

**This study HOP-MC-NP02 (NCT05177094) is a sub-study of Master Protocol HOP-MC-CPMP (NCT05986292)**

HOP-MC-NP02 Statistical Analysis Plan Version 2

Randomized, Placebo-Controlled, Phase 2 Clinical Trial to Evaluate LY3526318 for the Treatment of Diabetic Peripheral Neuropathic Pain

NCT05177094

Approval Date: 12-Jul-2022

# 1. Statistical Analysis Plan: H0P-MC-NP02: Intervention-Specific Appendix (ISA) for LY3526318

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## LY3526318 for the Treatment of Diabetic Peripheral Neuropathic Pain

This is a randomized, placebo-controlled, Phase 2 clinical trial to evaluate LY3526318 for the treatment of diabetic peripheral neuropathic pain.

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Protocol H0P-MC-NP02  
Phase 2

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### **3. Revision History**

Statistical analysis plan (SAP) Version 1 was approved prior to unblinding data for Study H0P-MC-NP02 (NP02).

SAP Version 2 was approved prior to unblinding data for Interim lock. Major revisions included:

Section 6.9: language indicating that electronic Clinical Outcome Assessments (eCOA) compliance is described in the H0P-MC-CPMP SAP version 5 was added.

Section 6.15: added language to allow the planned interim analysis to additionally modify the final sample size and added flexible language that allows for multiple interim analyses to be conducted.

Section 6.17:

Liver Function domain called drug-induced liver injury (DILI).

## 4. Study Objectives

### 4.1. Primary Objective

The primary objective of this intervention-specific appendix (ISA) is stated in the H0P-MC-CPMP (a) protocol. Additional blinded details regarding LY3526318 dosing that are not included in the protocol can be found in the Ethics Review Board (ERB) supplement for Study NP02. For Study NP02, endpoint is defined as 4 weeks post initial treatment administration at Visit 5. Unless otherwise specified, the time point for secondary endpoint measurements is the same as the primary endpoint.

Objectives	Endpoint
<b>Primary</b>	
Efficacy of LY3526318 versus placebo for pain intensity	Mean change from baseline assessment to 4 weeks for average pain intensity as measured by the NRS

Abbreviation: NRS = Numeric Rating Scale.

### 4.2. Secondary Objectives

Secondary objectives applicable to all ISAs are listed in the Study H0P-MC-CPMP (CPMP) SAP Version 5.

Additional secondary endpoints specific to Study NP02 are listed below.

Objective	Endpoint Measure
<b>Other Secondary</b>	
<b>Physical Functioning</b> Efficacy of LY3526318 versus placebo	<p>Mean change from baseline to endpoint for the Brief Pain Inventory-Short Form (BPI-SF) for the</p> <ul style="list-style-type: none"> <li>○ Mean interference score</li> <li>○ Mean severity score</li> <li>○ Individual severity scores</li> <li>○ Individual interference scores</li> </ul> <p>Proportion of participants with reduction from baseline greater than or equal to 30%, 50%, and 70% on BPI-SF for the</p> <ul style="list-style-type: none"> <li>○ Mean interference score</li> <li>○ Mean severity Score</li> <li>○ Individual severity scores</li> <li>○ Individual interference scores</li> </ul>

### 4.3. Exploratory Objectives

The following exploratory objectives and endpoints are specific to Study NP02.

Objectives	Endpoints
<b>Tertiary/Exploratory</b>	
Measure the pharmacokinetics of LY3526318 in participants with DPNP	Measure of plasma concentrations of LY3526318 to enable pharmacokinetic evaluations
(Duration of Response) Efficacy of LY3526318 versus Placebo	Mean change from baseline assessment up to 8 weeks for average pain intensity as measured by NRS

CCI

Abbreviations: DPNP = diabetic peripheral neuropathic pain; NRS = numeric rating scale.

## 5. Study Design

### 5.1. Summary of Study Design

The CPMP protocol provides a summary of the overall study design for the chronic pain master protocol. ISA-specific study design is provided in the NP02 protocol.

In this ISA, patients in the LY3526318 treatment arm receive LY3526318 for the first 4 weeks of the double-blind period (active-treatment period) and switch to placebo for the last 4 weeks of the double-blind period (post-active-treatment period) starting on the day of Visit 5. Placebo patients receive placebo for the entire 8-week double-blind period. Additional details of the study design may be found in the ERB supplement for Study NP02.

For the analyses listed in this SAP, except for treatment compliance, we define active treatment period and post-active treatment period as follows. The first 4 weeks of the double-blind period (active treatment period) ends at the day of Visit 5. The last 4 weeks of the double-blind period (post-active treatment period) begins the day after Visit 5.

### 5.2. Determination of Sample Size

Approximately 150 participants will be randomized in a **CCI** ratio to LY3526318 and placebo, respectively. It is expected that approximately 85%, or 128 participants, will complete the double-blind treatment period of the study. **CCI**

**CCI**

If there is no treatment difference between placebo and LY3526318, the probability of passing the efficacy criterion specified above (ie, false positive) is approximately 0.06. The simulation for the power calculation and sample size determination was carried out using the Fixed and Adaptive Clinical Trial Simulator (FACTS) Version 6.0.

### 5.3. Method of Assignment to Treatment

The method of treatment assignment is described in the CPMP SAP Version 5.

## 6. A Priori Statistical Methods

### 6.1. General Considerations

The estimand for the primary clinical question of interest has been described in the CPMP SAP Version 5.

Unless otherwise specified, efficacy analyses will be conducted for the first 4 weeks of the double-blind period (active treatment phase) and separately for the entire 8-week study. A post-active treatment population will be used for analyses of the last 4 weeks of the double-blind period (post-active-treatment phase) and will include all patients who do not discontinue at or prior to Visit 5. For treatment-emergent adverse events (TEAEs), participants in the post-active treatment population will be analyzed according to the treatment they receive during the active treatment phase. Adverse event (AE) analyses will be reported for the first 4 weeks of the double-blind period (active treatment phase) and separately for the last 4 weeks of the double-blind period (post-active treatment phase). Some AEs may be reported for the entire 8 weeks, if necessary. Laboratory, electrocardiogram, and vital sign results will be reported for the active-treatment phase and separately for the entire 8-week study.

Other general considerations for analyses are described in the CPMP SAP Version 5.

### 6.2. Adjustments for Covariates

The general adjustment strategy has been described in the CPMP SAP Version 5.

### 6.3. Handling of Dropouts or Missing Data

The missing data strategy has been described in the CPMP SAP Version 5.

### 6.4. Multiple Comparisons/Multiplicity

There is no plan to formally adjust for multiplicity.

### 6.5. S S S S Participants

There are no plans to use a modified efficacy subset.

### 6.6. Participant Disposition

The summary of participant disposition has been described in the CPMP SAP Version 5. Disposition will additionally be reported for the first 4-week active treatment period.

### 6.7. Participant Characteristics

The summary of participant characteristics has been described in the CPMP SAP Version 5.

ISA-specific considerations are described below.

#### Michigan Neuropathy Screening Instrument

- Part A - history .1s m . .7)
- Part B - physical assessment subscale (<3 vs .g)

- CCI

## 6.8. Treatment Compliance

Treatment percentage of compliance will be calculated as:

$$\frac{\text{Total pills taken} * 100}{\text{Total pills expected}} \%$$

with total pills taken calculated by total pills dispensed minus total pills returned. A patient is considered to be compliant for a given period if this percentage is between 80% and 120%. Treatment compliance will be reported for the first 4 weeks of the study period (Visit 3 to 5, not including the day of Visit 5), and separately for the last 4 weeks of the study period (Visit 5 to 7, including the day of Visit 5). Note that if a patient misses returning pills at Visit 4 or Visit 5, there will be an issue calculating compliance for the active treatment period, and alternate methods for calculating compliance may be considered. For patients who discontinue early, time after the penultimate visit will be excluded for calculation of treatment compliance. For example, if patient discontinued early at Visit 6, treatment compliance will be derived only from data collected through Visit 5. Comparisons between treatment group for treatment compliance will be performed using a Fisher's Exact test. Listings for treatment compliance of individual patients by treatment period will also be provided.

Depending on the level of observed treatment compliance, and where appropriate, sensitivity analyses of primary endpoints may be conducted by excluding patients with poor treatment compliance.

## 6.9. Concomitant Therapy and eCOA Compliance

The summary and reporting of concomitant therapy and eCOA compliance has been described in the CPMP SAP Version 5. No additional covariates will be considered in the models of weekly rescue medication use.

Concomitant therapy will be reported for the first 4 weeks of the double-blind period (active-treatment phase), and separately for the entire 8 weeks of the double-blind period.

## 6.10. Efficacy Analyses

### 6.10.1. Primary Outcome and Methodology

The analysis of the primary outcome has been described in the CPMP SAP Version 5. The longitudinal model will include API-NRS during the preliminary data entry period ([PDEP], last 7 days prior to randomization at Visit 3) and within each nominal week of the double treatment period as a longitudinal outcome. As noted in Section 4.1, endpoint for the primary analysis is defined as 4 weeks post initial treatment administration.

Calculation of the weekly/bi-weekly time intervals used for analysis of weekly/bi-weekly mean scores from the eCOA device will follow the algorithm described in the CPMP SAP

Section 6.12.1, except that the end of the final interval will be determined based on the last visual analog scale (VAS) collection date, or the last scheduled visit start date if VAS results are missing for the last scheduled visit.

### **6.10.2. Additional Analyses of the Primary Outcome**

Borrowing placebo information by pooling from Studies H0P-MC-NP01 and H0P-MC-NP03 for the evaluation of treatment effect on the mean change from baseline of API-NRS (and secondary outcomes of worst pain intensity as measured by the NRS, Brief Pain Inventory-Short Form [BPI-SF] and VAS) will be performed following the description in CPMP SAP Version 5, Section 6.12.1. Descriptive statistics of primary outcome variables by demographics, disposition, disease characteristics, and treatment administration may be summarized by ISA, in order to examine the population homogeneity assumption between ISAs.

### **6.10.3. Secondary Efficacy Analyses**

Secondary efficacy analyses common to all ISAs within CPMP have been described in the CPMP SAP Version 5. Unless otherwise specified, the time point for secondary endpoint measurements is the same as that for the primary endpoint. Study NP02 will also consider the following secondary analyses.

The BPI-SF is a numeric rating scale that assesses the severity of pain (severity scale), its impact on daily functioning (interference scale), and other aspects of pain (for example, location of pain, relief from medications) in various disease states (Cleeland and Ryan 1994).

This table describes the pain scales and corresponding numeric rating scale used in a modified version of the BPI, validated for pain in diabetic polyneuropathy. Participants will rate their pain severity and how, during the past 24 hours, the pain has interfered with the activities described in this table.

Assessment	Topic	Numeric Rating Scale 0-10
4-item Pain severity	Worst pain in last 24 hours Least pain in the last 24 hours Average pain Pain right now	0 = no pain 10 = pain as bad as you can imagine
7-item Pain interference	General Activity Mood Walking ability Normal work Relations with others Sleep Enjoyment of life	0 = does not interfere 10 = completely interferes

A Bayesian longitudinal mixed-effect model for repeated measures (MMRM) analysis will be performed to evaluate the change from baseline to each postbaseline visit for the mean pain interference scale and the mean pain severity scale. The model will utilize the constrained cell

means model so that a common mean is estimated at the baseline. More details on this approach are provided in the Study CPMP SAP Version 5.

Additional Bayesian MMRM analyses will be used to analyze the change from baseline to each postbaseline visit for:

individual pain interference, and  
individual pain severity scales.

This table describes information included in the model.

<b>Categorical effects</b>	the interaction of treatment and visit (constrained to estimate a common mean at baseline across treatments) average baseline pain severity category (baseline NRS < 7, baseline NRS > 7) pooled investigative site
<b>Continuous covariates</b>	none

Abbreviation: NRS = numeric rating scale.

### Other Secondary Analysis

The proportion of participants in each treatment group meeting prespecified binary efficacy outcomes will be calculated for each postbaseline time point and will be used to compare treatment groups. The prespecified binary efficacy outcomes include the proportion of participants:

- with a reduction of at least 30%, 50%, and 70% from baseline as measured by the mean pain interference score
- with a reduction of at least 30%, 50%, and 70% from baseline as measured by the mean pain severity score
- with a reduction of at least 30%, 50%, and 70% from baseline as measured by the individual interference scores, and
- with a reduction of at least 30%, 50%, and 70% from baseline as measured by the individual severity scores.

A Bayesian pseudo-likelihood-based categorical repeated measures model will be used to estimate the proportion of participants in each treatment group meeting the prespecified threshold for each postbaseline time interval up to Week 4 (or visit up to Visit 5) and separately up to Week 8 (or visit up to Visit 7). These estimates will be used to compare treatment groups. More details on this approach are provided in the CPMP SAP Version 5.

In addition, time to first treatment response from baseline based on the prespecified binary thresholds above will be assessed. Analyses will be conducted according to the time to event analyses specified in the CPMP SAP Version 5.

## 6.11. Bioanalytical and Pharmacokinetic/Pharmacodynamic Methods

The observed plasma concentrations for LY3526318 over time will be reported in tabular format using descriptive statistics and graphically using individual and mean concentration time plots. Nominal protocol time will be used for the descriptive summary and mean plot and actual time for the plots of individual data.

Additional analyses may be conducted, as deemed necessary upon review of the data. For example, graphical and/or model-based pharmacokinetic (PK) and PK-pharmacodynamic (PD) analyses to explore exposure-response relationships for safety and/or efficacy may be conducted. Data from this study may be pooled with data from other studies, if appropriate.

## 6.12. Safety Analyses

The general analysis of safety has been described in the Study CPMP SAP Version 5. However, additional ISA-specific safety considerations are described in the sections below.

### 6.12.1. Extent of Exposure

Duration of exposure (defined as time since first dose of study treatment to last dose of study treatment in days) to study drug will be summarized by treatment group using descriptive statistics; the summary will also include the total exposure in patient years. Extent of exposure will be reported separately for the first 4 weeks (active treatment) and the last 4 weeks (post-active treatment) of the double-blind period. All patients will receive placebo starting the day of Visit 5.

Duration of exposure (days):

1. For the first 4-week active treatment period:  
= Date of last dose during the active treatment period   Date of first dose for the active treatment period + 1
2. For the last 4-week post-active treatment period:  
= Date of last dose during the post-active treatment period   Date of first dose for the post-active treatment period + 1

Total exposure in patient years will be calculated as follows:

Total exposure in patient years = Sum of duration (days) of exposures for all patients in the treatment group/365.25.

### 6.12.2. Adverse Events

The general analysis of adverse events has been described in the CPMP SAP Version 5.

This ISA will report TEAEs for the first 4 weeks as well as post-active-treatment-emergent AEs (PTEAEs) for the last 4 weeks of the double-blind period. For TEAEs in the first 4 weeks of the double-blind period (active treatment phase), the baseline will be prior to first dose date.

A PTEAE is defined as an event that first occurs or worsens in severity after active-treatment phase (after Visit 5) and on or before study discontinuation. The Medical Dictionary for

Regulatory Activities (MedDRA) Lowest Level Term (LLT) will be used in the post-treatment-emergent computation. The maximum severity for each LLT during the active-treatment period (Visits 3 through 5) will be used as a reference.

The baseline of PTEAE is from the first dosing date to Visit 5. The post-active-treatment phase will be included as postbaseline for this analysis. While unusual, it is possible to have a missing severity for events. For events with a missing severity during the baseline period, it will be . . . . . or determining post-active treatment-emergence. Events with a missing severity during the post-active . . . . . PTEAEs will be determined by comparing with active-treatment period.

PTEAEs will be summarized by Preferred Term and by Preferred Term within System Organ Class in participants who received LY3526318.

### **6.12.3. Deaths, Other Serious Adverse Events, and Other Notable Adverse Events**

Treatment-emergent adverse events by Preferred Term will be reported.

The general summary of AEs is described in the CPMP SAP Version 5.

### **6.12.4. Clinical Laboratory Evaluation**

The general analysis of laboratory parameters is described in the CPMP SAP Version 5.

In this ISA, laboratory results will be reported for the first 4-week, active-treatment period and separately for the entire 8-week study period.

Study NP02 will also consider the following analyses of lab analytes used to assess renal function. The planned summaries for these analytes are the same as those that have been described in the Study CPMP SAP Version 5; however, the reporting of these analytes will be separate from the general analysis of laboratory parameters.

Renal data analyses:

- Serum creatinine (change from baseline in mg/dL)
- Estimated glomerular filtration rate (eGFR; Chronic Kidney Disease Epidemiology Collaboration [CKD-EPI] algorithm using serum creatinine) Algorithm: Provided by central laboratory
- For eGFR calculation, we will summarize shift tables of eGFR changes for baseline vs. postbaseline by minimum, maximum and last observed eGFR result:
  - Category 1: Normal or increase in GFR ( 90 mL/min/1.73m<sup>2</sup>)
  - Category 2: Mild reduction in GFR (60 to 89 mL/min/1.73m<sup>2</sup>)
  - Category 3a: Moderate (a) reduction in GFR (45 to 59 mL/min/1.73m<sup>2</sup>)
  - Category 3b: Moderate (b) reduction in GFR (30 to 44 mL/min/1.73m<sup>2</sup>)
  - Category 4: Severe reduction in GFR (15 to 29 mL/min/1.73m<sup>2</sup>)
  - Category 5: Kidney failure (GFR < 15 mL/min/1.73m<sup>2</sup> or dialysis).

Abnormal eGFR is specified below and will be summarized in the laboratory summary tables.

- Abnormal low: < 90 mL/min/1.73m<sup>2</sup>
- Abnormal high: As specified by central laboratory.

#### **6.12.5. Vital Signs and Other Physical Findings**

The analysis of vital sign parameters is described in the CPMP SAP Version 5.

Vital signs will be reported for the first 4-week, active-treatment period, and separately for the entire 8-week study period.

#### **6.12.6. Electrocardiograms**

The analysis of electrocardiogram parameters is described in the CPMP SAP Version 5.

Electrocardiogram will be reported for the first 4-week, active treatment period and separately for the entire 8-week study period.

#### **6.12.7. Suicidal Ideation or Behavior**

Reporting of suicidal ideation/behavior through the Columbia Suicide-Severity Rating Scale (C-SSRS) has been described in the CPMP SAP Version 5. C-SSRS will additionally be reported separately for the first 4-week active treatment period.

### **6.13. Subgroup Analyses**

General subgroup analyses are described in the CPMP SAP Version 5.



The subgroup analyses will be conducted using similar modeling approaches as the primary analyses. Additional factors in the model are described in the CPMP SAP Version 5. The treatment difference at the endpoint will be reported within each level of the subgroup factor along with 95% credible intervals. Frequentist MMRM may be performed as a sensitivity analysis using the modeling approach described in the CPMP SAP Version 5.



## 6.14. Protocol Deviations

Participants with study important protocol deviations will be summarized by type of deviation and listed by treatment and investigative site.

Important protocol deviations for the study are described in the CPMP and Study NP02 Trial Issue Management Plans.

## 6.15. Interim Analyses and Data Monitoring

Safety review will be conducted under the auspices of an Assessment Committee according to the specifications set forth in the protocol. These analyses will be at the CPMP level and will consider data from all ongoing ISAs. Details are provided in the CPMP SAP Version 5.

Interim analyses are planned for Study NP02 to be conducted when 60% of patients have the opportunity to complete the 4-week active-treatment period. Details of the interim analysis can be found in the TRPA1 Statistical Analysis Center (SAC) SAP. The interim analysis may change the final sample size from what is planned in this Study NP02 SAP.

Additional interim analyses may be conducted for reasons of futility analyses, early efficacy analyses, safety analyses, or other analyses needed for key business decisions and planning.

## 6.16. Planned Exploratory Analyses

The following analyses may be conducted for exploratory purposes:

### CCI

In addition, a cumulative distribution function of percent change from baseline to endpoint for the following BPI-SF score will be provided for each treatment group.

- Mean interference score
- Mean severity score
- Individual severity scores
- Individual interference scores.

However, no statistical comparisons will be made between the groups.

## 6.17. Totality of Evidence for Safety

The totality of evidence analysis approach for safety data has been briefly described in the CPMP SAP Version 5. This may be reported for any of the active treatment period, post-active treatment period, and entire 8-week study period. The key safety events to be considered for Study NP02 are listed below by domain:

### General Adverse Event Information

- Serious adverse events related to study treatment
- Study discontinuation due to adverse event
- Treatment discontinuation due to adverse event.

**Cardiovascular**

QTc prolongation: >60 msec increase  
Serious cardiac disorders adverse event.

**Liver function**

“ . . . p . . . (TBL) f Upper limit normal (ULN) and at least one of the following 2 conditions:

- Alanine aminotransferase (ALT) g ULN for at least one visit
- Aspartate aminotransferase (AST) g ULN for at least one visit.

DILI (drug-induced liver injury): At least one of the following 2 conditions:

- “ . . .
- ALT 5 ULN for at least one visit.

**Metabolic function**

Serious hypoglycemia adverse event

Treatment-emergent HbA1c: Shift from low/normal at baseline to high at least once.

**Renal function**

Treatment-emergent abnormal eGFR: Shifts

Mild at baseline to moderate/severe

Moderate at baseline to severe.

## 6.18. Annual Report Analyses

Analyses will be produced as needed for the purposes of providing periodic safety reviews to regulatory agencies (for example, Development Safety Update Reports). Data from this ISA will be combined with data from other clinical studies that investigated LY3526318. In all analyses, a combined LY arm will be created which includes participants assigned to any dose of LY3526318 in the included studies, including LY-combination regimens.

The following data will be summarized by treatment group.

enrollment (ongoing and completed)

demographics (Race, ethnicity, and gender)

exposure

- cumulative number of subjects exposed to LY3526318
- cumulative number of subjects exposed to LY3526318 by age
- cumulative number of subjects exposed to LY3526318 by sex
- cumulative number of subjects exposed to LY3526318 by race

cumulative summary of serious AEs.

The following listings will be provided.

list of serious AEs during the reporting period

list of subjects who died

cumulative list of subjects who discontinued due to an AE (discontinued from treatment or study)

list of subjects who discontinued due to an AE during the reporting period.

Additional analyses may be added or omitted at the time of report submission as needed.

## 6.19. Clinical Trial Registry Analyses

Additional analyses will be performed for the purpose of fulfilling the Clinical Trial Registry (CTR) requirements.

Analyses provided for the CTR requirements include the following:

Summary of AEs, provided as a dataset that will be converted to an XML file. Both Serious AEs and Other AEs are summarized by treatment group and by MedDRA Preferred Term.

A serious AE is an AE that is considered Serious whether or not it is a treatment emergent.

An AE is considered in the Other category if it is both a TEAE and is not serious. For each Serious AE and Other AE, for each term and treatment group, the following are provided:

- the number of participants at risk of an event
- the number of participants who experienced each event term
- the number of events experienced.

Consistent with [www.ClinicalTrials.gov](http://www.ClinicalTrials.gov) requirements, Other AEs that occur in fewer than 5% of participants in every treatment group may not be included if a 5% threshold is chosen (5% is the minimum threshold).

AE reporting is consistent with other document disclosures for example, the Clinical Study Report (CSR) and manuscripts.

## 7. Unblinding Plan

The general unblinding plan is described in the CPMP SAP Version 5 and in the CPMP Blinding and Unblinding Plan Version 1. Unblinding considerations specific to Study NP02 are provided below.

### PKPD Analysis Planning

A limited number of prespecified individuals who are not part of the blinded study team and do not have direct site contact, data entry, or data validation responsibilities, may receive access to unblinded data, prior to an interim or final database lock, in order to initiate the PK and/or PKPD model development processes. This will be described in the unblinding plan. Information that may unblind the study during the analyses will not be reported to study sites or blinded study team until the study has been unblinded.

## 8. References

Cleeland CS, Ryan KM. Pain assessment: global use of the Brief Pain Inventory. *Ann Acad Med Singapore*. 1994 Mar;23(2):129-138. PMID: 8080219

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Approval

PPD

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