

## STATISTICAL ANALYSIS PLAN

### A DOSE-FINDING STUDY FOR LEVODOPA, CARBIDOPA AND ODM-104 TEST FORMULATIONS AFTER REPEATED ADMINISTRATION IN HEALTHY MALES

|                 |
|-----------------|
| <b>3112005</b>  |
| <b>COMDOS 1</b> |

Phase I study

Standard: GCP

The statistical analysis plan is approved and valid from the date of the last e-signature on the last page

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## 1 Abbreviations

|                  |  |
|------------------|--|
| AE               | Adverse event                              |
| AUC              | Area under the concentration-time curve    |
| BMI              | Body mass index                            |
| BP               | Blood pressure                             |
| C <sub>max</sub> | Peak concentration in plasma               |
| C <sub>min</sub> | Minimum observed concentration             |
| CV               | Coefficient of variation                   |
| ECG              | Electrocardiogram                          |
| HR               | Heart rate                                 |
| IR               | Immediate release                          |
| ITT              | Intention-to-treat                         |
| MR               | Modified release                           |
| PD               | Parkinson's disease                        |
| PG               | Pharmacogenomic(s)                         |
| PK               | Pharmacokinetic(s)                         |
| PP               | Per-protocol                               |
| SAE              | Serious adverse event                      |
| t <sub>½</sub>   | Terminal elimination half-life             |
| t <sub>max</sub> | Time to reach peak concentration in plasma |

## 2 General remarks

The purpose of this document is to describe the statistical methodology for this clinical study, including also plans of populations to be used and the plans how the results will be presented.

## 3 Overall study design and plan

This is a phase I, open, repeated dose, randomised PK study in healthy males. The study will be conducted at one centre.

The study will consist of 4 parallel groups (Groups 1-4). All groups will have a crossover design with 4 treatment periods, each lasting for 7 days. The total duration of the study will be approximately 10-15 weeks for each study subject.

## 4 Study objectives

### 4.1 Primary objective

The primary objective is to compare PK of levodopa after repeated administration as follows (Groups 1-4):

Group 1:

- A1=50 mg of MR levodopa + 12.5 mg of carbidopa
- B1=50 mg of MR levodopa + 65 mg of carbidopa
- C1=50 mg of MR levodopa + 65 mg of carbidopa + 50 mg of ODM-104
- D1=50 mg of MR levodopa + 65 mg of carbidopa + 100 mg of ODM-104

Group 2:

- A2=100 mg of MR levodopa + 25 mg of carbidopa
- B2=100 mg of MR levodopa + 65 mg of carbidopa
- C2=100 mg of MR levodopa + 65 mg of carbidopa + 50 mg of ODM-104
- D2=100 mg of MR levodopa + 65 mg of carbidopa + 100 mg of ODM-104

Group 3:

- A3=150 mg of MR levodopa + 37.5 mg of carbidopa
- B3=150 mg of MR levodopa + 65 mg of carbidopa
- C3=150 mg of MR levodopa + 65 mg of carbidopa + 50 mg of ODM-104
- D3=150 mg of MR levodopa + 65 mg of carbidopa + 100 mg of ODM-104

Group 4:

- A4=100 mg of IR levodopa + 25 mg of carbidopa (Sinemet®)
- B4=100 mg of MR levodopa + 65 mg of carbidopa
- C4=100 mg of MR levodopa + 25 mg of carbidopa + 100 mg of ODM-104
- D4=100 mg of MR levodopa + 65 mg of carbidopa + 100 mg of ODM-104

The primary objective is to compare PK of 3 different strengths of levodopa after repeated administration in combination with carbidopa and ODM-104.

ODM-104 and carbidopa dose effects will be studied with the 3 MR levodopa strengths and compared with the standard levodopa formulation. Primary comparisons for each of the 4 treatment groups will be performed for levodopa PK between the treatments. The resulting PK data will be used to select the optimal combination of levodopa, carbidopa and ODM-104 for subsequent clinical studies.

### 4.2 Secondary objectives

The secondary objectives are to determine the PK properties of 3-OMD, carbidopa and ODM-104 in plasma after repeated administration of the different combinations.

## 5 Statistical hypotheses

The primary variable for the evaluation of PK of levodopa is  $AUC_{0-24}$  to describe the total levodopa exposure. Primary comparison will be made within levodopa dose level groups, between crossover treatment arms levodopa / 12.5, 25 or 37.5 mg of carbidopa and levodopa / 65 mg of carbidopa / 100 mg of ODM-104. I.e. comparisons A1 vs. D1, A2 vs. D2, A3 vs. D3, and A4 vs. D4 will be the primary ones.

Other crossover comparisons will be performed and considered as secondary. Parallel group comparisons may be performed. The conclusions on possible differences between treatments will be based on both overall evaluation of levodopa concentration-time profiles and formal statistical analyses of PK parameters.

$H_0: AUC_{0-24, \text{levodopa/carbidopa / ODM-104}} = AUC_{0-24, \text{levodopa/carbidopa}}$

$H_1: AUC_{0-24, \text{levodopa/carbidopa / ODM-104}} \neq AUC_{0-24, \text{levodopa/carbidopa}}$

## 6 Determination of sample size

The sample size estimation is based on earlier ODM-104 phase I study 3112003. Sample size is estimated using the  $AUC_{0-24}$ . Sample size estimation is based on the results from 12 subjects that completed treatment periods with levodopa 100 mg / carbidopa 25 mg / entacapone 200 mg and MR levodopa 100 mg / carbidopa 65 mg / ODM-104 100 mg. The latter treatment arm with ODM-104 and 65 mg of carbidopa increased exposure by 22% ( $AUC_{0-24}$  14022.2 vs. 17092.6). Within subject variability is estimated to be 0.1386 ( $\sqrt{MSE}$  in logarithmic scale). It is assumed that MR levodopa 100 mg / carbidopa 65 mg / ODM-104 100 mg will increase exposure by 40% compared to MR levodopa 100 mg / carbidopa 25 mg.

When the sample size in each sequence is 3 (with a total sample size of 12), a crossover design will have 80% power to detect a difference in means of 0.336 assuming that the within subject variation is 0.139 using a crossover ANOVA with a 0.1 two-sided significance level. To allow drop outs 14 subjects per group and 56 subjects in total will be randomized into this study with 4-treatment, 4-period William's crossover design. This will provide adequate power for the primary comparison. In case there are premature discontinuations the sponsor will decide case-by-case whether replacement subjects will be entered into the study. Replacement subjects will be randomized to go through all 4 treatment periods. Discontinued study subjects are not allowed to re-enter the study.

## 7 General statistical considerations

### 7.1 Analysis populations

The datasets derived from individual study subjects will be classified into following three classes prior to database lock and before carrying out any statistical analyses:

- Modified intention-to-treat (mITT) population: all randomized subjects who have received at least one dose of study treatment. The difference between ITT and mITT is that subjects in mITT will be included to have the treatment actually administered. In ITT, subjects are included in the treatment they were intended to be administered.

- Per-protocol (PP) population: Subjects who have completed the study according to the protocol without major protocol violations.
- Dosing intervals, where subject experience emesis during the treatment period at Day 7 and following dosing intervals during the period, will be removed from analysis using PP population.
- Periods with PK parameters covering entire Day 7 (e.g.  $AUC_{\infty}$ ) will be excluded from the PP population analysis entirely, in case of emesis.
- If the emesis is experienced at time point 14 hours or thereafter during the last dosing interval, the dosing interval and period will be included into the PP population
- Safety population is the same as the modified ITT population.

The role of each population is described in Table 1.

Table 1. Populations that will be used in tabulations and statistical analyses.

| Primary efficacy variable | Secondary efficacy variables | Demographics<br>Additional variables | Safety variables  |
|---------------------------|------------------------------|--------------------------------------|-------------------|
| PP                        | PP                           | mITT                                 | Safety population |
| mITT                      | mITT                         |                                      |                   |

## 7.2 Statistical issues

### 7.2.1 Significance level and confidence intervals

90% confidence intervals and p-values will be produced between different treatments. A two-sided significance level of 10% will be considered the level of statistical significance. Confidence intervals and p-values will be presented up to four decimal places.

### 7.2.2 Handling of dropouts or missing data

In general, missing data or partial data will not be imputed, and statistical analyses will be performed for observed cases only. Possible missing data will be included in statistical calculations via mixed models theory, where missing data can be utilized by setting the subject as random effect in the statistical model. Possible sensitivity analyses may be carried out to evaluate the robustness of the statistical results, that is, particularly the impact of potential outliers.

### 7.2.3 Handling of baseline values

Screening visit will be used as a baseline for all post baseline variables. If multiple values of a variable are recorded at screening:

- For safety laboratory measurements the last of these values will be used as baseline.
- For ECG the average of these values will be calculated and used as baseline.

#### **7.2.4 Interim analyses and data monitoring**

Interim analyses are not planned.

#### **7.2.5 Multicentre studies**

This is a single centre study.

#### **7.2.6 Multiplicity**

For the primary comparisons, there is only one primary comparison in each group, thus multiplicity correction is not needed. For secondary comparisons, where several treatments are included, all pairwise comparisons will be adjusted according to Tukey method.

#### **7.2.7 Examination of subgroups**

No subgroup analyses are planned.

#### **7.2.8 Checking model assumptions**

Assumptions for parametric testing will be checked by visual inspection of residuals. If the residuals do not follow normal distribution closely enough, non-parametric comparison methods (e.g. Kruskal-Wallis test for PK variables) or use of transformation will be considered.

#### **7.2.9 Transformations**

PK parameters (at least AUC and C<sub>max</sub>) will be analysed after logarithm transformation.

#### **7.2.10 Handling of outliers and sensitivity analyses**

If outliers are detected based on residual examination, a sensitivity analysis without the outliers may be performed to evaluate potential impact to the results.

#### **7.2.11 Methods for handling multiple time points**

PK parameters C<sub>max</sub>, AUC, t<sub>max</sub> and t<sub>1/2</sub> will be calculated and used in statistical comparisons. When modelling PK parameters that are calculated by dosing intervals, treatment by dosing interval interaction will be included in the statistical models.

#### **7.2.12 Descriptive statistics**

The following statistics will be provided for continuous variables: N, mean, SD, min, median and max. In PK variables also geometric mean and coefficient of variation (CV%) will be calculated. Because log-normal distribution, the formula  $CV\% = 100 \times \sqrt{\exp(\sigma^2) - 1}$ , where  $\sigma^2$  is MSE of the statistical analysis of log transformed data, will be used. For categorical variables frequency counts and percentages will be presented. All mean, median, standard deviation, and if feasible quartile values will be presented to one more decimal place than the raw values. Minimum and maximum will be presented to the same precision as the raw values.



All percentages will be rounded to one decimal place, with the exception of 0 and 100, which will be presented as integers.

## 8 Statistical analyses to be used in this study

### 8.1 Disposition of subjects

The number of subjects will be tabulated for the following populations:

- Screened
- Randomised
- Modified ITT
- PP
- Safety
- Discontinued study
- Completed study

The disposition and number and reasons for withdrawal and discontinuations will be listed and, if needed, tabulated by treatment sequence. Reasons for excluding subjects or subject periods from pharmacokinetic analyses will be listed. Data from subjects who failed at screening will be included only in the disposition tabulations and data listings.

### 8.2 Demographic and other baseline characteristics

Demographic and other baseline characteristics will be tabulated by treatment sequence. Medications taken by the subjects before, during, and after the study will be classified by ATC Level 3 and drug name, and will be tabulated and/or listed as appropriate. WHO – DD will be used for coding prior and concomitant medications. No statistical tests will be performed.

### 8.3 Extent of exposure and measurements of treatment compliance

Each study subject will receive the study treatments under observation of the site personnel. The exposure will be verified by measurement of drug concentrations. Any deviation from the planned compliance and exposure will be listed. Drug administration and plasma concentration data will be listed and tabulated by treatment. The number of subjects exposed to study treatments and the number of doses administered will be tabulated by treatments.

### 8.4 Analysis of pharmacokinetic variables

Table 2 lists the PK parameters which will be derived from the concentration-time data of levodopa, carbidopa, 3-OMD and, ODM-104.

Table 2. PK parameters to be calculated for levodopa, carbidopa, 3-OMD and ODM-104.

| Parameter     | Levodopa       | Carbidopa      | 3-OMD          | ODM-104        |
|---------------|----------------|----------------|----------------|----------------|
| $C_{max}$     | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |
| $C_{max,tau}$ | X <sup>1</sup> |                |                | X              |

|  |                |                |                |                |
|--|----------------|----------------|----------------|----------------|
| $t_{\max}$                             | X              | X              | X              | X              |
| $t_{\max,\tau}$                        | X              |                |                | X              |
| $C_{\min,\tau}$                        | X <sup>1</sup> |                |                | X              |
| $C_{\min,\tau,\text{actual}}$          | X <sup>1</sup> |                |                |                |
| $AUC_{\tau}$                           | X <sup>1</sup> |                |                | X              |
| $AUC_{0-16}$                           | X <sup>1</sup> |                |                |                |
| $AUC_{0-24}$                           | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |
| $AUC_{\infty}$                         | X              |                |                | X              |
| $t_{1/2}$                              | X              |                |                | X              |
| $\lambda_z$                            | X              |                |                | X              |
| $C_{\max}/C_{\min,\tau}$               | X <sup>1</sup> |                |                |                |
| $C_{\max}/C_{\min,\tau,\text{actual}}$ | X <sup>1</sup> |                |                |                |
| $C_{\max}/C(16h)$                      | X <sup>1</sup> |                |                |                |
| $PTF_{\tau}$                           | X <sup>1</sup> |                |                |                |
| $PTF_{0-16h}$                          | X <sup>1</sup> |                |                |                |

<sup>1</sup> Statistical analysis will be performed

#### 8.4.1 Primary PK parameter

The primary PK variable for the evaluation of PK of levodopa is AUC0-24 to describe the total levodopa exposure. The primary PK variable will be summarised using descriptive statistics by treatment and analysed using a mixed linear model with 90% CI applicable for the crossover design. The statistical model will include treatment and period as fixed effects and subject as a random effect. Sensitivity analysis adjusted for subject weight and age will be performed.

The following SAS-code for the primary comparison will be applied:

```
proc mixed data=pkparam2 plots=all alpha=0.10;
  class subject trtpcd visit;
  model log_auc = trtpcd visit / ddfm=KR outp=Resid solution;
  random subject;
  lsmeans trtpcd / diff cl alpha=0.10;
  ods output tests3=testCross lsmeans=lsmeansCross
  diffs=diffscross;
  by group;
run;
```

The following SAS-code for the sensitivity analysis will be applied:

```
proc mixed data=pkparam2 plots=all alpha=0.10;
  class subject trtpcd visit;
  model log_auc = trtpcd visit weightkg age / ddfm=KR outp=Resid
solution;
random subject;
lsmeans trtpcd / diff cl alpha=0.10 adjust=tukey ADJDFE=ROW;
ods output tests3=testCross2 lsmeans=lsmeansCross2
diffs=diffscross2;
by group;
run;
```

#### 8.4.2 Secondary PK parameters

The secondary PK variable is  $C_{\min,\tau}$ , which is used to describe minimum concentration during the dosing intervals. Statistical evaluation for secondary PK variable will be done using similar methods as for primary variable, except the statistical model will include also the dosing interval as fixed effect.

The following SAS-code for the analysis will be applied:

```
proc mixed data=pkparam2 alpha=0.10;
  class subject trtpcd interval visit;
  model log_auc = trtpcd interval trtpcd*interval visit /
ddfm=KR outp=Resid solution;
random subject*visit;
lsmeans trtpcd trtpcd*interval / diff cl alpha=0.10
adjust=tukey ADJDFE=ROW;
ods output tests3=testCross lsmeans=lsmeansCross
diffs=diffscross;
by group;
run;
```

#### 8.4.3 Additional variables

The ratio of the maximum observed concentration ( $C_{\max}$ ) in a dosing interval and the observed concentration at the end of the dosing interval,  $C_{\max}/C_{\min,\tau}$ , which is used to describe levodopa fluctuation during the dosing intervals and other PK variables of levodopa, 3-OMD, carbidopa and ODM-104 will be evaluated as additional variables.

Levodopa fluctuation ratios ( $C_{\max}/C_{\min,\tau}$ ,  $C_{\max}/C_{(16\text{ h})}$ ,  $PTF_{\tau}$  and  $PTF_{(0-16)}$ , and  $AUC_{0-24}$ ,  $C_{\max}$  and  $C_{\min,\tau}$ ) will be the main PK variables of interest.

Drug concentrations will be tabulated by time and treatment with descriptive statistics.

### 8.5 Evaluation and analysis of safety and tolerability

Safety will be evaluated by recording heart rate, systolic and diastolic blood pressure, 12-lead electrocardiogram (ECG), physical examination findings, laboratory safety assessments and

adverse events (AEs). Suicidality will be assessed with the Columbia-Suicide Severity Rating Scale (C-SSRS).

#### **8.5.1 Adverse events**

Adverse events (AEs) reported after administration of the study treatment will be classified by System organ classes (SOC) and preferred terms using the MedDRA dictionary.

The number and proportion (%) of subjects having each AE will be given by treatment group. The numbers will be additionally broken down by severity (mild, moderate, severe) and by the causality (related, not related).

All serious adverse events (SAEs) and other significant AEs will be evaluated case by case. Additionally, narrative descriptions will be included in the study report for all SAEs and certain other significant AEs.

#### **8.5.2 Laboratory safety variables**

Laboratory values and changes from baseline (screening value) in laboratory values will be summarised using descriptive statistics. The number and proportion of subjects with laboratory values outside the normal range will be summarised by visit for each laboratory analyte. Unscheduled laboratory measurements will not be used in tables. They will be included in the listings.

#### **8.5.3 Vitals signs, physical findings, and other observations related to safety**

Vital signs (systolic and diastolic BP and HR) at each visit and change from baseline (screening value) in each vital sign will be summarised using descriptive statistics. 12-lead ECG parameters at each time point and change from baseline (screening value) will be summarised using descriptive statistics. Physical examination and C-SSRS findings will be tabulated.

### **8.6 Additional analyses**

#### **8.7 Changes in the statistical plans from those presented in the clinical study protocol**

#### **8.8 Execution of statistical analyses**

Statistical analyses will be performed by or under the supervision of the Department of Biostatistics and Support Functions of Orion Pharma.

#### **8.9 Software**

Statistical analyses, tables and subject data listings will be performed with SAS<sup>®</sup> for Windows version 9.4 (SAS Institute Inc., Cary, NC, USA).

## 9 Reference list

1. SAS, Institute Inc., Cary, NC, USA.

## 10 Appendices

### 10.1 List of tables, figures and graphs

#### 14 Post-text tables and figures

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|                   |  |
|-------------------|--|
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### 14.3 Safety data

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|------------------|---|
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|                  |   |
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|                  |  |
|------------------|--|
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## 10.2 List of subject data listings

### 16.2. SUBJECT DATA LISTINGS

*The section headings are given in italics, and other headings are actual listings for data.*

#### 16.2.1 Discontinued subjects and disposition

16.2.1.1 Study discontinuations

16.2.1.2 Disposition of subjects

16.2.1.3 Study dates

#### 16.2.2 Protocol deviations

16.2.2.1 Protocol deviations

#### 16.2.3 Subjects and observations excluded from efficacy analyses/statistical analyses of pharmacokinetic parameters

16.2.3.1 Reasons for excluding observations from efficacy analyses/PK parameters

#### 16.2.4 Demographic data

16.2.4.1 Demographic and other baseline characteristics

16.2.4.2 Medical history and current medical conditions

16.2.4.3 Concomitant treatments

#### 16.2.5 Compliance data and/or drug concentration data

16.2.5.1 Concentration data of ODM-104

16.2.5.2 Concentration data of levodopa carbidopa and 3-OMD

#### 16.2.6 Pharmacokinetic data

16.2.6.1 Study treatment administration and blood sampling times

16.2.6.2 Pharmacokinetic parameters of ODM-104

16.2.6.3 Pharmacokinetic parameters of levodopa

16.2.6.4 Pharmacokinetic parameters of carbidopa

16.2.6.5 Pharmacokinetic parameters of 3-OMD

*16.2.7 Adverse events*

16.2.7.1 Adverse events before start of study treatment

16.2.7.2 Adverse events after start of study treatment

*16.2.8 Laboratory measurements*

16.2.8.1 Laboratory measurements

*16.2.9 Vital signs, physical findings and other observations related to safety*

16.2.9.1 Vital signs

16.2.9.2 Physical examination

16.2.9.3 12-lead ECG

16.2.9.4 Suicidality assessments using C-SSRS

16.2.10.1 Water intake and meals

Note! In case no observation fulfils the listing criteria's, e.g. no discontinuations, an empty list is produced.

### 10.3 Table templates

Examples of tables.

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Table 14.1.1 Disposition of subjects  
Modified Intention to treat population

|                            | Group 1   | Group 2   | Group 3   | Group 4   | Total     |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
|                            | (N=XX)    | (N=XX)    | (N=XX)    | (N=XX)    | (N=XX)    |
|                            | n (%)     | n (%)     | n (%)     | n (%)     | n (%)     |
| Screened                   |           |           |           |           | 82        |
| Randomised                 | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) |
| Intent-to-treat population | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) |
| Per-protocol population    | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) |
| Safety population          | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) | XX ( XXX) |
| Completed study            | XX (XX.X) | XX (XX.X) | XX (XX.X) | XX (XX.X) | XX (XX.X) |
| Discontinued study         | X (XX.X)  | X ( X.X)  | X (XX.X)  | X ( X.X)  | X (XX.X)  |

Program: T\_14\_1\_1\_Disposition of subjects.sas

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Table 14.1.3 Demographic and other baseline characteristics  
Modified Intention to treat population

|             |           | Group 1<br>(N=XX) | Group 2<br>(N=XX) | Group 3<br>(N=XX) | Group 4<br>(N=XX) | Total<br>(N=XX) |
|-------------|-----------|-------------------|-------------------|-------------------|-------------------|-----------------|
|             |           | n (%)             | n (%)             | n (%)             | n (%)             | n (%)           |
| Gender      | MALE      | XX ( XXX)         | XX ( XXX)         | XX ( XXX)         | XX ( XXX)         | XX ( XXX)       |
| Race        | CAUCASIAN | XX ( XXX)         | XX (XX.X)         | XX ( XXX)         | XX (XX.X)         | XX (XX.X)       |
|             | ASIAN     | X ( X.X)          | X ( X.X)          | X ( X.X)          | X ( X.X)          | X ( X.X)        |
| Age (years) | N         | XX                | XX                | XX                | XX                | XX              |
|             | Mean      | XX.X              | XX.X              | XX.X              | XX.X              | XX.X            |
|             | SD        | XX.X              | XX.X              | XX.X              | XX.X              | XX.X            |
|             | Min       | XX                | XX                | XX                | XX                | XX              |
|             | Median    | XX.X              | XX.X              | XX.X              | XX.X              | XX.X            |
| Weight (kg) | Max       | XX                | XX                | XX                | XX                | XX              |
|             | N         | XX                | XX                | XX                | XX                | XX              |
|             | Mean      | XX.X              | XX.X              | XX.X              | XX.X              | XX.X            |
|             | SD        | X.X               | X.X               | XX.X              | XX.X              | X.X             |
|             | Min       | XX                | XX                | XX                | XX                | XX              |
| Height (cm) | Median    | XX.X              | XX.X              | XX.X              | XX.X              | XX.X            |
|             | Max       | XX                | XX                | XXX               | XX                | XXX             |
|             | N         | XX                | XX                | XX                | XX                | XX              |
|             | Mean      | XXX.X             | XXX.X             | XXX.X             | XXX.X             | XXX.X           |
|             | SD        | X.X               | X.X               | X.X               | X.X               | X.X             |
| Height (cm) | Min       | XXX               | XXX               | XXX               | XXX               | XXX             |
|             | Median    | XXX.X             | XXX.X             | XXX.X             | XXX.X             | XXX.X           |
|             | Max       | XXX               | XXX               | XXX               | XXX               | XXX             |

Program: T\_14\_1\_3\_Demographics and other baseline characteristics.sas

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Table 14.2.1.2.1 AUCtau (h\*ng/mL) of levodopa  
Per protocol population

|              |        | A1<br>(N=XX) | B1<br>(N=XX) | C1<br>(N=XX) | D1<br>(N=XX) |
|--------------|--------|--------------|--------------|--------------|--------------|
| AUC 0-3.5h   | N      | XX           | XX           | XX           | XX           |
|              | Gmean  | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Mean   | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | SD     | XXX.XX       | XXX.XX       | XXX.XX       | XXX.XX       |
|              | CV%    | XX.XX        | XX.XX        | XX.XX        | XX.XX        |
|              | Min    | XXXX.X       | XXXX.X       | XXXX.X       | XXX.X        |
|              | Median | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Max    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
| AUC 3.5-7h   | N      | XX           | XX           | XX           | XX           |
|              | Gmean  | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Mean   | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | SD     | XXXX.XX      | XXX.XX       | XXX.XX       | XXX.XX       |
|              | CV%    | XX.XX        | XX.XX        | XX.XX        | XX.XX        |
|              | Min    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
|              | Median | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Max    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
| AUC 7-10.5h  | N      | XX           | XX           | XX           | XX           |
|              | Gmean  | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Mean   | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | SD     | XXXX.XX      | XXX.XX       | XXX.XX       | XXX.XX       |
|              | CV%    | XX.XX        | XX.XX        | XX.XX        | XX.XX        |
|              | Min    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
|              | Median | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Max    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
| AUC 10.5-14h | N      | XX           | XX           | XX           | XX           |
|              | Gmean  | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Mean   | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | SD     | XXX.XX       | XXX.XX       | XXX.XX       | XXX.XX       |
|              | CV%    | XX.XX        | XX.XX        | XX.XX        | XX.XX        |
|              | Min    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
|              | Median | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|              | Max    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |

Program: T\_14\_2\_1\_2\_1\_Levodopa AUC\_tau.sas

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Table 14.2.1.3.1 AUC0-24 (h\*ng/mL) of levodopa  
Per protocol population

|          |        | A1<br>(N=XX) | B1<br>(N=XX) | C1<br>(N=XX) | D1<br>(N=XX) |
|----------|--------|--------------|--------------|--------------|--------------|
| AUC0 24h | N      | XX           | XX           | XX           | XX           |
|          | Gmean  | XXXXX.XX     | XXXXX.XX     | XXXXX.XX     | XXXXX.XX     |
|          | Mean   | XXXXX.XX     | XXXXX.XX     | XXXXX.XX     | XXXXX.XX     |
|          | SD     | XXXX.XX      | XXXX.XX      | XXXX.XX      | XXXX.XX      |
|          | CV%    | XX.XX        | XX.XX        | XX.XX        | XX.XX        |
|          | Min    | XXXX.X       | XXXX.X       | XXXX.X       | XXXX.X       |
|          | Median | XXXXX.XX     | XXXXX.XX     | XXXXX.XX     | XXXXX.XX     |
|          | Max    | XXXXX.X      | XXXXX.X      | XXXXX.X      | XXXXX.X      |

Program: T\_14\_2\_1\_3\_1\_Levodopa AUC0-24.sas

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Table 14.2.1.3.2 Statistical analysis for AUC0-24 of levodopa  
Per protocol population

Analysis of variance

| Effect                            | Estimate<br>(Geometric Mean) | Stderr | 90%<br>Confidence Interval | P-value |
|-----------------------------------|------------------------------|--------|----------------------------|---------|
| Fixed Effects                     |                              |        |                            |         |
| Formulation                       | .                            | .      |                            | X.XXXX  |
| Period                            | .                            | .      |                            | X.XXXX  |
| Least Square Means                |                              |        |                            |         |
| Formulation A1                    | XXXXX.XXX                    | X.XXXX | (XXXXX.XX , XXXXX.XX)      | <.XXXX  |
| Formulation B1                    | XXXXX.XXX                    | X.XXXX | (XXXXX.XX , XXXXX.XX)      | <.XXXX  |
| Formulation C1                    | XXXXX.XXX                    | X.XXXX | (XXXXX.XX , XXXXX.XX)      | <.XXXX  |
| Formulation D1                    | XXXXX.XXX                    | X.XXXX | (XXXXX.XX , XXXXX.XX)      | <.XXXX  |
| Differences in Least Square Means |                              |        |                            |         |
| Formulation A1 B1                 | X.XXXXXXX                    | X.XXXX | ( X.XXXX , X.XXXX)         | X.XXXX  |
| Formulation A1 C1                 | X.XXXXXXX                    | X.XXXX | ( X.XXXX , X.XXXX)         | X.XXXX  |
| Formulation A1 D1                 | X.XXXXXXX                    | X.XXXX | ( X.XXXX , X.XXXX)         | X.XXXX  |
| Formulation B1 C1                 | X.XXXXXXX                    | X.XXXX | ( X.XXXX , X.XXXX)         | X.XXXX  |
| Formulation B1 D1                 | X.XXXXXXX                    | X.XXXX | ( X.XXXX , X.XXXX)         | X.XXXX  |
| Formulation C1 D1                 | X.XXXXXXX                    | X.XXXX | ( X.XXXX , X.XXXX)         | X.XXXX  |

Program: T\_14\_2\_1\_3\_2\_Levodopa statistical analysis for AUC0-24.sas

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Table 14.3.1.1 Summary of adverse events during study treatment (subject and event count)  
Safety population

|               |  | A1<br>(N=XX)<br>n (%) | B1<br>(N=XX)<br>n (%) | C1<br>(N=XX)<br>n (%) | D1<br>(N=XX)<br>n (%) |
|---------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Subject count | AEs  | X (XX.X)              | X (XX.X)              | X (XX.X)              | X (XX.X)              |
|               | Related AEs                                | X (XX.X)              | X (XX.X)              | X (XX.X)              | X (XX.X)              |
|               | AEs leading to<br>discontinuation of study |                       |                       |                       |                       |
|               | Mild AEs                                   | X (XX.X)              | X (XX.X)              | X (XX.X)              | X (XX.X)              |
|               | Moderate AEs                               | X (XX.X)              | X (XX.X)              | X (XX.X)              | X (XX.X)              |
|               | Severe AEs                                 |                       |                       |                       |                       |
|               | SAEs                                       |                       |                       |                       |                       |
| Event count   | AEs  | XX                    | XX                    | XX                    | XX                    |
|               | Related AEs                                | X                     | XX                    | XX                    | XX                    |
|               | AEs leading to<br>discontinuation of study |                       |                       |                       |                       |
|               | Mild AEs                                   | X                     | XX                    | X                     | XX                    |
|               | Moderate AEs                               | X                     | X                     | XX                    | X                     |
|               | Severe AEs                                 |                       |                       |                       |                       |
|               | SAEs                                       |                       |                       |                       |                       |

Program: T\_14\_3\_1\_1\_Summary of AEs.sas

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Table 14.3.1.2 Adverse events during study treatment (subject and event count)  
Safety population

| System Organ Class<br>Preferred Term                 | B1<br>(N=XX) |        | C1<br>(N=XX) |        | A1<br>(N=XX) |        | D1<br>(N=XX) |        |
|--|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
|  | Subjects     | Events | Subjects     | Events | Subjects     | Events | Subjects     | Events |
|  | n (%)        | n      | n (%)        | n      | n (%)        | n      | n (%)        | n      |
| Cardiac disorders                                    |              |        |              |        |              |        |              |        |
| Total  | X ( X.X)     | X      | X ( X.X)     | X      |              |        |              |        |
| Cardiovascular insufficiency                         |              |        | X ( X.X)     | X      |              |        |              |        |
| Palpitations   | X ( X.X)     | X      |              |        |              |        |              |        |
| Gastrointestinal disorders                           |              |        |              |        |              |        |              |        |
| Total  | X (XX.X)     | X      | X (XX.X)     | X      | X (XX.X)     | X      |              |        |
| Abdominal discomfort                                 | X ( X.X)     | X      | X ( X.X)     | X      |              |        |              |        |
| Abdominal pain                                       |              |        | X ( X.X)     | X      |              |        |              |        |
| Abdominal pain lower                                 |              |        |              |        | X ( X.X)     | X      |              |        |
| Diarrhoea  | X (XX.X)     | X      | X ( X.X)     | X      |              |        |              |        |
| Flatulence   |              |        | X ( X.X)     | X      | X ( X.X)     | X      |              |        |
| Gingival bleeding                                    | X ( X.X)     | X      |              |        |              |        |              |        |
| General disorders and administration site conditions |              |        |              |        |              |        |              |        |
| Total  |              |        |              |        |              |        | X ( X.X)     | X      |
| Fatigue  |              |        |              |        |              |        | X ( X.X)     | X      |
| Infections and infestations                          |              |        |              |        |              |        |              |        |
| Total  | X ( X.X)     | X      | X ( X.X)     | X      | X ( X.X)     | X      | X ( X.X)     | X      |
| Gingivitis   |              |        |              |        |              |        | X ( X.X)     | X      |
| Nasopharyngitis                                      | X ( X.X)     | X      | X ( X.X)     | X      | X ( X.X)     | X      |              |        |
| Injury, poisoning and procedural complications       |              |        |              |        |              |        |              |        |
| Total  | X ( X.X)     | X      |              |        | X ( X.X)     | X      |              |        |
| Muscle strain  | X ( X.X)     | X      |              |        |              |        |              |        |
| Thermal burn   |              |        |              |        | X ( X.X)     | X      |              |        |

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Table 14.3.5.1.1 Haematology  
Safety population

Laboratory variable=B-Erythrocytes - 10E12/l

| Treatment |           | N  | Mean  | SD    | Minimum | Median | Maximum |
|-----------|-----------|----|-------|-------|---------|--------|---------|
| -         | Screening | XX | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
| A1        | Period 1  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 2  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 3  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 4  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
| B1        | Period 1  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 2  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 3  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 4  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
| C1        | Period 1  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 2  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 3  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 4  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
| D1        | Period 1  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 2  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 3  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 4  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
| A2        | Period 1  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 2  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 3  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |
|           | Period 4  | X  | X.XXX | X.XXX | X.XX    | X.XXX  | X.XX    |

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Table 14.3.7.2.2 Changes from baseline in PR interval (ms)  
Safety population

| Treatment |   | N | Mean   | SD    | Minimum | Median | Maximum |
|-----------|---|---|--------|-------|---------|--------|---------|
| -         | Screening                               | X | .      | .     | .       | .      | .       |
| A1        | Period 1 DAY -1                         | X | -X.XX  | XX.XX | -XX.X   | -X.XX  | XX.X    |
|           | Period 1 DAY 1: 0-2 H BEFORE FIRST DOSE | X | .      | .     | .       | .      | .       |
|           | Period 1 DAY 6: 1-2 H AFTER 7 H DOSE    | X | -X.XX  | XX.XX | -XX.X   | -X.XX  | XX.X    |
|           | Period 1 DAY 7: 0-2 H BEFORE FIRST DOSE | X | X.XX   | XX.XX | -X.X    | X.XX   | XX.X    |
|           | Period 1 DAY 7: 1-2 H AFTER 7 H DOSE    | X | X.XX   | X.XX  | -X.X    | -X.XX  | XX.X    |
|           | Period 2 DAY -1                         | X | X.XX   | X.XX  | -X.X    | X.XX   | X.X     |
|           | Period 2 DAY 1: 0-2 H BEFORE FIRST DOSE | X | .      | .     | .       | .      | .       |
|           | Period 2 DAY 6: 1-2 H AFTER 7 H DOSE    | X | -X.XX  | XX.XX | -XX.X   | -X.XX  | XX.X    |
|           | Period 2 DAY 7: 0-2 H BEFORE FIRST DOSE | X | X.XX   | X.XX  | -X.X    | X.XX   | XX.X    |
|           | Period 2 DAY 7: 1-2 H AFTER 7 H DOSE    | X | X.XX   | X.XX  | -X.X    | X.XX   | XX.X    |
|           | Period 3 DAY -1                         | X | -XX.XX | XX.XX | -XX.X   | -XX.XX | -X.X    |
|           | Period 3 DAY 1: 0-2 H BEFORE FIRST DOSE | X | .      | .     | .       | .      | .       |
|           | Period 3 DAY 6: 1-2 H AFTER 7 H DOSE    | X | -X.XX  | X.XX  | -XX.X   | -X.XX  | X.X     |
|           | Period 3 DAY 7: 0-2 H BEFORE FIRST DOSE | X | -X.XX  | X.XX  | -XX.X   | X.XX   | X.X     |
|           | Period 3 DAY 7: 1-2 H AFTER 7 H DOSE    | X | -X.XX  | XX.XX | -XX.X   | -X.XX  | X.X     |
|           | Period 4 DAY -1                         | X | X.XX   | XX.XX | -X.X    | -X.XX  | XX.X    |
|           | Period 4 DAY 1: 0-2 H BEFORE FIRST DOSE | X | .      | .     | .       | .      | .       |
|           | Period 4 DAY 6: 1-2 H AFTER 7 H DOSE    | X | X.XX   | XX.XX | -XX.X   | -X.XX  | XX.X    |
|           | Period 4 DAY 7: 0-2 H BEFORE FIRST DOSE | X | -X.XX  | X.XX  | -XX.X   | X.XX   | X.X     |
|           | Period 4 DAY 7: 1-2 H AFTER 7 H DOSE    | X | -X.XX  | X.XX  | -XX.X   | X.XX   | X.X     |

Screening value is considered as baseline

Program: T\_14\_3\_7\_2\_2\_Change from bl in PR interval.sas

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Table 14.3.1.9 Suicidality assessment by C-SSRS during treatment  
Safety population

|   |    | A1<br>(N=13) |        | B1<br>(N=14) |        | C1<br>(N=14) |        | D1<br>(N=13) |        |
|---|----|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
|   |    | n            | (%)    | n            | (%)    | n            | (%)    | n            | (%)    |
| CSS02-Wish to be Dead                   | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
| CSS02-Non-Specific Suicidal Thought     | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
| CSS02-Actual Attempt                    | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
| CSS02-Non-suicidal Self-injurious Behav | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
| CSS02-Interrupted Attempt               | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
|   | NA | X            | ( X.X) | X            | ( X.X) | X            | ( X.X) | X            | ( X.X) |
| CSS02-Aborted Attempt                   | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
| CSS02-Preparatory Acts/Behavior         | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
|   | NA | X            | ( X.X) | X            | ( X.X) | X            | ( X.X) | X            | ( X.X) |
| CSS02-Suicidal Behavior                 | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |
| CSS02-Suicide                           | NO | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) | XX           | ( XXX) |

Program: T\_14\_3\_9\_C-SSRS.sas

Date: 23MAY17:09:14

**3112005 Statistical Analysis Plan****Written by: Vahteristo Mikko**

| <b>Date dd.mm.yyyy (UTC)</b> | <b>Justification</b> | <b>Electronically signed by</b> |
|------------------------------|----------------------|---------------------------------|
| 13.06.2017 07:21:31          | Approved             | Vahteristo Mikko (mikvah)       |
| 13.06.2017 07:46:02          | Approved             | Ellmen Juha (juhael)            |
| 14.06.2017 04:37:59          | Approved             | Holopainen Aila (ailaho)        |