



## STATISTICAL ANALYSIS PLAN

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<b>Study Title:</b>	A Phase 2/3, Open-Label Study of the Pharmacokinetics, Safety, and Antiviral Activity of the Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Alafenamide (E/C/F/TAF) Single Tablet Regimen (STR) in HIV-1 Infected Antiretroviral Treatment-Naive Adolescents and Virologically Suppressed Children
<b>Name of Test Drug:</b>	Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Alafenamide (E/C/F/TAF) STR
<b>Study Number:</b>	GS-US-292-0106
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**CONFIDENTIAL AND PROPRIETARY INFORMATION**

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## LIST OF ABBREVIATIONS

AE	adverse event
ANOVA	analysis of variance
ARV	antiretroviral
BLQ	below limit of quantitation
BMD	bone mineral density
BMI	body mass index
BSA	body surface area
CDER	Center for Drug Evaluation and Research
CI	confidence interval
COBI	cobicistat (GS-9350)
COVID-19	coronavirus disease 2019
CPK	creatine phosphokinase
CRF	case report form
CV	coefficient of variation
DC	study drug discontinuation
DXA	dual-energy x-ray absorptiometry
ECG	electrocardiogram
eCRF	electronic case report form
eGFR	estimated glomerular filtration rate
EVG	elvitegravir
E/C/F/TAF	elvitegravir/cobicistat/emtricitabine/tenofovir alafenamide (coformulated; Genvoya®)
FDA	Food and Drug Administration
FEPO4	urine fractional excretion of phosphate
FTC	emtricitabine (Emtriva®)
GFR	glomerular filtration rate
GSI	Gilead Sciences, Inc.
HIV-1	human immunodeficiency virus (type 1)
HLGT	high-level group term
IDMC	independent data monitoring committee
LD	low dose
MedDRA	Medical Dictionary for Regulatory Activities
NCEP	National Cholesterol Education Program
PBMC	peripheral blood mononuclear cell
PT	preferred term
PK	pharmacokinetic(s)
PR	pulse rate
PVF	pure virologic failure
Q	quartile

QD	once daily
RNA	ribonucleic acid
SAP	statistical analysis plan
SD	standard deviation
SMQ	Standardized MedDRA query
SOC	system organ class
STB	Stribild® (elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil fumarate; coformulated)
STR	single-tablet regimen
TAF	tenofovir alafenamide
TDF	tenofovir disoproxil fumarate (Viread®)
TFL	tables, figures, and listings
TFV	tenofovir
WHO	World Health Organization

## 1. INTRODUCTION

Study GS-US-292-0106 is a Phase 2/3, open-label, multicenter, multicohort, single-arm study of the pharmacokinetics (PK), safety, tolerability, and antiviral activity of the elvitegravir/cobicistat/ emtricitabine/tenofovir alafenamide (E/C/F/TAF) single-tablet regimen (STR) in HIV-1 infected, antiretroviral (ARV) treatment-naïve adolescents and virologically suppressed children.

This document describes the statistical analysis methods and data presentations to be used in the summary and analysis of data for Study GS-US-292-0106 Interim 6 Analysis. This analysis will only include data collected from Cohort 3 (virologically suppressed HIV-1 infected children  $\geq 2$  years of age weighing  $\geq 14$  to  $< 25$  kg), and will be conducted after all Cohort 3 subjects have completed their Week 48 visit or prematurely discontinued from the study.

### 1.1. Study Objectives of Cohort 3

The primary objectives are:

- To evaluate the PK of EVG and TAF and confirm the dose of the STR in virologically suppressed HIV-1 infected children  $\geq 2$  years of age weighing  $\geq 14$  to  $< 25$  kg administered E/C/F/TAF low dose (LD) (90/90/120/6 mg) STR
- To evaluate the safety and tolerability of E/C/F/TAF LD STR through Week 24 in virologically suppressed HIV-1 infected children  $\geq 2$  years of age weighing  $\geq 14$  to  $< 25$  kg

The secondary objectives are:

- To evaluate the antiviral activity of switching to E/C/F/TAF LD STR through Week 48 in virologically suppressed HIV-1 infected children  $\geq 2$  years of age weighing  $\geq 14$  to  $< 25$  kg
- To evaluate the safety and tolerability of E/C/F/TAF LD STR through Week 48 in virologically suppressed HIV-1 infected children  $\geq 2$  years of age weighing  $\geq 14$  to  $< 25$  kg

### 1.2. Study Design of Cohort 3

#### 1.2.1. Design Configuration

For subjects in Cohort 3, there are 2 study phases, a main phase **CCI**. The “main phase” refers to the safety and efficacy evaluation phase through Week 48. Approximately 25 HIV-1 infected, virologically suppressed children will be enrolled in the main phase to receive the E/C/F/TAF LD STR once daily with food.

All enrolled subjects will participate in an intensive PK evaluation at Week 2 to evaluate EVG and TAF plasma PK and confirm the dose of EVG and TAF.

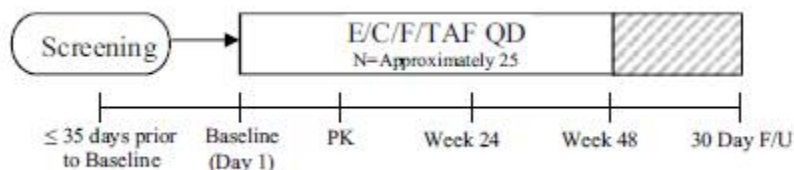
### 1.2.2. Subject Population

Virologically suppressed, HIV-1 infected children ( $\geq 2$  years of age and screening weight  $\geq 14$  to  $< 25$  kg) of either sex with plasma HIV-1 RNA levels  $< 50$  copies/mL) for  $\geq 6$  consecutive months prior to screening on a stable ARV regimen, with no prior history of resistance to any component of the E/C/F/TAF LD STR.

### 1.2.3. Treatment Group

This is an open-label, single-arm study. All Cohort 3 subjects will be enrolled and treated with the E/C/F/TAF LD STR.

### 1.2.4. Study Schema (Main Phase)



### 1.2.5. Key Eligibility Criteria

HIV-1 infected subjects who meet the following criteria:

- Age at Baseline:  $\geq 2$  years old
- Weight at Screening:  $\geq 14$  kg (31 lbs) to  $< 25$  kg (55 lbs)
- Plasma HIV-1 RNA:  $< 50$  copies/mL (or undetectable HIV-1 RNA level according to the local assay being used if the limit of detection is  $> 50$  copies/mL) for  $\geq 6$  consecutive months prior to screening on a stable ARV regimen, without documented history of resistance to any component of E/C/F/TAF LD STR

Unconfirmed HIV-1 RNA  $\geq 50$  copies/mL after previously reaching virologic suppression (transient detectable viremia, or “blip”) and prior to screening is acceptable

Currently receiving an ARV regimen that has been stable for at least 6 consecutive months or has been newly initiated within 6 months for reasons other than virologic failure.

### 1.2.6. Study Periods/Phases and Duration

Intensive PK evaluation occurs at Week 2 for all subjects, a 48-week safety and efficacy evaluation phase occurs for all subjects, and a 30-day follow up visit occurs for subjects who discontinued from the study drug prior to Week 48 and for subjects who complete 48 weeks on study drug CCI



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### 1.2.7. Pharmacokinetic Evaluation

Subjects will participate in an intensive PK evaluation at Week 2. Samples will be collected at 0 (predose,  $\leq 30$  minutes prior to dosing), 0.25, 0.5, 1, 1.5, 2, 3, 4, 5, and 8 hours postdose.

A trough PK sample (20 to 24 hours postdose) will be collected at Weeks 4, and 24.

A timed PK sample will be collected between 0.25 to 4 hours post-dose at Weeks 8, 12 and 16.

The PK of EVG, COBI, FTC, TAF, and tenofovir (TFV) will be evaluated.

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### 1.2.9. Schedule of Assessments

Study procedures at screening, baseline, and during the study are outlined in the protocol and presented in [Appendix 2](#) of the Statistical Analysis Plan (SAP).

### 1.3. Sample Size and Power of Cohort 3

Twenty-five evaluable subjects compared to historical adult data will provide 90% power for each of EVG  $AUC_{tau}$  and TAF  $AUC_{tau}$  to conclude exposure equivalence between children and adults. In this power analysis, it is assumed that the expected geometric mean ratio is 1, the equivalency boundary is 70% to 143%, two one-sided tests are each performed at an alpha level of 0.05, and the intersubject standard deviations (natural log scale) of EVG  $AUC_{tau}$  and TAF  $AUC_{tau}$  are 0.34 ng•h/mL and 0.52 ng•h/mL. For historical adult data, we used intensive PK data from 19 HIV-1 infected adults in Study GS-US-292-0102 for EVG  $AUC_{tau}$  and population PK data from Studies GS-US-292-0104 and GS-US-292-0111 combined for TAF  $AUC_{tau}$ .

Twenty-five evaluable subjects will also provide > 99% power to target a 95% confidence interval (CI) within 60% and 140% of the geometric mean estimate of apparent CL and  $V_z$  of TAF respectively, assuming the standard deviation in natural log scale is 0.51 for CL and 0.54 for  $V_z$  (based on population PK data from Studies GS-US-292-0104 and GS-US-292-0111 combined).

Sample size and power calculations were made using the software package nQuery Advisor (Version 6.0) and R.

## **2. PLANNED ANALYSES FOR COHORT 3**

### **2.1. Cohort 3 Week 24 Independent Data Monitoring Committee Analysis**

Analyses of safety, PK, and efficacy data will be performed after all subjects from Cohort 3 have completed their Week 24 visit or prematurely discontinued study drug. The purpose of this interim analysis is to provide the Independent Data Monitoring Committee (IDMC) with a statistical report for review. More details are documented in the IDMC charter.

### **2.2. Interim 5 Analysis**

An Interim 5 Analysis was conducted after all subjects in Cohort 3 had completed their Week 24 visit or prematurely discontinued study drug.

### **2.3. Interim 6 Analysis**

An Interim 6 Analysis will be conducted after all subjects in Cohort 3 have completed their Week 48 visit or prematurely discontinued study drug.

This SAP describes the analysis plan for the Study GS-US-292-0106 Interim 6 Analysis. Results of this analysis will be included in the Interim 6 CSR.

### **2.4. Final Analysis**

A final statistical analysis will be conducted after all subjects have completed the study.

### **2.5. Changes from Protocol-Specified Analysis**

The timing of the analysis of the IDMC review was changed from the intensive PK visit at Week 2 to Week 24, so that IDMC members would have enough safety data for review.

### **3. GENERAL CONSIDERATIONS FOR DATA ANALYSIS**

Only Cohort 3 data will be included in this Interim 6 Analysis.

#### **3.1. Analysis Sets**

Analysis sets define which subjects are included in an analysis. A summary of the number and percentage of subjects in each analysis set will be provided. A listing will be provided for each analysis set.

##### **3.1.1. All Enrolled Analysis Set**

The All Enrolled Analysis Set will include all subjects who are enrolled in this study. This is the primary analysis set for by-subject listings.

##### **3.1.2. Full Analysis Set**

The Full Analysis Set (FAS) will include all subjects who are enrolled in the study and have received at least 1 dose of study drug. For FAS analysis, all efficacy data, including data collected after the last dose date of study drug, will be included, unless specified otherwise. This is the primary analysis set for efficacy analyses.

##### **3.1.3. Safety Analysis Set**

The Safety Analysis Set will include all subjects who have received at least 1 dose of study drug. All data collected from the first dose date up to 30 days after subjects permanently discontinue their study drug will be included in the safety summaries. This is the primary analysis set for safety analyses.

##### **3.1.4. DXA Analysis Set**

###### **3.1.4.1. Spine DXA Analysis Set**

The Spine DXA Analysis Set will include all subjects who are enrolled in the study, have received at least 1 dose of study drug, and have a nonmissing baseline and at least 1 postbaseline spine bone mineral density (BMD) value.

###### **3.1.4.2. Total Body Less Head DXA Analysis Set**

The Total Body Less Head (TBLH) DXA Analysis Set will include all subjects who are enrolled in the study, have received at least 1 dose of study drug, and have a nonmissing baseline and at least one postbaseline TBLH BMD value.

### **3.1.5. PK Analysis Sets**

#### **3.1.5.1. Intensive PK Analysis Set**

An Intensive PK Analysis Set will be defined separately for each of the 5 analytes (EVG, COBI, FTC, TAF, and TFV). The 5 Intensive PK Analysis Sets will include all enrolled and treated subjects who have any nonmissing key PK parameters ( $AUC_{tau}$ ,  $AUC_{last}$ ,  $C_{max}$ ) from Week 2 intensive PK data for the respective analyte. The intensive PK analysis sets will be used for PK summary tables, figures, and listings of intensive PK data.

#### **3.1.5.2. PK Analysis Set**

A PK Analysis Set will be defined separately for each of the 5 analytes (EVG, COBI, FTC, TAF, and TFV). The 5 PK Analysis Sets will include all enrolled and treated subjects who have at least one observed single or trough concentration data of the respective analyte. The PK Analysis Sets will be used for analysis of single and trough blood concentrations.

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### **3.2. Subject Grouping**

The subjects will be grouped into one treatment group (ie, E/C/F/TAF) for efficacy and safety analyses.

### **3.3. Strata and Covariates**

Not applicable.

### **3.4. Multiple Comparisons**

Not applicable.

### **3.5. Missing Data and Outliers**

#### **3.5.1. Missing Data**

A missing datum for a given study visit window may be due to any of the following reasons:

- A visit occurred in the window but data were not collected or were unusable.
- A visit did not occur in the window.
- A subject permanently discontinued from the study before reaching the window.

In general, values for missing data will not be imputed, unless specified otherwise.

### 3.5.2. Outliers

Outliers will be identified during the data management and data analysis process, but no sensitivity analyses will be done to evaluate the impact of outliers on PK, efficacy, or safety outcomes, unless specified otherwise. All data will be included in the analysis.

### 3.6. Data Handling Conventions and Transformed Data

Logarithm (base 10) will be used to transform HIV-1 RNA data. Natural logarithm transformation will be applied to the PK concentrations for the PK analysis.

Concentration values (including intensive, trough, predose, postdose, timed or anytime PK concentration) that are below the lower limit of quantitation (BLQ) will be presented as “BLQ” in the concentration listing. Intensive PK concentration values that are BLQ will be treated as 0 at predose time points and one-half the value of the lower limit of quantitation (LLOQ) at postdose time points for summary purposes. Other PK concentration values (including trough, predose, postdose, timed or anytime PK concentration) that are BLQ will be treated as one-half of the LLOQ.

The following conventions will be used for the presentation of order statistics and summary statistics for intensive PK concentration and trough PK concentrations:

- If at least 1 subject has a concentration value of BLQ for the time point, the minimum value will be displayed as “BLQ.”
- If more than 25% of the subjects have a concentration value of BLQ for a given time point, the minimum and Q1 values will be displayed as “BLQ.”
- If more than 50% of the subjects have a concentration value of BLQ for a given time point, the minimum, Q1, and median values will be displayed as “BLQ.”
- If more than 75% of the subjects have a concentration value of BLQ for a given time point, the minimum, Q1, median, and Q3 values will be displayed as “BLQ.”
- If all subjects have concentration values of BLQ for a given time point, all order statistics (minimum, Q1, median, Q3, and maximum) and summary statistics will be displayed as “BLQ.”

Data (eg, HIV-1 RNA data) that are continuous in nature but are less than the lower limit of quantitation or above the upper limit of quantitation will be imputed as follows:

- A value that is 1 unit less than the limit of quantitation will be used for calculation of descriptive statistics if the datum is reported in the form of “< x”. For example, if the values are reported as < 50 and < 5.0, then values of 49 and 4.9 will be used for calculation of summary statistics, respectively.

- A value that is 1 unit above the limit of quantitation will be used for calculation of descriptive statistics if the datum is reported in the form of “> x” (x is considered as the limit of quantitation). Values with decimal points will follow the same logic as above.
- The limit of quantitation will be used for calculation of descriptive statistics if the data is reported in the form of “≤ x” or “≥ x” (x is considered as the limit of quantitation).
- For direct bilirubin, a value of “< 0.1” is imputed as 0.09. For urine creatinine, a value of “< 1” is handled as a missing value in the calculation of related ratios.

### 3.7. Visit Windows

#### 3.7.1. Key Definitions

**Study Day 1** is defined as the day when the first dose of study drug E/C/F/TAF was taken, as recorded on the study drug administration electronic case report form (eCRF).

**Study Day** is calculated relative to Study Day 1. For events that occurred on or after Study Day 1, Study Day is calculated as (visit date minus date of the first dose plus 1). For events that occurred prior to Study Day 1, Study Day is calculated as (visit date minus date of the first dose).

**Last Dose Date** is defined as the maximum and nonmissing end date of study drug E/C/F/TAF on the study drug administration eCRF form with “Study Drug Permanently Discontinued” box checked for subjects a) who prematurely discontinued study drug from main phase, b) completed study drug in the main phase **CCI**

If the date of last dose is incomplete or missing (eg, due to lost to follow-up), the last dose date will be imputed using the instruction described in [Appendix 7](#).

**Last Study Date** is the maximum of the nonmissing study drug start dates, study drug end dates, and the clinic visit and laboratory visit dates, including the 30-day follow-up visit date for subjects who a) prematurely discontinued study from main phase or b) completed study in the main phase **CCI**

**Baseline Value** is defined as the last nonmissing value obtained on or prior to Study Day 1. The baseline BMD value and Tanner Stage is defined as the last nonmissing value obtained prior to or up to Study Day 21 (inclusive).

### 3.7.2. Analysis Windows

Subject visits might not occur on protocol-specified days. Therefore, for the purpose of analysis, observations will be assigned to analysis windows.

Analysis windows for vital signs, weight, height, laboratory tests, and urine chemistry are presented in [Table 3-1](#).

**Table 3-1. Analysis Windows for Vital Signs, Weight, Height, and Laboratory Tests<sup>a</sup>**

	Nominal Day	Visit Window
Baseline		≤ 1
Week 1	7	[2,9] (NP <sup>a</sup> )
Week 2	14	[10, 20] ([2,20] <sup>a</sup> )
Week 4	28	[21, 41]
Week 8	56	[42, 69]
Week 12	84	[70, 97]
Week 16	112	[98, 139]
Week 24	168	[140, 195]
Week 32	224	[196, 251]
Week 40	280	[252, 307]
Week 48	336	[308, 377]

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NP Not planned by the protocol.

<sup>a</sup> Laboratory tests include HIV 1 RNA, CD4 cell counts, CD4%, flow cytometry panel, hematology and chemistry. For flow cytometry panel, CD4 cell count and CD4 %, Week 1 is not applicable and the study day range for Week 2 is [2, 20].

Analysis windows for metabolic assessments are presented in [Table 3-2](#).

**Table 3-2. Analysis Windows for Metabolic Assessments<sup>a</sup>**

	Nominal Day	Visit Window
Baseline		≤ 1
Week 24	168	[2, 251]
Week 48	336	[252, 503]

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<sup>a</sup> Metabolic assessments include lipid panel (total cholesterol, high density lipoprotein [HDL], direct low density lipoprotein [LDL], and triglycerides).

Analysis windows for fasting glucose and urine renal chemistry are presented in [Table 3-3](#).

**Table 3-3. Analysis Windows for Fasting Glucose, Urine Chemistry, and Urine Renal Chemistry**

	Nominal Day	Visit Window
Baseline		≤ 1
Week 8	56	[2, 69]
Week 12	84	[70, 125]
Week 24	168	[126, 251]
Week 48	336	[252, 503]

**CCI**

a Urine renal chemistry includes retinol binding protein, and beta 2 microglobulin.

Analysis windows for Tanner stage and BMD assessments are presented in [Table 3-4](#).


**Table 3-4. Analysis Windows for Tanner Stage and BMD Assessments**

	Nominal Day	Visit Window
Baseline		≤ 21
Week 24	168	[22, 251]
Week 48	336	[252, 503]

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Analysis windows for serum bone safety assessments are presented in [Table 3-5](#).

**Table 3-5. Analysis Windows for Bone Safety Assessments<sup>a</sup>**

	Nominal Day	Visit Window
Baseline		≤ 1
Week 12	84	[2, 125]
Week 24	168	[126, 251]
Week 48	336	[252, 419]
Week 24*k 	168*k	[168*k 84, 168*k+83]

a Bone safety assessments include bone specific alkaline phosphatase, PTH, 25 hydroxy vitamin D, 1,25 dihydroxyvitamin D.

### 3.7.3. Selection of Data in the Event of Multiple Records in a Window

Depending on the statistical analysis method, single values may be required for each analysis window. For example, change from baseline by visit usually requires a single value, whereas a time to event analysis would not require one value per analysis window. When multiple valid and nonmissing observations fall within the bounds of a visit window and a single value is needed, the following rule(s) will be used.



### 3.7.3.1. Numeric Observations

- For efficacy data (ie, HIV-1 RNA level, CD4 cell count, and CD4%) and BMD data, the latest record within the window will be selected.
- For other numeric observations, the record closest to the nominal day for that visit within the window will be selected. If there are 2 records equidistant from the nominal day, the latest will be selected.
- If there is more than one record on the selected day, the average will be taken (geometric mean for HIV-1 RNA and arithmetic mean for others).
- For baseline and postbaseline HIV-1 RNA, the latest (considering both date and time) record(s) in the window will be selected. If both 'HIV RNA Taqman 2.0' and 'HIV RNA Repeat' (ie, the HIV-1 RNA result obtained from an additional aliquot of the original sample) are available with the same collection date/time, the results from the 'HIV RNA Repeat' will be selected for analysis purposes; otherwise, if there are multiple 'HIV RNA Taqman 2.0' records with the same collection date/time, the geometric mean will be taken for analysis purposes.

### 3.7.3.2. Categorical Observations

- For baseline, the last available record prior to the date of the first dose of the study drug will be selected. If there are multiple values recorded on the same day with the same time or missing time, select the value with the lowest severity.
- For postdose visits, the most conservative value (eg, abnormal will be selected over normal, or the value with the highest severity) within the window will be selected.

## 4. SUBJECT DISPOSITION

### 4.1. Subject Enrollment

The number and percentage of subjects enrolled will be summarized by each country and by each investigator within a country. The denominator for this calculation will be the number of all enrolled subjects.

A listing of enrollment, including informed consent date, enrollment status for the main phase **CCI**, will be provided.

Screen failure subjects will be listed, including screening number, inclusion criteria not met, and exclusion criteria met.

### 4.2. Disposition of Subjects

A summary of subject disposition will be provided for all screened subjects. This summary will include the number of subjects screened, screened subjects who were not enrolled, screen failure subjects who were not enrolled, subjects enrolled, subjects in the Safety Analysis Set, and subjects in the FAS.

In addition, the number and percentage of subjects in the following categories will be summarized:

- a) Still on study drug in the main phase
- b) Prematurely discontinued study treatment in the main phase (with summary of reasons for discontinuing treatment)
- c) Completed study treatment in the main phase
- d) Still on study treatment in the main phase
- e) Prematurely discontinued study in the main phase (with summary of reasons for discontinuing study).
- f) Completed study in the main phase

**CCI**

The denominator for the percentages of subjects in each category will be the number of subjects in the Safety Analysis Set for items a through **CCI**

### 4.3. Extent of Exposure

#### 4.3.1. Duration of Exposure to Study Drug

Duration of exposure will be calculated in the Safety Analysis Set for exposure during the entire study for all subjects.

Duration of exposure during the entire study will be expressed in weeks (recorded to 1 decimal place for week, eg, 4.5 weeks), and calculated as  $(\text{Date of last dose} - \text{Date of first dose} + 1) / 7$ , regardless of temporary interruptions in study drug administration. If subjects are still on study drug, the last dose date will be imputed for the calculation of study drug exposure using instructions provided in [Appendix 7](#).

Duration of exposure to study drug will be summarized using descriptive statistics (sample size, mean, SD, median, first quartile [Q1], third quartile [Q3], minimum, and maximum) and as the number and percentage of subjects exposed for specified periods, eg,  $\geq 1$  week (7 days),  $\geq 2$  weeks (14 days),  $\geq 4$  weeks (28 days),  $\geq 8$  weeks (56 days),  $\geq 12$  weeks (84 days).

Summaries will be provided using the Safety Analysis Set.

Time to premature discontinuation of study drug will be analyzed using the Kaplan-Meier method using the Safety Analysis Set. Subjects who are still on study drug will be censored on the imputed last dose date.

#### 4.3.2. Adherence with Study Drug

Study drug adherence will be computed based on pill counts. The numbers of pills of study drug dispensed and returned are captured on the study drug accountability eCRF.

Adherence (%) to the study drug will be calculated as follows:

$$\begin{aligned} \text{Adherence (\%)} &= 100 \times \frac{\text{Number of pills taken}}{\text{Number of pills prescribed}} \\ &= 100 \\ &\times \frac{\text{Sum of Number of pills taken at each dispensing period [1]}}{\text{Sum of Number of pills prescribed at each dispensing period [2]}} \end{aligned}$$

[1] **Number of pills taken at each distinct dispensing period** is calculated as the minimum of a) the daily number of pills prescribed multiplied by the **duration of treatment at each dispensing period**, and b) number of pills taken (number of pills dispensed minus the number of pills returned). Total number of pills taken is determined by summing the number of pills taken from all evaluable dispensing periods.

[2] **Number of pills prescribed at each distinct dispensing period** is calculated as the daily number of pills prescribed multiplied by the **duration of treatment at each dispensing period**. Total number of pills prescribed is determined by summing the number of pills prescribed from all evaluable dispensing periods.

**The duration of treatment at each dispensing period** is calculated as the minimum of (the last returned date of the same dispensing period, the date of permanent discontinuation of study drug, and next pill dispensing date) minus the dispensing date. The next pill dispensing date is the following dispensing date of the study drug regardless of the bottle return date.

For a record where the number of pills returned was missing (with “Yes” answered for “Was Bottle returned?” question), it is assumed the number of pills returned was 0. If the number of pills dispensed was missing or any study drug bottle was not returned or the bottle return status was unknown for the same dispensing date, all records for the same dispensing date will be excluded from both denominator and numerator calculations.

Overall adherence will be calculated for each subject either up to the date of permanent discontinuation of the study drug for subjects who permanently discontinued study drug or completed study drug or using all data available for subjects ongoing on study drug.

Descriptive statistics for overall adherence with the study drug (sample size, mean, SD, median, Q1, Q3, minimum, and maximum) together with the number and percentage of subjects in adherence categories (eg, < 80%, ≥ 80% to < 90%, ≥ 90% to < 95%, ≥ 95%) will be provided for the Safety Analysis Set. No inferential statistics will be provided.

Drug accountability and adherence data will be listed.

#### **4.4. Protocol Deviations**

A listing will be provided for subjects in the Safety Analysis Set who violate at least 1 inclusion or exclusion criteria. The listing will include the eligibility criteria not met.

Protocol deviations occurring after subjects entered the study are documented during routine monitoring. The number and percentage of subjects with important protocol deviations and the total number of important protocol deviations by deviation reason (eg, nonadherence to study drug, violation of select inclusion/exclusion criteria) will be summarized for the Full Analysis Set for all important protocol deviations and important protocol deviations related to COVID-19. The number and percentage of subjects with 1, 2 and ≥ 3 important protocol deviations related to COVID-19 will be summarized. The subjects with 1, 2 and ≥ 3 non-important protocol deviations related to COVID-19 will be summarized similarly as well. By-subject listings will be provided for those subjects with important protocol deviations and for those with either important protocol deviations or non-important protocol deviations related to COVID-19.

## 5. BASELINE CHARACTERISTICS

### 5.1. Demographics and Baseline Characteristics

Subject demographic data (eg, age, sex, race, and ethnicity, age groups [2-5 years old, 6-11 years old]) and baseline characteristics (eg, body weight, weight Z-score, height, height Z-score, body surface area [BSA], body mass index [BMI], and Tanner Stage) will be summarized using descriptive statistics for all subjects in the Safety Analysis Set. The BSA will be calculated using the formula,  $BSA (m^2) = \text{SQRT}([\text{Height}(cm) \times \text{Weight}(kg)] / 3600)$ . The percentage of subjects who reach Tanner Stage 4 or 5 will also be summarized. The sample size, mean, SD, median, Q1, Q3, minimum, and maximum will be provided for continuous data, and the number and percentage of subjects will be provided for categorical data. Age is calculated as age in years at first dose of study drug. The definition of baseline value is provided in Section 3.7.1.

In addition, the following baseline disease characteristics will be summarized:

- HIV-1 RNA categories (copies/mL):  $< 50$  and  $\geq 50$
- CD4 cell count (cells/ $\mu$ L)
- CD4 cell count categories (cells/ $\mu$ L): a)  $\leq 199$ , b) 200 to  $\leq 349$ , c) 350 to  $\leq 499$ , and d)  $\geq 500$
- CD4 percentage (%)
- HIV disease status
- Mode of infection (HIV risk factor)
- Years diagnosed with HIV (to be calculated as time prior to first dose date, capped by the subject's age)
- HBV surface antigen
- HCV antibody
- eGFR calculated by the Schwartz Formula (Section 7.4.2)
- Proteinuria by urinalysis (dipstick)

Demographic characteristics, baseline characteristics, and baseline disease characteristics data will be listed for all enrolled subjects. The baseline ARV regimen, defined as the ARV regimen the subjects received on the day before the first dose date, will be summarized.

### 5.2. Medical History

The HIV/AIDS-specific medical history and general medical history (ie, conditions not specific to the disease being studied) data will be listed only. Medical history data will not be coded.

## 6. EFFICACY ANALYSES

### 6.1. Definition of the Efficacy Endpoints

#### 6.1.1. Efficacy Endpoints

The efficacy endpoints include:

- The percentage of subjects with plasma HIV-1 RNA < 50 copies/mL at Weeks 24 and 48 as defined by the United States (US) FDA-defined snapshot algorithm {[Smith et al 2011](#)}
- The change from baseline in CD4 cell count (cells/ $\mu$ L) and percentage at Weeks 24 and 48
- The percentage of subjects with HIV-1 RNA < 50 copies/mL at Weeks 24 and 48 (Missing Failure and Missing Excluded analyses)

#### 6.1.2. US FDA-Defined Snapshot Algorithm

The analysis window at Week 24 is defined as from Study Day 140 to Study Day 195, inclusive. All HIV-1 RNA data collected on-treatment (eg, data collected from Study Day 1 up to 1 day after the last dose date of study drug) will be used in the US FDA-defined snapshot algorithm. Virologic outcome will be defined as the following categories:

- **HIV-1 RNA < 50 copies/mL:** this includes subjects who have the last available on-treatment HIV-1 RNA < 50 copies/mL in the Week 24 analysis window
- **HIV-1 RNA  $\geq$  50 copies/mL:** this include subjects
  - 1) Who have the last available on-treatment HIV-1 RNA  $\geq$  50 copies/mL in the Week 24 analysis window, or
  - 2) Who do not have on-treatment HIV-1 RNA data in the Week 24 analysis window and
    - a) Who discontinue study drug prior to or in the Week 24 analysis window due to lack of efficacy, or
    - b) Who discontinue study drug prior to or in the Week 24 analysis window due to AE or death and have the last available on-treatment HIV-1 RNA  $\geq$  50 copies/mL, or
    - c) Who discontinue study drug prior to or in the Week 24 analysis window due to reasons other than AE, death, or lack of efficacy and have the last available on-treatment HIV-1 RNA  $\geq$  50 copies/mL

- **No Virologic Data in Week 24 Window:** this includes subjects who do not have on-treatment HIV-1 RNA data in the Week 24 analysis window because of the following:
  - 1) Discontinuation of study drug prior to or in the Week 24 analysis window due to AE or death and the last available on-treatment HIV-1 RNA < 50 copies/mL, or
  - 2) Discontinuation of study drug prior to or in the Week 24 analysis window due to reasons other than AE, death, or lack of efficacy and the last available on-treatment HIV-1 RNA is < 50 copies/mL, or
  - 3) Missing data during the window but on study drug.

The flowchart of the snapshot algorithm is provided in [Appendix 3](#).

The snapshot outcomes at Week 48 will also be summarized at this analysis. The analysis window for Week 48 is from Day 308 to Day 377, inclusive.

### 6.1.3. Missing Failure and Missing Excluded Analyses

Virologic response, defined as HIV-1 RNA < 50 copies/mL, will also be analyzed using the following 2 methods for imputing missing HIV-1 RNA values:

- Missing Failure (M F)

In this approach, all missing data will be treated as virologic failure (ie, HIV-1 RNA  $\geq$  50 copies/mL). This analysis will be done using the FAS.

- Missing Excluded (M E)

In this approach, all missing data will be excluded in the computation of virologic response (ie, missing data points excluded from both the numerator and denominator in response rate computation).

### 6.2. Analysis Methods for Efficacy Endpoints

The analyses for all the efficacy endpoints will be conducted using the FAS.

The numbers and percentages of subjects with HIV-1 RNA < 50 copies/mL based on US FDA-defined snapshot algorithm, M F analysis, and M E analysis, will be summarized. The 95% CI for the percentage estimate in the M F analysis and M E analysis will be constructed using the Exact method. For the snapshot algorithm, the numbers and percentages of subjects with HIV-1 RNA < 50 copies/mL, HIV-1 RNA  $\geq$  50 copies/mL (including subcategories), and no virological data (including reasons) will be summarized. For the M F analysis, results will be summarized for all visits up to Week 48. For the M E analysis, results will be summarized at all visits through the data cut date for the FAS.

The CD4 cell count and CD4% data will be summarized using observed, on-treatment data (ie, up to 1 day after the last dose date of study drug). The baseline values and changes from baseline in CD4 cell count (cells/ $\mu$ L), and CD4% at each visit will be summarized descriptively (sample size, mean, SD, 95% CI, median, Q1, Q3, minimum, and maximum). The mean and 95% CI of change from baseline over time will be plotted.

A listing for plasma HIV-1 RNA, CD4 cell count, CD4%, and a listing for snapshot outcome will be provided.

### **6.3. Changes From Protocol-Specified Efficacy Analyses**

The secondary efficacy endpoint for the percentage of subjects with plasma HIV-1 RNA < 400 copies/mL at Weeks 24 and 48, as defined by the FDA snapshot analysis, was removed, because Cohort 3 is comprised of virologically suppressed subjects and these endpoints do not apply.



## **7. SAFETY ANALYSES**

Safety data will be summarized for the subjects in the Safety Analysis Set. All safety data collected on or after the date of the first dose of study drug up to the last dose date of study drug plus 30 days will be summarized, unless specified otherwise. All safety data will be included in data listings.

### **7.1. Adverse Events**

#### **7.1.1. Adverse Event Dictionary**

Adverse events will be coded using the latest version of Medical Dictionary for Regulatory Activities (MedDRA). System organ class (SOC), high-level group term (HLGT), high-level term, preferred term (PT), and lower-level term will be attached to the clinical database.

#### **7.1.2. Adverse Event Severity**

Adverse events are graded by the investigator as Grade 1 (mild), Grade 2 (moderate), Grade 3 (severe) or Grade 4 (life threatening) according to toxicity criteria specified in Appendix 4 of the study protocol. The severity grade of events for which the investigator did not record severity will be categorized as “missing” for data listings and will be considered the least severe for the purposes of sorting for data presentation.

#### **7.1.3. Relationship of AEs to Study Drug**

Related AEs are those for which the investigator answers ‘Related’ to the question ‘Related to Study Treatment?’ in the eCRF. Events for which the investigator did not record relationship to study drug will be considered related to study drug for summary purposes. Data listings will show relationship as missing.

#### **7.1.4. Relationship of AEs to Study Procedure**

Adverse events for which “Yes” is marked for the question “Related to Study Procedures?” in the eCRF will be identified and included in the AE listing.

#### **7.1.5. Serious AEs**

Serious AEs are those identified in the eCRF, where “Yes” was marked for “AE serious”. The clinical database will be reconciled with the SAE database (from the Global Patient Safety Department) before database finalization.

#### **7.1.6. Treatment Emergent AEs**

##### **7.1.6.1. Definition of Treatment Emergent**

Treatment-emergent AEs (TEAEs) are events that meet one of the following criteria up to 30 days after the permanent discontinuation of the study drug:

- Events with onset dates on or after the first dose date of study drug
- Events that result in permanent study drug discontinuation

#### 7.1.6.2. Incomplete Dates

If the date of onset is incomplete or completely missing, the detailed definition of TEAE is specified in [Appendix 7](#).

#### 7.1.7. Summaries of AEs and Deaths

A brief summary of AEs will show the number and percentage of subjects who a) had any treatment-emergent AE, b) had any Grade 3 or 4 treatment-emergent AE, c) had any Grade 2, 3, or 4 treatment-emergent AE, d) had any treatment-emergent study-drug-related AE, e) had any Grade 3 or 4 treatment-emergent study-drug-related AE, f) had any Grade 2, 3, or 4 treatment-emergent study-drug-related AE, g) had any treatment-emergent SAE, h) had any treatment-emergent study-drug-related SAE, i) had any treatment-emergent AE leading to premature study-drug discontinuation, and j) had treatment-emergent death.

Treatment-emergent death refers to a death that occurred between the first dose date and the last dose date plus 30 days (inclusive).

Summaries (number and percentage of subjects) of AEs (by SOC and PT) will be provided using the Safety Analysis Set as follows:

- All treatment-emergent AEs
- All treatment-emergent AEs by PT
- Grade 3 or 4 treatment-emergent AEs
- Grade 2, 3, or 4 treatment-emergent AEs
- All treatment-emergent study-drug-related AEs
- Any Grade 3 or 4 treatment-emergent study-drug-related AEs
- Any Grade 2, 3, or 4 treatment-emergent study-drug-related AEs
- All treatment-emergent SAEs
- All treatment-emergent study-drug-related SAEs
- All treatment-emergent AEs that caused premature discontinuation from study drug
- AEs for COVID-19 and Suspected COVID-19 infection, defined as in [Appendix 5](#).

Multiple events will be counted once only per subject in each summary. For data presentation, SOC will be ordered alphabetically, with PT sorted by decreasing total frequency. For summaries by severity grade, the most severe event will be selected.

In addition to the summaries, data listings will be provided for the following:

- All AEs
- Grade 3 and 4 AEs
- SAEs
- Study-drug related SAEs
- Death report
- Pregnancy report
- AEs leading to premature discontinuation of study drug

#### **7.1.8. Category C Events**

On an ongoing basis, AEs will be reviewed for events that might meet the definition of Category C events that are indicative of an AIDS-Defining Diagnosis (see Protocol Appendix 6). Gilead medical personnel will review the possible Category C events and approve the events that meet the definition. Events that meet the Category C definition of an AIDS-Defining Diagnosis will be listed.

#### **7.2. Laboratory Evaluations**

Summaries of laboratory data will be provided for the Safety Analysis Set. Analysis will be based on values reported in conventional units.

##### **7.2.1. Summaries of Numeric Laboratory Results**

Descriptive statistics (sample size, mean, SD, median, Q1, Q3, minimum, and maximum) will be provided for each laboratory test specified in the study protocol as follows:

- Baseline values
- Values at each postbaseline analysis window
- Change from baseline to each postbaseline analysis window
- Percentage change from baseline to each postbaseline analysis window (if specified)

In the case of multiple values in an analysis window, data will be selected for analysis as described in Section [3.7.3](#).

#### 7.2.1.1. Metabolic Assessments

For the lipid panel and glucose, only those measurements under fasting status will be summarized.

#### 7.2.1.2. Calcium Corrected for Albumin

Calcium corrected for albumin will be calculated and summarized for the study. The following formula will be used when both serum calcium and albumin results for a given blood draw are available and serum albumin value is < 4.0 g/dL:

Calcium corrected for albumin (mg/dL) = serum calcium (mg/dL) + 0.8 × (4.0 - albumin [g/dL])

Toxicity grading for calcium will be applied based on the corrected values.

### 7.2.2. Graded Laboratory Values

The criteria specified in the protocol will be used to grade laboratory results as Grade 0, mild (Grade 1), moderate (Grade 2), severe (Grade 3), or life-threatening (Grade 4). Grade 0 includes all values that do not meet criteria for an abnormality of at least Grade 1. Some laboratory tests have criteria for both increased and decreased levels; analyses for each direction (ie, increased, decreased) will be presented separately.

Maximum postbaseline grade, instead of treatment-emergent grade, for nonfasting glucose will be summarized, as nonfasting glucose was not assessed at the baseline visit.

For triglycerides and cholesterol, the protocol-specified toxicity grading scale is for fasting test values, so nonfasting lipid results (or lipid results without known fasting status) will not be graded or summarized by toxicity grades.

If there is any laboratory toxicity grading scale overlapping with normal reference ranges (eg, Grade 1 scale overlaps with normal reference ranges), laboratory values within normal range will not be graded, except lipid tests.

#### 7.2.2.1. Treatment-Emergent Laboratory Abnormalities

Treatment-emergent laboratory abnormalities are defined as values that increase at least one toxicity grade from baseline at any time postbaseline up to and including the date of last dose of study drug plus 30 days. If the relevant baseline laboratory data are missing, any laboratory abnormality of at least Grade 1 is considered treatment-emergent.

#### 7.2.2.2. Summaries of Laboratory Abnormalities

The following summaries (number and percentage of subjects) of laboratory abnormalities will be provided (subjects categorized according to most severe abnormality grade):

- Treatment-emergent laboratory abnormalities
- Treatment-emergent Grade 3 or 4 laboratory abnormalities

For all summaries of laboratory abnormalities, the denominator is the number of subjects with nonmissing postbaseline values in the given study period. Listings will be provided for treatment-emergent laboratory abnormalities and treatment-emergent Grade 3 or Grade 4 laboratory abnormalities.

#### 7.2.2.3. Liver-Related Laboratory Tests

The number and percentage of subjects will be summarized for the following liver-related laboratory tests and categories:

- Aspartate aminotransferase (AST): (a)  $> 3 \times$  upper limit of normal (ULN), (b)  $> 5 \times$  ULN, (c)  $> 10 \times$  ULN, (d)  $> 20 \times$  ULN
- Alanine aminotransferase (ALT): (a)  $> 3 \times$  ULN, (b)  $> 5 \times$  ULN, (c)  $> 10 \times$  ULN, (d)  $> 20 \times$  ULN
- AST or ALT: (a)  $> 3 \times$  ULN, (b)  $> 5 \times$  ULN, (c)  $> 10 \times$  ULN, (d)  $> 20 \times$  ULN
- Total bilirubin: (a)  $> 1 \times$  ULN, (b)  $> 2 \times$  ULN
- Alkaline phosphatase (ALP)  $> 1.5 \times$  ULN
- AST or ALT  $> 3 \times$  ULN and total bilirubin: (a)  $> 1.5 \times$  ULN, (b)  $> 2 \times$  ULN
- AST or ALT  $> 3 \times$  ULN and total bilirubin  $> 2 \times$  ULN and ALP  $< 2 \times$  ULN

The summary will use data from all the postbaseline visits up to 30 days after the last dose of study drug. For individual laboratory tests, subjects will be counted once based on the most severe postbaseline values. For the composite endpoint of AST or ALT and total bilirubin, and the composite endpoint of AST or ALT, total bilirubin, and ALP, subjects will be counted once when the criteria are met at the same postbaseline visit date. The denominator is the number of subjects in the Safety Analysis Set with nonmissing postbaseline values of the tests in evaluation at the same postbaseline visit date.

Subjects with AST or ALT  $> 3 \times$  ULN will be listed.

### 7.3. Bone Safety Analyses

#### 7.3.1. Bone Mineral Density

The BMD will be evaluated in 2 body sites: spine and TBLH. BMD standard Z-score will be computed based on the chronological age-matched population of the same sex and ethnicity. BMD height-age Z-score will be generated by substituting height-age for chronological age, where height-age will be determined as the age at which the child's height is the median on the stature-for-age Centers for Disease Control (CDC) Year 2000 growth chart published on the following CDC website:

<http://www.cdc.gov/nccdphp/dnpao/growthcharts/resources/index.htm>

If a subject's height is greater than the median height for a 20-year-old according to the growth chart, both height-age and height-age Z-score will not be calculated. The BMD Z-scores (standard Z-score and height-age Z-score) will be calculated for the 2 body sites (ie, spine and TBLH). For some subjects whose BMD Z-scores (standard Z-score and height-age Z-score) cannot be computed because there is no reference population data, the extrapolated BMD Z-scores will be computed instead.

Percentage change from baseline in spine and TBLH BMD will be summarized by visit using descriptive statistics for subjects in the spine and TBLH DXA analysis sets, respectively.

Descriptive summaries for the BMD Z-scores (standard Z-score and height-age Z-score) and the change from baseline in Z-scores (standard Z-score and height-age Z-score) will be presented by visit for the spine and TBLH DXA Analysis Sets.

Shift tables of the clinical BMD status at baseline versus postbaseline visits will be presented for both spine and TBLH BMD. Clinical BMD status will be classified into 2 categories using the BMD Z-scores (standard Z-score and height-age Z-score): Z-scores  $> 2$  versus Z-scores  $\leq 2$  {[Gordon et al 2008](#)}. The number and percentages of subjects with at least 4% decline in BMD from baseline to each postbaseline visit will be summarized by visit for the spine and TBLH DXA Analysis Sets.

A listing of subjects with at least 4% decline from baseline in BMD from at least one of the body sites (ie, spine and TBLH) at any postbaseline visit will be provided. The BMD values, standard BMD Z-score, height-age BMD Z-score, and height-age will be listed. Listings of subjects with BMD Z-score  $\leq 2$  at any postbaseline visit in spine and/or TBLH BMD based on standard Z-scores and height-age Z-scores, respectively, will also be provided.

### **7.3.2. Bone Safety Assessments**

Bone safety assessments include the following in serum: bone-specific alkaline phosphatase, parathyroid hormone [PTH], 25-OH vitamin D, and 1, 25-OH vitamin D.

Baseline, postbaseline, changes from baseline, and percentage change from baseline in bone safety assessments will be summarized by visit using descriptive statistics.

### **7.3.3. Fracture Events**

The preferred terms included in analysis for fracture events are defined based on the Standardized MedDRA Query (SMQ) of osteoporosis/osteopenia of fractures from MedDRA. The list of PTs selected by clinical review from all the PT terms under SMQ of osteoporosis/osteopenia fractures and HLGTT of fractures is presented in [Appendix 4](#). Fracture events will be listed only.

## **7.4. Renal Safety Analyses**

### **7.4.1. Serum Creatinine**

The baseline and change from baseline in serum creatinine will be summarized by visit using descriptive statistics.

### **7.4.2. Estimated Glomerular Filtration Rate**

The following formula will be used to calculate eGFR:

Schwartz Formula:  $eGFR \text{ (ml/min/1.73m}^2\text{)} = k \times L/SCr$ ,

where k is the proportionality constant (0.55 for children [2-11 years old] or adolescent girls  $\geq 12$  years old; 0.70 for adolescent boys  $\geq 12$  years old), L is height (cm), SCr is serum creatinine (mg/dL).

Change from baseline in eGFR at each postbaseline visit will be provided.

### **7.4.3. Urine Retinol Binding Protein to Creatinine Ratio and Beta-2-Microglobulin to Creatinine Ratio**

Baseline, postbaseline, change from baseline, and percentage change from baseline in urine retinol binding protein (RBP) to creatinine ratio and beta-2-microglobulin to creatinine ratio will be summarized by visit using descriptive statistics.

### **7.4.4. Proteinuria by Quantitative Assessment**

Subjects will be classified into three categories based on their urine protein (UP) and urine protein to creatinine ratio (UPCR) results:  $UPCR \leq 200 \text{ mg/g}$  (including subjects with  $UP < 4.0 \text{ mg/dL}$ ),  $UPCR > 200 \text{ mg/g}$ , and Missing, where UPCR will only be calculated when  $UP \geq 4.0 \text{ mg/dL}$ . The number and percentage of subjects in each UP and UPCR category will be summarized by baseline category at Weeks 8, 12, 24, 48.

## **7.5. Tanner Stage Assessment**

Tanner Stages will be used to evaluate the onset and progression of pubertal changes for children who are 6 years or older. Females will be rated for pubic hair growth and breast development, and males will be rated for pubic hair growth and genitalia development. The Tanner Stages (Pubic Hair and Breasts for female; Pubic Hair and Genitalia for male) at each postbaseline visit will be summarized by baseline Tanner Stages using frequency count and percentage.

Tanner Stage results at screening and during the study will be listed.

## **7.6. Palatability/Acceptability Assessment**

Palatability and acceptability assessments will be summarized by visit (baseline, Week 4, Week 24, and Week 48) using frequency count and percentage and will be listed.

## **7.7. Body Weight, Height, and Vital Signs**

Body weight and height at each visit and change from baseline in body weight and height at each visit will be summarized using descriptive statistics (sample size, mean, SD, median, Q1, Q3, minimum, and maximum) by visit.

An age- and sex-specific Z-score will be derived for each weight and height measurement according to the downloadable SAS program available on the Centers for Disease Control (CDC) website using the year 2000 growth charts. The methods and SAS program published on the following CDC websites will be applied to calculate the Z-score:

<http://www.cdc.gov/nccdphp/dnpao/growthcharts/resources/index.htm>

<http://www.cdc.gov/nccdphp/dnpao/growthcharts/resources/sas.htm>

Z-scores for body weight and height at each visit and change from baseline in Z-scores for postbaseline body weight and height will be summarized by visit. In the case of multiple values in an analysis window, data will be selected for analysis as described in Section 3.7.3.

Body weight, weight Z-score, height, height Z-score, BMI, and BSA will be listed. Vital signs will be presented in data listings only.

## **7.8. Nonstudy-Drug Antiretroviral Medications**

Nonstudy-drug ARV medications used prior to the study, during study, and after study (if collected), will be coded using the GSI-modified World Health Organization (WHO) Drug Dictionary. The WHO preferred name and drug code will be attached to the clinical database. All nonstudy-drug ARV medications will be listed.

Nonstudy-drug ARV medication with an end date on or one day before the first dose date of study drug will be considered as nonstudy-drug ARV medication received immediately prior to the first dose date of study drug (or pre-switch ARV used).

Nonstudy-drug ARV medication received immediately prior to the first dose date of study drug will be summarized by ARV drug class and generic name for subjects in the Safety Analysis Set. Multiple drug use (by drug class or generic name) will be counted only once per subject. Drug classes will be presented alphabetically and generic names within each drug class will be presented by descending order of total frequency. No inferential statistics will be provided.



## **7.9. Concomitant Non-ARV Medications**

Nonantiretroviral concomitant medications (ie, medications other than study drug that are taken while receiving study drug) will be coded using the WHO Drug Dictionary. The WHO preferred name and drug code will be attached to the clinical database. Use of concomitant medications from Study Day 1 up to the date of last dose of study drug will be summarized (number and percentage of subjects) by preferred name. Multiple drug use (by preferred name) will be counted once only per subject. The summary will be sorted alphabetically by drug class and then by decreasing total frequency within a class.

If the start or stop date of a nonantiretroviral medication is incomplete, the month and year (or year alone if month is not recorded) of the start or stop date will be used to determine whether the non-ARV is concomitant or not as follows. The medication is concomitant if the month and year of start or stop (or year of the start or stop) of the medication do not meet any of following criteria:

- The month and year of start of the medication is after the date of the last dose of study drug
- The month and year of stop of the medication is before the date of the first dose of study drug

If the start and stop date of a non-ARV medication is not missing, the start date is not after last dose date and the stop date is not before first dose date, or the non-ARV medication is marked as ongoing and start date is on or before last dose date, the non-ARV medication is concomitant.

Subjects with any non-ARV concomitant medications will be listed.

## **7.10. Electrocardiogram Results**

The ECG data collected at screening and early study drug discontinuation will be listed.

## **7.11. Other Safety Measures**

Hepatitis test results will be listed. A data listing will be provided for subjects experiencing pregnancy during the study.

## **7.12. Missed and Virtual Visits due to COVID-19**

A summary of subjects affected by the COVID-19 pandemic will be provided for each scheduled study visit. For each visit the summary will present the number and percentage of subjects who completed the visit as per protocol, missed the visit due to COVID-19, had a virtual visit due to COVID-19, or missed the visit for reasons other than COVID-19. For each column, the denominator for the percentage calculation will be the total number of subjects in the safety population for that column.

The determination of missing or virtual visits due to COVID-19 was done using Natural Language Processing (NLP) to search the CRF comment fields. A detailed explanation of the algorithm is given in [Appendix 6](#).

A by-subject listing will be provided by subject ID number in ascending order to support the above summary table.

## **7.13. Changes from Protocol-Specified Safety Analysis**

There is no change from protocol-specified safety analyses.

## 8. PHARMACOKINETICS ANALYSIS

Only intensive PK parameters, intensive PK concentrations and trough PK concentrations will be summarized in this analysis. CCI

Single PK will be included in a future Population PK analysis.

### 8.1. Analysis Methods for Trough PK

Plasma concentration data will be listed for all subjects. EVG, COBI, FTC, TFV trough samples, defined as the sampling time within a range of [20.0, 28.0] hours after observed dosing time, will be marked and included for summary statistics. Spare samples may be used for population PK assessment. Plasma concentrations for TAF will be listed only and will not be summarized.

The following TFLs will be provided for the trough PK sampling:

- Table with individual subject concentration data for EVG, COBI, FTC, TFV
- Listing of PK sampling details
- Listing of study drug administration record for PK dosing.

### 8.2. Statistical Analysis Methods for Intensive PK

The PK parameters for the 5 analytes (ie, TAF, EVG, COBI, FTC, and TFV) will be estimated for all subjects in the Intensive PK Analysis Set.

The PK parameters to be estimated in this study are listed and defined in [Appendix 1](#).

In Cohort 3, the primary endpoints are the PK parameters of  $AUC_{\tau}$  for EVG and TAF. The secondary endpoints include PK parameters of  $C_{\tau}$ ,  $C_{\max}$ , apparent  $CL/F$  and apparent  $V_z/F$  for EVG;  $C_{\max}$ , apparent  $CL/F$  and apparent  $V_z/F$  for TAF;  $AUC_{\tau}$ ,  $C_{\max}$ , and  $C_{\tau}$  for FTC, TFV, and COBI.

### 8.3. Estimation of PK Parameters

The PK parameters will be estimated by application of a nonlinear model using standard noncompartmental methods (WinNonlin<sup>®</sup> software v6.3). The linear up/log down trapezoidal rule will be used in conjunction with the appropriate noncompartmental model (usually input Model 200 for oral dosing), with input values for dose, time of dose, plasma concentration, and corresponding real time values, based on drug dosing times whenever possible.

All baseline (predose) sample times will be assigned a concentration value of 0. Samples below the limit of quantitation of bioanalytical assays that occur prior to the achievement of the first quantifiable concentration will be assigned a concentration of 0 to prevent overestimation of the initial AUC. Samples that are BLQ at all other time points will be treated as missing data. The nominal time point for a key event (eg, urine collection) or dosing interval ( $\tau$ ) may be used to permit direct calculation of AUC over specific time intervals. The appropriateness of this approach will be assessed by the pharmacokineticist on a profile-by-profile basis.

Accurate estimation of several PK parameters, such as  $\lambda_z$ , and  $t_{1/2}$ , are dependent on the measured terminal elimination phase of the drug. The appropriateness of calculating these parameters will be evaluated upon inspection of PK data on a profile-by-profile basis by the pharmacokineticist.

A list of individual data on determination of plasma half-life and corresponding correlation coefficient will be provided, including intensive PK sampling day, number of data points in regression, start time, end time, and correlation coefficient.

## **8.4. Statistical Analysis Methods**

### **8.4.1. General Considerations for Statistical Analyses**

Plasma concentration data will be listed for all dosed subjects and summarized by nominal time point for the Intensive PK analysis set.

The PK parameters estimated for each analyte will be listed for all dosed subjects and summarized for the Intensive PK Analysis Set. For PK parameters, values that are incalculable will be excluded from the summary statistics.

The descriptive statistics (sample size, mean, SD, coefficient of variation [%CV], minimum, median, maximum, Q1, and Q3) will be presented for PK concentration data. The number of subjects with value of BLQ will be presented at each nominal time point.

For some PK parameter data (ie,  $C_{max}$ ,  $C_{tau}$ ,  $AUC_{last}$ ,  $AUC_{tau}$ ,  $CL/F$ , and  $V_z/F$ ), the geometric mean, its 95% CI, and the mean and SD of the natural-log transformed values will be presented in addition to the summaries mentioned above.

Missing plasma concentrations due to missed sample collection will be excluded from the figures, summary statistics, and log-normalized data.

The following tables, figures, and listings (TFLs) will be provided for each analyte for Week 2 intensive PK analysis using the Intensive PK Analysis Set:

- Table of individual subject PK parameters and summary statistics for each analyte
- Listing of the time points used in the calculation of the terminal elimination rate constant  $\lambda_z$  for each analyte
- Listing of PK sampling details by subject including deviations in scheduled and actual draw times and procedures, individual blood sampling time deviations in minutes.
- Listing of study drug administration record for intensive PK dosing

Listing of PK sample details and listing of study drug administration record for the intensive PK samples will be combined for presentation.

## 8.4.2. Statistical Comparative Analysis

To determine whether the low-dose tablet in children achieves similar systemic exposure to that in adults, statistical comparisons will be performed to compare the PK data from the current study with combined adult data included in the Genvoya label. More specifically, the comparisons will be carried out as follows.

- For PK parameters for analytes TAF and TFV, the statistical comparison will be with the 841 E/C/F/TAF-treated adults in Studies GS-US-292-0104 and GS-US-292-0111 who were included in the population PK modeling.
- For PK parameters for analytes EVG, COBI and FTC, the statistical comparison will be with the 19 E/C/F/TAF-treated adults who participated in the GS-US-292-0102 PK substudy.

For TAF, a one-way analysis of variance (ANOVA) model will be fitted to the natural logarithmic transformed values of  $AUC_{\tau}$  (as the primary endpoint),  $AUC_{\text{last}}$ ,  $C_{\text{max}}$  (as the secondary endpoint) respectively with treatment group as a fixed effect. The treatment groups are defined as the test treatment (children in this study) and reference treatment (adults from historical studies).

For EVG, COBI, FTC, and TFV, the PK parameters of  $AUC_{\tau}$ ,  $C_{\text{max}}$ , and  $C_{\tau}$  will be analyzed similarly.

The ANOVA model will be carried out using the PROC MIXED procedure in SAS. An example SAS code is provided below:

```
Proc Mixed;  
  by analyte paramcd;  
  class group subjid;  
  model lnest = group;  
  repeated / group = group;  
  lsmeans group / e diff cl alpha = 0.1;  
  estimate 'Test versus Reference' group 1 1 / cl alpha = 0.10;  
Run;
```

The geometric least-squares means (LS-means) of each treatment group, mean ratio (test/reference) and corresponding 90% CI for each PK parameter (ie,  $AUC_{\tau}$ ,  $C_{\text{max}}$ , and  $C_{\tau}$ ) of the analytes will be reported.

The LSMEANS statement computes LS-means for each treatment group on the natural log scale. These values will then be exponentiated to produce the geometric LS-means on the original linear scale.

The ESTIMATE statement will produce the point estimate and 90% CI on the natural-log scale for the difference between treatments. The test/reference exposure ratio and associated 90% CIs will be calculated by exponentiation of the natural-log scale point estimate and the associated 90% CI lower and upper limits.

For each analyte, 90% CIs for the ratio of the geometric LS (GLS) means of the test (children in this study) and reference (adults from historical studies) treatments will be calculated for  $AUC_{\tau}$ ,  $C_{\tau}$ , and  $C_{\max}$ , consistent with the two 1-sided tests each performed at an alpha level of 0.05 {U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER) 2003}, {U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER) 2001}. The equivalency in PK will be concluded if the 90% CIs are within the equivalence boundaries of 70% to 143%.

In addition, the 95% CIs for the geometric means of apparent  $CL/F$  and  $V_z/F$  will be calculated for TAF, EVG, COBI, FTC, and TFV, and the ratios of the lower and upper bounds of the 95% CIs versus the point estimate of the geometric means will be compared to the interval of 60% to 140% of their respective parameters.

#### **8.5. Changes from Protocol-Specified PK Analysis**

There is no change from protocol-specified PK analyses.

## 9. REFERENCES

- Gordon CM, Bachrach LK, Carpenter TO, Crabtree N, El-Hajj Fuleihan G, Kutilek S, et al. Dual energy X-ray absorptiometry interpretation and reporting in children and adolescents: the 2007 ISCD Pediatric Official Positions. *J Clin Densitom* 2008;11 (1):43-58.
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- Schwartz GJ, Munoz A, Schneider MF, Mak RH, Kaskel F, Warady BA, et al. New equations to estimate GFR in children with CKD. *J Am Soc Nephrol* 2009;20 (3):629-37.
- Smith F, Hammerstrom T, Soon G, Zhou S, Chen B, Mai Y, et al. A meta-analysis to assess the FDA DAVP's TLOVR algorithm in HIV submissions. *Drug Information Journal* 2011;45:291-300.
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- U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER). Guidance for Industry. Statistical Approaches to Establishing Bioequivalence. January, 2001.
- U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER). Guidance for Industry. Bioavailability and Bioequivalence Studies for Orally Administered Drug Products - General Considerations (Revision 1). March, 2003.

## **10. SOFTWARE**

nQuery Advisor<sup>®</sup> (Statistical Solutions Ltd., Version 6.0, Cork, Ireland) will be used for the sample size and power calculation.

SAS<sup>®</sup> (SAS Institute Inc., Version 9.4, Cary, NC) will be used for generating all TFLs.

WinNonlin<sup>®</sup> (Pharsight Corporation Version 6.3, Mountain View, CA) will be used for all PK analyses.

## 11. SAP REVISION

<b>Revision Date (dd month, yyyy)</b>	<b>Section</b>	<b>Summary of Revision</b>	<b>Reason for Revision</b>



## 12. APPENDICES

- Appendix 1. PK Parameters
- Appendix 2. Study Procedures Table
- Appendix 3. Flowchart of US FDA-Defined Snapshot Algorithm
- Appendix 4. Fracture Events
- Appendix 5. COVID-19 and Suspected COVID-19 Infections
- Appendix 6. Determining Missing and Virtual Visits Due to COVID-19
- Appendix 7. Programming Specifications

## Appendix 1. PK Parameters

PK parameters evaluated in this study are listed below.

Parameter	Description
$AUC_{\tau}$	area under the plasma drug concentration versus time curve over the dosing interval
$AUC_{last}$	area under the plasma drug concentration versus time curve from time zero to the last quantifiable concentration
$C_{max}$	maximum observed plasma drug concentration
$C_{\tau}$	observed plasma drug concentration at the end of the dosing interval
CL/F	apparent oral clearance after administration of the drug: at steady state: $CL/F = Dose/AUC_{\tau}$ , where "Dose" is the dose of the drug
$t_{1/2}$	estimate of the terminal elimination half-life of the drug in plasma, calculated by dividing the natural log of 2 by the terminal elimination rate constant ( $\lambda_z$ )
$T_{last}$	time (observed time point) of $C_{last}$
$T_{max}$	time (observed time point) of $C_{max}$
$V_z/F$	apparent volume of distribution of the drug
$\lambda_z$	terminal elimination rate constant, estimated by linear regression of the terminal elimination phase of the plasma concentration of drug versus time curve

**Appendix 2. Study Procedures Table**

Study Procedures	Screening <sup>a</sup>	Baseline (Day 1)	Week 1 (Day 7)	Week 2 <sup>b</sup>	Intensive PK <sup>c</sup>	End of Week <sup>b</sup>								30-Day Follow-up <sup>d</sup>	ESDD <sup>e</sup>
						4	8	12	16	24	32	40	48		
Assent/Informed Consent	X														
Medical History	X														
Adverse Events	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Concomitant Medications	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vital Signs <sup>f</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Complete Physical Exam	X	X								X					X
Symptom Directed Physical Exam <sup>g</sup>			X	X	X	X	X	X	X		X	X			X
Height	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Weight	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Tanner Stage Evaluations <sup>h</sup>		X								X					X
12 lead ECG performed supine	X														
HIV 1 Genotype <sup>i</sup>	X														
Hematology Profile <sup>j</sup>	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Chemistry Profile <sup>k</sup>	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Metabolic Assessments <sup>l</sup>	X <sup>ff</sup>	X <sup>ee</sup>								X					X
Plasma HIV 1 RNA <sup>m</sup>	X	X	X	X		X	X	X	X	X	X	X	X	X	X

**CCI**

Study Procedures	Screening <sup>a</sup>	Baseline (Day 1)	Week 1 (Day 7)	Week 2 <sup>b</sup>	Intensive PK <sup>c</sup>	End of Week <sup>b</sup>								30-Day Follow-up <sup>d</sup>	ESDD <sup>e</sup>
						4	8	12	16	24	32	40	48		
CCI															
Whole Blood Sample (Cohort 3)	X														
CCI															
HBV and HCV Serologies	X														
Urinalysis	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Estimated Glomerular Filtration Rate <sup>o</sup>	X	X	X	X		X	X	X	X	X	X	X	X	X	X
CCI															
Serum Pregnancy Test <sup>q</sup>	X														
Urine Pregnancy Test <sup>q</sup>		X	X	X		X	X	X	X	X	X	X	X	X	X
Dispense Dosing Diary (for Part A subjects, inclusive of Cohort 3)			X <sup>ff</sup>	X											
Review Dosing Diary (For Part A subjects, inclusive of Cohort 3)					X										
Single PK Sampling <sup>r</sup>						X <sup>z</sup>	X	X	X		X <sup>dd</sup>	X <sup>dd</sup>			X
Trough PK Sample <sup>s</sup>			X <sup>ee</sup>	X <sup>ee</sup>		X <sup>ff</sup>				X					X

Study Procedures	Screening <sup>a</sup>	Baseline (Day 1)	Week 1 (Day 7)	Week 2 <sup>b</sup>	Intensive PK <sup>c</sup>	End of Week <sup>b</sup>								30-Day Follow-up <sup>d</sup>	ESDD <sup>e</sup>
						4	8	12	16	24	32	40	48		
Intensive PK Sampling <sup>f</sup>					X										
<b>CCI</b>															
DXA Scan (Lumbar spine & Total Body) <sup>v</sup>		X								X			X		
Bone Safety <sup>w</sup>	X <sup>ff</sup>	X <sup>ee</sup>					X	X		X			X		
Urine Renal Safety <sup>x</sup>	X <sup>ff</sup>	X <sup>ee</sup>					X	X		X			X		
Study Drug Dispensation		X				X	X	X	X	X	X	X	X		
In clinic Dosing <sup>y</sup>		X	X	X		X		X		X			X		
Drug Accountability			X	X	X	X	X	X	X	X	X	X	X		X
Palatability and Acceptability Assessment		X <sup>bb</sup>				X <sup>bb</sup>				X <sup>aa, bb</sup>	X <sup>aa</sup>	X <sup>aa</sup>	X <sup>aa, bb</sup>	X <sup>cc</sup>	X <sup>cc</sup>

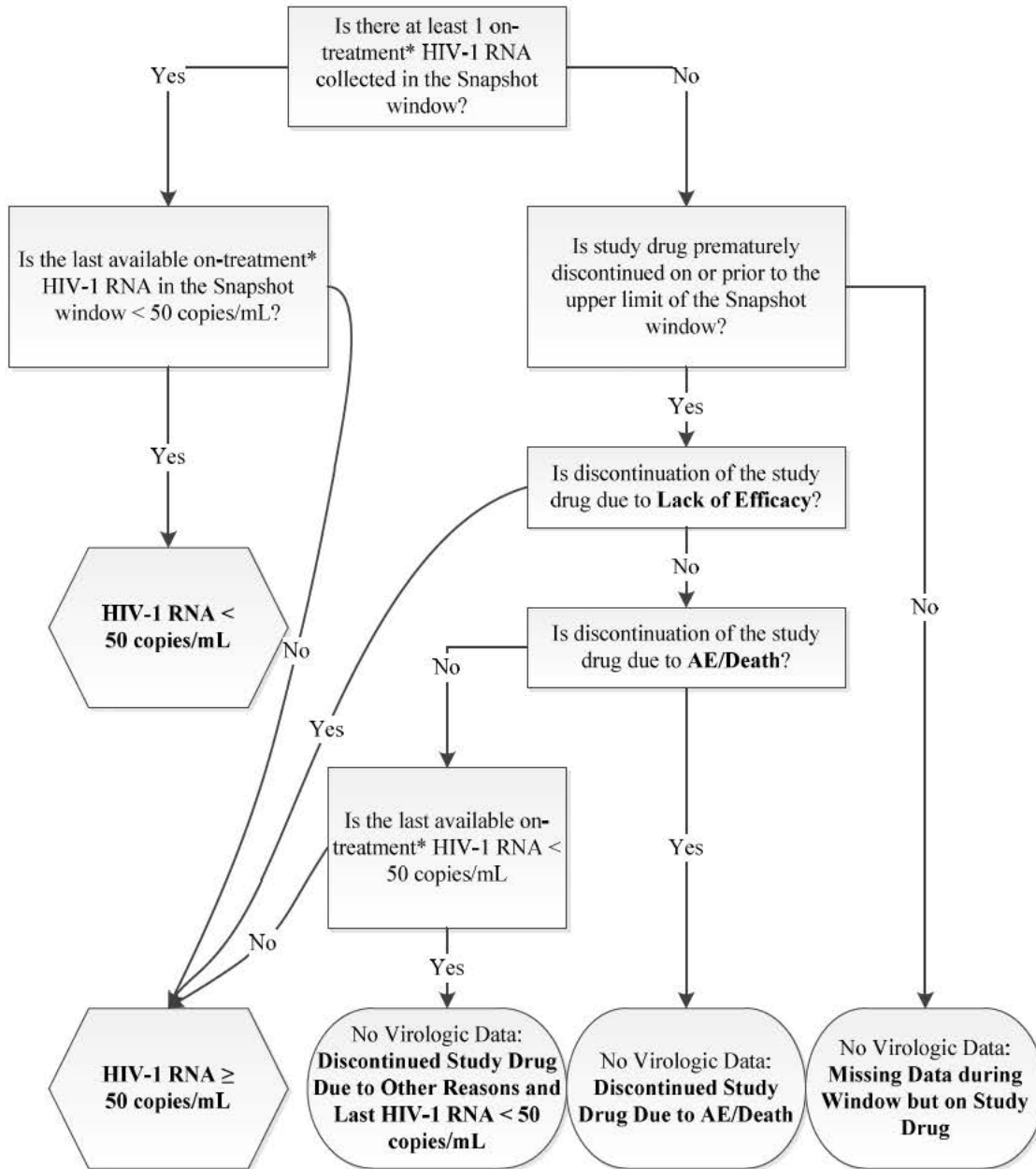
- a Evaluations to be completed within 35 days prior to Baseline (or 42 days for subjects who require repeat testing of the HIV 1 genotype).
- b All study visits are to be scheduled relative to the Baseline/Day 1 visit date. Visit windows are ± 2 days of the protocol specified visit date from Week 2 through Week 8, ± 4 days of the protocol specified visit date from Week 12 through Week 48, **CCI**, unless otherwise specified.
- c Part A subjects only, inclusive of Cohort 3. The Intensive PK evaluation will occur at the Week 4 (Cohorts 1 and 2) or Week 2 (Cohort 3) visit. For the purpose of scheduling the Intensive PK visit, a + 7 days window may be used. If the subject has already dosed prior to the Intensive PK evaluation visit or is not in a fasted state, the Intensive PK assessments must not be completed. The subject should be instructed to return in a fasted state within 7 days of their Week 4 (Cohorts 1 and 2) or Week 2 (Cohort 3) visit for the Intensive PK visit.
- d Only required for those subjects not enrolling in the **CCI** phase of the study or those subjects who permanently discontinue study drug and do not continue in the study through at least one subsequent visit after the Early Study Drug Discontinuation Visit. For the purpose of scheduling a 30 Day Follow Up Visit, a ± 6 days window may be used.
- e ESDD visit should occur within 72 hours of last dose of study drug.
- f Vital signs include blood pressure, pulse, respiration rate, and temperature.
- g Symptom directed physical examinations performed as needed.
- h Tanner assessments will be performed on subjects ≥ 6 years of age and no longer be performed once a subject has been documented as Tanner Stage 5. Tanner stage assessments will be performed **CCI** until subjects reach Tanner Stage 5, after which point Tanner assessments will no longer be performed.

- i Analysis for reverse transcriptase, protease and integrase resistance will be done at Screening. The investigator must have received the results from the Screening genotype before proceeding with the Baseline visit. (Cohort 1 only)
- j CBC with differential and platelet count.
- k Chemistry profile: alkaline phosphatase, AST, ALT, total bilirubin, direct and indirect bilirubin, cystatin C (Cohorts 1 and 2; Baseline, Weeks 2 [Cohort 1 only], 4, 24, and 48), total protein, albumin, bicarbonate, BUN, calcium, chloride, creatinine, glucose, phosphorus, magnesium, potassium, sodium, CPK, and uric acid
- l Fasting glucose and lipid panel (total cholesterol, HDL, direct LDL, triglycerides). CCI  
If the subject has not fasted prior to the visit, the visit may proceed, but the subject must return within 72 hours in a fasted state to draw blood for the metabolic assessments.
- m For Part A subjects (inclusive of Cohort 3), back up samples will not be collected at Weeks 1, 2, and 4 visits for Cohort 1 and at Weeks 1 through 16 for Cohorts 2 and 3. For Part B subjects, back up samples will be collected at all visits.
- n [REDACTED]
- o Estimated GFR using Schwartz Formula ( $\text{mL}/\text{min}/1.73\text{m}^2$ )  $k \times L/S_{\text{cr}}$
- p [REDACTED]
- q Females of childbearing potential only. Positive urine pregnancy tests will be confirmed with a serum test at any visit.
- r Cohort 1: a timed random PK sample collected at Week 4 (Cohort 1 Part B subjects only) and Week 12 (all Cohort 1) between 0.24 4 hours post dose. A random PK sample collected at all other visits through Week 48. Cohort 2: a timed random PK at Week 12 between 0.24 4 hours post dose and Week 8 and Week 16 random single PK sample . Cohort 3: a random timed PK sample collected between 0.25 and 4 hours post dose at Week 8, 12, and 16.
- s Subjects must come into the clinic without taking their dose of E/C/F/TAF STR and subjects should fast overnight (a minimum of 8 hours).. A trough (20 to 24 hours post dose) plasma PK sample will be collected at Weeks 1, 2, and 24 for subjects in Cohort 1 and 2 and Week 48 for Cohort 1 only. For subjects in Cohort 3, a trough sample will be collected at Weeks 4 and 24.
- t Part A subjects only, inclusive of Cohort 3. Intensive PK sampling will be performed on Week 4 (Cohorts 1 and 2) or Week 2 (Cohort 3). For the purpose of scheduling the Intensive PK visit a + 7 days window may be used. If the subject has already dosed prior to the Intensive PK visit or is not in a fasted state, the Intensive PK assessments must not be completed. The subject should be instructed to return within four days for the Intensive PK visit. If dosing non compliance is identified on or prior to the Intensive PK visit, the Intensive PK assessments must not be completed. The subject should be counseled regarding proper dosing and asked to return for the Intensive PK visit no sooner than three days following compliant dosing and no later than Week 4 + 7 days. Please refer to the PK/PBMC manual for sample collection and processing details.
- u [REDACTED]
- v DXA scans to be performed in all eligible subjects prior to study drug administration at Baseline. DXA scan also to be performed Weeks 24 and 48 ( $\pm 10$  days). CCI
- w For Cohorts 1 and 2, bone safety including:  
Serum: bicarbonate, N telopeptide, C telopeptide (CTX), osteocalcin, procollagen type 1 N terminal propeptide (P1NP)  
Urine: bicarbonate, N telopeptide  
For all cohorts, bone safety including:  
Serum: bone specific alkaline phosphatase, parathyroid hormone (PTH), 25OH Vitamin D and 1, 25OH Vitamin D
- x Urine Renal Safety including: urine chemistry, retinol binding protein, and beta 2 microglobulin.
- y All subjects will be given their dose of E/C/F/TAF STR with food. For those subjects that take their medication in the evening, the in clinic dosing will not be performed.
- z Cohort 1 Part B subjects only
- aa To be performed for all Cohort 1 subjects currently on study at their next scheduled visit.
- bb To be performed at Baseline and Week 4 for all Cohort 2 subjects and at Baseline, Weeks 4, 24, and 48 for all Cohort 3 subjects enrolled.
- cc To be performed at ESDD or 30 Day Follow Up visit for either Cohort 1 or 2, as applicable.
- dd Cohort 1 subjects only
- ee Cohort 1 and 2 subjects only
- ff Cohort 3 subjects

CCI

### Appendix 3. Flowchart of US FDA-Defined Snapshot Algorithm

The following flowchart for US FDA-defined snapshot algorithm in switch trial is based on the US FDA Guidance on Human Immunodeficiency Virus-1 Infection: Developing Antiretroviral Drugs for Treatment {U. S. Department of Health and Human Services et al 2015}.



\* On-treatment data include all data collected up to 1 day after permanent discontinuation of study drug or all available data for subjects who were still on study drug.

#### **Appendix 4. Fracture Events**

The selected PTs from the SMQ of osteoporosis/osteopenia and HLGT of fractures based on clinical review are listed as follows.

<b>Selected PTs Based on SMQ of Osteoporosis/Osteopenia and HLGT of Fractures</b>
Acetabulum fracture
Ankle fracture
Atypical femur fracture
Atypical fracture
Avulsion fracture
Bone fissure
Bone fragmentation
Cervical vertebral fracture
Chance fracture
Clavicle fracture
Closed fracture manipulation
Comminuted fracture
Complicated fracture
Compression fracture
Craniofacial fracture
Epiphyseal fracture
External fixation of fracture
Facial bones fracture
Femoral neck fracture
Femur fracture
Fibula fracture
Flail chest
Foot fracture
Forearm fracture
Fracture
Fracture displacement
Fracture of clavicle due to birth trauma
Fracture treatment
Fractured coccyx



---

**Selected PTs Based on SMQ of Osteoporosis/Osteopenia and HLGTT of Fractures**

---

Fractured ischium

---

Fractured sacrum

---

Fractured skull depressed

---

Greenstick fracture

---

Hand fracture

---

Hip fracture

---

Humerus fracture

---

Ilium fracture

---

Impacted fracture

---

Internal fixation of fracture

---

Jaw fracture

---

Limb fracture

---

Lisfranc fracture

---

Lower limb fracture

---

Lumbar vertebral fracture

---

Multiple fractures

---

Open fracture

---

Open reduction of fracture

---

Open reduction of spinal fracture

---

Osteochondral fracture

---

Osteoporotic fracture

---

Patella fracture

---

Pathological fracture

---

Pelvic fracture

---

Periprosthetic fracture

---

Pubis fracture

---

Radius fracture

---

Rib fracture

---

Sacroiliac fracture

---

Scapula fracture

---

Scapulothoracic dissociation

---

Skull fracture

---

Skull fractured base

---

---

**Selected PTs Based on SMQ of Osteoporosis/Osteopenia and HLGTT of Fractures**

---

Spinal compression fracture

---

Spinal fracture

---

Sternal fracture

---

Stress fracture

---

Tartrate-resistant acid phosphatase decreased

---

Thoracic vertebral fracture

---

Tibia fracture

---

Torus fracture

---

Traumatic fracture

---

Ulna fracture

---

Upper limb fracture

---

Vertebroplasty

---

Wrist fracture

---

Vertebral body replacement

---

**Note:** AEs are coded by MedDRA 23.0.

---

## Appendix 5. COVID-19 and Suspected COVID-19 Infections

---

### Selected PTs

---

SARS-CoV-2 test positive

---

COVID-19 immunisation

---

COVID-19 prophylaxis

---

Exposure to SARS-CoV-2

---

Occupational exposure to SARS-CoV-2

---

COVID-19 treatment

---

SARS-CoV-2 test false negative

---

SARS-CoV-2 carrier

---

Coronavirus test positive

---

SARS-CoV-1 test positive

---

Asymptomatic COVID-19

---

Coronavirus infection

---

COVID-19

---

COVID-19 pneumonia

---

Severe acute respiratory syndrome

---

Suspected COVID-19

---

**Note:** AEs are coded by MedDRA 23.1.

## Appendix 6. Determining Missing and Virtual Visits Due to COVID-19

This appendix describes the site collection of COVID-19 data as pertains to missed/virtual visits and the data processing algorithm used to determine which visits were missing and which visits were virtual.

### Data collection

A COVID-19 supplement to the eCRF Completion Guidelines (CCG) was provided by data management to instruct clinical trial sites with respect to data entry expectations pertaining to scenarios related to the COVID-19 pandemic. If a visit was missed, sites should enter “Visit missed due to COVID-19.” If a visit which was to be conducted in-person was conducted virtually, sites should enter “Virtual visit due to COVID-19.”

### Determination of Missed and Virtual visits

Natural Language Processing (NLP) was used to search the CRF comment fields to identify instances of “COVID-19” (or synonyms, see [Table X 1](#)) and “Virtual” (or synonyms, see [Table X 1](#)). The search terms are maintained in a global lookup and can be modified and/or corrected to tune the NLP model. For each comment field the following algorithm was applied:

**STEP 1:** Eliminate extraneous text from each comment field, e.g. “and”, “or”, “for”, etc. This is done using the list of extraneous terms given in [Table X 2](#).

**STEP 2:** Check each of the remaining comment text strings against the “COVID-19” terms and “Virtual” terms with the Levenshtein distance, using SAS function COMPGED (Computes a generalized edit distance using the Levenshtein operations to compute/summarize the degree of difference between two text strings):

- i. If Levenshtein distance < 149 for any of the “COVID-19” terms then COVIDFL = 1,  
else COVIDFL = 0
- ii. If Levenshtein distance < 149 for any of the “Virtual” terms then VIRTFL = 1,  
else VIRTFL = 0

**STEP 3:** For any comments with COVIDFL = 1, assign “Missed visit” or “Virtual visit as follows

- i. IF COVIDFL = 1 and the visit date is missing then result is ‘Missed Visit’
- ii. IF COVIDFL = 1 and VIRTFL = 1 then result is ‘Virtual Visit’
- iii. Otherwise result is missing

**Table X 1. Examples of search terms for “COVID-19” and “Virtual” used to identify missed and virtual visits.**

Search terms for “COVID-19”	Search terms for “Virtual”
COVID19	VIRTUAL
CORONA	TELEMED
CORONAVIRUS	TELEHEALTH
PANDEMIC	TELEPHONE
OUTBREAK	REMOTE
CRISIS	TELEMEDICINE
LOCKDOWN	TELECONSULTATION
QUARANTINE	TELEPHONICALLY
SHELTER	PHONE
	HOME VISIT
	ZOOM
	SKYPE

**Table X 2. Examples of extraneous text terms to eliminate from the comment fields.**

a	down	in	she'd	until
about	during	into	she'll	up
above	each	is	she's	very
after	few	it	should	was
again	for	its	so	we
against	from	it's	some	we'd
all	further	itself	such	we'll
am	had	i've	than	were
an	has	let's	that	we're
and	have	me	that's	we've
any	having	more	the	what
are	he	most	their	what's
as	he'd	my	theirs	when
at	he'll	myself	them	when's
be	her	nor	themselves	where
because	here	of	then	where's
been	here's	on	there	which
before	hers	once	there's	while
being	herself	only	these	who
below	he's	or	they	whom
between	him	other	they'd	who's
both	himself	ought	they'll	why
but	his	our	they're	why's
by	how	ours	they've	with
could	how's	ourselves	this	would
did	i	out	those	you
do	i'd	over	through	you'd
does	if	own	to	you'll
doing	i'll	same	too	your
down	i'm	she	under	you're
	you've	yourself	yourselves	yours

## Appendix 7. Programming Specifications

### General Conventions

- 1) The standard mock tables ([http://gnet/biometrics/stat/doc/Standard%20TFL\\_Final%20GNET%202009%2005%2015.doc](http://gnet/biometrics/stat/doc/Standard%20TFL_Final%20GNET%202009%2005%2015.doc)) are default outputs developed based on standard CRF and standard SAP template. Changes to the CRFs or SAP may warrant changes to these outputs.
- 2) Italicized text in the mocks indicates that the entry is either optional or can be replaced by a more suitable term depending on the content.
- 3) Whenever possible, do not reference footnote by symbol within the body of the table and table title unless it greatly improves the clarity.
- 4) Titles should not exceed 128 characters (including the word “table,” the table number, punctuation, and spaces). If a title must exceed 128 characters, key descriptive information should be presented in the first 128 characters.
- 5) For completeness, please always include all the possible categories on standard CRF, including those with zero counts.
- 6) Treatment groups will be ordered as Gilead product in the first and then the rest of active control groups in alphabetical order, and placebo in the last column. Within each treatment, dose level will be in ascending order. Separate column for total or subtotal are allowed if space permits depending on study design, eg, a subtotal column could combine dose levels within the same treatment.
- 7) The ordering of these mock tables is the default ordering in the TFLs, ie, enrollment, disposition, demographic, baseline data, efficacy, drug exposure, and safety.
- 8) Number TFLs consecutively and do not use decimal numbering for unique items.
- 9) A maximum of three titles and seven footnotes is allowed. Additional lines document the date of date extraction, source of SAS program, output files, and date-time of outputs generated.
- 10) The precision in reporting numerical values should be as follows:
  - a) Raw measurements will be reported the same as the data captured electronically or on the CRFs.
  - b) Standard deviation and standard error will be reported to one more significant decimal place than the raw measurement.
  - c) Mean, median, minimum, Q1, Q3, maximum, 95% CIs will be reported to the same number of decimal places as the raw measurements.
  - d) Exceptions may be considered; for example if more than 4 significant digits are provided for the measurement.

11) The number of decimal places in reporting p-values should be as follows:

- a) Values Less than 0.0001 → < 0.0001
- b) Values 0.0001 and greater → round to 4 decimal places

12) For lab summaries, tests will be grouped as Chemistry, Hematology, and Urinalysis. Disease related biomarkers, eg, bone biomarkers, will be grouped separately. Summaries will be sorted alphabetically by test within group.

13) Study day calculation: if visit date ≥ first dose date, study day = visit date - first dose date + 1. If visit date < first dose date, study day = visit date - first dose date.

### Other Definitions

1) AGE is calculated as follows:

- a) AGE (years) is calculated from the number of days between the date of birth (DOB) and Day 1 (first dose date),
- b) Use the SAS INTCK function to determine the number of “1st-of-month days” (eg, January 1st, February 1st, March 1st) between DOB and Day 1 (inclusive),
- c) Divide the result in (b) by 12,
- d) AGE = the integer of the result in (c),
- e) If the DOB and Day 1 have the month in common and the birthday is later in the month than the date of Study Day 1, then subtract one from the AGE result above.
- f) For subjects who are enrolled and never dosed with study drug, AGE is calculated based on the date of enrollment.

2) All screened subjects refers to all subjects who are screened and have a screening number. For summarization, same subject is counted only once. DOB and other demographic information such as gender, race, and ethnicity will be used for identifying unique screened subjects.

3) Screen failure subjects are the subjects who answered “Yes” to “Was subject a Screen Failure?” in informed consent and eligibility criteria eCRF.

4) BMI is calculated from height in meters (eg, height in cm/100) and weight in kilograms as:

$$\text{BMI} = (\text{weight [kg]} / (\text{height [meters]}^2))$$

BSA is calculated as:

$$\text{BSA} = \sqrt{\text{height [meters]} \times \text{weight [kg]} / 3600}$$



- 5) For HIV test using HIV Taqman kit, if a value is reported as “< 20 cp/mL HIV-1 RNA Detected” or “No HIV-1 RNA detected”, a numeric value of 19 will be used for summary purpose.
- 6) For direct bilirubin, a value of “< 0.1” will be treated as 0.09 for calculation of summary statistics {[Nehls et al 1973](#)}.
- 7) Generally for AE summary tables, SOC and PT will be included in all treatment-emergent AE tables.
- 8) Last Dose Date has been defined in Section [3.7.1](#).

#### **Last Dose Date Imputation for Subjects Who Prematurely Discontinued Study or Completed Study**

- For subjects with a **partial** last dosing date (ie, month and year of last dose are known), use the maximum of the dispensing dates of study drug bottles, study drug start dates and end dates, the imputed last dose date (day imputed as 15) to impute the final last dose date. However if dispensing date’s month is after last dose date’s month, data query is needed.
- If the date of last dose is **missing** (ie, only year of last dose is known or completely missing due to lost to follow-up), use the maximum of study drug start dates and end dates, clinical visit dates, and laboratory visit dates excluding the 30-day follow-up visit to impute the last dose date.

#### **Last Dose Date Imputation for Ongoing Subjects (for the Purpose of Duration of Exposure)**

- If subjects are still on study drug (ie, defined as subjects who do not have study drug completion eCRF filled out), the last dose date will be estimated as follows:
- If the last record in the study drug administration eCRF has a nonmissing study drug end date, the estimated last dose date will be the last study drug end date.
- If the last record in the study drug administration eCRF has a missing end date, the estimated last dose date will be the maximum of nonmissing study drug start dates and end dates, the clinical visit dates, and the laboratory visit dates excluding the date of 30-day follow-up visit.

#### 9) Last Study Date

Last Study Date is the maximum of nonmissing study drug start dates and end dates, clinic visit and laboratory visit dates, including the 30-day follow-up visit date for subjects who prematurely discontinued study or who completed study according to study completion eCRF. Please note, if study drug start date or end date is partially missing, the imputed date (day imputed as 15) will be used.

10) Toxicity Grades:

- a) With regards to metabolic assessment of lipids tests (triglycerides, total cholesterol, and LDL cholesterol), if the fasting status is 'N' or blank, the lab test values will not be graded as non-fasting values are not interpretable.
- b) For the summary of the toxicity graded tests, all post-baseline graded results (not just those at summarized visits) up to 30 days after the last dose of study drug will be included.
- c) For hematuria grading, the laboratory reports both dipstick results (urine blood test with values of 1+, 2+, etc) and quantitative results (urine RBC test with a unit of /HPF), only summarize toxicity grades of the quantitative (urine RBC) results, but list the grades from both tests.

11) In the listing for virologic outcomes using snapshot algorithm, flag all HIV-RNA records that are used in determining snapshot outcomes including the following:

- HIV-1 RNA < 50 copies/mL - the last available HIV-1 RNA value in the snapshot analysis window of < 50 copies/mL
- HIV-1 RNA ≥ 50 copies/mL - the last available HIV-1 RNA value in the snapshot analysis window of ≥ 50 copies/mL
- HIV-1 RNA > 50 copies/mL - the last available HIV-1 RNA value of > 50 copies/mL if subjects discontinued study drug due to AE or Death
- No Virologic Data - the last available HIV-1 RNA value of < 50 copies/mL if subjects discontinued study drug due to AE or Death

12) "On-treatment" data in the SAP refer to the data on or prior to the date of permanent discontinuation of study drug (eg, last dose date). For subjects who are ongoing on study drug, "on-treatment" data refer to all data up to the data cut for the analysis.

CCI [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

14) For HIV-1 RNA Missing Failure or Missing Excluded analysis:

Missing Failure when

- The subject has a visit after the missing.
- The subject is missing HIV-1 RNA because he has already discontinued the study drug.
- The subject came for a lab visit for that visit but the HIV-1 RNA value is missing (e.g. sample issue).

Missing is excluded from the denominator when

- For ongoing subjects, HIV-1 RNA is missing and upcoming visit has not happened yet (excluding ongoing subjects who haven't reached the upper limit of the analysis window for corresponding visit).
- This subject has neither baseline nor postbaseline lab data.
- 'Have not reached the upper limit of that analysis window for the corresponding visit' refers to: the latest lab collection date  $\text{first dose date} + 1 < \text{the upper limit of the analysis window for a visit}$ .

15) TEAE

**Events with Missing Onset Day and/or Month**

The event is treatment emergent if the following 3 criteria are met:

- The month and year (or year) of onset date is the same as or after the month and year (or year) of the first dose of study drug, and
- The month and year (or year) of the onset date is the same as or before the month and year (or year) of 30<sup>th</sup> day after the date of the last dose of study drug, and
- End date is as follows:
  - The (complete) end date is on or after the first dose date, or
  - The month and year (or year) of end date is the same or after the month and year (or year) of the first dose of study drug, or
  - End date is completely missing

### **Events with Completely Missing Onset Date**

An AE with a completely missing onset date is defined as TEAE if end date is as follows:

- The (complete) end date is on or after the first dose date, or
- The month and year (or year) of end date is the same or after the month and year (or year) of the first dose of study drug, or
- End date is completely missing

#### 16) LDL: Conversions between 2<sup>nd</sup> and 3<sup>rd</sup> generations

LDL was analyzed by 2 different assays in the study: 2nd generation (including RCT2394, RCT2312, and RCT2811) and 3rd generation (RCT3870). Samples collected at earlier visits were analyzed using LDL 2nd generation assay. Samples collected at later visits were analyzed using LDL 3rd generation assay. The conversion formulas are as follow:

$$\text{2nd Gen (mmol/L)} = (\text{3rd Gen} - 0.0626)/0.882$$

$$\text{3rd Gen (mmol/L)} = (0.882 \times \text{2nd Gen}) + 0.0626$$

For this analysis, since LDL samples were analyzed by 2nd generation assay at Baseline, we only requested conversion from 3rd generation to 2nd generation.

For the analysis of change from baseline in fasting direct LDL: the sample analyzed by LDL 3rd generation assay will be converted to 2nd generation as a new record with test codes of LIP.LDL.00.02 in raw data. During ADaM stage, a derived parameter code (FLDL2) for “Fasting LDL Cholesterol 2ND GEN Combined” will be generated to pool the records from both original (including test codes RCT2394, RCT2312, and RCT2811) and converted (LIP.LDL.00.02) 2nd generation results to calculate the change from baseline in fasting direct LDL.

For the analysis of toxicity grade for fasting direct LDL: toxicity grade will be based on the Gilead grading results (ie, toxgrg) from original values before conversion. In other words, during ADaM stage, a derived parameter code (FLDLTOX) for “Fasting LDL Cholesterol for Toxicity” will be generated to pool the records from 2nd generation (including RCT2394, RCT2312, and RCT2811) and 3rd generation (ie, RCT3870) to derive treatment-emergent toxicity grades, maximum postbaseline toxicity grades, etc.

## SAP for GS-US-292-0106 Interim 6 Analysis

### ELECTRONIC SIGNATURES

Signed by	Meaning of Signature	Server Date (dd-MMM- yyyy hh:mm:ss)
PPD	Clinical Research eSigned	25-Nov-2020 18:18:04
PPD	Biostatistics eSigned	25-Nov-2020 22:55:25