum severity grade
- All Ocular TEAEs by study eye and fellow eye
- Treatment related Ocular TEAEs by study eye and fellow eye
- Injection procedure related Ocular TEAEs by study eye and fellow eye
- Ocular TEAEs (study eye) by the maximum severity grade
- Treatment related Ocular TEAEs (study eye) by the maximum severity grade
- Injection procedure related Ocular TEAEs (study eye) by the maximum severity grade
- TEAEs with high level term of cataract conditions by study eye and fellow eye
- TEAEs leading to discontinuation of study drug
- Treatment related TEAEs leading to discontinuation of study drug
- Injection procedure related TEAEs leading to discontinuation of study drug
- Ocular TEAEs (study eye) leading to discontinuation of study drug
- TEAEs leading to death
- Treatment related TEAEs leading to death
- Injection procedure related TEAEs leading to death
- Ocular TEAEs have been defined as TEAEs linked to the "Eye Disorders" system organ class and the 'Intraocular pressure increased' preferred term.
- All AEs, including non-TEAEs, will be included in individual subject listings.
- The listings will include the subject identifier, age, sex, verbatim term, preferred term, eye (N/A/OD/OS/OU), serious (yes/no), date of onset, relative study day of onset, onset before injection, after first injection or after second injection, duration of the event (or continuing), severity (mild/moderate/severe), causality (relationship to study medication/injection procedure), action taken (study drug permanently discontinued: yes/no), treatment (yes/no), and outcome (resolved/not resolved/fatal).
- The same listings will be provided separately for severe AEs, AEs leading to permanent discontinuation of the study treatment, and for AEs leading to death.



SERIOUS ADVERSE EVENTS AND DEATHS

- Treatment-Emergent Serious adverse events (SAEs) will be summarized by system organ class and preferred term. The number and percentage of the subjects who experienced at least one SAE will be included.
- SAE data will be evaluated for each treatment group.
- Tabular summaries of the following SAEs will be provided:
 - All SAEs regardless of the relationship to study treatment
 - SAEs related to study treatment
 - SAEs related to injection procedure
 - Ocular SAEs (study eye) regardless of the relationship to study treatment
 - Ocular SAEs (study eye) related to study treatment
 - Ocular SAEs (study eye) related to injection procedure
- In addition, separate listings will be created for deaths and all SAEs. List for SAEs will include the subject identifier, age, sex, verbatim term, preferred term, eye (N/A/OD/OS/OU), serious (yes/no), date of onset, relative study day of onset, onset before injection, after first injection or after second injection, duration of the event (or continuing), severity (mild/moderate/severe), causality (relationship to study medication/injection procedure), action taken (study drug permanently discontinued: yes/no), treatment (yes/no), and outcome (resolved/not resolved/fatal).

VITAL SIGNS

Descriptive statistics at each time point up through and including the Month 12 visit will be used to display the changes from Baseline for pulse and blood pressure (systolic and diastolic). Mean change of pulse and blood pressure (systolic and diastolic) from Baseline to the last measurement will be provided.

OPHTHALMIC VARIABLES

Ophthalmic Examination. The following ophthalmic examination variables will be analysed by shift table from Baseline to the pre-injection examination on Month 12 or last visit available whichever comes later (normal/abnormal, unless otherwise specified below).:

- Examination of the motility
- Inspection of the lids/lacrimal/lashes
- Examination of the conjunctiva/sclera
- Inspection of the cornea



- Examination of the iris
- Examination of the pupils
- Inspection of the lens status (aphakic, pseudo-phakic, phakic; if phakic, nuclear/PSC/cortical 0, 1, 2, 3, 4), including a listing of subjects with a change in lens status for study eye and (separately) for fellow eye
- Examination for posterior vitreous detachment
- Inspection of the optic nerve
- Inspection of the macula
- Examination of the retinal vessels

The following ophthalmic examination variables will be analysed by shift table from Baseline through Month 12 or last visit available whichever comes later, on a monthly basis (normal/abnormal, unless otherwise specified below), and from pre-injection to post-injection at each monthly injection

- Examination of anterior chamber activity: Cells (0, trace, 1+, 2+, 3+, 4+)
- Inspection for vitreous haze (0, 1+, 2+, 3+, 4+)
- Examination for vitreous haemorrhage
- Examination of the peripheral retina

Intraocular Pressure. IOP will be summarized by visit, including all pre-injection, "IOP after first injection", and "IOP after second injection" measurements for applicable visits. An additional tabular summary of the percentage of subjects in categories of IOP will be presented by treatment group, visit, and injection time (pre-injection, IOP after first injection, IOP after second injection).

"IOP after injection" is defined as the IOP measurement that is closest in time to the protocol-specified post-injection timepoint (but at least 30 minutes post-injection). If there are two closest measurements equidistant to this timepoint, then the measurement after the protocol-specified timepoint will be used.

Mean IOP over time of all scheduled measurements (pre-injection, IOP after first injection, and IOP after second injection) will be plotted.

CLINICAL LABORATORY DETERMINATION

- All laboratory data will be listed and values falling outside normal ranges will be identified, whether they will be deemed clinically relevant or not.
- Laboratory data will also be summarized in tables presenting values at each scheduled visit up through the Month 12 visit
- Value changes from Baseline to each scheduled visit up through the Month 12 visit

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- A summary table of all analytes with the Baseline mean and the mean change from Baseline to the last value observed
- A summary table of all analytes with the Baseline median and the median change from Baseline to the last value observed

For the following parameters:

- Hematological parameters (hemoglobin, white blood cells, platelets, neutrophils (absolute numbers), lymphocytes (absolute numbers), monocytes (absolute numbers), eosinophils (absolute numbers), basophils (absolute numbers)),
- Renal function parameters (serum creatinine and BUN),
- Hepatic function parameters (serum bilirubin, alkaline phosphatase, GGT, SGOT/AST, and SGPT/ALT),
- Electrolytes (sodium, potassium, chloride, carbon dioxide, calcium, and phosphate),
- Complete urinalysis parameters (complete urinalysis including specific gravity, protein, blood, etc.),
- Serum pregnancy test (if of child-bearing potential).

Additional urine or serum pregnancy testing may be performed during the course of the study at the discretion of the investigator, or in accordance with local requirements or regulations.

The incidence of subjects with "Notable Laboratory Values" after the first dose of study drug will be evaluated using the criteria for Notable Laboratory Values given below. Only data collected after the first dose of study drug, up to the laboratory data taken at the Month visit (before Month 12 treatment is administered) will be included; if there is no Month 12 visit, data will be included up to a target of 365.25 days after date of first dose, or 30 days after the last dose of study drug, whichever is later.

By-subject listings of all notable laboratory values will also be provided; for each subject who has an analyte with a notable value, all values of that particular analyte taken during the study will be presented in the listing, and the notable value, and any values outside of normal limits, will be identified.

For this "Notable Laboratory Values" analysis, *all* laboratory values after randomization will be taken in account, i.e., any values obtained after Day 1, at unscheduled visits, as well as values from the regularly scheduled laboratory visit at Month 12. Three Notable Laboratory Values tables and accompanying by-subject listings will be presented: (1) notable abnormalities for subjects with normal Baseline results, (2) notable abnormalities for subjects with abnormal Baseline results and (3) notable abnormalities without regard to Baseline abnormalities (i.e., normal or abnormal Baseline results). The table without regard to Baseline abnormalities will be a composite of the previous two tables (normal Baseline, abnormal Baseline).



Lab analytes and primary criteria used for Notable Laboratory Values:

a. HEMATOLOGY

- i. Hemoglobin < 0.75x Baseline
- ii. Platelets $< 75 \text{ or } > 750 (10^9/L)$
- iii. WBC count $< 2.5 \text{ or } > 17.5 (10^9/L)$
- iv. Neutrophils (absolute) < 0.5xLLN or > 1.5xULN
- v. Eosinophile (absolute) >1.5xULN
- vi. Lymphocytes (absolute) < 0.5xLLN or > 1.5xULN

b. LIVER FUNCTION

- i. Total bilirubin > 1.5xULN
- ii. Alkaline phosphatase > 1.5xULN
- iii. ASAT (SGOT) \geq 3xULN
- iv. ALAT (SGPT) > 3xULN
- v. GGT > 3xULN

c. RENAL FUNCTION

- i. BUN > 1.3xULN
- ii. Creatinine > 1.3xULN

d. ELECTROLYTES

- i. Potassium < 0.9 xLLN or > 1.1 xULN
- ii. Sodium < 0.9xLLN or > 1.1xULN
- iii. Chloride < 0.9xLLN or > 1.1xULN
- iv. Carbon Dioxide < 0.9 xLLN or > 1.1 xULN
- v. Calcium < 0.9 xLLN or > 1.1 xULN
- vi. Phosphorus < 0.9 xLLN or > 1.1 xULN

Notable abnormalities for subjects with abnormal Baseline results are subject to the primary criteria above and the following secondary criteria:

a. HEMATOLOGY

- i. Hemoglobin < 0.75x Baseline (same as primary criterion)
- ii. Platelets < 0.75x Baseline or > 1.25x Baseline

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- iii. WBC count < 0.75x Baseline or > 1.25x Baseline
- iv. Neutrophils (absolute) < 0.5x Baseline or > 1.5x Baseline
- v. Eosinophils (absolute) > 1.5x Baseline
- vi. Lymphocytes (absolute) < 0.5x Baseline or > 1.5x Baseline

b. LIVER FUNCTION

- i. Total bilirubin > 1.5x Baseline
- ii. Alkaline phosphatase > 1.5x Baseline
- iii. ASAT (SGOT) > 1.5x Baseline
- iv. ALAT (SGPT) > 1.5x Baseline
- v. GGT > 1.5x Baseline

c. RENAL FUNCTION

- i. BUN > 1.3x Baseline
- ii. Creatinine > 1.3x Baseline

d. ELECTROLYTES

- i. Potassium < 0.9x Baseline or > 1.1x Baseline
- ii. Sodium < 0.9x Baseline or > 1.1x Baseline
- iii. Chloride < 0.9x Baseline or > 1.1x Baseline
- iv. Carbon dioxide < 0.9x Baseline or >1.1x Baseline
- v. Calcium < 0.9x Baseline or >1.1x Baseline
- vi. Phosphorus < 0.9x Baseline or > 1.1x Baseline

ECG

ECG results will be tabulated as "normal" or "abnormal" at each visit, and will be presented in a normal/abnormal shift table between Baseline and each scheduled ECG visit, as well as between Baseline and the last ECG taken. Descriptive statistics will be presented for continuous variables (eg, heart rate and RR, PR, QRS, QT, QTcB and QTcF intervals) at each visit. A by-patient listing will be provided for ECGs which are deemed abnormal.

Approved in Vault: 07 Apr 2022

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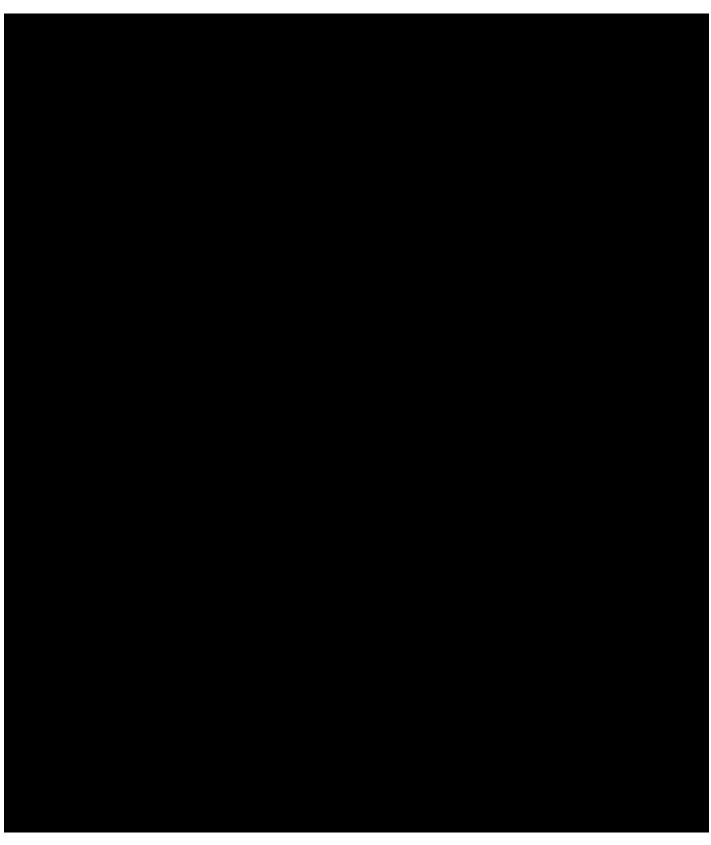
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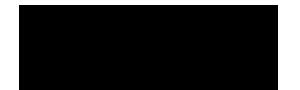


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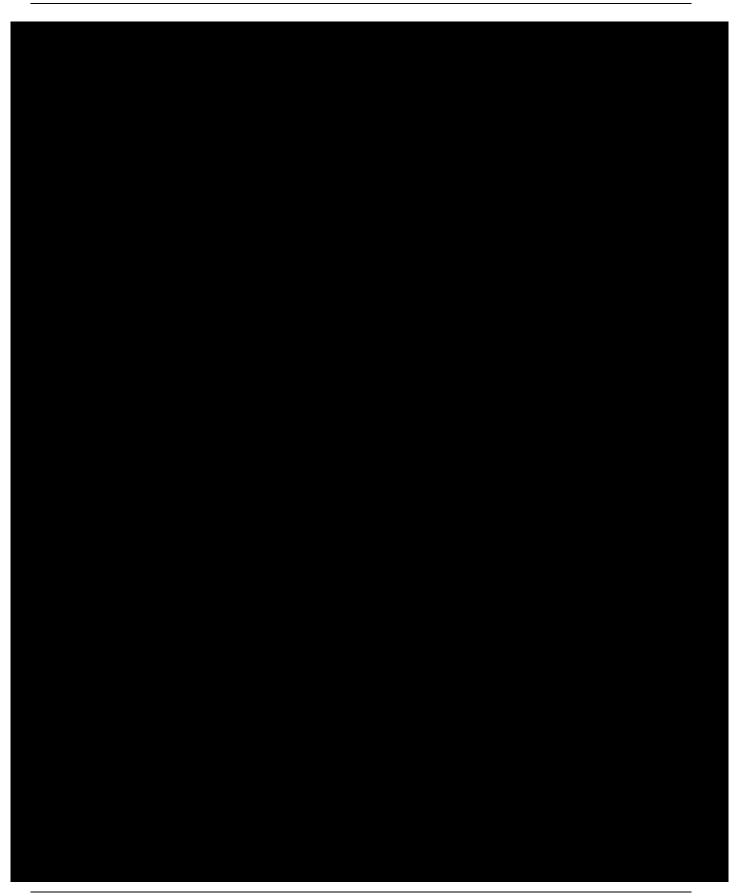






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