

Statistical Analysis Plan

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1 Abbreviations

| Abbreviation | Explanation |
|---------------------|---|
| ADE | Adverse device effect |
| AE | Adverse event |
| ASADE | Anticipated serious adverse device effect |
| ATC | Anatomical Therapeutic Chemical [classification system] |
| BV | Bacterial vaginosis |
| CI | Confidence interval |
| CIP | Clinical Investigation Plan QRS-CL1-003, Version 3.0 |
| CRF | Case report form |
| DDP | Data display plan |
| FAS | Full analysis set |
| GDL | Glucono-delta-lactone |
| ICH | International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use |
| ISO | International Organization for Standardization |
| MedDRA | Medical Dictionary for Regulatory Activities |
| NaG | Sodium gluconate |
| PP | Per-protocol analysis set |
| SADE | Serious adverse device effect |
| SAE | Serious adverse event |
| SAP | Statistical analysis plan |
| USADE | Unanticipated serious adverse device effect |
| VVC | Vulvovaginal Candidiasis |
| WHO | World Health Organisation |

2 Introduction

The Statistical Analysis Plan (SAP) is a complementary document to the Clinical Investigation Plan and includes a more technical and detailed elaboration of the principal features of the proposed statistical analysis and presentations, and the way in which anticipated analysis problems will be handled.

The Investigational product, Gedeo Pessary (commercial name *pHyph*), a slow-release formulation administering 300 mg GDL and 367.5 mg NaG over 45 hours, is generally denoted “treatment” in the SAP.

3 Study objectives

3.1 Primary objective

To investigate the clinical performance, tolerability, and safety of the investigational product.

3.1.1 Primary endpoints

- Clinical cure rate on Day 7.
 - Defined as the absence of signs and symptoms of VVC in terms of having a composite vulvovaginal signs-and-symptoms (CVVS) score equal to or below 3.
 - Each of the following 6 vulvovaginal signs and symptoms will be individually scored using the scoring scale below and then added together to determine the CVVS score.
 - Vulvovaginal signs: erythema, edema, or excoriation
 - Vulvovaginal symptoms: itching, burning, or irritation
 - Scoring Scale: each score should be objectively defined.
 - 0 = none (absent)
 - 1 = mild (slight)
 - 2 = moderate (definitely present)
 - 3 = severe (marked, intense)
- Safety and tolerability, based on reported treatment-emergent AEs.

3.2 Secondary objectives

To further investigate the clinical performance of the investigational product.

3.2.1 Secondary endpoints

All patients

- Proportion of patients having a reduction in CVVS score on Day 7 compared to Day 0.
- Change in the CVVS score from Day 0 to Day 7.
- Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) on Day 4 and Day 7, compared to Day 0.
- Change in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) from Day 0 to Day 4 and Day 7.
- Proportion of patients receiving prolonged treatment.
- Usability, measured by patient questionnaire.

For patients not receiving prolonged treatment

- Recurrence rate on Day 14 and Day 35, defined as the proportion of patients clinically cured on Day 7 and thereafter responding “yes” to a yes/no question from the patient questionnaire on whether the symptoms have recurred.

For patients receiving prolonged treatment

- Clinical cure rate on Day 14, defined as the absence of signs and symptoms of VVC in terms of having a CVVS score equal to or below 3.
- Proportion of patients having a reduction in CVVS score on Day 14 compared to Day 0.
- Change in the CVVS score from Day 0 to Day 14.
- Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) on Day 11, Day 14, Day 21, and Day 42, compared to Day 0.
- Change in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) from Day 0 to Day 11, Day 14, Day 21, and Day 42.
- Recurrence rate on Day 21, and Day 42, defined as the proportion of patients clinically cured on Day 14 and thereafter responding “yes” to a yes/no question from the patient questionnaire on whether the symptoms have recurred.
- Proportion of patients receiving prescription for fluconazole on Day 14.

3.2.2 Exploratory endpoints

All patients

- Effect on vaginal microbiome on Day 0 and Day 7.
- Vaginal pH on Day 7.

For patients not receiving prolonged treatment

- Effect on vaginal microbiome on Day 35.

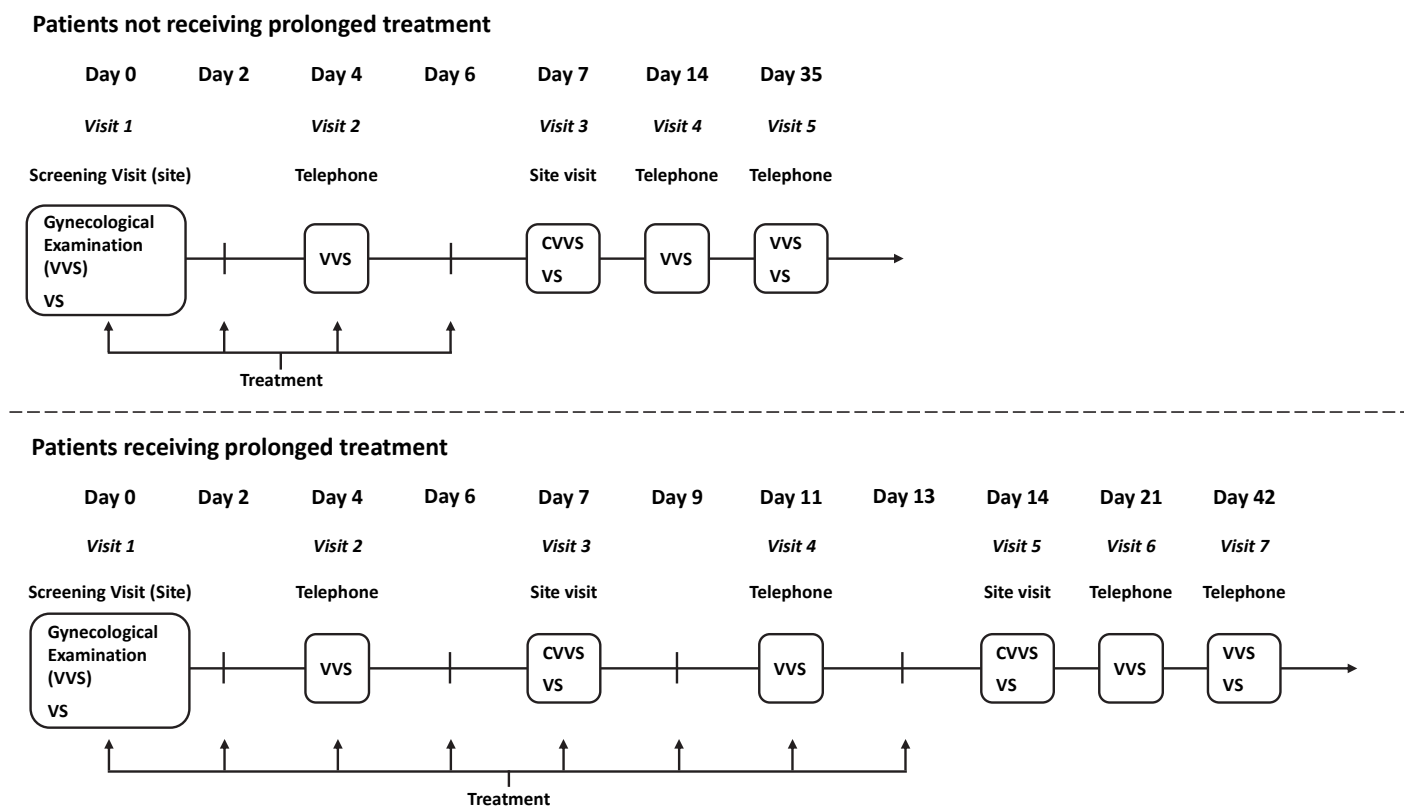
For patients receiving prolonged treatment

- Effect on vaginal microbiome on Day 14 and Day 42.

4 Study design

This is an open-label, single-armed, multi-center study to evaluate clinical performance, tolerability, and safety of Gedeo Pessary in 24 adult women with VVC. Patients seeking treatment can be screened for study participation. Included patients will have gynecological examination, including collection of CVVS data, vaginal samples taken, and will receive the investigational product to be self-administered at Day(s) 0, 2, 4, and 6. Patients will again be examined after 7 days and CVVS data will be collected. Prolonged treatment at Day(s) 7, 9, 11, and 13 will be given to patients not cured at Day 7; including re-examination at Day 14. Patients will be followed up by telephone up to 29 days after last treatment administration. Vaginal samples will be used for confirming diagnosis and microbiome analyzes. Patient questionnaires will be used for assessing VVC symptoms, usability, and AEs.

Figure 1 Study Flow Chart



VVS = Vulvovaginal Symptoms, VS = Vaginal Swab, CVVS = Composite Vulvovaginal Signs and Symptoms

Patients not receiving prolonged treatment applies to patients cured at Day 7. If not cured, the flow chart *patients receiving prolonged treatment* applies. Patients will here receive fluconazole if not cured at Day 14. Adverse events will be assessed throughout the study

5 Study population

This study will include patients with vulvovaginal candidiasis (VVC). Twenty-four (24) patients are planned to be treated under this CIP.

Post-menarchal, pre-menopausal females aged 18 years or older seeking treatment for symptoms of VVC at study sites' gynecological clinics may be informed about the study and asked about their willingness to participate.

5.1 Sample size

Assuming the true cure rate is equal to 70 %, 22 patients are needed to obtain 90 % chance (90 % power) to show that the one-sided 95 % CI for the observed cure rate is above 40 %. To compensate for a small number of non-evaluable patients, 24 patients will be included.

6 Assessments

6.1 Clinical Performance Assessments

Assessments described below in [Section 6.1.1](#), gynecological examination, will be used to collect the following 6 vulvovaginal signs and symptoms:

- Vulvovaginal signs of: erythema, edema, and excoriation; and
- Vulvovaginal symptoms of itching, burning, and irritation.

The intensity of each of the signs and symptoms will be scored as:

- 0 = none (absent),
- 1 = mild (slight),
- 2 = moderate (definitely present), or
- 3 = severe (marked, intense).

The scores will be added together and the sum defined as the CVVS score.

A CVVS score equal to or below 3 on Day 7 will be defined as clinical cure, and is a co-primary study endpoint together with safety and tolerability evaluation.

The CVVS score will also be used for the following secondary endpoints:

- Proportion of patients having a reduction in CVVS score on Day 7 compared to Day 0.
- Change in the CVVS score from Day 0 to Day 7.
- Recurrence rate at Day 14 and Day 35, defined as the proportion of patients clinically cured at Day 7 and thereafter responding "yes" to a yes/no question from the patient questionnaire on whether the symptoms have recurred.
- Proportion of patients receiving prolonged treatment.
- Clinical cure rate on Day 14, defined as the absence of signs and symptoms of VVC in terms of having a CVVS score equal to or below 3.
- Proportion of patients having a reduction in CVVS score on Day 14 compared to Day 0.

- Change in the CVVS score from Day 0 to Day 14.
- Recurrence rate at Day 21, and Day 42, defined as the proportion of patients clinically cured at Day 14 and thereafter responding “yes” to a yes/no question from the patient questionnaire on whether the symptoms have recurred.
- Proportion of patients receiving prescription for fluconazole at Day 14.

Assessments described in [Section 6.1.2](#), patient questionnaire, will be used to assess the following secondary endpoints:

- Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) on Day 4 and Day 7, compared to Day 0.
- Change in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) from Day 0 to Day 4 and Day 7.
- Usability, measured by patient questionnaire.
- Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) on Day 11, Day 14, Day 21, and Day 42, compared to Day 0.
- Change in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) from Day 0 to Day 11, Day 14, Day 21, and Day 42.

6.1.1 Gynecological Examination

Patients will have gynecological examinations by the Investigator or authorized designee on Day(s) 0 and 7; or Day(s) 0, 7, and 14 if receiving prolonged treatment, in order to assess vulvovaginal signs of erythema, edema, and excoriation. During the examinations, patients will also be asked about any vulvovaginal symptoms of itching, burning, and irritation.

NOTE: The Investigator will always assess *vulvovaginal signs* of erythema, edema, and excoriation. Vulvovaginal *symptoms* of itching, burning, and irritation will always be assessed by patients themselves and asked about by the Investigator at site visits.

6.1.2 Patient Questionnaire

The questionnaire can be found in Appendix 1 in the CIP.

The Clinical Trial Unit will call the patients on Day(s) 4, 14 and 35; or Day(s) 4, 11, 21, and 42 if receiving prolonged treatment; and ask questions from the patient questionnaire relating to vulvovaginal symptoms (itching, burning, or irritation), usability, concomitant medications, and AEs, if any.

Questions from *Section 1* in the patient questionnaire relating to vulvovaginal symptoms of itching, burning, and irritation will be asked to patients over telephone on Day(s) 4, 14, and 35; or Day(s) 4, 11, 21, and 42 if receiving prolonged treatment. A recurrence question will be asked to patients at Days(s) 14 and 35 if not receiving prolonged treatment and at Days(s) 21 and 42 if receiving prolonged treatment.

Questions from *Section 2* in the patient questionnaire relating to usability will be asked to patients on Day 7, and Day 14 if receiving prolonged treatment.

Questions from *Section 3* and *Section 4* in the patient questionnaire relating to concomitant medications and AEs, respectively, will be asked to patients at each visit/telephone contact.

6.2 Safety and tolerability assessments

The below will constitute the local tolerability and safety assessments:

- Adverse events and Serious adverse events (SAEs), and
- Rate of withdrawals from the study and/or the study treatment.

7 Method of analysis

7.1 General

All statistical analyses will be performed in accordance with the ICH E9 guideline for Statistical Principles for Clinical Trials (1), using SAS® (Version 9.4 or higher, SAS Institute Inc., Cary, NC, USA).

7.1.1 Presentation of results

If applicable, results will be presented together with the unit.

Continuous data will be summarised using descriptive statistics, and the following parameters will be reported:

- number of patients with evaluable observations and missing observations
- arithmetic mean and standard deviation
- median
- first and third quartiles
- minimum and maximum.

Categorical data will be presented using absolute frequency and percentage. When the absolute frequency is zero, the percentage will not be presented. Unless stated otherwise, the denominator for percentage calculations will be the total number of patients in the applicable analysis set, including patients with missing data. For variables with missing values, the number and percentage of patients with missing values will be presented.

Statistical testing will be performed using an overall significance level of 5%. The primary endpoint analysis will be based on one-sided testing, whereas the secondary endpoints analyses will be based on two-sided testing. Corresponding confidence intervals will be presented. See [Section 7.9](#) below for further information.

Data will be presented using an appropriate number of decimal places, to ensure that undue precision is not implied (*e.g.* the number of decimals should not exceed the accuracy of the measuring instrument). Raw data will be presented with the same number of decimals as collected, and derived data with an appropriate number of decimals based on general practice, mathematical rationale or scientific rationale.

Minimum and maximum values will be presented with the same number of decimals as the analysed variable and the other descriptive statistics will be presented with one decimal more. Percentages and proportions will be presented with one decimal. Confidence interval bounds will be presented with the same number of decimals as the corresponding point estimate, and p-values will be presented with 4 decimals or as '<.0001'.

Mock tables and graphs are presented in the Data Display Plan (DDP), which is a supplementary document to this analysis plan. Individual patient data listings will be presented according to the ICH E3 guideline for Structure and Content of Clinical Study Reports (2), unless stated otherwise.

7.1.2 Baseline

Unless stated otherwise, the baseline value for a parameter is defined as the last non-missing value before the first self-administration of the study treatment by the patient. The first self-administration is to be performed on the same day as the first study visit (Day 0), after the study visit.

7.1.3 Analysis relative day

The analysis relative day for an assessment/value is defined as the time in days from the date of first administration of treatment to the date of the assessment. The date of first administration of treatment is considered as day 0.

7.1.4 Analysis visit

An analysis visit is defined as a categorical variable used to classify values within an analysis variable into temporal or conceptual groups used for analyses.

The visits as defined in the case report form, CRF, will be used as analysis visits.

In general, data from unscheduled visits will be presented in data listings only and not included in analysis or summary tables. An exception to this is data used to confirm eligibility in association with screening or randomisation where the last assessment will be considered in summaries of screening data.

7.1.5 Handling of missing data

The statistical analysis will be based on the observed data, i.e. no imputation is planned. In case of one or more missing value(s) among the 6 items included in the calculation of the CVVS score, the CVVS score will remain missing. In case of one or more missing symptom value(s) in the 3 vulvovaginal symptom items (itching, burning, and irritation), the sum of the 3 vulvovaginal symptoms scores will be set to missing. See also [Sections 8.6 and 8.7](#) below.

7.1.6 Interim analyses

Not applicable.

7.1.7 Multiplicity

Although there are two co-primary endpoints, no adjustment of e.g. p-values or confidence intervals will be applied. This is for two reasons, the first being that the evaluation of the second co-primary endpoint (safety and tolerability) will only be based on descriptive statistics and data listings, and the second is that both co-primary endpoints have to show favorable results.

For all other statistical analyses of the secondary endpoints, no adjustment due to multiple testing will be performed. It should be noted that the probability of making a type I error increases with the number of statistical tests performed.

7.1.8 Subgroups

Descriptive results of the primary clinical performance endpoint will be presented by study center, and by whether the patients at Day 0 reported 3 or more Vaginal Candida infections during the last 12 months or not.

7.2 Analysis sets

The decision on the classification of patients to each analysis set will be taken at the clean file meeting and documented in the clean file report together with the reasons for excluding patients from analysis sets.

7.2.1 Full analysis set

Full Analysis Set (FAS): This is the primary population and comprises all patients entering the study and having received at least 1 dose of study treatment. Analyses of clinical performance will be performed against this population.

In addition to this, two sub-populations based on this FAS will be formed: “FAS (For patients not receiving prolonged treatment)”, and “FAS (For patients receiving prolonged treatment)”.

7.2.2 Per-protocol analysis sets

Per Protocol (PP) Population 1 (PPAS Clinical Cure) - This will include all FAS patients without any major protocol deviation, i.e. patients who have completed the study and sufficiently complied with the study protocol, have available primary endpoint data and have received the study treatment according to protocol. The final definition of a major protocol deviation will be decided and defined at the clean file meeting and documented in the clean file report. If a relevant number of patients are excluded from the PP population, then the analysis of the primary clinical performance endpoint will be provided for the PP population. The main purpose with this analysis set is to analyse the primary endpoint, i.e. Clinical Cure.

Per Protocol (PP) Population 2 (PPAS Recurrence) - In addition to what was specified in the CIP, a second Per-protocol analysis set will be defined with the main purpose of analysing recurrence. The rationale for this is that the different recurrence rate analyses are regarded as important to also perform using a “per protocol” approach. The main purpose with this per protocol dataset is thus to analyse Recurrence. This population will constitute a sub-population from PP population 1 defined

above, and will be defined in similarity with this population, but instead based on the secondary recurrence rate endpoints. The final definition of a major protocol deviation with respect to these secondary endpoints, will be decided and defined at the clean file meeting and documented in the clean file report.

7.2.3 Safety analysis set

The safety analysis set will be based on the same definition as used for FAS. All safety analyses will therefore be performed against the FAS. All patients included in the FAS will be accounted for, including those who did not complete the study along with the reasons for withdrawal.

7.3 Disposition of patients

The following will be presented:

- Number of screened patients, in total.
- Number of screening failures, in total.
- Number of enrolled patients.

Based on the number of enrolled patients, the following will also be presented:

- Number and percentage of patients who did not receive any dose of study treatment.
- Number and percentage of patients who received at least one dose of study treatment.
- Number and percentage of patients who completed the study.
- Number and percentage of patients who withdrew prematurely from the study.
- Number and percentage of patients in each of the analysis sets.

In addition, a frequency table on the primary reason for premature withdrawal from the study will be presented. Percentages for this table will be based on the number of prematurely withdrawn patients.

The number of patients attending each study visit will also be summarised.

7.4 Protocol deviations

Protocol deviations will be presented in a data listing.

The number and percentage of enrolled patients with at least one major protocol deviation leading to exclusion from an analysis set will be presented.

7.5 Demographics and baseline characteristics

Summary statistics and frequencies on demographic data (age) and baseline characteristics (pregnancy test, and diagnosis information) will be presented for all analysis sets.

7.6 Medical history and concurrent diseases

Medical history and concurrent diseases will be coded according to the Medical Dictionary for Regulatory Activities (MedDRA, version 22.0).

For each system organ class and preferred term, the number and percentage of patients with at least one condition in that system organ class or preferred term will be presented. Medical history and concurrent diseases will be presented in separate tables, based on the full analysis set.

Medical history is defined as events stopped prior to baseline. Concurrent diseases are defined as ongoing events and events stopped on or after baseline. If the start and/or stop date is partially unknown, the following imputation rules will be used for the purpose of classifying the events:

| | <i>Imputed start date</i> | <i>Imputed end date</i> |
|---------------|---------------------------|-------------------------|
| Unknown year | Missing | Missing |
| Unknown month | 1 January | 31 December |
| Unknown day | First of month | Last of month |

If it is not possible to classify the condition based on the reported and/or imputed start and end dates, it will be considered as concurrent. In data listings, the dates will be presented as reported.

7.7 Prior and concomitant medication

Medications will be coded according to the World Health Organisation (WHO) Drug Dictionary, ATC/DD Index 2018, and summarised by therapeutic subgroup (ATC level 2) and preferred name.

For each therapeutic subgroup and preferred name, the number and percentage of patients who used at least one medication of that therapeutic subgroup or preferred name will be presented. Prior and concomitant medications will be summarised in separate tables, based on the full analysis set.

If a reported medication cannot be coded with a preferred name, the lowest available higher-level dictionary term will be used instead in the summary tables. If a medication cannot be coded on a lower level than the therapeutic subgroup or the anatomical main group (ATC level 1), that medication will be presented as 'Not codable' under that therapeutic subgroup/anatomical main group.

Prior medication is defined as medication stopped prior to baseline. Concomitant medication is defined as ongoing medication or medication stopped on or after baseline. If the start and/or stop date is partially unknown, the following imputation rules will be used for the purpose of classifying the medication:

| | <i>Imputed start date</i> | <i>Imputed end date</i> |
|---------------|---------------------------|-------------------------|
| Unknown year | Missing | Missing |
| Unknown month | 1 January | 31 December |
| Unknown day | First of month | Last of month |

If it is not possible to classify a medication based on the reported and/or imputed start and end dates, it will be considered as concomitant. In data listings, the dates will be presented as reported.

Any use of rescue medication (fluconazole) will be identified as any concomitant medication used with "Indication (reason for medication)" equal to "Rescue medication" as recorded in the CRF.

7.8 Compliance

Patients will be asked about investigational product administration by telephone on Day 4 and at the site on Day 7, and also on Day(s) 11 (telephone) and 14 (site) if receiving prolonged treatment. No other measurements of treatment compliance will be made. These compliance data will be summarised for the full analysis set. The rate of compliance is defined as the actual amount of study treatment taken divided by the expected amount of study treatment to be taken. The expected amount is based on the planned duration of treatment (*i.e.* for prematurely withdrawn patients, the expected amount is computed as if the patient had not withdrawn). The expected amount is 4 doses for patients without prolonged treatment and 8 doses for patients with prolonged treatment.

7.9 Primary and secondary endpoints analyses

All analyses of clinical performance endpoints will be performed on the full analysis set, and these analyses will be considered as the main analyses. If a relevant number of patients are excluded from the PP population, the per-protocol analysis set will be used for supportive clinical performance sensitivity analysis of the primary clinical performance endpoint.

If the stated assumptions that the statistical evaluation is built upon can be questioned, suitable alternative methods may be applied. For example, a 95% confidence interval based on a non-parametric method may be applied if assumption of data belonging to the normal distribution seems not to hold.

All study endpoints (primary, secondary, and exploratory), as well as the related variables specified in the list below in [Section 7.9.2](#), will be presented descriptively.

7.9.1 Primary endpoints

- Clinical performance endpoint: Clinical cure rate on Day 7 will be calculated and presented together with a one-sided 95 % confidence interval based on the exact binomial distribution (Clopper-Pearson).
- Clinical safety endpoint: Safety and tolerability will be assessed according to [Section 7.10.2](#).

The primary clinical performance endpoint is the Clinical cure rate on Day 7, where clinical cure is defined as the absence of signs and symptoms of VVC in terms of having a composite vulvovaginal signs-and-symptoms (CVVS) score equal to or below 3, see [Section 3.1.1](#) above. The primary performance objective of the trial is to show that the Clinical cure rate is above 40 %, *i.e.* to show that the lower limit of the one-sided 95 % CI for the observed cure rate is above 40 %.

Hypotheses for the primary clinical performance endpoint

Null hypothesis: Clinical cure rate is less than or equal to 40 %.

Alternative hypothesis (one-sided): Clinical cure rate is above 40 %.

The primary clinical safety endpoint, *i.e.* safety and tolerability based on reported treatment-emergent AEs, will be analysed descriptively only, see [Section 7.10.2](#) below, and will thus not be connected to any formal hypothesis testing.

7.9.2 Secondary endpoints

The secondary clinical performance endpoints are either binary or continuous.

The usability data, as measured by the patient questionnaire and which contain both binary and continuous endpoints, will only be presented descriptively.

The other binary secondary clinical performance endpoints will be calculated and presented together with a two-sided 95 % confidence interval based on the exact binomial distribution (Clopper-Pearson). No hypothesis testing will be made on the binary endpoints.

The remaining clinical performance endpoints that are considered as continuous endpoints are the change in the CVVS score and the change in the sum of 3 vulvovaginal symptoms scores (itching, burning, and irritation). Here, applying Student's t distribution, a two-sided 95% confidence intervals for the arithmetic mean will be presented. For illustration purposes, the statistical hypotheses for the former endpoint are specified below:

Hypothesis for the continuous secondary clinical performance endpoint "Change in the CVVS score"

Null hypothesis: Change from baseline is = 0.

Alternative hypothesis (two-sided): Change from baseline \neq 0.

Below follows a list of all secondary endpoints followed by information on which are binary and which are continuous. Note that, as described in [Section 3.2.1](#) above, the analyses of the secondary endpoints will be performed on 3 different patient categories. These are denoted as A, B, and C below.

A. All patients

- i] Proportion of patients having a reduction in CVVS score on Day 7 compared to Day 0
- ii] Change in the CVVS score from Day 0 to Day 7
- iii] Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) on Day 4 and Day 7, compared to Day 0
- iv] Change in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) from Day 0 to Day 4 and Day 7
- v] Proportion of patients receiving prolonged treatment
- vi] Usability, measured by patient questionnaire

The endpoints i], iii], v], and the first 4 questions in endpoint vi] are binary variables.

The endpoints ii], iv], and the 5th question in vi] are considered as continuous variables.

B. For patients not receiving prolonged treatment

- vii] Recurrence rate on Day 14 and Day 35, defined as the proportion of patients clinically cured on Day 7 and thereafter responding "yes" to a yes/no question from the patient questionnaire on whether the symptoms have recurred

The endpoint vii] constitute binary variables.

C. For patients receiving prolonged treatment

- viii] Clinical cure rate on Day 14, defined as the absence of signs and symptoms of VVC in terms of having a CVVS score equal to or below 3

- ix] Proportion of patients having a reduction in CVVS score on Day 14 compared to Day 0
- x] Change in the CVVS score from Day 0 to Day 14
- xi] Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) on Day 11, Day 14, Day 21, and Day 42, compared to Day 0
- xii] Change in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) from Day 0 to Day 11, Day 14, Day 21, and Day 42
- xiii] Recurrence rate on Day 21, and Day 42, defined as the proportion of patients clinically cured on Day 14 and thereafter responding “yes” to a yes/no question from the patient questionnaire on whether the symptoms have recurred
- xiv] Proportion of patients receiving prescription for fluconazole on Day 14

The endpoints viii], ix], xi], xiii], and xiv] are binary variables.

The endpoints x] and xii] are considered as continuous variables.

In connection to the endpoints described above, the underlying variables listed below not constituting endpoints (denoted as “other related variables” in the CIP), will be presented descriptively.

- CVVS score (can take integer values in the interval 0-18)
- Vulvovaginal signs: erythema (can take integer values in the interval 0-3)
- Vulvovaginal signs: edema (can take integer values in the interval 0-3)
- Vulvovaginal signs: excoriation (can take integer values in the interval 0-3)
- Sum of all vulvovaginal signs score (can take integer values in the interval 0-9)
- Vulvovaginal symptoms: itching (can take integer values in the interval 0-3)
- Vulvovaginal symptoms: burning (can take integer values in the interval 0-3)
- Vulvovaginal symptoms: irritation (can take integer values in the interval 0-3)
- Sum of all vulvovaginal symptoms score (can take integer values in the interval 0-9)

7.9.3 Exploratory endpoints

All patients

- xv] Effect on vaginal microbiome on Day 0 and Day 7
- xvi] Vaginal pH on Day 7

For patients not receiving prolonged treatment

- xvii] Effect on vaginal microbiome on Day 35

For patients receiving prolonged treatment

- xviii] Effect on vaginal microbiome on Day 14 and Day 42

The endpoints related to vaginal microbiome (endpoints xv], xvii] and xviii]) will be presented after study completion.

Vaginal pH, i.e. endpoint xvi] is considered as a continuous variable and will be presented descriptively.

7.9.4 Sensitivity analyses of the primary clinical performance endpoint

In addition to what is stated in the CIP, a sensitivity analysis is added in the analysis of the primary clinical performance endpoint. In this, patients responding “Negative” to the eCRF variable “Vaginal swab culture result”, [see Section 7.10.3](#) below, will be excluded.

7.10 Safety evaluation

All evaluations of safety data will be performed on the full analysis set.

7.10.1 Extent of exposure

See [Section 7.8](#) above. Furthermore, as a measure of investigational product *in vivo* duration, patients' vaginal pH will be assessed on Day(s) 0 and 7. Vaginal pH lower at follow-up visits compared to Day 0 indicate appropriate release duration. Summary statistics on the vaginal pH will be presented.

7.10.2 Adverse Events

Adverse events will be coded according to MedDRA.

Only treatment-emergent adverse events, i.e. adverse events starting after administration of first dose of study treatment, will be presented as described below. Any adverse events reported to start before administration of first dose of study treatment will be listed separately. In the reminder of this section, the term "adverse event" should be interpreted as "treatment-emergent adverse event".

An overview of all adverse events will be presented, including the number and percentage of patients with at least one, and the total number, of the following:

- Adverse events.
- Serious adverse events.
- Adverse events leading to withdrawal of the investigational product.
- Fatal adverse events.
- Adverse events, broken down by severity (intensity).
- Adverse events, broken down by causality assessment (relationship).

The International Organization for Standardization (ISO) terms ADE, SADE, ASADE, USADE introduced in the CIP constitute adverse events where relationship to investigational device or study procedure is indicated. The classification of an untoward medical event as USADE or ASADE will be done retrospectively. The event will initially be captured as a serious adverse event.

The incidence of adverse events will be presented by system organ class and preferred term. For each system organ class and preferred term, the total number of adverse events as well as the number and percentage of patients with at least one adverse event in that system organ class or preferred term will be presented. The incidence of serious adverse events will be presented in the same way.

Separate tables for the incidence of adverse events broken down by severity and the incidence of adverse events broken down by causality assessment will also be presented by system organ class and preferred term.

There will also be tables on the most frequently reported adverse events, on system organ class level and on preferred term level. The decision on the frequency cut-off for these tables will be taken during the analysis of the adverse events data in consultation with the author of the clinical study report

and could be influenced by factors such as the overall number of adverse events, study design, and the nature of the indication. The frequency cut-off should be mentioned in a table note.

Device deficiencies, as captured by the Device Event CRF module, will be presented in data listings only. If any device event is considered as also constituting an adverse event, it should be reported also as an adverse event.

7.10.3 Laboratory

Microbiology assessments

- Fungal KOH / saline microscopic assessment performed? (Yes/No)
- Presence of hyphae? (Present/Absent)
- VVC diagnosis (Present/Absent)
- Vaginal swab taken for culture? (Yes/No)
- Vaginal swab culture result (Positive/Negative)
 - If positive, species found should be indicated (4 categories + other)
- Vaginal swab taken for sequencing? (Yes/No) If No, specify reason (text)

Gynecological examination:

- Gynecological examination performed? (Yes/No)
- Vaginal pH (see [Section 7.10.1](#) above)

The categorical microbiology laboratory parameters, as specified above, will be summarized in frequency tables by visit.

7.10.4 Physical examination

Not applicable.

7.10.5 Vital signs

Not applicable.

7.10.6 Electrocardiogram

Not applicable.

7.11 Changes to planned analysis

In addition to what is stated in the CIP, a sensitivity analysis is added in the analysis of the primary clinical performance endpoint. In this, patients responding "Negative" to the eCRF variable "Vaginal swab culture result", see Section 7.10.3 below, will be excluded.

In the CIP, one Per-protocol analysis set was defined. In addition to this a second Per-protocol analysis set will be defined with the purpose of analysing recurrence, see [Section 7.2.2](#) above. The rationale for this is that the different recurrence rate analyses are regarded as important to also perform using a

“per protocol” approach. The main purpose with this per protocol dataset is thus to analyse Recurrence.

A clarification regarding the secondary endpoint

- Proportion of patients receiving prolonged treatment

is made. This endpoint is obviously intended to be based on “All patients”. However, in the CIP, this endpoint was unintentionally listed under the heading “For patients receiving prolonged treatment”. In this document it has therefore been listed in the correct heading “All patients”.

A subgroup analysis, based on whether the patients at Day 0 reported 3 or more Vaginal Candida infections during the last 12 months or not, has been added for the primary clinical performance endpoint, see [Section 7.1.8](#) above.

8 Derived variables

8.1 Disposition of patients

A screening failure is defined as a screened but not enrolled patient. An enrolled patient is defined as having passed the screening procedures and given informed consent. An enrolled patient who has received at least 1 dose of study treatment is qualified to be included in FAS.

8.2 Demographics and baseline characteristics

8.2.1 Age

Age will be computed as the integer part of the time in years between the date of birth and the date the written informed consent was signed, using the SAS function `yrdif()` with the basis parameter set to ‘age’. For patients for whom only the year of birth is collected, age will be computed as the difference between the year the informed consent was signed and the year of birth.

8.3 Body mass index

Not applicable.

8.4 Change from baseline

Change from baseline will be computed as the difference between a post-baseline value and the corresponding baseline value. This is applicable for the change in the CVVS score and the change in the sum of 3 vulvovaginal symptoms scores (itching, burning, and irritation), as well as for vaginal pH from Day 0 to Day 7.

8.5 Clinical cure rate

Clinical cure rate is based on a binary variable, where a clinically cured patient is

- Defined as the absence of signs and symptoms of VVC in terms of having a composite vulvovaginal signs-and-symptoms (CVVS) score equal to or below 3.
 - Each of the following 6 vulvovaginal signs and symptoms will be individually scored using the scoring scale below and then added together to determine the CVVS score.
 - Vulvovaginal signs: erythema, edema, or excoriation
 - Vulvovaginal symptoms: itching, burning, or irritation
 - Scoring Scale: each score should be objectively defined.
 - 0 = none (absent)
 - 1 = mild (slight)
 - 2 = moderate (definitely present)
 - 3 = severe (marked, intense)

8.6 Proportion of patients having a reduction in the CVVS score

The proportion of patients having a reduction in CVVS score compared to Day 0 is based on a change from baseline variable, see [Section 8.4](#) above, where a patient with reduction is defined as when the change from baseline in the CVVS score is < 0 . In case of one or more missing value(s) among the 6 items included in the calculation of the CVVS score, the CVVS score will remain missing.

8.7 Proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores

The proportion of patients having a reduction in the sum of the 3 vulvovaginal symptoms scores (itching, burning, and irritation) compared to Day 0 is based on a change from baseline variable, see [Section 8.4](#) above, where a patient with reduction is defined as when the change from baseline in the sum of the 3 vulvovaginal symptoms scores is < 0 . In case of one or more missing symptom value(s) in the 3 vulvovaginal symptom items (itching, burning, and irritation), the sum of the 3 vulvovaginal symptoms scores will be set to missing.

8.8 Recurrence rate

Recurrence rate is based on a binary variable, where a recurred patient is defined as a patient clinically cured on Day 7 and thereafter responding “yes” at specified follow-up visits to a yes/no question from the patient questionnaire on whether the symptoms have recurred.

8.9 Proportion of patients receiving prolonged treatment

The proportion of patients receiving prolonged treatment is based on a binary variable which indicate whether a patient has received prolonged treatment or not, i.e. received study treatment on at least one of the days 7, 9, 11, or 13.

8.10 Proportion of patients receiving rescue treatment on Day 14

The proportion of patients receiving rescue treatment (fluconazole, as defined in the CIP) on Day 14 is based on a binary variable which indicate whether a patient has used rescue treatment or not, i.e. as shown by collected CRF concomitant medication data, where start date of the rescue medication should be from or after Day 14. Start and stop date of use of such rescue medication will be presented in data listings.

8.11 Compliance/Exposure

See [Section 7.8](#) above.

9 References

1. ICH Harmonised Tripartite Guideline for Statistical Principles for Clinical Trials E9. February 1998.
2. ICH Harmonised Tripartite Guideline for Structure and Content of Clinical Trial Reports E3. November 1995.

10 Signoff

We have read this SAP for the QRS-CL1-003 study and confirm that, to the best of our knowledge, the statistical analyses to be performed in this study are accurately described.

Gedea Biotech AB: NAME

SIGNATURE AND DATE

Link Medical Research AB: NAME

SIGNATURE AND DATE

Link Medical Research AB: NAME

SIGNATURE AND DATE