

Clinical Development

RTH258/Brolucizumab

CRTH258AFR01 / NCT04239027

**A one-year, single-arm, open-label, multicenter study  
assessing the anatomic outcomes of brolucizumab  
assessed by OCT-A in adult patients with neovascular  
age-related macular degeneration (OCTOPUS)**

### **Statistical Analysis Plan (SAP)**

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|            | Visit window modified   | Visit window updated as per protocol   | Section 2.1.2                        |
|            | Baseline characteristics include more variables                       | Additional Baseline characteristics from central reading center in Vienna are included           | Section 2.3.4                        |
|            | Prior and concomitant Surgery and Procedures was not included         | Added Prior and concomitant Surgery and Procedures as a new section                              | Section 2.4.3                        |
|            | Study treatment exposure removed, the not required compliance section | Updated study treatment exposure   | Section 2.4.1                        |
|            | Dry retina details  | Section added for dry retina   | Section 2.5.1                        |
|            | Presence of fluid add more details                                    | Updated presence of fluid  | Section 2.6.1                        |
|            | Fluorescein Angiography (FA) add more details                         | Updated Fluorescein Angiography (FA)   | Section 2.6.1                        |
|            | Estimand not included   | Added section for estimand as new section  | Section 2.7                          |
|            | Dry retina  | Section added for dry retina   | Section 2.6.1                        |
|            |   |  |                                      |
| 25-01-2023 | Update in protocol  | Updated protocol version number and release date   | <a href="#">Section 1</a>            |
|            | Update number of patients and drop the number of site                 | Sample size re – estimated and number of planned site dropped, change disease activity assesment | <a href="#">Section 1.1</a>          |
|            |   |  |                                      |
|            | Update in on-treatment period defination                              | On treatment period updated to 28 days from last treatment day                                   | <a href="#">Section 2.1.1</a>        |
|            | Update in visit window interval                                       | Lower and upper value for visit window updated   | <a href="#">Section 2.1.2</a>        |

| Date | Reason for update   | Outcome for update   | Section and title impacted (Current)  |
|------|---|--|---|
|      | Update in population for disposition and protocol deviation | Population set for disposition table and listing updated                                   | <a href="#">Section 2.3.1</a> and <a href="#">2.3.2</a>   |
|      | Update in baseline characteristics                          | nAMD category added [REDACTED]   | <a href="#">Section 2.3.4</a>   |
|      | Update in ocular category                                   | Ocular category was updated  | <a href="#">Section 2.3.5</a> , <a href="#">2.4.2</a> , <a href="#">2.4.3</a> and <a href="#">2.9.1</a> |
|      | Update in treatment exposure                                | New category added   | <a href="#">Section 2.4.1</a>   |
|      | Update in unit  | CNV lesion area unit updated   | <a href="#">Section 2.5.1</a>   |
|      | Update in BCVA group  | Loss of BCVA category updated  | <a href="#">Section 2.6.1.4</a>   |
|      | Update in date  | Start date and end date consideration updated  | <a href="#">Section 2.6.1.5.1</a>   |
|      |   | Start date consideration updated   | <a href="#">Section 2.6.1.6.1</a>   |
|      | Update in CPF and fundus examination question               | Vasculitis added in CFP and fundus examination   | <a href="#">Section 2.8.1</a> and <a href="#">2.8.5</a>   |
|      | Update in FAF question                                      | Foveal atrophy added in FAF question   | <a href="#">Section 2.8.2</a>   |
|      | Update in AEs section                                       | Added procedure related, remove EudraCT requirement  | <a href="#">Section 2.9.1</a>   |
|      | Update in AESI analysis                                     | Details for AESI analysis is added   | <a href="#">Section 2.9.1.1</a>   |
|      | [REDACTED]  | [REDACTED]   | [REDACTED]  |
|      | Update in sample size calculation                           | Sample size re-estimation  | <a href="#">Section 3</a>   |
|      | Added protocol change analysis                              | Added protocol change analysis for estimand  | <a href="#">Section 4</a>   |
|      | Update in statistical methodology                           | SAS code for correlation and Bland-Altman plot is deleted. Added code AESI derivation      | <a href="#">Section 5.4</a>   |
|      | Update in protocol deviation list and severity code         | New protocol deviation category added, severity updated and patient classification updated | <a href="#">Section 5.5</a>   |

Hyperlinks were not updated for the amendment v1.0 for the versions dated 20-11-2020 due change in section numbers.

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## List of abbreviations

|          |  |
|----------|--|
| AE       | Adverse event                                  |
| ATC      | Anatomical Therapeutic Classification          |
| BCVA     | Best-Corrected Visual Acuity                   |
| BCNVA    | Best Corrected Near Visual Acuity              |
| CNV      | Choroidal Neovascularization                   |
| CFP      | Color Fundus Photography                       |
| COVID-19 | Coronavirus disease 2019                       |
| CI       | Confidence Interval                            |
| CRC      | Central Reading Center                         |
| CRO      | Contract Research Organization                 |
| CSFT     | Central Sub-Field Retinal Thickness            |
| CRT      | Central Retinal Thickness                      |
| CSR      | Clinical Study Report                          |
| eCRF     | Electronic Case Report Form                    |
| ENR      | Enrolled set                                   |
| FA       | Fluorescein Angiography                        |
| FAF      | Fundus AutoFluorescence                        |
| FAS      | Full Analysis Set                              |
| ICF      | Informed Consent Form                          |
| IGC      | Indocyanine Green Chorioangiography            |
| IOP      | Intraocular Pressure                           |
| IVT      | Intravitreal                                   |
| KM       | Kaplan-Meier                                   |
| MedDRA   | Medical Dictionary for Drug Regulatory Affairs |
| nAMD     | Neovascular Age-Related Macular Degeneration   |
| OCT      | Optical Coherence Tomography                   |
| PK       | Pharmacokinetics                               |
| PD       | Protocol deviation                             |
| PDS      | Programming Datasets Specifications            |
| PPS      | Per-Protocol Set                               |
| PT       | Preferred Term                                 |
| q8w      | Every 8 Weeks                                  |
| q12w     | Every 12 Weeks                                 |
| SAP      | Statistical Analysis Plan                      |
| SAF      | Safety analysis set                            |
| SD-OCT   | Spectral Domain Optical Coherence Tomography   |

|     |                           |
|-----|---------------------------|
| SOC | System Organ Class        |
| SRC | Safety review committee   |
| TFL | Tables, Figures, Listings |
| WHO | World Health Organization |



## 1 Introduction

The purpose of this Statistical Analysis Plan (SAP) is to describe the implementation of the statistical methods for all safety and efficacy analyses planned (Section 12) in the clinical protocol (CRTH258AFR01, version no: 04, release date 16Nov2021). This document will be used to prepare the statistical results and the corresponding Clinical Study Report (CSR).

The details of CSR deliverables (shells for tables, figures and listings) and further programming specifications will be described in the Tables, Figures & Listings (TFL) shells and Programming Datasets Specifications (PDS) respectively will be included in this document.

Data will be analyzed by Novartis and/or the designated Contract Research Organization (CRO). Statistical software SAS version 9.4 or higher will be used for generating TFLs.

### 1.1 Study design

This is a prospective, single-arm, open-label, multicenter study to evaluate the efficacy and safety of brolucizumab 6 mg in patients with nAMD.

Patients will be required to attend 6 mandatory study visits: Screening/Baseline Visit (Day 1), Week 4, Week 8, Week 12, Week 16 and Week 48 visits. The timing of the interim visits between Week 16 and Week 48 will depend on the patient's injection regimen, i.e. q12w or q8w.

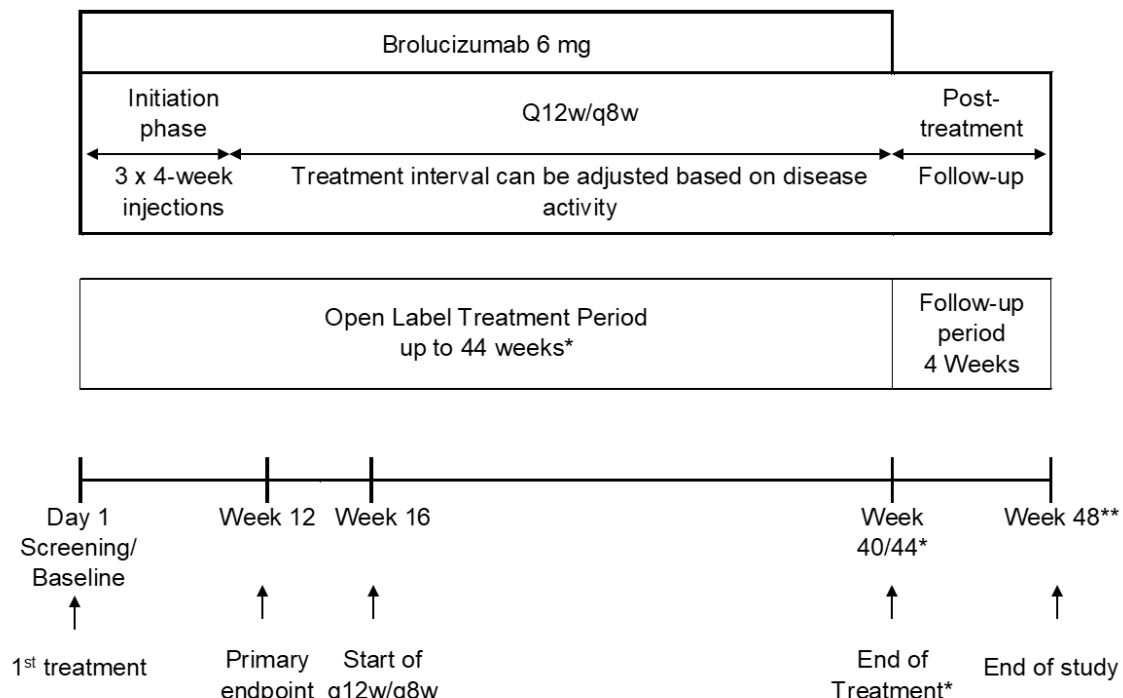
#### Planned number of patients

Approximately 210 adult patients will be screened and included (10% dropout rate and uninterpretable images at Baseline and Week 12 are expected) in France. The maximum study duration for 1 patient is 48 weeks, including Screening.

There will be 2 periods in this study (see [Figure 1-1](#)):

- Open-label treatment period: from Screening/Baseline (Day 1) to Week 40/Week 44 (depending on assigned regimen)
- Follow-up period: Week 40/Week 44 to Week 48

**Figure 1-1 Study design**



\* Week 40 or Week 44 according to treatment schedule

\*\* End of study visit: 4 or 8 weeks after the last IVT, depending on the last IVT date

Patients will receive 3 initial doses every 4 weeks (Day 1, Week 4 and Week 8) loading phase), which should be at least 21 days apart, followed by treatment q12w with the possibility of adjusting to treatment q8w based on disease activity.

Disease activity will be assessed based on investigator's judgment of visual acuity and anatomical parameters as provided in the guidance to the investigators, e.g. decrease of visual acuity and/or other signs of the disease (e.g. intraretinal fluid (IRF), subretinal fluid (SRF), sub-retinal pigmented epithelium (sub-RPE) fluid, retinal hemorrhage, central retinal thickness (CRT) increase, etc.). Disease activity will be assessed during the first q12w interval at Week 16. If no disease activity is observed by the investigator in the study eye, disease activity will be assessed every 12 weeks (at Week 20, Week 32 and Week 44). If disease activity is observed by the investigator in the study eye at any of these visits, the study treatment will be adjusted by the investigator to a q8w treatment regimen and will remain on this regimen until Week 40/Week 44. Patients who require study treatment every 4 weeks after the initiation phase will be discontinued from further study treatment at the next visit.

## 1.2 Study objectives and endpoints

**Table 1-1 Objectives and related endpoints**

| Objectives   | Endpoints   |
|--|---|
| <b>Primary objectives</b>  | <b>Endpoints for primary objectives</b>   |
| <ul style="list-style-type: none"> <li>To evaluate the short-term effect of brolucizumab on CNV lesion area as measured by OCT-A in nAMD patients.</li> </ul>              | <ul style="list-style-type: none"> <li>Percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12.</li> </ul>  |
| <b>Secondary objectives</b>  | <b>Endpoints for secondary objectives</b>   |
| <ul style="list-style-type: none"> <li>To evaluate the long-term effects of brolucizumab on CNV morphology as measured by OCT-A in nAMD patients.</li> </ul>               | <ul style="list-style-type: none"> <li>Percentage change in CNV lesion area measured by OCT-A from Baseline to Week 48.</li> <li>Change in OCT-A features assessed by qualitative and quantitative criteria from Baseline by visit at Week 12 up to Week 48.</li> </ul> |
| <ul style="list-style-type: none"> <li>To evaluate the effect of brolucizumab on anatomical parameters as assessed by SD-OCT and FA from Week 12 up to Week 48.</li> </ul> | <ul style="list-style-type: none"> <li>Change in SD-OCT and FA features assessed by qualitative and quantitative criteria (e.g. CSFT, sub- and/or intraretinal fluid, sub-RPE fluid) from Baseline by visit up to Week 48.</li> </ul>                                   |
| <ul style="list-style-type: none"> <li>To evaluate the efficacy of brolucizumab up to Week 48 by assessing changes in BCVA.</li> </ul>                                     | <ul style="list-style-type: none"> <li>Change in BCVA from Baseline up to Week 48.</li> </ul>   |
| <ul style="list-style-type: none"> <li>To estimate the proportion of patients treated at q12w frequency with brolucizumab.</li> </ul>                                      | <ul style="list-style-type: none"> <li>Proportion of patients who are maintained on an exclusive q12w interval following the loading phase through to Week 48.</li> </ul>   |
| <ul style="list-style-type: none"> <li>To estimate the predictive value of the first q12w cycle for maintenance of q12w treatment with brolucizumab.</li> </ul>            | <ul style="list-style-type: none"> <li>The probability of the first q12w interval for determining successful q12w maintenance at Week 48.</li> </ul>  |
| <ul style="list-style-type: none"> <li>To evaluate the time from last IVT injection in the initiation phase to first visit with no disease activity.</li> </ul>            | <ul style="list-style-type: none"> <li>Time from last IVT injection in the initiation phase to first visit with no disease activity.</li> </ul>   |
| <ul style="list-style-type: none"> <li>To evaluate the safety of brolucizumab.</li> </ul>  | <ul style="list-style-type: none"> <li>Incidence of AEs (serious and non-serious) reported in patients treated with brolucizumab.</li> </ul>  |

AEs= adverse events, BCVA= best corrected visual acuity, CNV= choroidal neovascularization, CSFT= central sub-field retinal thickness, FA= fluorescein angiography, IVT= intravitreal, nAMD= neovascular age-related macular degeneration, OCT-A= optical coherence tomography-angiography, SD-OCT= spectral domain optical coherence tomography, sub-RPE= subretinal pigmented epithelium

## 2 Statistical methods

### 2.1 Data analysis general information

Patients who consent and meet all the inclusion and none of the exclusion criteria will be screened to evaluate eligibility. After confirmation of eligibility, patients will be included and treated with brolocizumab 6 mg and data will be analyzed.

All categorical data will be presented in terms of frequencies and percentages. Summaries of continuous data will be presented in terms of n (the number of non-missing data points), mean, standard deviation (SD), median, lower and upper quartiles, minimum, maximum and the number of missing data points.

For descriptive statistics, the following rules for number of decimal places will be applied: arithmetic mean, median, lower quartile and upper quartile to 1 more decimal places than the raw data; minimum and maximum to the same number of decimal places as the raw data and SD to 2 more decimal places than the raw data. Percentages will be presented to 1 decimal place.

#### 2.1.1 General definitions

**Study treatment:** This is a single-arm study and all patients will be treated with brolocizumab 6 mg. Three loading injections (at Screening/Baseline/Day 1, Week 4 and Week 8), followed by maintenance treatment from Week 16/Week 20 up to Week 40/Week 44. The investigator can individualize treatment intervals depending on disease activity, to adjust patient's injection regimen.

**Study treatment start and end date:** Study treatment start date is defined as the first date study treatment is administered and recorded on the treatment administration record (DAR) electronic case report form (eCRF) page. Similarly, study treatment end date is defined as the last date of study treatment is administered and recorded on the study treatment completion CRF page.

Generally, study day 1 is considered as the day of inclusion of the patient. However in this study, treatment is intended to be administered on the same day or if this is not possible, within 3 days after the day of inclusion of the patient.

Study day will be calculated as (event date – study treatment start date + 1 day) for events that occurred on or after study treatment start date (e.g. visit, AEs). For events prior to study treatment start date (e.g. time since diagnosis), study day will be negative and calculated as (event date – study treatment start date).

**Baseline and post-baseline:** Baseline value refers to the value of the last non-missing measurement collected prior to administration of the first dose of study treatment (Screening or Baseline visit). Intraocular pressure (IOP) will be assessed in the study eye, pre-dose and post-dose at every injection. The last available assessment taken prior to the first IVT injection of study treatment is taken as the “Baseline” assessment.

A “post-baseline” value refers to a measurement taken after the first dose of study treatment. When assessments and treatments take place on the same day, treatment must occur after completion of the efficacy assessments and pre-injection safety measures (tonometry, slit lamp and fundus examinations). If study visit assessments and the corresponding treatment occur on separate days, a repeat safety check-up will be performed prior to treatment of the eye and

results documented in the source documents. More post-baseline safety measurements will be recorded in source document; visit window will be applied to OCT and IVT visits.

**Change from Baseline:** The difference of measure between post-baseline and Baseline is called change from Baseline.

**Percent change from Baseline:** The percent change from Baseline will be calculated as below:  
$$((\text{post-baseline value} - \text{Baseline value}) / \text{Baseline value}) * 100.$$

**On-treatment period:** The on-treatment period lasts from the date of first administration of study treatment to 28 days after the date of the last actual administration of any study treatment.

**Treatment duration:** The maximum planned duration of treatment for each patient is 40 to 44 weeks in accordance with the designated treatment regimen. Discontinuation of study treatment for a patient occurs when study treatment is stopped earlier than the protocol planned duration and can be initiated by either the patient or the investigator.

**Treatment discontinuation:** When patients discontinue study treatment but continue in the study, the efficacy data will be used at the time the patient stopped study treatment.

**Dry retina:** Absence of fluid (IRF/SRF/sub-RPE) will be considered as dry retina.

**Event for maintenance q12w interval:** In case the investigator selects q12w interval for a patient and the patient maintains the q12w interval until the first q8w interval has started then this will be considered as an event. In case the investigator maintains q12w interval (does not select q8w interval at any time in study) until EOS or patients got early discontinuation from study then patients will be considered as censored.

**Event for no disease activity:** When patients will be with no disease status as per investigator decision after last dose in initiation phase then the patients will consider as event for disease activity. If patients with active disease status or early discontinue then patients will be considered as censored for disease activity.

**Event for dry retina:** When patients have absence of fluid then it will be considered as an event of dry retina. If patients have a presence of fluid before/at EOS or early discontinuation then will be censored.

**Study eye and fellow eye:** The investigator selects the eye with the worse BCVA at Screening as the study eye. Otherwise, the investigator deems as a study eye more appropriate to select the eye with better BCVA, based on medical reasons or local ethical requirements. If both eyes are eligible as per the inclusion and exclusion criteria, then it is recommended to select the right eye as the study eye.

The fellow eye will be examined only at Screening/Baseline and Week 48/EOS visits. Only best corrected near visual acuity (BCNVA) for the fellow eye will be analyzed. It is not requested for the purpose of this study to do any self-assessment measure of the fellow eye.

### **CNV lesion area**

A new angiography tool, namely optical coherence tomography-angiography (OCT-A) is a dye-less angiographic procedure based on split-spectrum-decorrelation-amplitude angiography that has become an essential and widely used tool, particularly for imaging CNV and vascular

diseases of the retina. The literature suggests that OCT-A is a good marker for assessing anti-VEGF therapeutic response, especially the lesion size that has been demonstrated to decrease under anti-VEGF therapy.

OCT-A will be used in this study to assess the morphological response of patients to brolucizumab in terms of percentage change in CNV lesion area in the short term (i.e. at Week 12 just after loading doses) and in the long term (i.e. at Week 48 [12 months]), as well as changes in other OCT-A features up to Week 48.

The primary endpoint is the percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12. The Week 12 time point has been selected as peak efficacy has been demonstrated in the pivotal trials of brolucizumab for this time point.

### **Anatomic parameters measured by OCT-A and SD-OCT**

Anatomic parameters measured by OCT-A and by SD-OCT will be analyzed by a CRC. The main aim of the CRC analysis is to confirm anatomic features from OCT-A and SD-OCT images for the primary endpoint. The investigator will evaluate the OCT-A and SD-OCT images to assess the status of disease stability.

### **Disease activity criteria**

Disease activity criteria will be assessed by the investigator based on whether nAMD is still active or has been re-activated. Guidance for the investigator is as follows (disease is active if at least one of the following criteria is observed by the investigator):

- BCVA decrease  $\geq 5$  letters from the best value since Baseline due to disease activity.
- Any significant increase in CRT (based on investigator assessment).
- Retinal hemorrhage.
- Intraretinal fluid or SRF due to disease activity (degenerative cysts allowed).
- Increase of sub-RPE fluid.

These criteria are for guidance only, the investigator may define disease activity based on his/her own assessment.

A patient who misses Week 16 will undergo the disease activity assessment at Week 20 as he/she would have done if the visit had not been missed. If, however, a patient misses any of the following disease activity assessment visits (Week 20, Week 32) then the patient will be assumed to have met the disease activity criterion at the missed visit and will be reassigned to a q8w regimen up to study exit.

If a patient misses Week 12, then the Week 8 values will be applied as the reference for disease activity assessments up to and including Week 44.

**Fluorescein angiography:** Fluorescein angiography (FA) is a diagnostic procedure that uses a special camera to record the blood flow in the RETINA – the light sensitive tissue at the back of the eye.

**Color fundus photography (CFP):** CFP is a diagnostic procedure that involves the use of a device known as a fundus camera to record colored images of the interior surface of the eye. The goal of this procedure is to monitor the presence of disorders and their change with time.

**Fundus autofluorescence (FAF):** Fundus autofluorescence imaging is an *in vivo* imaging method for metabolic mapping of naturally or pathologically occurring fluorophores of the ocular fundus.

**Indocyanine green angiography (ICG):** ICG is a diagnostic procedure that uses ICG dye to examine the blood flow in the choroid – the layer of blood vessels that lies underneath the retina. ICG is injected into a vein in the arm/hand. As the dye passes through the blood vessels of the eye, photographs are taken to record the blood flow.

**Intraocular pressure (IOP):** IOP is the fluid pressure of the eye. IOP is measured in millimeters of mercury (mmHg). Normal eye pressure is usually considered to be between 10 and 25 millimeters of mercury (mmHg).

**Fundus examination:** Fundus examination used to assess diagnose vitreoretinal diseases (such as retinal haemorrhage, vitreal haemorrhage, retinal tear and detachment), optic nerve defects and hereditary diseases.

## 2.1.2 Visit windows for data analysis

Visit windows will be used for the data analysis, as per the planned visits in the protocol. During the q12w/q8w phase, i.e., from Week 16 to Week 44, the treatment visit intervals will be determined by the investigator, based on the patient's disease activity.

**Table 2-1 Assessment windows for scheduled visits**

| Analysis Visit     | Week | Scheduled Day | Visit Window       |
|--------------------|------|---------------|--------------------|
| Screening/Baseline | BL   | 1             | -14 days to Day 1* |
| Week 4             | 4    | 28            | Day 22 - 34        |
| Week 8             | 8    | 56            | Day 50 – 62        |
| Week 12            | 12   | 84            | Day 71 – 97        |
| Week 16            | 16   | 112           | Day 99 – 119       |
| Week 20            | 20   | 140           | Day 127 – 153      |
| Week 24            | 24   | 168           | Day 155 – 182      |
| Week 28            | 28   | 196           | Day 183 – 209      |
| Week 32            | 32   | 224           | Day 211 – 237      |
| Week 36            | 36   | 252           | Day 239 – 265      |
| Week 40            | 40   | 280           | Day 267 – 293      |
| Week 44            | 44   | 308           | Day 305 – 321      |
| Week 48            | 48   | 336           | Day 323 – 349      |

\* Baseline measurement before the first treatment administration.

If study visit assessments and the corresponding treatment occur on separate days, a repeat safety check-up should be performed prior to treatment of the eye and results documented in the source documents. If any safety concern arises related to the study eye that, in the opinion of the investigator, may be further impacted by the study treatment or injection procedure, treatment needs to be cancelled. Injections are contraindicated in patients with active intraocular

or periocular infections and in patients with active intraocular inflammation; therefore, the investigators should verify that these conditions are not present in the study eye prior to every injection. Any AEs must be recorded in the eCRF.

The injection procedure for brodalumab will be performed according to local clinical practice. Injections will be administered by the investigator.

Data collected at unscheduled visits will not be used in 'by-visit' tabulations or graphs and will be presented in listings.

## 2.2 Analysis sets

**Enrolled Analysis Set (ENR):** The ENR set includes all patients who signed an ICF and are assigned patient numbers.

**Full Analysis Set (FAS):** The FAS comprises all patients to whom study treatment has been assigned and who received at least one IVT injection of study treatment.

**Safety Set (SAF):** The SAF set includes all patients who received at least one IVT injection of study treatment.

**Per-Protocol Set (PPS):** The PPS is a subset of patients in the FAS without PDs with impact. The list of PD criteria will be provided in edit checks specification (ECS) document.

**Full Analysis Set Estimand (FAS-EST):** The FAS-EST comprises all patients who are in the FAS and did not discontinue treatment in the entire study due to COVID-19.

**Per-Protocol Set Estimand (PPS-EST):** The PPS-EST is a subset of patients of the FAS-EST without PDs with impact.

When assessing the robustness of the overall efficacy conclusions, considerations will be given to the analysis based on the estimand using FAS-EST and PPS-EST. The expectation for comparing both estimands is to have similar conclusions. Inconsistencies in the results will be examined and discussed in the CSR.

## 2.3 Patient disposition, demographics and other baseline characteristics

### 2.3.1 Patient disposition

The FAS will be used to prepare the summary and ENR will be used for listing of patient disposition.

The number and percentage of patients who completed the study and discontinued from the study will be summarized with reasons for premature discontinuation for the ENR. In addition, the number of screen failures with reasons will be presented for all screened patients. The patient identification number and whether patients completed or discontinued from the study will be listed, with date of last dose and primary reason for premature discontinuation.

A separate summary of disposition and listing for rescreened patients will be presented for the ENR.

Study treatment will be discontinued under the following circumstances:



- Adverse event
- Death
- Lost to follow-up
- Physician decision
- Pregnancy
- Progressive disease
- Protocol deviation
- Study terminated by sponsor
- Technical problem
- Patient decision
- New therapy for study indication
- Lack of efficacy
- Use of prohibited treatment
- Any situation in which study participation might result in a safety risk to the patient

### **2.3.2 Protocol deviation**

The number and percentage of patients with protocol deviations will be tabulated by category and deviation for the FAS. Patients with protocol deviations will be listed with date and study day of occurrence, deviation and severity codes for the ENR.

The number of patients included in each analysis set will be tabulated for all enrolled patients. Reasons for exclusion from analysis sets will be tabulated for the ENR. Patient exclusion from analysis sets will be listed for all patients with reasons for exclusion (i.e., both protocol and non-protocol deviations).

### **2.3.3 Demographic characteristics**

Demographic and Baseline characteristics will be listed and summarized descriptively for overall patients on FAS and Safety Set.

The following demographic and vital signs variables collected in the eCRF at Baseline will be summarized:

- Sex (male, female)
- Age (in years)
- Age category (< 50, 50 - 65, 65 - 75, 75 - 85, ≥ 85)
- Study eye (left [OS], right [OD])
- Vital signs (sitting systolic/diastolic blood pressure [mmHg], sitting pulse rate [bpm]) only on the days study treatment is administered, it is measured prior study treatment

### **2.3.4 Baseline characteristics**

The following Baseline characteristics collected in the eCRF at Baseline will be summarized for study eye and fellow eye (wherever applicable):

- Time since nAMD diagnosis

- Time since nAMD diagnosis (< 1 month, 1-3 months and > 3 months)
- Unilateral versus bilateral nAMD
- BCVA
- BCVA ( $\leq 55$ , 56 - 70,  $\geq 71$ )
- BCVA categories (count fingers, hand motion, light perception, no light perception) in case BCVA score is 0
- FA (analyzed by Vienna [CRC])
  1. Lesion type (only at Baseline) (predominantly classic, minimally classic, occult)
  2. Lesion type (only at Baseline) (type 1 / type 2 / type 3 / type 1 with aneurysm / polyps)
  3. CNV location (subfoveal, juxtafoveal, extrafoveal)
  4. Area of lesion associated with CNV ( $\text{mm}^2$ )
- ICG (analyzed by Vienna [CRC])
  1. Lesion type (only at Baseline) (type 1 / type 2 / type 3 / type 1 with aneurysm / polyps)
  2. Area of lesion associated with CNV ( $\text{mm}^2$ )
- SD-OCT (analyzed by Vienna [CRC])
  - Lesion type (only at Baseline) (type 1, type 2, type 3)
  - CSFT ( $\mu\text{m}$ )
  - Baseline CSFT (< 300,  $\geq 300$  - 450,  $\geq 450$  - < 650,  $\geq 650$  [ $\mu\text{m}$ ])
  - Presence of fluid (YES/NO)
    1. Intraretinal fluid
    2. Subretinal fluid
    3. Sub-RPE fluid
  - Volume ( $\text{mm}^3$ ) and height ( $\mu\text{m}$ ) of each fluid (in case of presence)
    1. Intraretinal fluid
    2. Subretinal fluid
    3. Sub-RPE fluid
  - In case of sub-RPE / PED : nature : serious PED / fibrovascular PED / mixed PED
- OCT-A (analyzed by Vienna)
  1. CNV location (only at Baseline)
  2. CNV lesion area (at the biggest surface) ( $\text{mm}^2/\mu\text{m}^2$ )
- Fundus observation
  1. Retinal hemorrhage (none, retinal macular and retinal non-macular)
  2. Presence of vitreal hemorrhage (Yes, No)
  3. Retinal tear/ detachment (none, tear, detachment, both)
- Color fundus photography (CFP)
  1. Presence of retinal or subretinal hemorrhage (Yes, No)
  2. Presence of fibrosis (Yes, No)
  3. Presence of atrophy (Yes, No)
  4. Subretinal blood affecting foveal center point and/ or > 50% of total lesion (Yes, No)
- Fundus autofluorescence (FAF)
  1. Presence of macular atrophy (Yes, No)
  2. Area of macular atrophy

- Intraocular pressure
- Intraocular pressure ( $\leq 10$ , 10-25, 25-30 and  $\geq 30$  [mmHg])
- Disease activity assessment (Present)
- History of primary diagnosis:
  1. Disease (neovascular age-related, macular degeneration [nAMD])
  2. Age of diagnosis
  3. Eye (OD, OS)
  4. Ongoing (Yes, No)
- History or evidence of the following in the study eye within the 90-day period prior to Screening/Baseline:
  1. Intraocular or refractive surgery
  2. Previous panretinal photocoagulation
  3. Previous submacular surgery, other surgical intervention or laser treatment for nAMD including photodynamic therapy (PDT)
- Concomitant medication at Baseline
- Medical history
- Co morbidities

### **2.3.5 Relavent medical history / current medical condition**

Medical history / current medical conditions (general and ocular) will be coded using the Medical Dictionary for Regulatory Activities (MedDRA) terminology. History/conditions will be summarized for the FAS by primary system organ class (SOC), preferred term (PT) by eye (any eye, study eye and fellow eye). Verbatim recorded history/conditions will be listed together with the coded terms, date of diagnosis/surgery and whether the problem was ongoing at start of the study. The ongoing medical history will be considered as co morbidities. The co morbidities will be summarized and listed separately for eye (any eye, study eye and fellow eye and both eye).

## **2.4 Treatments (study treatment, rescue medication, concomitant therapies)**

### **2.4.1 Study treatment exposure**

Extent of exposure to study treatment is calculated as the number of IVT injections received.

The following summaries will be presented:

1. Overall number of injections (n, q1, median, q3, min and max) will presented.
2. Number of injection (n, q1, median, q3, min and max) before or at Week 8 and greater than Week 8.
3. Number of injections (n, q1, median, q3, min and max) before or at Week 12 and greater than Week 12.
4. Number of patients with injection (1 injection, 2 injections up to the maximum number of injections) from Baseline to the end of the treatment period will be presented.
5. Treatment exposure by visit: The number and percentage of patients who received injections, missed a treatment and missed visits will be presented by visit.

6. Summary statistics (n, mean, std, median, min and max) for overall duration will be provided.

The number and percentage of patients for changes in brolocizumab 6 mg treatment patterns over time (i.e. interruptions or permanent discontinuations) along with reasons, will be summarized. Discontinuations and primary reasons for treatment and/or study discontinuation will also be described.

Exposure data will be summarized for the Safety Set and FAS. The exposure data will be listed for the FAS.

#### **2.4.2 Prior, concomitant and post therapies**

Each medication has the start and end dates recorded on the eCRF. Prior medications are defined as those medications which were taken and stopped prior to first dose of study treatment. Concomitant medications are defined as any medication given at least once between the day of first dose of study treatment and the last day of study visit, including those which were started pre-baseline and continued into the treatment period. The below summary tables will be reported:

- Prior medication
- Concomitant medications which started prior to first dose of study treatment
- Concomitant medications which started on/after first of study treatment

All prior and concomitant medications will be coded using the most recent version of the WHO drug dictionary. All concomitant medications (general and ocular) will be listed and summarized in alphabetic order according to anatomical therapeutic chemical (ATC) classification system and PT. Tables will also show the overall number and percentage of patients receiving at least one treatment of a particular ATC.

For prior and concomitant ocular medications, as well as ocular procedures performed during the study, separate tabular summaries will be prepared for the any eye, study eye and the fellow eye. A listing of all prior and concomitant medications and concomitant procedures will be provided.

For handling of missing or incomplete start and end dates, see [Appendix 5.1.3](#) of this document.

All summaries will be performed on the Safety Set.

#### **2.4.3 Prior and concomitant surgery and procedures**

All prior and concomitant surgery and procedures will be summarized and listed by category (general, ocular) and eye (any eye, study eye and fellow eye).

For handling of missing or incomplete start and end dates, see [Appendix 5.1.3](#) of this document.

All summaries will be performed on the Safety Set.

## **2.5 Analysis of the primary objective**

### **2.5.1 Primary endpoint**

OCT-A will be used in this study to assess the morphological response of patients to brolocizumab. In terms of percentage change in CNV lesion area (at the biggest surface) (mm<sup>2</sup>).

The primary endpoint is the percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12 in the study eye. The percentage change from Baseline at Week 12 in the lesion area will be derived as follows:

$$([ \text{Lesion area at Week 12} - \text{Lesion area at Baseline} ] * 100) / \text{Lesion area at Baseline}$$

Descriptive statistics (n, mean, std, median, min and max) for the primary endpoint (actual value, change from Baseline, percentage change from Baseline) will be presented based on observed data using the FAS. Furthermore, a 2-sided 95% CI using Student's t-distribution will also be provided. In case of significant outliers or deviations from normality assumptions then IQR will be presented.

The last observation carried forward (LOCF) method will be used as sensitivity analysis to impute missing record for CNV lesion area at post baseline. If there is significant amount of missing record then another table with LOCF records should be created.

The above analysis will be done only on the study eye. The analysis will be performed on FAS. The analysis will be performed on the PPS, if there is more than a 10% difference in patients, between the FAS and PPS.

### **2.5.2 Supportive analyses**

Subgroups analyses according to patient characteristics, like sex (male, female), age class ( $\leq 64$ ,  $> 65 - 75$ ,  $75 - 85$ ,  $\geq 85$ ), Baseline lesion type (type 1, type 2, type 3) and time since nAMD diagnosis ( $< 1$  month, 1-3 months, and  $> 3$  months).

## **2.6 Analysis of secondary efficacy objectives**

### **2.6.1 Secondary endpoints**

#### **2.6.1.1 Oct-A long-term effects**

The first secondary endpoint is the percentage change in CNV lesion area (mm<sup>2</sup>) measured by OCT-A for nAMD patients from Baseline to Week 48. Descriptive statistics (n, mean, std, median, min and max) for the change in CNV lesion (actual value, change from Baseline, percentage change from Baseline) will be presented based on observed data by visit. Furthermore, a 2-sided 95% CI using Student's t-distribution will be provided.

The number and percentage of lesion type (predominantly classic, minimally classic and occult) will be presented by visit.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

### **2.6.1.2 Spectral domain optical coherence tomography (SD-OCT)**

The following secondary efficacy parameters based on SD-OCT will be analyzed as given below.

#### **2.6.1.2.1 Central sub-field retinal thickness (CSFT)**

Summary statistics of central sub-field retinal thickness (CSFT) measured by SD-OCT for nAMD patients will be presented by visit along with change and percentage change from Baseline in CSFT.

The number and percentage of patient with CSFT category ( $< 300$ ,  $\geq 300 - 450$ ,  $\geq 450 - < 650$ ,  $\geq 650$  ( $\mu\text{m}$ )) will be presented by visit.

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

#### **2.6.1.2.2 Presence of fluid (YES/NO)**

The number and percentage of patients with below fluid will presented by visit.

1. Intraretinal fluid
2. Subretinal fluid
3. Sub-RPE fluid
4. Without IRF or SRF
5. Without any fluid (IRF/SRF/sub-RPE)
6. In case of sub-RPE / PED : nature : (serious PED / fibrovascular PED / mixed PED)

Volume ( $\text{mm}^3$ ) and height ( $\mu\text{m}$ ) of intraretinal fluid, subretinal fluid and/or sub-RPE fluid will be presented the summary statistics (n, mean, std, median, min and max) by visit, if available.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

#### **2.6.1.2.3 Dry retina**

The proportion of patients without both fluids (IRF and SRF), without IRF, without SRF, without sub-RPE will be presented by visit, separately, up to Week 48/Week 50.

The proportion of patients without fluid (IRF and SRF) and having fluid (IRF and/or SRF) in entire study will be presented.

The 95% confidence interval (CI) for proportion using the Clopper-Pearson method will be provided by visit and overall.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

#### **2.6.1.2.4 Time to dryness**

The median time to dryness will be obtained from Kaplan-Meier (KM) analysis along with 2-sided 95% CI will be presented. KM plot will be provided. Detailed KM results will be presented including time (week), number of patients with dry retina at visit, number of patients under risk at visit (without dry retina), probability of dry retina (survival probability) at visit and 95% CI at visit.

| Variable                                  | Definition   |
|---|--|
| Start date                                | Start date of IVT injection  |
| Event                                     | Dry retina (absence of IRF and/or SRF)   |
| End date of event<br>Censoring (end date) | Start date of first dry retina<br>Earliest of: <ul style="list-style-type: none"> <li>Absence of dry retina until EOS</li> <li>Early discontinuation without dry retina</li> </ul> |
| Duration of time                          | (End date – start date) +1   |

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

#### 2.6.1.2.5 Maximum duration of dryness

The median of maximum duration of dryness until Week 48/50 will be presented. The median will be obtained from the KM analysis along with 2-sided 95% CI. KM plot will be provided.

Detailed KM results will be presented including time (week), total number of patients having fluids, number of patients under risk, probability of with dry retina (survival probability) and 95% CI.

| Variable                                  | Definition  |
|---|---|
| Start date                                | Start date of dryness   |
| Event                                     | Dryness   |
| End date of event<br>Censoring (end date) | End date of dryness<br>Earliest of: <ul style="list-style-type: none"> <li>Presence of dryness until EOS</li> <li>Early discontinuation with presence of dryness</li> </ul> |
| Duration of time                          | (End date – start date) +1 (Maximum duration will be used)  |

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

#### 2.6.1.3 Fluorescein angiography (FA)

The number and percentage of CNV location (subfocal, juxtafoveal, extrafoveal) at Week 12 will be presented for both study eye and fellow eye.

The summary statistics (n, mean, std, median, min and max) of area of lesion associated with CNV (mm\*\*2) will be presented at Week 12 for study eye and fellow eye, along with change from Baseline and percentage change from Baseline.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

#### 2.6.1.4 Best corrected visual acuity (BCVA)

The summary statistics (n, mean, std, median, min and max) of BCVA for nAMD patients will be presented along with change and percentage change from Baseline in BCVA by visit. Along with below BCVA category.

1. BCVA ( $\leq 55$ ,  $56 - 70$  and  $\geq 71$ ).
2. Increase of  $\geq 5$ ,  $\geq 10$  and  $\geq 15$  letters in BCVA from Baseline up to Week 48.
3. Loss of  $\geq 5$ ,  $\geq 10$ ,  $\geq 15$  and  $\geq 30$  letters in BCVA from Baseline up to Week 48.
4. BCVA  $\geq 84$ .

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

#### 2.6.1.5 Dosing regimen of brolucizumab

The binomial proportion and 95% CI using the Clopper-Pearson method will be provided for patients who are maintained on an exclusive q12w interval following the loading phase through Week 48.

The number and percentage of q8w dose frequency patients will be presented along with 95% CI using the Clopper-Pearson method.

Duration of dose is defined as (date of last dose – start date of dose).

The summary statistics (n, mean, std, first quartile, median, third quartile, min and max) for duration of dose will be provided for patients who are maintained on an exclusive q12w interval following the loading phase through Week 48. In the study design the  $3 \times 4$ -week dosing frequency, in initiation phase.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

##### 2.6.1.5.1 Predictive value of the first q12w cycle for maintenance of q12w treatment with brolucizumab

The probability of the first q12w interval will be derived from KM time to event analyses. KM plot will be provided. Detailed KM results will be presented including time (week), number of patients with first q8w or discontinue at visit, number of patients under risk at visit, probability of maintaining on q12w (survival probability) and 95% CI for maintaining on q12w.

| Variable             | Definition   |
|----------------------|--|
| Start date           | First date when patients on q12w interval  |
| Event                | Maintain q12w interval   |
| End date             | Last date of initial q12w interval (before or on first start of q8w interval)<br>End of study (week 48)  |
| Censoring (end date) | Earliest of: <ul style="list-style-type: none"> <li>• In case investigator does not select first q8w interval until EOS.</li> <li>• Early discontinue from study.</li> </ul> |
| Duration of time     | (End date – start date) +1   |

The above analysis will be done only on the study eye. The analysis will be performed on FAS.



### 2.6.1.6 Disease activity assessments

The number and percentage will be presented by visit for disease activity assessment.

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

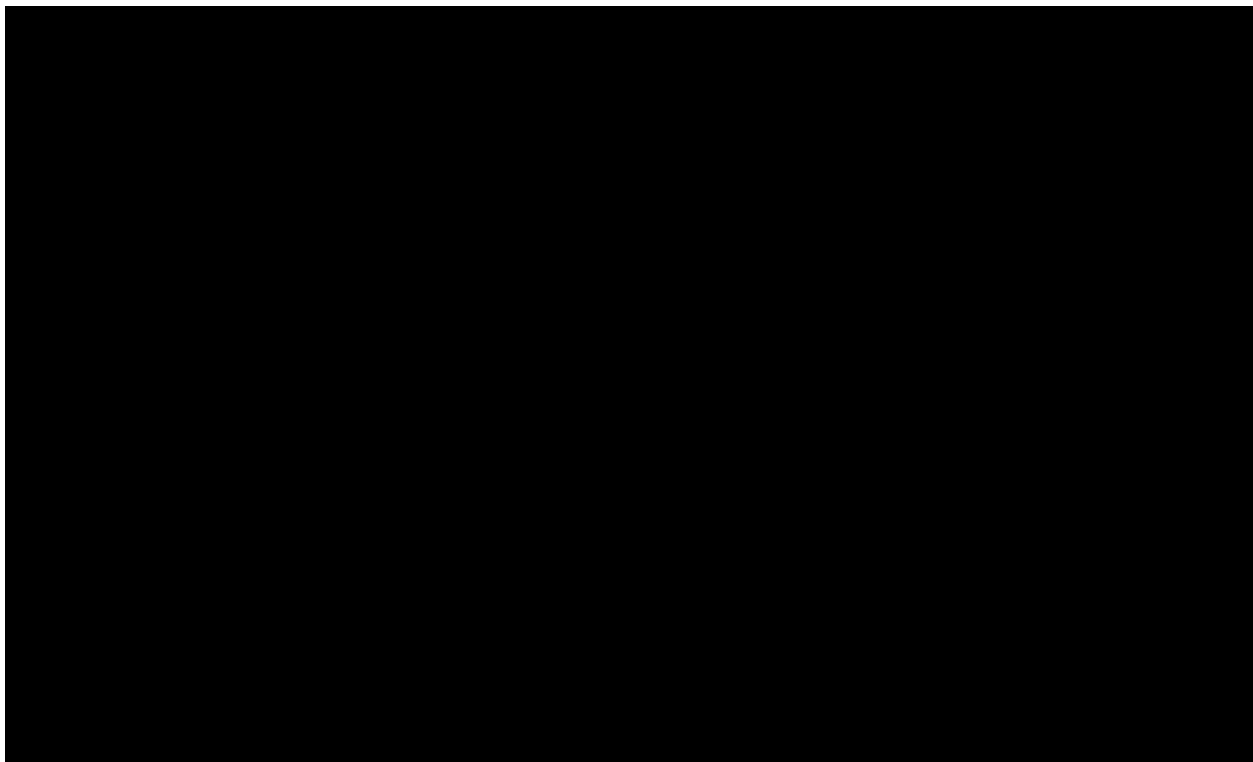
#### 2.6.1.6.1 Duration of time from start of dose to till no disease activity

The median of duration of time is obtained from KM analysis along with 2-sided 95% CI will be presented. KM plots will be provided.

Detailed KM results will be presented including time (week), number of patients with no disease activity at visit, number of patients under risk at visit (with disease activity), probability of disease activity (survival probability) at visit and 95% CI at visit.

| Variable             | Definition   |
|----------------------|--|
| Start date           | Start date of start of IVT injection/ last IVT injection in the initiation phase   |
| Event                | No disease activity  |
| End date of event    | Date of first visit with no disease activity   |
| Censoring (end date) | Earliest of: <ul style="list-style-type: none"><li>• With disease activity until EOS</li><li>• Early discontinuation</li></ul> |
| Duration of time     | (End date – start date) +1   |

The above analysis will be done only on the study eye. The analysis will be performed on FAS.



## **2.8 Analysis of other efficacy variables**

### **2.8.1 Color fundus photography**

The number and percentage will be provided at Screening/Baseline, week 12 and end of study (Week 48) for below questions:

- Was color fundus photography performed? If not, then reason for not performed CFP.
- Presence of retinal hemorrhage in central subfield.
- Presence of subretinal hemorrhage in central subfield.
- Presence of fibrosis in the central subfield the diameter of 3000  $\mu\text{m}$ .
- Presence of atrophy in the central subfield the diameter of 3000  $\mu\text{m}$ .
- Is there subretinal blood affecting the foveal center point and/or >50% of total lesion.
- Presence of Vasculitis.

The above analysis will be done on both eyes. The analysis will be performed on the FAS.

### **2.8.2 Fundus autofluorescence (FAF)**

The number and percentage will be provided at Baseline, week 4 and end of study (week 48) for below question.

- Fundus auto-fluorescence performed at visit. If not then reason for not performed FAF.
- Presence of macular atrophy in the central subfield (center 1 mm circle).
- Presence of foveal atrophy.

The summary statistics (n, mean, std, median, min and max) of area of macular atrophy ( $\text{mm}^2$ ) will be presented at Baseline, Week 4 and Week 48 along with change from Baseline and percentage change from Baseline in FAF.

The above analysis will be done on the both eye. The analysis will be performed on FAS.

### **2.8.3 Indocyanine green angiography (ICG)**

The number and percentage of lesion type (only at Baseline) (type 1 / type 2 / type 3 / type 1 with aneurysm / polyps) at Baseline will be provided.

The summary statistics (n, mean, std, median, min and max) for area of lesion associated with CNV ( $\text{mm}^2$ ) at Baseline and Week 12 will be provided along with summary statistics for change from Baseline and percentage change from Baseline at week 12 for area of lesion.

The above analysis will be done on both eyes. The analysis will be performed on the FAS.

### **2.8.4 Intraocular pressure**

Intraocular pressure will be collected in the CRF at Baseline and Week 48. The summary statistics of IOP for nAMD patients will be presented at Week 48 along with change from Baseline and percentage change from Baseline in IOP. In addition, the number and percentage of patients with IOP ( $\leq 10$ , 10-25, 25-30 and  $\geq 30$  [mmHg]) will be presented at Week 48.

The above analysis will be done on both eyes. The analysis will be performed on the FAS.

### 2.8.5 Fundus examination

The below variables of number and percentage will be presented for study eye and fellow eye by visit.

- Retinal hemorrhage (none, retinal macular and retinal non-macular)
- Presence of vitreal hemorrhage (no, yes)
- Retinal tear/detachment (0- none, 1- retinal tear, 2- retinal detachment, 3- retinal tear and detachment)
- Presence of intraocular inflammation (no, yes)
- Presence of vasculitis.

Listing of fundus examination parameter will be provided by patient and visit.

The above analysis will be done on the both eye. The analysis will be performed on the FAS.

## 2.9 Safety analyses

Safety measurements include duration of exposure, vital signs and adverse events. All safety endpoints will be summarized using the Safety Set. Patients will be analyzed according to treatment received. No imputation will be carried out for missing data.

### 2.9.1 Adverse events (AEs)

All information obtained on AEs will be displayed by patient. Summary tables for AEs will summarize only on-treatment events, with a start date during the on-treatment period ([see Section 2.1.1](#)) for definition of on-treatment period).

The count of treatment-emergent AEs, number (and percentage) of patients with treatment-emergent AEs (defined as events started after the first dose of study treatment or events present prior to start of study treatment but increased in severity based on PT) will be summarized in the following ways:

- By primary SOC and PT.
- By primary SOC, PT and maximum severity.

Separate summaries will be provided for study treatment related AEs, procedure related, death, SAEs and other significant AEs action taken leading to study treatment interruption & treatment withdrawn.

Adverse events will be summarized by presenting, the number and percentage of patients having any AE, having an AE in each primary SOC and having each individual AE (PT). Summaries will also be presented for AEs by severity. Summaries for AE will be presented for study treatment and procedure related to AEs. If a patient reported more than one AE with the same PT, the AE with the greatest severity will be presented. System organ classes will be presented in alphabetical order, PTs will be sorted within SOC in descending frequency of AEs. If a patient reported more than one AE within the same primary SOC, the patient will be counted only once with the greatest severity at the SOC level, where applicable. The AE will be presented in separate sections of ocular and non-ocular. For ocular then it will be presented by any eye, study eye and fellow eye.

For occurrence, the presence of at least one SAE / SAE suspected to be related to study treatment / non SAE has to be checked in a block e.g., among AEs in a  $\leq 1$  day gap block, if at least one SAE is occurring, then one occurrence is calculated for that SAE.

The number of deaths resulting from SAEs suspected to be related to study treatment and SAEs irrespective of study treatment relationship will be provided by SOC and PT.

In addition, all treatment emergent AEs will also be listed.

The by-patients listing will include: SOC/PT/Verbatim term, start date, end date, severity, relationship to study treatment and procedures, whether or not it is a SAE, action taken with study treatment and outcome. Duration will be calculated as (end date – start date + 1) and for ongoing AE (last visit date – start date + 1) by ocular and non-ocular. For ocular then it will be presented by any eye, study eye and fellow eye.

A summary of action taken with number and percentage of patients will presented with dose increased, no dose change, dose reduced, treatment interrupted, drug withdrawn, not applicable and unknown.

### **2.9.1.1 Adverse events of special interest / grouping of AEs**

The number (%) of patients with AESIs will be summarized by standardized MedDRA query and PT. Listing will also be provided.

Case Retrieval Sheet (CRS) with the exact composition of the AE groupings is to be used to map reported AEs to the AESI groupings. This file may be updated (i.e. live document) based on review of accumulating trial data, and therefore the groupings are also subject to potential change. The most up-to-date version of the CRS will be used at the time of the analysis.

The number and percentage of patients having any AESI, AESI by SOC (confirmed by SRC) and PT will be presented.

The number and percentage of patients for AESI type along with incidence rate per patient and per 1000 injection will be provided. Incidence rate per patient is defined as number of patients in AESI type/total number of patients in safety analysis set and incidence rate per 1000 injection is defined as (number of occurrence of AESI type/total number of injections)\*1000.

The number and type of AESI will be plotted according to the time after last brolocizumab injection and time since first brolocizumab injection.

Summary statistics for change from baseline in BCVA after end date of AESI will be provided for each AESI type and change from baseline in BCVA will be plotted overall and for each type of AESI.

Patients demographics, baseline characteristics and medical history will be provided for AESI patient with safety set.

### **2.9.2 Deaths**

A separate summary of deaths including on-treatment and post-treatment deaths will be provided.

All deaths in the clinical database will be listed with the investigator-reported principal cause. Deaths occurring after the first dose of study treatment until 30 days after the date of last treatment will be summarized. In addition, deaths occurring after the first dose of study treatment until the date of last treatment will also be summarized.

### **2.9.3 Laboratory data**

Not applicable

### **2.9.4 Other safety data**

Not applicable

#### **2.9.4.1 ECG and cardiac imaging data**

Not applicable

#### **2.9.4.2 Vital signs**

Vital signs will include blood pressure and pulse rate measurements.

All vital signs data will be listed by patient, and visit, and if ranges are available, abnormalities will be flagged. Abnormal values are marked in [Section 5.3](#). All data, including data from unscheduled visits, will be considered when identifying abnormal values. Analysis of vital sign measurements using summary statistics for the change from Baseline for each post-Baseline visit will be performed. These descriptive summaries will be presented for each vital sign. Change from Baseline will only be summarized for patients with both Baseline and post-Baseline values.

### **2.10 Pharmacokinetic endpoints**

Not applicable

### **2.11 PD and PK/PD analyses**

Not applicable

### **2.12 Biomarkers**

Not applicable.

### **2.13 Other exploratory analyses**

Not applicable.

### **2.14 Interim analysis**

The analysis based on the Week 12 data, i.e. data up to and including Week 12 will be the primary (first) analysis for this study.

A second planned analysis of the data after the EOS/Week 48 visit will be performed once all patients have completed or prematurely discontinued the study.

### 3 Sample size calculation

The primary objective of the study is to evaluate the effect of brolocizumab on CNV lesion area as measured by OCT-A in nAMD patients starting treatment with brolocizumab. This will be evaluated by the percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12. The sample size calculation is based on the hypothesis of a standard deviation of 35% for this reduction proportion ([Miere et al 2018](#)).

A sample size of 180 to 400 patients produces a 2-sided 95% CI with a distance from the mean to the limits ranges from 5.1 to 3.4 when the estimated standard deviation is 35.0 (nQuery Advisor version 7.0). Therefore, to have a precision of 5%, a sample size of 189 patients will be needed ([Table 3-1](#)).

To take into account a dropout rate and uninterpretable images of 10%, a total of 210 patients will be included.

**Table 3-1 Confidence intervals for one mean numeric results for 2-sided confidence intervals with unknown standard deviation**

| Confidence Level | Sample Size (N) | Distance from Mean to Limits | Standard Deviation (S) |
|------------------|-----------------|------------------------------|------------------------|
| 0.950            | 180             | 5.1                          | 35.0                   |
| 0.950            | 189             | 5.0                          | 35.0                   |
| 0.950            | 233             | 4.5                          | 35.0                   |
| 0.950            | 250             | 4.4                          | 35.0                   |
| 0.950            | 300             | 4.0                          | 35.0                   |
| 0.950            | 350             | 3.7                          | 35.0                   |
| 0.950            | 385             | 3.5                          | 35.0                   |
| 0.950            | 400             | 3.4                          | 35.0                   |
|                  |                 |                              |                        |

### 4 Change to protocol specified analyses



### 5 Appendix

#### 5.1 Imputation rules

##### 5.1.1 Study treatment

The following rules should be used for the imputation of the dose end date for a given study treatment component:

##### Scenario 1

If the date of last IVT is completely missing and there is no end of treatment (EOT) page and no death date, the patient is considered as on-going.

The patient should be treated as on-going and the cut-off date should be used as the last dosing date.

## Scenario 2

If the dose end date is completely or partially missing and the EOT page is available:

- Case 1: The dose end date is completely missing and the EOT completion date is complete, then this latter date should be used.
- Case 2: Only year (YYYY) of the dose end date is available and YYYY < the year of EOT date, then use 31DECYYYY.
- Case 3: Only year (YYYY) of the dose end date is available and YYYY = the year of EOT date, then use EOT date.
- Case 4: Both year (YYYY) and month (MMM) are available for dose end date and YYYY = the year of EOT date and MMM < the month of EOT date, then use last day of the Month (MMM)

All other cases should be considered as a data issue and the statistician should contact the data manager of the study.

After imputation, compare the imputed date with start date of treatment.

If the imputed date is < start date of treatment, then use the treatment start date.

Otherwise, use the imputed date

Patients with missing start dates are to be considered missing for all study treatment component related calculations and no imputation will be made. If start date is missing then end-date should not be imputed.

### 5.1.2 AE date imputation

AE date imputation is based only on a comparison of the partial AE start date to the treatment start date as mentioned in the below.

- If the AE start date year value is missing, the date uncertainty is too high to impute a rational date. Therefore, if the AE year value is missing, the imputed AE start date is set to NULL.
- If the AE start date year value is less than the treatment start date year value, the AE started before treatment. Therefore:
  1. If the AE year is less than the treatment year and the AE month is missing, the imputed AE start date is set to the mid-year point (01JulYYYY).
  2. Else if the AE year is less than the treatment year and the AE month is not missing, the imputed AE start date is set to the mid-month point (15MONYYYY).
- If the AE start date year value is greater than the treatment start date year value, the AE started after treatment. Therefore:
  1. If the AE year is greater than the treatment year and the AE month is missing, the imputed AE start date is set to the year start point (01JanYYYY).

2. Else if the AE year is greater than the treatment year and the AE month is not missing, the imputed AE start date is set to the month start point (01MONYYYYY).
- If the AE start date year value is equal to the treatment start date year value:
  1. And the AE month is missing or the AE month is equal to the treatment start month, the imputed AE start date is set to one day after treatment start.
  2. Else if the AE month is less than the treatment start month, the imputed AE start date is set to the mid-month point (15MONYYYYY).
  3. Else if the AE month is greater than the treatment start month, the imputed AE start date is set to the start month point (01MONYYYYY).

|                        | MON                    | MON < CFM  | MON = CFM              | MON > CFM              |
|------------------------|------------------------|--|------------------------|------------------------|
|                        | MISSING                |  |                        |                        |
| YYYY MISSING           | NULL                   | NULL   | NULL                   | NULL                   |
|                        | Uncertain              | Uncertain  | Uncertain              | Uncertain              |
| YYYY < CFY             | (D) = 01JULYYYY        | (C)= 15MONYYYYY  | (C)= 15MONYYYYY        | (C)= 15MONYYYYY        |
|                        | Before Treatment Start | Before Treatment Start   | Before Treatment Start | Before Treatment Start |
| YYYY = CFY             | (B)= TRTSTD+1          | (C)= 15MONYYYYY  | (A)= TRTSTD+1          | (A)= 01MONYYYYY        |
|                        | Uncertain              | Before Treatment Start   | Uncertain              | After Treatment Start  |
| YYYY > CFY             | (E)= 01JANYYYYY        | (A)= 01MONYYYYY  | (A)= 01MONYYYYY        | (A)= 01MONYYYYY        |
|                        | After Treatment Start  | After Treatment Start  | After Treatment Start  | After Treatment Start  |
| Before Treatment Start |                        | Partial indicates date prior to Treatment Start Date                   |                        |                        |
| After Treatment Start  |                        | Partial indicates date after Treatment Start Date                      |                        |                        |
| Uncertain              |                        | Partial insufficient to determine relationship to Treatment Start Date |                        |                        |
| LEGEND:                |                        |  |                        |                        |
| (A)                    |                        | MAX(01MONYYYYY,TRTSTD+1)   |                        |                        |
| (B)                    |                        | TRTSTD+1   |                        |                        |
| (C)                    |                        | 15MONYYYYY   |                        |                        |
| (D)                    |                        | 01JULYYYYY   |                        |                        |
| (E)                    |                        | 01JANYYYYY   |                        |                        |

### 5.1.3 Concomitant medication date imputation

This algorithm is used when event is the partial start date of the concomitant medication.

The following table explains the notation used in the logic matrix. Please note that missing start dates will not be imputed.

|                       | Day      | Month | Year |
|-----------------------|----------|-------|------|
| Partial CM Start Date | Not used | MON   | YYYY |



|                          |          |      |      |
|--------------------------|----------|------|------|
| Treatment Start TRTSDT ) | Not used | TRTM | TRTY |
|--------------------------|----------|------|------|

The following matrix explains the logic behind the imputation.

|              | MON MISSING                   | MON < TRTM                    | MON = TRTM                    | MON > TRTM                    |
|--------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| YYYY MISSING | (C2)<br>Uncertain             | (C1)<br>Uncertain             | (C1)<br>Uncertain             | (C1)<br>Uncertain             |
| YYYY < TRTY  | (D)<br>Before Treatment Start | (A)<br>Before Treatment Start | (A)<br>Before Treatment Start | (A)<br>Before Treatment Start |
| YYYY = TRTY  | (C2)<br>Uncertain             | (A)<br>Before Treatment Start | (C1)<br>Uncertain             | (B)<br>After Treatment Start  |
| YYYY > TRTY  | (E)<br>After Treatment Start  | (B)<br>After Treatment Start  | (B)<br>After Treatment Start  | (B)<br>After Treatment Start  |

The following table is the legend to the logic matrix.

| Relationship           |  |
|------------------------|--|
| Before Treatment Start | Partial date indicates CMD start date prior to Treatment Start Date  |
| After Treatment Start  | Partial date indicates CMD start date after Treatment Start Date   |
| Uncertain              | Partial date insufficient to determine relationship of CMD start date relative to Treatment Start Date                               |
| Imputation Calculation |  |
| (A)                    | 15MONYYYY  |
| (B)                    | 01MONYYYY  |
| (C1 or C2)             | IF relative reference start before treatment THEN TRTSDT -1<br>= start<br><br>ELSE IF relative reference start = TRTSDT +1<br>' THEN |
| (D)                    | 01JULYYYY  |

|     |           |
|-----|-----------|
| (E) | 01JANYYYY |
|-----|-----------|

### Concomitant Medication End Date Imputation

If not ongoing then -

Imputed date = date part of CMENDTC, [if complete date](#)

Imputed date = min(completion/discontinuation visit date, DEC 31) , if month is missing, [\(C2, D, E\)](#)

Imputed date = min(completion/discontinuation visit date, last day of the Month) , if day is missing. [\(A, B, C1\)](#)

### Concomitant Medication Date Flag

If not a complete date then

Y - If year of the imputed date is not equal to YYYY else M – If month of the imputed date is not equal to MON else D.

## 5.2 AEs coding/grading

The verbatim term recorded on CRF will be identified as adverse event and will be coded by primary SOC and PT using Medical Dictionary for Regulatory Activities (MedDRA) version 22.1 and above.

## 5.3 Vital signs parameters derivations

The criteria for clinically notable abnormalities are defined as follows:

### Clinically notable elevated values

- Systolic blood pressure of  $\geq 140$  mmHg (hypertension)
- Diastolic blood pressure of  $\geq 90$  mmHg (hypertension)
- Pulse rate  $\geq 100$  bpm (tachycardia).

### Clinically notable below normal values

- Systolic blood pressure of  $< 90$  mmHg (hypotension)
- Diastolic blood pressure of  $< 60$  mmHg (hypotension)
- Pulse rate  $< 60$  bpm (bradycardia)

## 5.4 Statistical methodology

The below SAS code will be used for statistical value.

### Frequency and proportion:

```
proc freq data = <.....>;
    tables response_variable/ chisq;
run;
```

## Summary Statistics:

Univariate procedure will be used for continuous response.

```
proc univariate data=<.....>;  
    var response_variable;  
    output out=<.....> n=_n mean=_mean std=_sd min=_min median=_med  
    max=_max;  
run;
```

## 95% CI

```
proc means data=adxe N NMISS CLM ;  
    var aval;  
run;
```

## Time to event analysis

```
proc lifetest data=combl alpha=0.05 conftype=loglog method=KM alphaqt=0.05  
outsurv=survtest;  
    time AVALW*cnsr(0);  
run;
```

## Paired t-test

```
proc ttest data = cnv_wl2;  
    paired FAS_EST*PPS_EST;  
run;
```

## Wilcoxon rank-sum test

```
proc nparlway wilcoxon data = rnksm (label='CNV lesion area at week 12');  
    class estimand;  
    var area;  
run;
```

## AESI reported by investigator

```
if AEDECOD in ("Anterior chamber cell", "Anterior chamber inflammation",  
"Vitritis", "Iritis", "Cyclitis", "Choroiditis", "Chorioretinitis", "Anterior  
chamber fibrin", "Uveitis", "Noninfective chorioretinitis", "Ophthalmia  
neonatorum", "Aqueous fibrin", "Uveitis-glaucoma-hyphaema syndrome", "Retinitis",  
"Tubulointerstitial nephritis and uveitis syndrome", "Toxic anterior segment  
syndrome", "Infective uveitis", "Vitreous haze", "Keratic precipitates", "Vitreous  
abscess", "Anterior chamber flare", "Cogan's syndrome", "Noninfective retinitis",  
"Oculomucocutaneous syndrome", "Eye infection intraocular", "Iridocyclitis", "Viral  
uveitis", "Viral keratouveitis", "Hypopyon", "Cyclitic membrane", "Eye  
inflammation", "Optic neuritis", "Ocular pemphigoid", "Oculorespiratory syndrome",  
"Idiopathic orbital inflammation", "Papillitis") then  
    do;  
        AEBODSYS1="Intraocular inflammation";  
        AESI="Y";  
    end;  
else if AEDECOD in ("Choroidal infarction", "Eyeinfarction", "Macular ischaemia",  
"Ocular ischaemic syndrome", "Retinal artery embolism", "Retinal artery  
occlusion", "Retinal artery stenosis", "Retinal artery thrombosis", "Retinal  
infarction", "Retinal ischaemia", "Retinal vascular occlusion", "Retinal vascular  
thrombosis", "Retinal vein occlusion", "Retinal vein thrombosis", "Necrotising  
retinitis", "Ocular vasculitis", "Retinal vasculitis", "Retinal occlusive  
vasculitis") then  
    do;
```

```

AEBODSYS1="Retinal Vasculitis and / or retinal vascular occlusion";
AESI="Y";
end;

```

## 5.5 Rule of exclusion criteria of analysis sets

**Table 5-1 Protocol deviations that cause patients to be excluded**

| Deviation ID | Description of Deviation                                       | Exclusion in Analyses              | Severity code |
|--------------|--|------------------------------------|---------------|
| INCL01       | Signed informed consent not obtained                           | Excluded from FAS and PPS analysis | 1             |
| INCL02       | Age less than 50 year  | Included in everything             | 0             |
| INCL03       | No active CNV lesions  | Excluded from FAS and PPS          | 1             |
| INCL04       | No Intra- and/or subretinal fluid                              | Excluded from FAS and PPS          | 1             |
| INCL05       | Study eye BCVA out of range                                    | Excluded from PPS                  | 2             |
| EXCL01       | Active infection in either eye                                 | Excluded from PPS                  | 2             |
| EXCL02       | Fellow eye ocular disease                                      | Included in everything             | 0             |
| EXCL03       | Poor quality images  | Included in everything             | 0             |
| EXCL03a      | History of IOI   | Included in everything             | 0             |
| EXCL05       | Study eye lesion area $\geq 50\%$                              | Included in everything             | 0             |
| EXCL05a      | Study eye atrophy or fibrosis                                  | Included in everything             | 0             |
| EXCL07       | Study eye concomitant condition                                | Included in everything             | 0             |
| EXCL08       | Study eye macula damage  | Included in everything             | 0             |
| EXCL09       | Study eye vitreous hemorrhage                                  | Included in everything             | 0             |
| EXCL10       | Study eye uncontrolled glaucoma                                | Included in everything             | 0             |
| EXCL11       | Study eye aphakia  | Included in everything             | 0             |
| EXCL12       | Other treatment in study eye                                   | Excluded from PPS                  | 2             |
| EXCL13       | Steroids in study eye  | Included in everything             | 0             |
| EXCL14       | Prior keratoplasty/vitrectomy                                  | Included in everything             | 0             |
| EXCL15       | Study eye previous ocular treatment                            | Included in everything             | 0             |
| EXCL16       | End stage renal disease requiring dialysis or renal transplant | Included in everything             | 0             |
| EXCL17       | Systematic drug toxic to eye                                   | Included in everything             | 0             |
| EXCL18       | Participation in another study                                 | Excluded from PPS                  | 2             |
| EXCL19       | Systematic anti-VEGF therapy                                   | Included in everything             | 0             |
| EXCL20a      | Stroke or myocardial infarction                                | Included in everything             | 0             |
| EXCL21       | Uncontrolled blood pressure                                    | Included in everything             | 0             |
| EXCL22       | Malignancy   | Included in everything             | 0             |
| EXCL22a      | Medical condition impact                                       | Included in everything             | 0             |

| Deviation ID | Description of Deviation                    | Exclusion in Analyses     | Severity code |
|--------------|---|---------------------------|---------------|
| EXCL24       | Hypersensitivity                            | Included in everything    | 0             |
| EXCL25       | Pregnant or nursing woman                   | Included in everything    | 0             |
| EXCL26       | Women of childbearing potential             | Included in everything    | 0             |
| EXCL27       | Minor or protected adult                    | Excluded from PPS         | 2             |
| COMD01       | Prohibited medication/procedures            | Included in everything    | 0             |
| COMD02       | Steroids use 5 days prior to IP             | Included in everything    | 0             |
| TRT01        | Wrong IP administered                       | Excluded from PPS         | 2             |
| TRT02        | Incorrect dose administered                 | Excluded from PPS         | 2             |
| TRT03        | Pregnancy but not discontinued              | Included in everything    | 0             |
| TRT04        | Short treatment window between treatment    | Included in everything    | 0             |
| TRT05        | Treatment > 3 days after injection visit    | Included in everything    | 0             |
| TRT06        | Injection given at Week 12                  | Excluded from PPS         | 2             |
| TRT07        | Q8W IVT out of window                       | Included in everything    | 0             |
| TRT08        | Q12W IVT out of window                      | Included in everything    | 0             |
| TRT09        | COVID-19 Drug supply change                 | Included in everything    | 0             |
| TRT10        | COVID-19 Treatment not given                | Included in everything    | 0             |
| TRT11        | Missed Injection loading phase              | Excluded from PPS         | 1             |
| TRT12        | Missed Injection                            | Included in everything    | 0             |
| TRT13        | No Disease activity but injection is given  | Included in everything    | 0             |
| TRT14        | Treatment admin prior effc/safty evaluation | Included in everything    | 0             |
| TRT15        | Treatment given at EOS                      | Included in everything    | 0             |
| WITH01       | Withdrew consent not discontinued           | Excluded from FAS and PPS | 1             |
| OTHER01      | Patient rescreened > once                   | Included in everything    | 0             |
| OTHER02      | Severe ICH-GCP non-compliance               | Excluded from FAS and PPS | 1             |
| OTHER03      | New ICF is missing-rescreened               | Excluded from FAS and PPS | 1             |
| OTHER04      | Mishandling IP                              | Included in everything    | 0             |
| OTHER05      | Temperature excursion IP administered       | Included in everything    | 0             |
| OTHER06      | Treatment regimen wrongly adjusted          | Included in everything    | 0             |
| OTHER07      | Missed mandatory visit                      | Excluded from PPS         | 2             |
| OTHER08      | Missed injection visit                      | Included in everything    | 0             |

| Deviation ID | Description of Deviation                 | Exclusion in Analyses  | Severity code |
|--------------|--|------------------------|---------------|
| OTHER09      | FA out of window                         | Included in everything | 0             |
| OTHER10      | Rescreen due to BCVA results             | Included in everything | 0             |
| OTHER11      | Rescreen >14days w/o screening procedure | Included in everything | 0             |
|              |  |                        |               |
| OTHER13      | COVID-19 Missed visit                    | Included in everything | 0             |
| OTHER14      | COVID-19 Visit not at site               | Included in everything | 0             |
| OTHER15      | COVID-19 Assessment changed              | Included in everything | 0             |
| OTHER16      | COVID-19 Discontinuation                 | Included in everything | 0             |
| OTHER17      | Efficacy assessment not done             | Excluded from PPS      | 2             |
| OTHER18      | Safety assessment not done               | Included in everything | 0             |
| OTHER19      | BCVA not done correctly                  | Included in everything | 0             |
| OTHER20      | Visit window > 7 days                    | Included in everything | 0             |
| OTHER21      | Vital signs/safety call not done         | Included in everything | 0             |
| OTHER22      | Imaging analyzed after WoC               | Included in everything | 0             |

**Table 5-2 Patient Classification**

| Analysis Set | Severity codes that cause a subject to be excluded   |
|--------------|--|
| ENR          | NA   |
| FAS          | 1  |
| FAS-EST      | 1  |
| PPS          | 1,2 (All specified PD in Table 5.1 due to COVID)     |
| PPS-EST      | 1, 2 (All specified PD in Table 5.1 due to COVID-19) |
| SAF          | NA   |

## 6 Reference

Miere A, Oubraham H, Amoroso F, et al (2018) Optical Coherence Tomography Angiography to Distinguish Changes of Choroidal Neovascularization after Anti-VEGF Therapy: Monthly Loading Dose versus Pro Re Nata Regimen. J Ophthalmol. Published at [doi: 10.1155/2018/3751702].

Clinical Development

RTH258/Brolucizumab

CRTH258AFR01 / NCT04239027

**A one-year, single-arm, open-label, multicenter study  
assessing the anatomic outcomes of brolucizumab  
assessed by OCT-A in adult patients with neovascular  
age-related macular degeneration (OCTOPUS)**

### **Statistical Analysis Plan (SAP)**

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## Document History – Changes compared to previous final version of SAP

| Date       | Reason for update   | Outcome for update  | Section and title impacted (Current) |
|------------|---|---|--------------------------------------|
| 02-03-2020 | Creation of initial version   | N/A - First version   | NA                                   |
| 20-11-2020 | Amendment v1.0  |   |                                      |
|            | Visit window modified   | Visit window updated as per protocol  | Section 2.1.2                        |
|            | Baseline characteristics include more variables                       | Additional Baseline characteristics from central reading center in Vienna are included            | Section 2.3.4                        |
|            | Prior and concomitant Surgery and Procedures was not included         | Added Prior and concomitant Surgery and Procedures as a new section                               | Section 2.4.3                        |
|            | Study treatment exposure removed, the not required compliance section | Updated study treatment exposure  | Section 2.4.1                        |
|            | Dry retina details  | Section added for dry retina  | Section 2.5.1                        |
|            | Presence of fluid add more details                                    | Updated presence of fluid   | Section 2.6.1                        |
|            | Fluorescein Angiography (FA) add more details                         | Updated Fluorescein Angiography (FA)  | Section 2.6.1                        |
|            | Estimand not included   | Added section for estimand as new section   | Section 2.7                          |
|            | Dry retina  | Section added for dry retina  | Section 2.6.1                        |
|            |   |   |                                      |
| 25-01-2023 | Amendment v2.0  |   |                                      |
|            | Update in protocol  | Updated protocol version number and release date  | <a href="#">Section 1</a>            |
|            | Update number of patients and drop the number of site                 | Sample size re – estimated and number of planned site dropped, change disease activity assessment | <a href="#">Section 1.1</a>          |
|            |   |   |                                      |
|            | Update in on-treatment period definition                              | On treatment period updated to 28 days from last treatment day                                    | <a href="#">Section 2.1.1</a>        |
|            | Update in visit window interval                                       | Lower and upper value for visit window updated  | <a href="#">Section 2.1.2</a>        |





| Date       | Reason for update   | Outcome for update   | Section and title impacted (Current)  |
|------------|---|--|---|
|            | Update in population for disposition and protocol deviation | Population set for disposition table and listing updated                                   | <a href="#">Section 2.3.1</a> and <a href="#">2.3.2</a>   |
|            | Update in baseline characteristics                          | nAMD category added [REDACTED]   | <a href="#">Section 2.3.4</a>   |
|            | Update in ocular category                                   | Ocular category was updated  | <a href="#">Section 2.3.5</a> , <a href="#">2.4.2</a> , <a href="#">2.4.3</a> and <a href="#">2.9.1</a> |
|            | Update in treatment exposure                                | New category added   | <a href="#">Section 2.4.1</a>   |
|            | Update in unit  | CNV lesion area unit updated   | <a href="#">Section 2.5.1</a>   |
|            | Update in BCVA group  | Loss of BCVA category updated  | <a href="#">Section 2.6.1.4</a>   |
|            | Update in date  | Start date and end date consideration updated  | <a href="#">Section 2.6.1.5.1</a>   |
|            |   | Start date consideration updated   | <a href="#">Section 2.6.1.6.1</a>   |
|            | Update in CPF and fundus examination question               | Vasculitis added in CFP and fundus examination   | <a href="#">Section 2.8.1</a> and <a href="#">2.8.5</a>   |
|            | Update in FAF question                                      | Foveal atrophy added in FAF question   | <a href="#">Section 2.8.2</a>   |
|            | Update in AEs section                                       | Added procedure related, remove EudraCT requirement  | <a href="#">Section 2.9.1</a>   |
|            | Update in AESI analysis                                     | Details for AESI analysis is added   | <a href="#">Section 2.9.1.1</a>   |
|            | [REDACTED]  | [REDACTED]   | [REDACTED]  |
|            | Update in sample size calculation                           | Sample size re-estimation  | <a href="#">Section 3</a>   |
|            | Added protocol change analysis                              | Added protocol change analysis for estimand  | <a href="#">Section 4</a>   |
|            | Update in statistical methodology                           | SAS code for correlation and Bland-Altman plot is deleted. Added code AESI derivation      | <a href="#">Section 5.4</a>   |
|            | Update in protocol deviation list and severity code         | New protocol deviation category added, severity updated and patient classification updated | <a href="#">Section 5.5</a>   |
| 05-04-2023 | Amendment V3.0  |  |   |

| Date       | Reason for update                                   | Outcome for update   | Section and title impacted (Current)   |
|------------|---|--|--|
|            | Update in visit window                              | Lower limit for Week 44 updated  | <a href="#">Section 2.1.2</a>  |
|            | Dropped category for $\leq$ Week 12 and $>$ Week 12 | Under drug exposure $\leq$ Week 12 and $>$ Week 12 dropped                         | <a href="#">Section 2.4.1</a>  |
|            | Update in sequence of variable                      | Sequence of expected variable changed  | <a href="#">Section 2.6.1.2.4</a> ,<br><a href="#">2.6.1.2.5</a> ,<br><a href="#">2.6.1.5.1</a>                    |
|            |   |  |  |
|            | Update in Date imputation rule                      | The same method for date imputation used for medical history (nAMD)                | <a href="#">Section 5.1.3</a>  |
|            | Updated in SAS code for t-test                      | SAS code for t-test updated  | <a href="#">Section 5.4</a>  |
| 15-06-2023 | Addendum V1.0                                       |  |  |
|            | Added definition for maximum duration of dry retina | Added definition for maximum duration of dry retina                                | <a href="#">Section 2.1.1</a><br><a href="#">General definitions</a>   |
|            | Updated date and censor                             | Logic for start date, end date and censor was updated                              | <a href="#">Section 2.6.1.2.5</a><br><a href="#">Maximum duration of dryness</a>                                   |
|            | Event and censor logic updated                      | Updated event and censor description for need of first q12w                        | <a href="#">Section 2.6.1.5.1</a><br><a href="#">Predictive value of first q12w cycle maintenance</a>              |
|            | nAMD date imputation rule                           | Rule for partial nAMD history dates should similar to prior concomitant medication | <a href="#">Section 5.1.3</a><br><a href="#">Concomitant medication and medical history (nAMD) date imputation</a> |

Hyperlinks were not updated for the amendment v1.0 for the versions dated 20-11-2020 due change in section numbers.

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## List of abbreviations

|          |  |
|----------|--|
| AE       | Adverse event                                  |
| ATC      | Anatomical Therapeutic Classification          |
| BCVA     | Best Corrected Visual Acuity                   |
| BCNVA    | Best Corrected Near Visual Acuity              |
| CNV      | Choroidal Neovascularization                   |
| CFP      | Color Fundus Photography                       |
| COVID-19 | Coronavirus disease 2019                       |
| CI       | Confidence Interval                            |
| CRC      | Central Reading Center                         |
| CRO      | Contract Research Organization                 |
| CSFT     | Central Sub-Field Retinal Thickness            |
| CRT      | Central Retinal Thickness                      |
| CSR      | Clinical Study Report                          |
| eCRF     | Electronic Case Report Form                    |
| ENR      | Enrolled set                                   |
| FA       | Fluorescein Angiography                        |
| FAF      | Fundus AutoFluorescence                        |
| FAS      | Full Analysis Set                              |
| ICF      | Informed Consent Form                          |
| IGC      | Indocyanine Green Chorioangiography            |
| IOP      | Intraocular Pressure                           |
| IVT      | Intravitreal                                   |
| KM       | Kaplan-Meier                                   |
| MedDRA   | Medical Dictionary for Drug Regulatory Affairs |
| nAMD     | Neovascular Age-Related Macular Degeneration   |
| OCT      | Optical Coherence Tomography                   |
| PK       | Pharmacokinetics                               |
| PD       | Protocol deviation                             |
| PDS      | Programming Datasets Specifications            |
| PPS      | Per-Protocol Set                               |
| PT       | Preferred Term                                 |
| q8w      | Every 8 Weeks                                  |
| q12w     | Every 12 Weeks                                 |
| SAP      | Statistical Analysis Plan                      |
| SAF      | Safety analysis set                            |
| SD-OCT   | Spectral Domain Optical Coherence Tomography   |

|     |                           |
|-----|---------------------------|
| SOC | System Organ Class        |
| SRC | Safety review committee   |
| TFL | Tables, Figures, Listings |
| WHO | World Health Organization |

## 1 Introduction

The purpose of this Statistical Analysis Plan (SAP) is to describe the implementation of the statistical methods for all safety and efficacy analyses planned (Section 12) in the clinical protocol (CRTH258AFR01, version no: 04, release date 16Nov2021). This document will be used to prepare the statistical results and the corresponding Clinical Study Report (CSR).

The details of CSR deliverables (shells for tables, figures and listings) and further programming specifications will be described in the Tables, Figures & Listings (TFL) shells and Programming Datasets Specifications (PDS) respectively will be included in this document.

Data will be analyzed by Novartis and/or the designated Contract Research Organization (CRO). Statistical software SAS version 9.4 or higher will be used for generating TFLs.

### 1.1 Study design

This is a prospective, single-arm, open-label, multicenter study to evaluate the efficacy and safety of brolucizumab 6 mg in patients with nAMD.

Patients will be required to attend 6 mandatory study visits: Screening/Baseline Visit (Day 1), Week 4, Week 8, Week 12, Week 16 and Week 48 visits. The timing of the interim visits between Week 16 and Week 48 will depend on the patient's injection regimen, i.e. q12w or q8w.

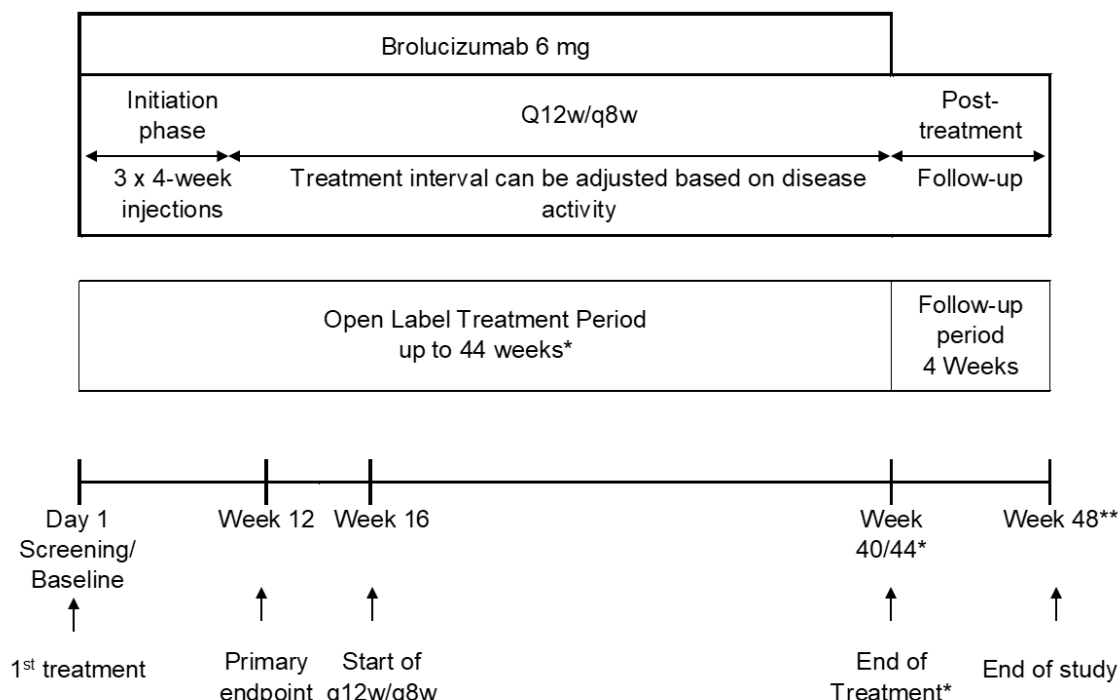
#### Planned number of patients

Approximately 210 adult patients will be screened and included (10% dropout rate and uninterpretable images at Baseline and Week 12 are expected) in France. The maximum study duration for 1 patient is 48 weeks, including Screening.

There will be 2 periods in this study (see [Figure 1-1](#)):

- Open-label treatment period: from Screening/Baseline (Day 1) to Week 40/Week 44 (depending on assigned regimen)
- Follow-up period: Week 40/Week 44 to Week 48

**Figure 1-1 Study design**



\* Week 40 or Week 44 according to treatment schedule

\*\* End of study visit: 4 or 8 weeks after the last IVT, depending on the last IVT date

Patients will receive 3 initial doses every 4 weeks ((Day 1, Week 4 and Week 8) loading phase), which should be at least 21 days apart, followed by treatment q12w with the possibility of adjusting to treatment q8w based on disease activity.

Disease activity will be assessed based on investigator's judgment of visual acuity and anatomical parameters as provided in the guidance to the investigators, e.g. decrease of visual acuity and/or other signs of the disease (e.g. intraretinal fluid (IRF), subretinal fluid (SRF), sub-retinal pigmented epithelium (sub-RPE) fluid, retinal hemorrhage, central retinal thickness (CRT) increase, etc.). Disease activity will be assessed during the first q12w interval at Week 16. If no disease activity is observed by the investigator in the study eye, disease activity will be assessed every 12 weeks (at Week 20, Week 32 and Week 44). If disease activity is observed by the investigator in the study eye at any of these visits, the study treatment will be adjusted by the investigator to a q8w treatment regimen and will remain on this regimen until Week 40/Week 44. Patients who require study treatment every 4 weeks after the initiation phase will be discontinued from further study treatment at the next visit.



## 1.2 Study objectives and endpoints

**Table 1-1 Objectives and related endpoints**

| Objectives   | Endpoints   |
|--|---|
| Primary objectives   | Endpoints for primary objectives  |
| <ul style="list-style-type: none"> <li>To evaluate the short-term effect of brolucizumab on CNV lesion area as measured by OCT-A in nAMD patients.</li> </ul>              | <ul style="list-style-type: none"> <li>Percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12.</li> </ul>  |
| Secondary objectives   | Endpoints for secondary objectives  |
| <ul style="list-style-type: none"> <li>To evaluate the long-term effects of brolucizumab on CNV morphology as measured by OCT-A in nAMD patients.</li> </ul>               | <ul style="list-style-type: none"> <li>Percentage change in CNV lesion area measured by OCT-A from Baseline to Week 48.</li> <li>Change in OCT-A features assessed by qualitative and quantitative criteria from Baseline by visit at Week 12 up to Week 48.</li> </ul> |
| <ul style="list-style-type: none"> <li>To evaluate the effect of brolucizumab on anatomical parameters as assessed by SD-OCT and FA from Week 12 up to Week 48.</li> </ul> | <ul style="list-style-type: none"> <li>Change in SD-OCT and FA features assessed by qualitative and quantitative criteria (e.g. CSFT, sub- and/or intraretinal fluid, sub-RPE fluid) from Baseline by visit up to Week 48.</li> </ul>                                   |
| <ul style="list-style-type: none"> <li>To evaluate the efficacy of brolucizumab up to Week 48 by assessing changes in BCVA.</li> </ul>                                     | <ul style="list-style-type: none"> <li>Change in BCVA from Baseline up to Week 48.</li> </ul>   |
| <ul style="list-style-type: none"> <li>To estimate the proportion of patients treated at q12w frequency with brolucizumab.</li> </ul>                                      | <ul style="list-style-type: none"> <li>Proportion of patients who are maintained on an exclusive q12w interval following the loading phase through to Week 48.</li> </ul>   |
| <ul style="list-style-type: none"> <li>To estimate the predictive value of the first q12w cycle for maintenance of q12w treatment with brolucizumab.</li> </ul>            | <ul style="list-style-type: none"> <li>The probability of the first q12w interval for determining successful q12w maintenance at Week 48.</li> </ul>  |
| <ul style="list-style-type: none"> <li>To evaluate the time from last IVT injection in the initiation phase to first visit with no disease activity.</li> </ul>            | <ul style="list-style-type: none"> <li>Time from last IVT injection in the initiation phase to first visit with no disease activity.</li> </ul>   |
| <ul style="list-style-type: none"> <li>To evaluate the safety of brolucizumab.</li> </ul>  | <ul style="list-style-type: none"> <li>Incidence of AEs (serious and non-serious) reported in patients treated with brolucizumab.</li> </ul>  |

AEs= adverse events, BCVA= best corrected visual acuity, CNV= choroidal neovascularization, CSFT= central sub-field retinal thickness, FA= fluorescein angiography, IVT= intravitreal  
nAMD= neovascular age-related macular degeneration, OCT-A= optical coherence tomography-angiography, SD-OCT= spectral domain optical coherence tomography, sub-RPE= subretinal pigmented epithelium

## 2 Statistical methods

### 2.1 Data analysis general information

Patients who consent and meet all the inclusion and none of the exclusion criteria will be screened to evaluate eligibility. After confirmation of eligibility, patients will be included and treated with brolocizumab 6 mg and data will be analyzed.

All categorical data will be presented in terms of frequencies and percentages. Summaries of continuous data will be presented in terms of n (the number of non-missing data points), mean, standard deviation (SD), median, lower and upper quartiles, minimum, maximum and the number of missing data points.

For descriptive statistics, the following rules for number of decimal places will be applied: arithmetic mean, median, lower quartile and upper quartile to 1 more decimal places than the raw data; minimum and maximum to the same number of decimal places as the raw data and SD to 2 more decimal places than the raw data. Percentages will be presented to 1 decimal place.

#### 2.1.1 General definitions

**Study treatment:** This is a single-arm study and all patients will be treated with brolocizumab 6 mg. Three loading injections (at Screening/Baseline/Day 1, Week 4 and Week 8), followed by maintenance treatment from Week 16/Week 20 up to Week 40/Week 44. The investigator can individualize treatment intervals depending on disease activity, to adjust patient's injection regimen.

**Study treatment start and end date:** Study treatment start date is defined as the first date study treatment is administered and recorded on the treatment administration record (DAR) electronic case report form (eCRF) page. Similarly, study treatment end date is defined as the last date of study treatment is administered and recorded on the study treatment completion CRF page.

Generally, study day 1 is considered as the day of inclusion of the patient. However in this study, treatment is intended to be administered on the same day or if this is not possible, within 3 days after the day of inclusion of the patient.

Study day will be calculated as (event date – study treatment start date + 1 day) for events that occurred on or after study treatment start date (e.g. visit, AEs). For events prior to study treatment start date (e.g. time since diagnosis), study day will be negative and calculated as (event date – study treatment start date).

**Baseline and post-baseline:** Baseline value refers to the value of the last non-missing measurement collected prior to administration of the first dose of study treatment (Screening or Baseline visit). Intraocular pressure (IOP) will be assessed in the study eye, pre-dose and post-dose at every injection. The last available assessment taken prior to the first IVT injection of study treatment is taken as the “Baseline” assessment.

A “post-baseline” value refers to a measurement taken after the first dose of study treatment. When assessments and treatments take place on the same day, treatment must occur after completion of the efficacy assessments and pre-injection safety measures (tonometry, slit lamp and fundus examinations). If study visit assessments and the corresponding treatment occur on separate days, a repeat safety check-up will be performed prior to treatment of the eye and

results documented in the source documents. More post-baseline safety measurements will be recorded in source document; visit window will be applied to OCT and IVT visits.

**Change from Baseline:** The difference of measure between post-baseline and Baseline is called change from Baseline.

**Percent change from Baseline:** The percent change from Baseline will be calculated as below:  
$$((\text{post-baseline value} - \text{Baseline value}) / \text{Baseline value}) * 100.$$

**On-treatment period:** The on-treatment period lasts from the date of first administration of study treatment to 28 days after the date of the last actual administration of any study treatment.

**Treatment duration:** The maximum planned duration of treatment for each patient is 40 to 44 weeks in accordance with the designated treatment regimen. Discontinuation of study treatment for a patient occurs when study treatment is stopped earlier than the protocol planned duration and can be initiated by either the patient or the investigator.

**Treatment discontinuation:** When patients discontinue study treatment but continue in the study, the efficacy data will be used at the time the patient stopped study treatment.

**Dry retina:** Absence of fluid (IRF/SRF/sub-RPE) will be considered as dry retina.

**Event for maintenance q12w interval:** In case the investigator selects q12w interval for a patient and the patient maintains the q12w interval until the first q8w interval has started then this will be considered as an event. In case the investigator maintains q12w interval (does not select q8w interval at any time in study) until EOS or patients got early discontinuation from study then patients will be considered as censored.

**Event for no disease activity:** When patients will be with no disease status as per investigator decision after last dose in initiation phase then the patients will consider as event for disease activity. If patients with active disease status or early discontinue then patients will be considered as censored for disease activity.

**Event for dry retina:** When patients have absence of fluid then it will be considered as an event of dry retina. If patients have a presence of fluid before/at EOS or early discontinuation then will be censored.

**Maximum duration of dry retina:** The longest consecutive interval of dryness will be considered as maximum duration of dryness. This duration will be obtained from end date of dryness and start date of dryness for longest interval. If subjects obtain dryness at end of study then duration will be obtained from end of treatment.

**Study eye and fellow eye:** The investigator selects the eye with the worse BCVA at Screening as the study eye. Otherwise, the investigator deems as a study eye more appropriate to select the eye with better BCVA, based on medical reasons or local ethical requirements. If both eyes are eligible as per the inclusion and exclusion criteria, then it is recommended to select the right eye as the study eye.

The fellow eye will be examined only at Screening/Baseline and Week 48/EOS visits. Only best corrected near visual acuity (BCNVA) for the fellow eye will be analyzed. It is not requested for the purpose of this study to do any self-assessment measure of the fellow eye.

## **CNV lesion area**

A new angiography tool, namely optical coherence tomography-angiography (OCT-A) is a dye-less angiographic procedure based on split-spectrum-decorrelation-amplitude angiography that has become an essential and widely used tool, particularly for imaging CNV and vascular diseases of the retina. The literature suggests that OCT-A is a good marker for assessing anti-VEGF therapeutic response, especially the lesion size that has been demonstrated to decrease under anti-VEGF therapy.

OCT-A will be used in this study to assess the morphological response of patients to brolocizumab in terms of percentage change in CNV lesion area in the short term (i.e. at Week 12 just after loading doses) and in the long term (i.e. at Week 48 [12 months]), as well as changes in other OCT-A features up to Week 48.

The primary endpoint is the percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12. The Week 12 time point has been selected as peak efficacy has been demonstrated in the pivotal trials of brolocizumab for this time point.

## **Anatomic parameters measured by OCT-A and SD-OCT**

Anatomic parameters measured by OCT-A and by SD-OCT will be analyzed by a CRC. The main aim of the CRC analysis is to confirm anatomic features from OCT-A and SD-OCT images for the primary endpoint. The investigator will evaluate the OCT-A and SD-OCT images to assess the status of disease stability.

## **Disease activity criteria**

Disease activity criteria will be assessed by the investigator based on whether nAMD is still active or has been re-activated. Guidance for the investigator is as follows (disease is active if at least one of the following criteria is observed by the investigator):

- BCVA decrease  $\geq 5$  letters from the best value since Baseline due to disease activity.
- Any significant increase in CRT (based on investigator assessment).
- Retinal hemorrhage.
- Intraretinal fluid or SRF due to disease activity (degenerative cysts allowed).
- Increase of sub-RPE fluid.

These criteria are for guidance only, the investigator may define disease activity based on his/her own assessment.

A patient who misses Week 16 will undergo the disease activity assessment at Week 20 as he/she would have done if the visit had not been missed. If, however, a patient misses any of the following disease activity assessment visits (Week 20, Week 32) then the patient will be assumed to have met the disease activity criterion at the missed visit and will be reassigned to a q8w regimen up to study exit.

If a patient misses Week 12, then the Week 8 values will be applied as the reference for disease activity assessments up to and including Week 44.

**Fluorescein angiography:** Fluorescein angiography (FA) is a diagnostic procedure that uses a special camera to record the blood flow in the RETINA – the light sensitive tissue at the back of the eye.

**Color fundus photography (CFP):** CFP is a diagnostic procedure that involves the use of a device known as a fundus camera to record colored images of the interior surface of the eye. The goal of this procedure is to monitor the presence of disorders and their change with time.

**Fundus autofluorescence (FAF):** Fundus autofluorescence imaging is an *in vivo* imaging method for metabolic mapping of naturally or pathologically occurring fluorophores of the ocular fundus.

**Indocyanine green angiography (ICG):** ICG is a diagnostic procedure that uses ICG dye to examine the blood flow in the choroid – the layer of blood vessels that lies underneath the retina. ICG is injected into a vein in the arm/hand. As the dye passes through the blood vessels of the eye, photographs are taken to record the blood flow.

**Intraocular pressure (IOP):** IOP is the fluid pressure of the eye. IOP is measured in millimeters of mercury (mmHg). Normal eye pressure is usually considered to be between 10 and 25 millimeters of mercury (mmHg).

**Fundus examination:** Fundus examination used to assess diagnose vitreo-retinal diseases (such as retinal haemorrhage, vitreal haemorrhage, retinal tear and detachment), optic nerve defects and hereditary diseases.

## 2.1.2 Visit windows for data analysis

Visit windows will be used for the data analysis, as per the planned visits in the protocol. During the q12w/q8w phase, i.e., from Week 16 to Week 44, the treatment visit intervals will be determined by the investigator, based on the patient's disease activity.

**Table 2-1 Assessment windows for scheduled visits**

| Analysis Visit            | Week      | Scheduled Day | Visit Window              |
|---------------------------|-----------|---------------|---------------------------|
| <b>Screening/Baseline</b> | <b>BL</b> | <b>1</b>      | <b>-14 days to Day 1*</b> |
| Week 4                    | 4         | 28            | Day 22 - 34               |
| Week 8                    | 8         | 56            | Day 50 – 62               |
| Week 12                   | 12        | 84            | Day 71 – 97               |
| Week 16                   | 16        | 112           | Day 99 – 119              |
| Week 20                   | 20        | 140           | Day 127 – 153             |
| Week 24                   | 24        | 168           | Day 155 – 182             |
| Week 28                   | 28        | 196           | Day 183 – 209             |
| Week 32                   | 32        | 224           | Day 211 – 237             |
| Week 36                   | 36        | 252           | Day 239 – 265             |
| Week 40                   | 40        | 280           | Day 267 – 293             |
| Week 44                   | 44        | 308           | Day 295 – 321             |
| Week 48                   | 48        | 336           | Day 323 – 349             |

\* Baseline measurement before the first treatment administration.

If study visit assessments and the corresponding treatment occur on separate days, a repeat safety check-up should be performed prior to treatment of the eye and results documented in the source documents. If any safety concern arises related to the study eye that, in the opinion of the investigator, may be further impacted by the study treatment or injection procedure, treatment needs to be cancelled. Injections are contraindicated in patients with active intraocular or periocular infections and in patients with active intraocular inflammation; therefore, the investigators should verify that these conditions are not present in the study eye prior to every injection. Any AEs must be recorded in the eCRF.

The injection procedure for brolucizumab will be performed according to local clinical practice. Injections will be administered by the investigator.

Data collected at unscheduled visits will not be used in 'by-visit' tabulations or graphs and will be presented in listings.

## 2.2 Analysis sets

**Enrolled Analysis Set (ENR):** The ENR set includes all patients who signed an ICF and are assigned patient numbers.

**Full Analysis Set (FAS):** The FAS comprises all patients to whom study treatment has been assigned and who received at least one IVT injection of study treatment.

**Safety Set (SAF):** The SAF set includes all patients who received at least one IVT injection of study treatment.

**Per-Protocol Set (PPS):** The PPS is a subset of patients in the FAS without PDs with impact. The list of PD criteria will be provided in edit checks specification (ECS) document.

**Full Analysis Set Estimand (FAS-EST):** The FAS-EST comprises all patients who are in the FAS and did not discontinue treatment in the entire study due to COVID-19.

**Per-Protocol Set Estimand (PPS-EST):** The PPS-EST is a subset of patients of the FAS-EST without PDs with impact.

When assessing the robustness of the overall efficacy conclusions, considerations will be given to the analysis based on the estimand using FAS-EST and PPS-EST. The expectation for comparing both estimands is to have similar conclusions. Inconsistencies in the results will be examined and discussed in the CSR.

## **2.3 Patient disposition, demographics and other baseline characteristics**

### **2.3.1 Patient disposition**

The FAS will be used to prepare the summary and ENR will be used for listing of patient disposition.

The number and percentage of patients who completed the study and discontinued from the study will be summarized with reasons for premature discontinuation for the ENR. In addition, the number of screen failures with reasons will be presented for all screened patients. The patient identification number and whether patients completed or discontinued from the study will be listed, with date of last dose and primary reason for premature discontinuation.

A separate summary of disposition and listing for rescreened patients will be presented for the ENR.

Study treatment will be discontinued under the following circumstances:

- Adverse event
- Death
- Lost to follow-up
- Physician decision
- Pregnancy
- Progressive disease
- Protocol deviation
- Study terminated by sponsor
- Technical problem
- Patient decision
- New therapy for study indication
- Lack of efficacy
- Use of prohibited treatment
- Any situation in which study participation might result in a safety risk to the patient

### **2.3.2 Protocol deviation**

The number and percentage of patients with protocol deviations will be tabulated by category and deviation for the FAS. Patients with protocol deviations will be listed with date and study day of occurrence, deviation and severity codes for the ENR.

The number of patients included in each analysis set will be tabulated for all enrolled patients. Reasons for exclusion from analysis sets will be tabulated for the ENR. Patient exclusion from analysis sets will be listed for all patients with reasons for exclusion (i.e., both protocol and non-protocol deviations).

### 2.3.3 Demographic characteristics

Demographic and Baseline characteristics will be listed and summarized descriptively for overall patients on FAS and Safety Set.

The following demographic and vital signs variables collected in the eCRF at Baseline will be summarized:

- Sex (male, female)
- Age (in years)
- Age category (< 50, 50 - 65, 65 - 75, 75 - 85, ≥ 85)
- Study eye (left [OS], right [OD])
- Vital signs (sitting systolic/diastolic blood pressure [mmHg], sitting pulse rate [bpm]) only on the days study treatment is administered, it is measured prior study treatment

### 2.3.4 Baseline characteristics

The following Baseline characteristics collected in the eCRF at Baseline will be summarized for study eye and fellow eye (wherever applicable):

- Time since nAMD diagnosis
- Time since nAMD diagnosis (< 1 month, 1-3 months and > 3 months)
- Unilateral versus bilateral nAMD
- BCVA
- BCVA ( $\leq 55$ , 56 - 70,  $\geq 71$ )
- BCVA categories (count fingers, hand motion, light perception, no light perception) in case BCVA score is 0
- FA (analyzed by Vienna [CRC])
  1. Lesion type (only at Baseline) (predominantly classic, minimally classic, occult)
  2. Lesion type (only at Baseline) (type 1 / type 2 / type 3 / type 1 with aneurysm / polyps)
  3. CNV location (subfoveal, juxtafoveal, extrafoveal)
  4. Area of lesion associated with CNV (mm<sup>2</sup>)
- ICG (analyzed by Vienna [CRC])
  1. Lesion type (only at Baseline) (type 1 / type 2 / type 3 / type 1 with aneurysm / polyps)
  2. Area of lesion associated with CNV (mm<sup>2</sup>)
- SD-OCT (analyzed by Vienna [CRC])
  - Lesion type (only at Baseline) (type 1, type 2, type 3)
  - CSFT (μm)
  - Baseline CSFT (< 300, ≥ 300 - 450, ≥ 450 - < 650, ≥ 650 [μm])
  - Presence of fluid (YES/NO)
    1. Intraretinal fluid
    2. Subretinal fluid
    3. Sub-RPE fluid
  - Volume (mm<sup>3</sup>) and height (μm) of each fluid (in case of presence)
    1. Intraretinal fluid



2. Subretinal fluid
3. Sub-RPE fluid
- In case of sub-RPE / PED : nature : serious PED / fibrovascular PED / mixed PED
- OCT-A (analyzed by Vienna)
  1. CNV location (only at Baseline)
  2. CNV lesion area (at the biggest surface) ( $\text{mm}^2/\mu\text{m}^2$ )
- Fundus observation
  1. Retinal hemorrhage (none, retinal macular and retinal non-macular)
  2. Presence of vitreal hemorrhage (Yes, No)
  3. Retinal tear/ detachment (none, tear, detachment, both)
- Color fundus photography (CFP)
  1. Presence of retinal or subretinal hemorrhage (Yes, No)
  2. Presence of fibrosis (Yes, No)
  3. Presence of atrophy (Yes, No)
  4. Subretinal blood affecting foveal center point and/ or  $> 50\%$  of total lesion (Yes, No)
- Fundus autofluorescence (FAF)
  1. Presence of macular atrophy (Yes, No)
  2. Area of macular atrophy
- Intraocular pressure
- Intraocular pressure ( $\leq 10$ , 10-25, 25-30 and  $\geq 30$  [mmHg])
- Disease activity assessment (Present)
- History of primary diagnosis:
  1. Disease (neovascular age-related, macular degeneration [nAMD])
  2. Age of diagnosis
  3. Eye (OD, OS)
  4. Ongoing (Yes, No)
- History or evidence of the following in the study eye within the 90-day period prior to Screening/Baseline:
  1. Intraocular or refractive surgery
  2. Previous panretinal photocoagulation
  3. Previous submacular surgery, other surgical intervention or laser treatment for nAMD including photodynamic therapy (PDT)
- Concomitant medication at Baseline
- Medical history
- Co morbidities

### **2.3.5 Relevant medical history / current medical condition**

Medical history / current medical conditions (general and ocular) will be coded using the Medical Dictionary for Regulatory Activities (MedDRA) terminology. History/conditions will be summarized for the FAS by primary system organ class (SOC), preferred term (PT) by eye (any eye, study eye and fellow eye). Verbatim recorded history/conditions will be listed together with the coded terms, date of diagnosis/surgery and whether the problem was ongoing at start of the study. The ongoing medical history will be considered as co morbidities. The co morbidities will be summarized and listed separately for eye (any eye, study eye and fellow eye and both eye).

## **2.4 Treatments (study treatment, rescue medication, concomitant therapies)**

### **2.4.1 Study treatment exposure**

Extent of exposure to study treatment is calculated as the number of IVT injections received.

The following summaries will be presented:

1. Overall number of injections (n, q1, median, q3, min and max) will be presented.
2. Number of injection (n, q1, median, q3, min and max) before or at Week 8 and greater than Week 8.
3. Number of patients with injection (1 injection, 2 injections up to the maximum number of injections) from Baseline to the end of the treatment period will be presented.
4. Treatment exposure by visit: The number and percentage of patients who received injections, missed a treatment and missed visits will be presented by visit.
5. Summary statistics (n, mean, std, median, min and max) for overall duration will be provided.

The number and percentage of patients for changes in brolocizumab 6 mg treatment patterns over time (i.e. interruptions or permanent discontinuations) along with reasons, will be summarized. Discontinuations and primary reasons for treatment and/or study discontinuation will also be described.

Exposure data will be summarized for the Safety Set and FAS. The exposure data will be listed for the FAS.

### **2.4.2 Prior, concomitant and post therapies**

Each medication has the start and end dates recorded on the eCRF. Prior medications are defined as those medications which were taken and stopped prior to first dose of study treatment. Concomitant medications are defined as any medication given at least once between the day of first dose of study treatment and the last day of study visit, including those which were started pre-baseline and continued into the treatment period. The below summary tables will be reported:

- Prior medication
- Concomitant medications which started prior to first dose of study treatment
- Concomitant medications which started on/after first of study treatment

All prior and concomitant medications will be coded using the most recent version of the WHO drug dictionary. All concomitant medications (general and ocular) will be listed and summarized in alphabetic order according to anatomical therapeutic chemical (ATC) classification system and PT. Tables will also show the overall number and percentage of patients receiving at least one treatment of a particular ATC.

For prior and concomitant ocular medications, as well as ocular procedures performed during the study, separate tabular summaries will be prepared for the any eye, study eye and the fellow eye. A listing of all prior and concomitant medications and concomitant procedures will be provided.

For handling of missing or incomplete start and end dates, see [Appendix 5.1.3](#) of this document.  
All summaries will be performed on the Safety Set.

### **2.4.3 Prior and concomitant surgery and procedures**

All prior and concomitant surgery and procedures will be summarized and listed by category (general, ocular) and eye (any eye, study eye and fellow eye).

For handling of missing or incomplete start and end dates, see [Appendix 5.1.3](#) of this document.  
All summaries will be performed on the Safety Set.

## **2.5 Analysis of the primary objective**

### **2.5.1 Primary endpoint**

OCT-A will be used in this study to assess the morphological response of patients to brolocizumab. In terms of percentage change in CNV lesion area (at the biggest surface) (mm<sup>2</sup>).

The primary endpoint is the percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12 in the study eye. The percentage change from Baseline at Week 12 in the lesion area will be derived as follows:

$$([ \text{Lesion area at Week 12} - \text{Lesion area at Baseline} ] * 100) / \text{Lesion area at Baseline}$$

Descriptive statistics (n, mean, std, median, min and max) for the primary endpoint (actual value, change from Baseline, percentage change from Baseline) will be presented based on observed data using the FAS. Furthermore, a 2-sided 95% CI using Student's t-distribution will also be provided. In case of significant outliers or deviations from normality assumptions then IQR will be presented.

The last observation carried forward (LOCF) method will be used as sensitivity analysis to impute missing record for CNV lesion area at post baseline. If there is significant amount of missing record then another table with LOCF records should be created.

The above analysis will be done only on the study eye. The analysis will be performed on FAS. The analysis will be performed on the PPS, if there is more than a 10% difference in patients, between the FAS and PPS.

### **2.5.2 Supportive analyses**

Subgroups analyses according to patient characteristics, like sex (male, female), age class ( $\leq 64$ ,  $> 65 - 75$ ,  $75 - 85$ ,  $\geq 85$ ), Baseline lesion type (type 1, type 2, type 3) and time since nAMD diagnosis ( $< 1$  month, 1-3 months, and  $> 3$  months).

## **2.6 Analysis of secondary efficacy objectives**

### **2.6.1 Secondary endpoints**

#### **2.6.1.1 Oct-A long-term effects**

The first secondary endpoint is the percentage change in CNV lesion area (mm<sup>2</sup>) measured by OCT-A for nAMD patients from Baseline to Week 48. Descriptive statistics (n, mean, std, median, min and max) for the change in CNV lesion (actual value, change from Baseline, percentage change from Baseline) will be presented based on observed data by visit. Furthermore, a 2-sided 95% CI using Student's t-distribution will be provided.

The number and percentage of lesion type (predominantly classic, minimally classic and occult) will be presented by visit.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

#### **2.6.1.2 Spectral domain optical coherence tomography (SD-OCT)**

The following secondary efficacy parameters based on SD-OCT will be analyzed as given below.

##### **2.6.1.2.1 Central sub-field retinal thickness (CSFT)**

Summary statistics of central sub-field retinal thickness (CSFT) measured by SD-OCT for nAMD patients will be presented by visit along with change and percentage change from Baseline in CSFT.

The number and percentage of patient with CSFT category (< 300, ≥ 300 - 450, ≥ 450 - < 650, ≥ 650 (μm)) will be presented by visit.

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

##### **2.6.1.2.2 Presence of fluid (YES/NO)**

The number and percentage of patients with below fluid will presented by visit.

1. Intraretinal fluid
2. Subretinal fluid
3. Sub-RPE fluid
4. Without IRF or SRF
5. Without any fluid (IRF/SRF/sub-RPE)
6. In case of sub-RPE / PED : nature : (serious PED / fibrovascular PED / mixed PED)

Volume (mm<sup>3</sup>) and height (μm) of intraretinal fluid, subretinal fluid and/or sub-RPE fluid will be presented the summary statistics (n, mean, std, median, min and max) by visit, if available.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

### 2.6.1.2.3 Dry retina

The proportion of patients without both fluids (IRF and SRF), without IRF, without SRF, without sub-RPE will be presented by visit, separately, up to Week 48/Week 50.

The proportion of patients without fluid (IRF and SRF) and having fluid (IRF and/or SRF) in entire study will be presented.

The 95% confidence interval (CI) for proportion using the Clopper-Pearson method will be provided by visit and overall.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

### 2.6.1.2.4 Time to dryness

The median time to dryness will be obtained from Kaplan-Meier (KM) analysis along with 2-sided 95% CI will be presented. KM plot will be provided. Detailed KM results will be presented including time (week), number of patients under risk at visit (without dry retina), number of patients with dry retina at visit (event), probability of dry retina (survival probability) at visit and 95% CI at visit.

| Variable                                  | Definition   |
|---|--|
| Start date                                | Start date of IVT injection  |
| Event                                     | Dry retina (absence of IRF and/or SRF)   |
| End date of event<br>Censoring (end date) | Start date of first dry retina<br>Earliest of: <ul style="list-style-type: none"> <li>Absence of dry retina until EOS</li> <li>Early discontinuation without dry retina</li> </ul> |
| Duration of time                          | (End date – start date) +1   |

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

### 2.6.1.2.5 Maximum duration of dryness

The median of maximum duration of dryness until Week 48/50 will be presented. The median will be obtained from the KM analysis along with 2-sided 95% CI. KM plot will be provided.

Detailed KM results will be presented including time (week), total number of patients having fluids (risk), number of patients under achieved maximum duration (event), probability of maximum duration of dryness (survival probability) and 95% CI.

| Variable                                  | Definition   |
|---|--|
| Start date                                | Start date of treatment  |
| Event                                     | Dryness  |
| End date of event<br>Censoring (end date) | Start date of dryness<br>Earliest of: <ul style="list-style-type: none"> <li>Absence of dryness until EOS</li> </ul> |

|                  |  |
|------------------|--|
| Duration of time | <ul style="list-style-type: none"> <li>Early discontinuation with absence of dryness</li> </ul> (End date – start date) +1 (Maximum duration will be used) |
|------------------|--|

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

### 2.6.1.3 Fluorescein angiography (FA)

The number and percentage of CNV location (subfocal, juxtafoveal, extrafoveal) at Week 12 will be presented for both study eye and fellow eye.

The summary statistics (n, mean, std, median, min and max) of area of lesion associated with CNV (mm\*\*2) will be presented at Week 12 for study eye and fellow eye, along with change from Baseline and percentage change from Baseline.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

### 2.6.1.4 Best corrected visual acuity (BCVA)

The summary statistics (n, mean, std, median, min and max) of BCVA for nAMD patients will be presented along with change and percentage change from Baseline in BCVA by visit. Along with below BCVA category.

1. BCVA ( $\leq 55$ ,  $56 - 70$  and  $\geq 71$ ).
2. Increase of  $\geq 5$ ,  $\geq 10$  and  $\geq 15$  letters in BCVA from Baseline up to Week 48.
3. Loss of  $\geq 5$ ,  $\geq 10$ ,  $\geq 15$  and  $\geq 30$  letters in BCVA from Baseline up to Week 48.
4. BCVA  $\geq 84$ .

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

### 2.6.1.5 Dosing regimen of brolucizumab

The binomial proportion and 95% CI using the Clopper-Pearson method will be provided for patients who are maintained on an exclusive q12w interval following the loading phase through Week 48.

The number and percentage of q8w dose frequency patients will be presented along with 95% CI using the Clopper-Pearson method.

Duration of dose is defined as (date of last dose – start date of dose).

The summary statistics (n, mean, std, first quartile, median, third quartile, min and max) for duration of dose will be provided for patients who are maintained on an exclusive q12w interval following the loading phase through Week 48. In the study design the  $3 \times 4$ -week dosing frequency, in initiation phase.

The above analysis will be done only on the study eye. The analysis will be performed on the FAS.

### 2.6.1.5.1 Predictive value of the first q12w cycle for maintenance of q12w treatment with brotuzumab

The probability of the first q12w interval will be derived from KM time to event analyses. KM plot will be provided. Detailed KM results will be presented including time (week), number of patients under risk at visit, number of patients with first q12w or discontinued at visit, probability of maintaining on q12w (survival probability) and 95% CI for maintaining on q12w.

| Variable             | Definition  |
|----------------------|---|
| Start date           | First date when patients on q12w interval                                     |
| Event                | Fail maintain to q12w interval  |
| End date             | Last date of initial q12w interval (before or on first start of q8w interval) |
| Censoring (end date) | Completed/Discontinue with q12w   |
| Duration of time     | (End date – start date) +1  |

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

### 2.6.1.6 Disease activity assessments

The number and percentage will be presented by visit for disease activity assessment.

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

#### 2.6.1.6.1 Duration of time from start of dose to till no disease activity

The median of duration of time is obtained from KM analysis along with 2-sided 95% CI will be presented. KM plots will be provided.

Detailed KM results will be presented including time (week), number of patients with no disease activity at visit, number of patients under risk at visit (with disease activity), probability of disease activity (survival probability) at visit and 95% CI at visit.

| Variable             | Definition  |
|----------------------|---|
| Start date           | Start date of start of IVT injection/ last IVT injection in the initiation phase  |
| Event                | No disease activity   |
| End date of event    | Date of first visit with no disease activity  |
| Censoring (end date) | Earliest of: <ul style="list-style-type: none"> <li>• With disease activity until EOS</li> <li>• Early discontinuation</li> </ul> |
| Duration of time     | (End date – start date) +1  |

The above analysis will be done only on the study eye. The analysis will be performed on FAS.

## **2.8 Analysis of other efficacy variables**

### **2.8.1 Color fundus photography**

The number and percentage will be provided at Screening/Baseline, week 12 and end of study (Week 48) for below questions:

- Was color fundus photography performed? If not, then reason for not performed CFP.
- Presence of retinal hemorrhage in central subfield.
- Presence of subretinal hemorrhage in central subfield.
- Presence of fibrosis in the central subfield the diameter of 3000  $\mu\text{m}$ .
- Presence of atrophy in the central subfield the diameter of 3000  $\mu\text{m}$ .
- Is there subretinal blood affecting the foveal center point and/or >50% of total lesion.
- Presence of Vasculitis.

The above analysis will be done on both eyes. The analysis will be performed on the FAS.

### **2.8.2 Fundus autofluorescence (FAF)**

The number and percentage will be provided at Baseline, week 4 and end of study (week 48) for below question.

- Fundus auto-fluorescence performed at visit. If not then reason for not performed FAF.
- Presence of macular atrophy in the central subfield (center 1 mm circle).
- Presence of foveal atrophy.



The summary statistics (n, mean, std, median, min and max) of area of macular atrophy (mm<sup>2</sup>) will be presented at Baseline, Week 4 and Week 48 along with change from Baseline and percentage change from Baseline in FAF.

The above analysis will be done on the both eye. The analysis will be performed on FAS.

### **2.8.3 Indocyanine green angiography (ICG)**

The number and percentage of lesion type (only at Baseline) (type 1 / type 2 / type 3 / type 1 with aneurysm / polyps) at Baseline will be provided.

The summary statistics (n, mean, std, median, min and max) for area of lesion associated with CNV (mm<sup>2</sup>) at Baseline and Week 12 will be provided along with summary statistics for change from Baseline and percentage change from Baseline at week 12 for area of lesion.

The above analysis will be done on both eyes. The analysis will be performed on the FAS.

### **2.8.4 Intraocular pressure**

Intraocular pressure will be collected in the CRF at Baseline and Week 48. The summary statistics of IOP for nAMD patients will be presented at Week 48 along with change from Baseline and percentage change from Baseline in IOP. In addition, the number and percentage of patients with IOP ( $\leq 10$ , 10-25, 25-30 and  $\geq 30$  [mmHg]) will be presented at Week 48.

The above analysis will be done on both eyes. The analysis will be performed on the FAS.

### **2.8.5 Fundus examination**

The below variables of number and percentage will be presented for study eye and fellow eye by visit.

- Retinal hemorrhage (none, retinal macular and retinal non-macular)
- Presence of vitreal hemorrhage (no, yes)
- Retinal tear/detachment (0- none, 1- retinal tear, 2- retinal detachment, 3- retinal tear and detachment)
- Presence of intraocular inflammation (no, yes)
- Presence of vasculitis.

Listing of fundus examination parameter will be provided by patient and visit.

The above analysis will be done on the both eye. The analysis will be performed on the FAS.

## **2.9 Safety analyses**

Safety measurements include duration of exposure, vital signs and adverse events. All safety endpoints will be summarized using the Safety Set. Patients will be analyzed according to treatment received. No imputation will be carried out for missing data.

## 2.9.1 Adverse events (AEs)

All information obtained on AEs will be displayed by patient. Summary tables for AEs will summarize only on-treatment events, with a start date during the on-treatment period ([see Section 2.1.1](#)) for definition of on-treatment period).

The count of treatment-emergent AEs, number (and percentage) of patients with treatment-emergent AEs (defined as events started after the first dose of study treatment or events present prior to start of study treatment but increased in severity based on PT) will be summarized in the following ways:

- By primary SOC and PT.
- By primary SOC, PT and maximum severity.

Separate summaries will be provided for study treatment related AEs, procedure related, death, SAEs and other significant AEs action taken leading to study treatment interruption & treatment withdrawn.

Adverse events will be summarized by presenting, the number and percentage of patients having any AE, having an AE in each primary SOC and having each individual AE (PT). Summaries will also be presented for AEs by severity. Summaries for AE will be presented for study treatment and procedure related to AEs. If a patient reported more than one AE with the same PT, the AE with the greatest severity will be presented. System organ classes will be presented in alphabetical order, PTs will be sorted within SOC in descending frequency of AEs. If a patients reported more than one AE within the same primary SOC, the patient will be counted only once with the greatest severity at the SOC level, where applicable. The AE will be presented in separate sections of ocular and non-ocular. For ocular then it will be presented by any eye, study eye and fellow eye.

For occurrence, the presence of at least one SAE / SAE suspected to be related to study treatment / non SAE has to be checked in a block e.g., among AEs in a  $\leq 1$  day gap block, if at least one SAE is occurring, then one occurrence is calculated for that SAE.

The number of deaths resulting from SAEs suspected to be related to study treatment and SAEs irrespective of study treatment relationship will be provided by SOC and PT.

In addition, all treatment emergent AEs will also be listed.

The by-patients listing will include: SOC/PT/Verbatim term, start date, end date, severity, relationship to study treatment and procedures, whether or not it is a SAE, action taken with study treatment and outcome. Duration will be calculated as (end date – start date + 1) and for ongoing AE (last visit date – start date + 1) by ocular and non-ocular. For ocular then it will be presented by any eye, study eye and fellow eye.

A summary of action taken with number and percentage of patients will presented with dose increased, no dose change, dose reduced, treatment interrupted, drug withdrawn, not applicable and unknown.

### 2.9.1.1 Adverse events of special interest / grouping of AEs

The number (%) of patients with AESIs will be summarized by standardized MedDRA query and PT. Listing will also be provided.

Case Retrieval Sheet (CRS) with the exact composition of the AE groupings is to be used to map reported AEs to the AESI groupings. This file may be updated (i.e. live document) based on review of accumulating trial data, and therefore the groupings are also subject to potential change. The most up-to-date version of the CRS will be used at the time of the analysis.

The number and percentage of patients having any AESI, AESI by SOC (confirmed by SRC) and PT will be presented.

The number and percentage of patients for AESI type along with incidence rate per patient and per 1000 injection will be provided. Incidence rate per patient is defined as number of patients in AESI type/total number of patients in safety analysis set and incidence rate per 1000 injection is defined as (number of occurrence of AESI type/total number of injections)\*1000.

The number and type of AESI will be plotted according to the time after last brolocizumab injection and time since first brolocizumab injection.

Summary statistics for change from baseline in BCVA after end date of AESI will be provided for each AESI type and change from baseline in BCVA will be plotted overall and for each type of AESI.

Patients demographics, baseline characteristics and medical history will be provided for AESI patient with safety set.

## **2.9.2 Deaths**

A separate summary of deaths including on-treatment and post-treatment deaths will be provided.

All deaths in the clinical database will be listed with the investigator-reported principal cause. Deaths occurring after the first dose of study treatment until 30 days after the date of last treatment will be summarized. In addition, deaths occurring after the first dose of study treatment until the date of last treatment will also be summarized.

## **2.9.3 Laboratory data**

Not applicable

## **2.9.4 Other safety data**

Not applicable

### **2.9.4.1 ECG and cardiac imaging data**

Not applicable

### **2.9.4.2 Vital signs**

Vital signs will include blood pressure and pulse rate measurements.

All vital signs data will be listed by patient, and visit, and if ranges are available, abnormalities will be flagged. Abnormal values are marked in [Section 5.3](#). All data, including data from unscheduled visits, will be considered when identifying abnormal values. Analysis of vital sign measurements using summary statistics for the change from Baseline for each post-Baseline

visit will be performed. These descriptive summaries will be presented for each vital sign. Change from Baseline will only be summarized for patients with both Baseline and post-Baseline values.

## **2.10 Pharmacokinetic endpoints**

Not applicable

## **2.11 PD and PK/PD analyses**

Not applicable

## **2.12 Biomarkers**

Not applicable.

## **2.13 Other exploratory analyses**

Not applicable.

## **2.14 Interim analysis**

The analysis based on the Week 12 data, i.e. data up to and including Week 12 will be the primary (first) analysis for this study.

A second planned analysis of the data after the EOS/Week 48 visit will be performed once all patients have completed or prematurely discontinued the study.

## **3 Sample size calculation**

The primary objective of the study is to evaluate the effect of brolucizumab on CNV lesion area as measured by OCT-A in nAMD patients starting treatment with brolucizumab. This will be evaluated by the percentage change in CNV lesion area measured by OCT-A from Baseline to Week 12. The sample size calculation is based on the hypothesis of a standard deviation of 35% for this reduction proportion ([Miere et al 2018](#)).

A sample size of 180 to 400 patients produces a 2-sided 95% CI with a distance from the mean to the limits ranges from 5.1 to 3.4 when the estimated standard deviation is 35.0 (nQuery Advisor version 7.0). Therefore, to have a precision of 5%, a sample size of 189 patients will be needed ([Table 3-1](#)).

To take into account a dropout rate and uninterpretable images of 10%, a total of 210 patients will be included.

**Table 3-1 Confidence intervals for one mean numeric results for 2-sided confidence intervals with unknown standard deviation**

| Confidence Level | Sample Size (N) | Distance from Mean to Limits | Standard Deviation (S) |
|------------------|-----------------|------------------------------|------------------------|
| 0.950            | 180             | 5.1                          | 35.0                   |
| 0.950            | 189             | 5.0                          | 35.0                   |

|       |     |     |      |
|-------|-----|-----|------|
| 0.950 | 233 | 4.5 | 35.0 |
| 0.950 | 250 | 4.4 | 35.0 |
| 0.950 | 300 | 4.0 | 35.0 |
| 0.950 | 350 | 3.7 | 35.0 |
| 0.950 | 385 | 3.5 | 35.0 |
| 0.950 | 400 | 3.4 | 35.0 |

## 4 Change to protocol specified analyses



## 5 Appendix

### 5.1 Imputation rules

#### 5.1.1 Study treatment

The following rules should be used for the imputation of the dose end date for a given study treatment component:

##### Scenario 1

If the date of last IVT is completely missing and there is no end of treatment (EOT) page and no death date, the patient is considered as on-going.

The patient should be treated as on-going and the cut-off date should be used as the last dosing date.

##### Scenario 2

If the dose end date is completely or partially missing and the EOT page is available:

- Case 1: The dose end date is completely missing and the EOT completion date is complete, then this latter date should be used.
- Case 2: Only year (YYYY) of the dose end date is available and YYYY < the year of EOT date, then use 31DECYYYY.
- Case 3: Only year (YYYY) of the dose end date is available and YYYY = the year of EOT date, then use EOT date.
- Case 4: Both year (YYYY) and month (MMM) are available for dose end date and YYYY = the year of EOT date and MMM < the month of EOT date, then use last day of the Month (MMM)

All other cases should be considered as a data issue and the statistician should contact the data manager of the study.

After imputation, compare the imputed date with start date of treatment.

If the imputed date is < start date of treatment, then use the treatment start date.

Otherwise, use the imputed date

Patients with missing start dates are to be considered missing for all study treatment component related calculations and no imputation will be made. If start date is missing then end-date should not be imputed.

### 5.1.2 AE date imputation

AE date imputation is based only on a comparison of the partial AE start date to the treatment start date as mentioned in the below.

- If the AE start date year value is missing, the date uncertainty is too high to impute a rational date. Therefore, if the AE year value is missing, the imputed AE start date is set to NULL.
- If the AE start date year value is less than the treatment start date year value, the AE started before treatment. Therefore:
  1. If the AE year is less than the treatment year and the AE month is missing, the imputed AE start date is set to the mid-year point (01JulYYYY).
  2. Else if the AE year is less than the treatment year and the AE month is not missing, the imputed AE start date is set to the mid-month point (15MONYYYY).
- If the AE start date year value is greater than the treatment start date year value, the AE started after treatment. Therefore:
  1. If the AE year is greater than the treatment year and the AE month is missing, the imputed AE start date is set to the year start point (01JanYYYY).
  2. Else if the AE year is greater than the treatment year and the AE month is not missing, the imputed AE start date is set to the month start point (01MONYYYY).
- If the AE start date year value is equal to the treatment start date year value:
  1. And the AE month is missing or the AE month is equal to the treatment start month, the imputed AE start date is set to one day after treatment start.
  2. Else if the AE month is less than the treatment start month, the imputed AE start date is set to the mid-month point (15MONYYYY).
  3. Else if the AE month is greater than the treatment start month, the imputed AE start date is set to the start month point (01MONYYYY).

|              | MON                    |                        |                        |                        |
|--------------|------------------------|------------------------|------------------------|------------------------|
|              | MISSING                | MON < CFM              | MON = CFM              | MON > CFM              |
| YYYY MISSING | NULL                   | NULL                   | NULL                   | NULL                   |
|              | Uncertain              | Uncertain              | Uncertain              | Uncertain              |
| YYYY < CFY   | (D) = 01JULYYYY        | (C)= 15MONYYYY         | (C)= 15MONYYYY         | (C)= 15MONYYYY         |
|              | Before Treatment Start | Before Treatment Start | Before Treatment Start | Before Treatment Start |
| YYYY = CFY   | (B)= TRTSTD+1          | (C)= 15MONYYYY         | (A)= TRTSTD+1          | (A)= 01MONYYYY         |
|              | Uncertain              | Before Treatment Start | Uncertain              | After Treatment Start  |

|                        |                       |  |                       |                       |
|------------------------|-----------------------|--|-----------------------|-----------------------|
| YYYY > CFY             | (E)= 01JANYYYY        | (A)= 01MONYYYY   | (A)= 01MONYYYY        | (A)= 01MONYYYY        |
|                        | After Treatment Start | After Treatment Start  | After Treatment Start | After Treatment Start |
| Before Treatment Start |                       | Partial indicates date prior to Treatment Start Date                   |                       |                       |
| After Treatment Start  |                       | Partial indicates date after Treatment Start Date                      |                       |                       |
| Uncertain              |                       | Partial insufficient to determine relationship to Treatment Start Date |                       |                       |
| LEGEND:                |                       |  |                       |                       |
| (A)                    |                       | MAX (01MONYYYY,TRTSTD+1)   |                       |                       |
| (B)                    |                       | TRTSTD+1   |                       |                       |
| (C)                    |                       | 15MONYYYY  |                       |                       |
| (D)                    |                       | 01JULYYYY  |                       |                       |
| (E)                    |                       | 01JANYYYY  |                       |                       |

### 5.1.3 Concomitant medication and medical history (nAMD) date imputation

This algorithm is used when event is the partial start date of the concomitant medication and medical history (nAMD).

The following table explains the notation used in the logic matrix. Please note that missing start dates will not be imputed.

|                               | Day      | Month | Year |
|-------------------------------|----------|-------|------|
| Partial CM Start Date         | Not used | MON   | YYYY |
| Treatment Start <b>TRTSDT</b> | Not used | TRTM  | TRTY |

The following matrix explains the logic behind the imputation.

|                       | MON MISSING                          | MON < TRTM                           | MON = TRTM                           | MON > TRTM                           |
|-----------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| <b>YYYY MISSING</b>   | <b>(C2)</b><br>Uncertain             | <b>(C1)</b><br>Uncertain             | <b>(C1)</b><br>Uncertain             | <b>(C1)</b><br>Uncertain             |
| <b>YYYY &lt; TRTY</b> | <b>(D)</b><br>Before Treatment Start | <b>(A)</b><br>Before Treatment Start | <b>(A)</b><br>Before Treatment Start | <b>(A)</b><br>Before Treatment Start |
| <b>YYYY = TRTY</b>    | <b>(C2)</b><br>Uncertain             | <b>(A)</b><br>Before Treatment Start | <b>(C1)</b><br>Uncertain             | <b>(B)</b><br>After Treatment Start  |
| <b>YYYY &gt; TRTY</b> | <b>(E)</b><br>After Treatment Start  | <b>(B)</b><br>After Treatment Start  | <b>(B)</b><br>After Treatment Start  | <b>(B)</b><br>After Treatment Start  |

The following table is the legend to the logic matrix.

| Relationship           |  |
|------------------------|--|
| Before Treatment Start | Partial date indicates CMD start date prior to Treatment Start Date  |
| After Treatment Start  | Partial date indicates CMD start date after Treatment Start Date   |
| Uncertain              | Partial date insufficient to determine relationship of CMD start date relative to Treatment Start Date                 |
| Imputation Calculation |  |
| (A)                    | 15MONYYYY  |
| (B)                    | 01MONYYYY  |
| (C1 or C2)             | IF relative reference start = before treatment start THEN TRTSDT-1<br>ELSE IF relative reference start = TRTSDT+1 THEN |
| (D)                    | 01JULYYYY  |
| (E)                    | 01JANYYYY  |

### Concomitant Medication End Date Imputation

If not ongoing then -

Imputed date = date part of CMENDTC, if complete date

Imputed date = min(completion/discontinuation visit date, DEC 31) , if month is missing, (C2, D, E)

Imputed date = min(completion/discontinuation visit date, last day of the Month) , if day is missing. (A, B, C1)

### Concomitant Medication Date Flag

If not a complete date then

Y - If year of the imputed date is not equal to YYYY else M – If month of the imputed date is not equal to MON else D.

## 5.2 AEs coding/grading

The verbatim term recorded on CRF will be identified as adverse event and will be coded by primary SOC and PT using Medical Dictionary for Regulatory Activities (MedDRA) version 22.1 and above.



### 5.3 Vital signs parameters derivations

The criteria for clinically notable abnormalities are defined as follows:

#### Clinically notable elevated values

- Systolic blood pressure of  $\geq 140$  mmHg (hypertension)
- Diastolic blood pressure of  $\geq 90$  mmHg (hypertension)
- Pulse rate  $\geq 100$  bpm (tachycardia).

#### Clinically notable below normal values

- Systolic blood pressure of  $< 90$  mmHg (hypotension)
- Diastolic blood pressure of  $< 60$  mmHg (hypotension)
- Pulse rate  $< 60$  bpm (bradycardia)

### 5.4 Statistical methodology

The below SAS code will be used for statistical value.

#### Frequency and proportion:

```
proc freq data = <.....>;  
    tables response_variable/ chisq;  
run;
```

#### Summary Statistics:

Univariate procedure will be used for continuous response.

```
proc univariate data=<.....>;  
    var response_variable;  
    output out=<.....> n=_n mean=_mean std=_sd min=_min median=_med  
    max=_max;  
run;
```

#### 95% CI

```
proc means data=adxe N NMISS CLM ;  
    var aval;  
run;
```

#### Time to event analysis

```
proc lifetest data=comb1 alpha=0.05 conftype=loglog method=KM alphaqt=0.05  
outsurv=survest;  
    time AVALW*cnsr(0);  
run;
```

#### t-test

```
proc ttest data = pccnv_w12;  
    class population_group;  
    var pchg  
run;
```

#### Wilcoxon rank-sum test

```
proc nparway wilcoxon data= rnksm (label='CNV lesion area at week 12');  
    class estimand;  
    var area;
```

run;

## AESI reported by investigator

```

if AEDECOD in ("Anterior chamber cell", "Anterior chamber inflammation",
"Vitritis", "Iritis", "Cyclitis", "Choroiditis", "Chorioretinitis", "Anterior
chamber fibrin", "Uveitis", "Noninfective chorioretinitis", "Ophthalmia
neonatorum", "Aqueous fibrin", "Uveitis-glaucoma-hyphaema syndrome", "Retinitis",
"Tubulointerstitial nephritis and uveitis syndrome", "Toxic anterior segment
syndrome", "Infective uveitis", "Vitreous haze", "Keratic precipitates", "Vitreous
abscess", "Anterior chamber flare", "Cogan's syndrome", "Noninfective retinitis",
"Oculomucocutaneous syndrome", "Eye infection intraocular", "Iridocyclitis", "Viral
uveitis", "Viral keratouveitis", "Hypopyon", "Cyclitic membrane", "Eye
inflammation", "Optic neuritis", "Ocular pemphigoid", "Oculorespiratory syndrome",
"Idiopathic orbital inflammation", "Papillitis") then
    do;
        AEBODSYS1="Intraocular inflammation";
        AESI="Y";
    end;
else if AEDECOD in ("Choroidal infarction", "Eyeinfarction", "Macular ischaemia",
"Ocular ischaemic syndrome", "Retinal artery embolism", "Retinal artery
occlusion", "Retinal artery stenosis", "Retinal artery thrombosis", "Retinal
infarction", "Retinal ischaemia", "Retinal vascular occlusion", "Retinal vascular
thrombosis", "Retinal vein occlusion", "Retinal vein thrombosis", "Necrotising
retinitis", "Ocular vasculitis", "Retinal vasculitis", "Retinal occlusive
vasculitis") then
    do;
        AEBODSYS1="Retinal Vasculitis and / or retinal vascular occlusion";
        AESI="Y";
    end;
end;

```

## 5.5 Rule of exclusion criteria of analysis sets

**Table 5-1 Protocol deviations that cause patients to be excluded**

| Deviation ID | Description of Deviation             | Exclusion in Analyses              | Severity code |
|--------------|--------------------------------------|------------------------------------|---------------|
| INCL01       | Signed informed consent not obtained | Excluded from FAS and PPS analysis | 1             |
| INCL02       | Age less than 50 year                | Included in everything             | 0             |
| INCL03       | No active CNV lesions                | Excluded from FAS and PPS          | 1             |
| INCL04       | No Intra- and/or subretinal fluid    | Excluded from FAS and PPS          | 1             |
| INCL05       | Study eye BCVA out of range          | Excluded from PPS                  | 2             |
| EXCL01       | Active infection in either eye       | Excluded from PPS                  | 2             |
| EXCL02       | Fellow eye ocular disease            | Included in everything             | 0             |
| EXCL03       | Poor quality images                  | Included in everything             | 0             |
| EXCL03a      | History of IOI                       | Included in everything             | 0             |
| EXCL05       | Study eye lesion area $\geq 50\%$    | Included in everything             | 0             |

| Deviation ID | Description of Deviation                                       | Exclusion in Analyses  | Severity code |
|--------------|--|------------------------|---------------|
| EXCL05a      | Study eye atropathy or fibrosis                                | Included in everything | 0             |
| EXCL07       | Study eye concomitant condition                                | Included in everything | 0             |
| EXCL08       | Study eye macula damage  | Included in everything | 0             |
| EXCL09       | Study eye vitreous hemorrhage                                  | Included in everything | 0             |
| EXCL10       | Study eye uncontrolled glaucoma                                | Included in everything | 0             |
| EXCL11       | Study eye aphakaia   | Included in everything | 0             |
| EXCL12       | Other treatment in study eye                                   | Excluded from PPS      | 2             |
| EXCL13       | Steroids in study eye  | Included in everything | 0             |
| EXCL14       | Prior keratoplasty/vitrectomy                                  | Included in everything | 0             |
| EXCL15       | Study eye previous ocular treatment                            | Included in everything | 0             |
| EXCL16       | End stage renal disease requiring dialysis or renal transplant | Included in everything | 0             |
| EXCL17       | Systematic drug toxic to eye                                   | Included in everything | 0             |
| EXCL18       | Participation in another study                                 | Excluded from PPS      | 2             |
| EXCL19       | Systematic anti-VEGF therapy                                   | Included in everything | 0             |
| EXCL20a      | Stroke or myocardial infraction                                | Included in everything | 0             |
| EXCL21       | Uncontrolled blood pressure                                    | Included in everything | 0             |
| EXCL22       | Malignancy   | Included in everything | 0             |
| EXCL22a      | Medical condition impact                                       | Included in everything | 0             |
| EXCL24       | Hypersensitivity   | Included in everything | 0             |
| EXCL25       | Pregnant or nursing woman                                      | Included in everything | 0             |
| EXCL26       | Women of childbearing potential                                | Included in everything | 0             |
| EXCL27       | Minor or protected adult                                       | Excluded from PPS      | 2             |
| COMD01       | Prohibited medication/procedures                               | Included in everything | 0             |
| COMD02       | Steroids use 5 days prior to IP                                | Included in everything | 0             |
| TRT01        | Wrong IP administered  | Excluded from PPS      | 2             |
| TRT02        | Incorrect dose administered                                    | Excluded from PPS      | 2             |
| TRT03        | Pregnancy but not discontinued                                 | Included in everything | 0             |
| TRT04        | Short treatment window between treatment                       | Included in everything | 0             |
| TRT05        | Treatment > 3 days after injection visit                       | Included in everything | 0             |
| TRT06        | Injection given at Week 12                                     | Excluded from PPS      | 2             |
| TRT07        | Q8W IVT out of window  | Included in everything | 0             |
| TRT08        | Q12W IVT out of window   | Included in everything | 0             |
| TRT09        | COVID-19 Drug supply change                                    | Included in everything | 0             |

| Deviation ID | Description of Deviation                      | Exclusion in Analyses     | Severity code |
|--------------|---|---------------------------|---------------|
| TRT10        | COVID-19 Treatment not given                  | Included in everything    | 0             |
| TRT11        | Missed Injection loading phase                | Excluded from PPS         | 1             |
| TRT12        | Missed Injection                              | Included in everything    | 0             |
| TRT13        | No Disease activity but injection is given    | Included in everything    | 0             |
| TRT14        | Treatment admin prior effic/safety evaluation | Included in everything    | 0             |
| TRT15        | Treatment given at EOS                        | Included in everything    | 0             |
| WITH01       | Withdrew consent not discontinued             | Excluded from FAS and PPS | 1             |
| OTHER01      | Patient rescreened > once                     | Included in everything    | 0             |
| OTHER02      | Severe ICH-GCP non-compliance                 | Excluded from FAS and PPS | 1             |
| OTHER03      | New ICF is missing-rescreened                 | Excluded from FAS and PPS | 1             |
| OTHER04      | Mishandling IP                                | Included in everything    | 0             |
| OTHER05      | Temperature excursion IP administered         | Included in everything    | 0             |
| OTHER06      | Treatment regimen wrongly adjusted            | Included in everything    | 0             |
| OTHER07      | Missed mandatory visit                        | Excluded from PPS         | 2             |
| OTHER08      | Missed injection visit                        | Included in everything    | 0             |
| OTHER09      | FA out of window                              | Included in everything    | 0             |
| OTHER10      | Rescreen due to BCVA results                  | Included in everything    | 0             |
| OTHER11      | Rescreen >14days w/o screening procedure      | Included in everything    | 0             |
|              |   |                           |               |
| OTHER13      | COVID-19 Missed visit                         | Included in everything    | 0             |
| OTHER14      | COVID-19 Visit not at site                    | Included in everything    | 0             |
| OTHER15      | COVID-19 Assessment changed                   | Included in everything    | 0             |
| OTHER16      | COVID-19 Discontinuation                      | Included in everything    | 0             |
| OTHER17      | Efficacy assessment not done                  | Excluded from PPS         | 2             |
| OTHER18      | Safety assessment not done                    | Included in everything    | 0             |
| OTHER19      | BCVA not done correctly                       | Included in everything    | 0             |
| OTHER20      | Visit window > 7 days                         | Included in everything    | 0             |
| OTHER21      | Vital signs/safety call not done              | Included in everything    | 0             |
| OTHER22      | Imaging analyzed after WoC                    | Included in everything    | 0             |

**Table 5-2 Patient Classification**

| <b>Analysis Set</b> | <b>Severity codes that cause a subject to be excluded</b> |
|---------------------|---|
| ENR                 | NA  |
| FAS                 | 1   |
| FAS-EST             | 1   |
| PPS                 | 1,2 (All specified PD in Table 5.1 due to COVID)          |
| PPS-EST             | 1, 2 (All specified PD in Table 5.1 due to COVID-19)      |
| SAF                 | NA  |

## **6 Reference**

Miere A, Oubraham H, Amoroso F, et al (2018) Optical Coherence Tomography Angiography to Distinguish Changes of Choroidal Neovascularization after Anti-VEGF Therapy: Monthly Loading Dose versus Pro Re Nata Regimen. J Ophthalmol. Epublised at [doi: 10.1155/2018/3751702].