

CLINICAL RESEARCH IN INFECTIOUS DISEASES

STATISTICAL ANALYSIS PLAN

for

DMID Protocol: 17-0101

Study Title:

**A Phase 4 Comparative Trial of Benzathine Penicillin
G 2.4 Million Units Administered as a Single Dose
versus Three Successive Weekly Doses for Treatment
of Early Syphilis in Subjects with or without HIV
Infection**

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STUDY TITLE

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LIST OF ABBREVIATIONS

AE	Adverse Event
ALT	Alanine Aminotransferase
AST	Aspartate Aminotransferase
BP	Blood Pressure
BPG	Benzathine Penicillin G
BUN	Blood Urea Nitrogen
C	Celsius
CI	Confidence Interval
CRF	Case Report Form
DMID	Division of Microbiology and Infectious Diseases
DSMB	Data and Safety Monitoring Board
EDC	Electronic Data Capture
ELISA	Enzyme-linked Immunosorbent Assay
ER	Emergency Room
F	Fahrenheit
GGT	Gamma Glutamyl Transferase
GMT	Geometric Mean Titer
GMFR	Geometric Mean Fold Rise
ICH	International Conference on Harmonisation
IRB	Institutional Review Board
ITT	Intention to Treat
L	Liter
LLN	Lower Limit of Normal
mcg	Microgram
MedDRA	Medical Dictionary for Regulatory Activities
mEq	Milliequivalent
mg	Milligram
mITT	Modified Intention to Treat
mL	Milliliter
MAR	Missing at Random
MCAR	Missing Completely at Random

List of Abbreviations *(continued)*

MNAR	Missing Not at Random
N	Number (typically refers to subjects)
NIH	National Institutes of Health
PI	Principal Investigator
PP	Per Protocol
PT	Preferred Term
RBC	Red Blood Cell
RCD	Reverse Cumulative Distribution
RPR	Rapid Plasma Reagin
SAE	Serious Adverse Event
SD	Standard Deviation
SDCC	Statistical and Data Coordinating Center
SMC	Safety Monitoring Committee
SOC	System Organ Class
SOP	Standard Operating Procedures
TFL	Tables, figures, and listings
TPPA	Treponema pallidum Particle Agglutination
U	Units
ULN	Upper Limit of Normal
WBC	White Blood Cell
WHO	World Health Organization

1. PREFACE

The Statistical Analysis Plan (SAP) for “A Phase 4 Comparative Trial of Benzathine Penicillin G 2.4 Million Units Administered as a Single Dose versus Three Successive Weekly Doses for Treatment of Early Syphilis in Subjects with or without HIV Infection” (DMID Protocol 17-0101) describes and expands upon the statistical information presented in the protocol.

This document describes all planned analyses and provides reasons and justifications for these analyses. It also includes sample tables, figures, and listings (TFL) planned for the final analyses. Regarding the final analyses and Clinical Study Report (CSR), this SAP follows the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) Guidelines, as indicated in Topic E3 (Structure and Content of Clinical Study Reports), and more generally is consistent with Topic E8 (General Considerations for Clinical Trials) and Topic E9 (Statistical Principles for Clinical Trials). This SAP also follows the FDA guidance regarding the COVID-19 public health emergency. 1. Contingency measures implemented to manage study conduct during disruption of the study as a result of COVID-19 control measures. 2. All participants affected by the COVID-19 will be highlighted. 3. Analyses and corresponding discussions that address the impact of implemented contingency measures. 4. Any protocol deviation due to COVID-19 will be documented.

The structure and content of the SAP provides sufficient detail to meet the requirements identified by the FDA and ICH, while all work planned and reported for this SAP will follow internationally accepted guidelines published by the American Statistical Association and the Royal Statistical Society for statistical practice.

This document contains four sections: (1) a review of the study design, (2) general statistical considerations, (3) comprehensive statistical analysis methods for efficacy and safety outcomes, and (4) a list of proposed tables and figures. Within the table, figure, and listing mock-ups (Appendices [Appendix 1](#), [Appendix 2](#), and [Appendix 3](#)), references to CSR sections are included. Any deviation from this SAP will be described and justified in protocol amendments and/or in the CSR, as appropriate. The reader of this SAP is encouraged to also review the study protocol for details on conduct of the study and the operational aspects of clinical assessments.

2. INTRODUCTION

2.1. Study background

Despite syphilis being a major public health problem for well over a century, and its treatment recommendations being unchanged for nearly 50 years, questions about syphilis and its management are amongst the most common questions to arise regarding sexually transmitted infections (STIs). The human immunodeficiency virus (HIV) epidemic has compounded these problems, as syphilis is now appreciated as both a risk marker and risk factor for HIV acquisition, and case reports and uncontrolled case series have led to recurring, unresolved questions regarding the optimal management of syphilis with respect to treatment regimens, serological follow-up, and risks for treatment failure^[2]. Syphilis in the US is resurging, with rates of primary and secondary (P&S) syphilis increasing by 74% from 2012 to 2016 and disproportionately among HIV-infected persons^[3]. Further rising P&S rates in women led to a 28% increase in congenital syphilis cases in the US between 2015 and 2016^[4]. No large prospective studies in the US have provided data on outcomes of recommended single-dose penicillin therapy versus widely used but unstudied multiple-dose therapy for persons with early syphilis and HIV co-infection for over 30 years. In addition, there are no contemporary data describing serological responses to syphilis therapy at >6 months following therapy, raising questions as to how to best follow the ~20% of “serofast” patients who fail to serologically respond at >6 months following therapy. These questions represent a pressing public health need that is best addressed through a multicenter, randomized clinical trial (RCT).

Infections due to *Treponema pallidum* are the third most commonly reported infection in the US and are a global public health priority. Currently, P&S syphilis rates in the US are increasing faster than for any other reportable STI, and over half of P&S syphilis cases in men who have sex with men (MSM), the group that accounts for most new cases, are occurring among persons with HIV co-infection^[4]. Untreated syphilis is a significant cause of morbidity in children born to mothers with untreated infection, may cause serious neurological or cardiovascular disease, and is both a proven risk factor and risk marker for HIV acquisition. Syphilis also remains a glaring example of STI health disparities, with P&S syphilis rates among African Americans in the US being more than six times those of non-Hispanic whites^[5].

Penicillin is currently the only recommended treatment for syphilis (alternative therapies may be used in persons with penicillin allergy^[6]). However, recent studies have shown that ~20% of persons treated for early syphilis with recommended, single-dose BPG 2.4 MU are “serofast” (do not show the desired 4-fold decline in serological test for syphilis titers 6 months following therapy)^[6, 7], and concerns have been raised as to whether this regimen adequately treats early syphilis in HIV-infected persons. A well-conducted, multicenter RCT in the 1990s showed that higher doses of penicillin given in combination with the recommended BPG regimen did not significantly change the serological response to therapy at 3, 6, or 12 months^[7], but there are no RCTs evaluating whether a longer duration of BPG therapy improves the serological response to therapy among persons with or without HIV infection. While this earlier study addressed questions regarding daily penicillin doses for early syphilis treatment, the question of duration remains unresolved. As a result, there is substantial variation in the treatment of early syphilis, with many providers using multiple injected doses of BPG or treating serofast persons who have no evidence of active infection.

2.2. Purpose of the Analyses

These analyses will assess the efficacy and safety of a single dose or three successive weekly doses regimen of Benzathine Penicillin G 2.4 Million units for the treatment of early Syphilis in subjects with or without HIV infection and will be included in the clinical study report.

3. STUDY OBJECTIVES AND ENDPOINTS

3.1. Study Objectives

3.1.1. Primary Objective

To compare the serological response to therapy in subjects with early (primary, secondary, or early latent) syphilis treated with BPG 2.4 MU once or weekly for three successive weeks

3.1.2. Secondary Objectives

1. To determine if the difference in response to therapy between treatment arms by Month 6 differs among subjects with or without HIV infection
2. To determine the impact of multiple BPG injected doses on subject compliance with study product and adherence to scheduled visits
3. To determine the incidence and manifestations of the Jarisch-Herxheimer reaction among subjects treated for early syphilis with BPG
4. To collect prospective data up to Month 12 on the serological response to therapy in subjects treated for early syphilis with either BPG regimen
5. To compare epidemiological characteristics of early syphilis among subjects with or without HIV infection

3.2. Study Outcome Measures

3.2.1. Primary Outcome Measure

The proportion of subjects in each treatment group with a 4-fold decline in rapid plasma reagin (RPR) titers or seroreversion, simultaneously measured in sera collected throughout study participation at a single reference laboratory, by Month 6

3.2.2. Secondary Outcome Measures

1. The proportion of subjects in each treatment group with a 4-fold decline in RPR titers or seroreversion by Month 6 among subjects with or without HIV infection
2. The proportion of subjects in each treatment group with a 4-fold decline in RPR titers or seroreversion by Month 12
3. The proportion of subjects in each treatment group with a 4-fold decline in RPR titers or seroreversion by Month 12 among subjects with or without HIV infection
4. The proportion of subjects (overall and in each treatment group) who receive all assigned doses within the assigned visit windows
5. The proportion of subjects in each treatment group who report Jarisch-Herxheimer reaction manifestations (fever, intensification of rash, myalgia, and other systemic symptoms) occurring within approximately 24 hours of initial BPG administration
6. Demographics, sexual history, and socio-epidemiologic characteristics at baseline and sexual history through Months 6 and 12 among subjects with or without HIV infection and overall

3.3. Study Definitions and Derived Variables

3.3.1. Serological Response to Therapy

3.3.1.1. Primary Outcome Analysis

For the primary analysis, serological response to therapy by Month 6 will be defined as follows, where available RPR results from all visits prior to the end of month 6 visit window (i.e. scheduled visits up to and including the Month 6 visit, early termination visit, or any unscheduled visit that occurred prior to the end of month 6 visit window), will be evaluated:

- 4-fold or greater decline in RPR titer at any visit prior to the end of month 6 visit window compared to baseline, OR
- RPR-negative at any visit prior to the end of month 6 visit window (i.e., seroreversion).

It is possible that a subject reaches 4-fold decline in RPR titer at an earlier visit but increases again later to less than 4-fold decline. In this case, it will be classified as a serological response.

For the primary analysis, subjects who do not meet either of the above criteria will be classified as not experiencing serological response by Month 6. For subjects who have received BPG through the study and subsequently require retreatment for syphilis infection (i.e., per the local clinic's standard protocols), data collected after retreatment will not be used for analyses. See Section 6.5 for appropriate handling of visits with missing RPR test and titer results.

3.3.1.2. Secondary Outcome Analysis

For the secondary analysis, serological response to therapy by Month 12 will be defined as follows, where available RPR results from all visits prior to the end of Month 12 visit window (i.e. scheduled visits and early termination visit that occurred between scheduled visits up to and including the Month 12 visit), will be evaluated:

- 4-fold or greater decline in RPR titer at any visit prior to or including the Month 12 compared to baseline, OR
- RPR-negative at any visit prior to or including the Month 12 (i.e., seroreversion).

It is possible that a subject reaches 4-fold decline in RPR titer at an earlier visit but increases again later to less than 4-fold decline. In this case, it will be classified as a serological response.

For the secondary analysis, subjects who do not meet either of the above criteria will be classified as not experiencing serological response by Month 12. For subjects who have received BPG through the study and subsequently require retreatment for syphilis infection (i.e., per the local clinic's standard protocols), data collected following retreatment will not be used for analyses. See Section 6.5 for appropriate handling of visits with missing RPR test and titer results.

3.3.1.3. Sensitivity Analysis for the Primary Outcome

We are going to do two sensitivity analyses for the primary outcome.

1. Due to the COVID-19 pandemic, a certain number of subjects discontinued the study treatment or early terminated from the study. If these subjects do not have enough data to demonstrate serological response, they will be classified as failure. By removing these subjects from the analysis, we will

reduce cases of false failure. This analysis will be performed with ITT, mITT and evaluable populations

2. For the second sensitivity analysis of the primary outcome, serological response to therapy by Month 6 will be defined as follows, where available RPR results from the last available visit prior to the end of month 6 visit window (i.e. scheduled visits up to and including the Month 6 visit and early termination visit that occurred prior to the end of month 6 visit window), will be evaluated:
 - 4-fold or greater decline in RPR titer at the last available visits prior to the end of month 6 visit window compared to baseline, OR
 - RPR-negative at the last available visit prior to the end of month 6 visit window (i.e., seroreversion).

In this definition, if a subject reaches 4-fold decline in RPR titer at an earlier visit but increases again later to less than 4-fold decline, they will be classified as a serological non-response.

3.3.1.4. Exploratory Analysis for the Primary Outcome

Exploratory analyses of the primary outcome will consider the following alternative serological response classifications:

- Response:
 - 4-fold or more decline in RPR titer at any visit prior to the end of month 6 visit window compared to baseline,
 - or
 - RPR-negative (i.e., seroreversion) at any visit prior to the end of month 6 visit window.
- Non-Response:
 - RPR-positive at all visits,
 - and
 - Less than 4-fold decline in RPR titer at all visits prior to the end of month 6 visit window compared to baseline,
 - and
 - Less than 4-fold increase in RPR titer at all visits prior to the end of month 6 visit window
- Failure:
 - 4-fold or greater increase in RPR titer without a clear history of re-exposure at any visit prior to the end of month 6 visit window,
 - and
 - Less than 4-fold decline in RPR titer at all visits compared to baseline.

3.3.2. Treatment Adherence

All BPG injections will be directly observed by the administering clinician. Compliance with study product will be defined as the subject received all assigned doses within the assigned visit windows. A subject is not adherent to study product if they miss at least one dose or receive at least one dose out of the visit window. An exception to this rule is that a subject is considered as compliant to the study product if they received all

doses according to the schedule they were given, even if the schedule itself might be out of the normal visit window.

3.3.3. Jarisch-Herxheimer Reaction

Approximately 24 - 48 hours after Visit 1, subjects are contacted and evaluated for symptoms of a Jarisch-Herxheimer reaction. The symptoms of a Jarisch-Herxheimer reaction include feverishness, chills, myalgia, weakness, flushing, worsening of skin rash, tachycardia (i.e., fast heartbeat), heart palpitations, arthralgia, nausea, headache, and dizziness. The incidence and severity of each symptom will be reported.

3.3.4. Baseline Value

The baseline value will be defined as the last value obtained prior to the first dose of study product. If a subject did not receive any dose, the enrollment date will be used as the first dose date for any determinations. For efficacy outcomes, the baseline value which is simultaneously measured in sera collected throughout study participation at a single reference laboratory will be used as baseline when calculating the serological response. The HIV status at baseline was determined by a two-step process. Firstly, the participant will be asked if she/he has a known HIV positive status, if the answer is yes, then baseline HIV status will be classed as positive. If the participant indicates that their status is not known to them, usually an HIV test is performed to determine the HIV status at baseline. But if a HIV test wasn't performed at baseline, the HIV status at baseline will be unknown.

4. INVESTIGATIONAL PLAN

4.1. Overall Study Design and Plan

This is a Phase 4, open-label, multicenter trial to evaluate the efficacy of a single injected dose of BPG 2.4 MU (Arm 1) compared to three successive weekly injected doses of BPG 2.4 MU (Arm 2) for treatment of early syphilis in HIV-infected and HIV-uninfected subjects. Subjects are aged 18 years or older with untreated early syphilis (primary, secondary, or early latent as defined in prior syphilis treatment trials of the Sexually Transmitted Infections Clinical Trials Group (STI CTG)). The study is conducted at 10 sites in the US and will enroll approximately 560 subjects to achieve 420 evaluable.

The study involves a screening/enrollment visit and seven scheduled follow-up visits (Weeks 1 and 2, and Months 1, 3, 6, 9, and 12) over a 12-month period. At the enrollment visit, after providing informed consent, all subjects undergo a brief sexual and medical history and a directed physical examination; all women of childbearing potential have a urine or serum pregnancy test performed as part of qualification for study participation; all subjects undergo phlebotomy for serological testing for syphilis and HIV according to the study and clinic protocols. All subjects who have not been tested for chlamydia and gonorrhea since last sexual activity and all subjects who have been sexually active in the past 14 days have specimens collected for chlamydia and gonorrhea testing. Subjects have specimens collected for other STI testing as indicated by local standard of care and subject history. All eligible subjects are randomized to Arm 1 or Arm 2 and will receive an injected dose of BPG 2.4 MU.

Study personnel will attempt to contact subjects approximately 24-48 hours after Visit 1 to assess for symptoms of a Jarisch-Herxheimer reaction as described in protocol **Section 8.1**. At the second and third visits (Weeks 1 and 2 of follow-up), subjects randomized to Arm 2 will receive injected doses of BPG 2.4 MU.

At all follow-up visits, subjects have an interval history obtained, undergo a directed physical examination, and have repeat specimens collected for STI testing (based on the subject history and clinic protocols). At all follow-up visits, subjects undergo phlebotomy for serological testing for syphilis and serum storage. At the Month 3, Month 6, Month 9, and Month 12 follow-up visits, consenting HIV-uninfected subjects are tested for HIV infection using a 4th generation serological test for HIV. At Visit 1, study staff will swab consenting subjects' oral cavities and primary or secondary lesions (if lesions are present per protocol **Section 5.1**); see protocol **Section 8.2.2**.

Safety is measured by subject report and physical examination (including vital signs: temperature, heart rate, respiration rate, and blood pressure; and genital, rectal, oral, skin, and lymph node examinations). All AEs (including solicited reactogenicity AEs and other unsolicited AEs) are recorded through Month 1. Safety oversight is provided by a Data and Safety Monitoring Board (DSMB) and site Independent Safety Monitors (ISMs) as described in protocol **Section 9.6**.

While sites perform their own serological testing as needed for subject management, serological testing to determine study outcomes and serum banking is performed at the Central Laboratory (University of Alabama at Birmingham).

The duration of the study for each subject is 12 months. Enrollment is expected to be completed in 36 months. [Table 1](#) presents the schematic of the study design and [Table 2](#) presents the schedule of events.

4.2. Discussion of Study Design, Including the Choice of Control Groups

While penicillin is generally regarded as highly effective for syphilis treatment, whether or not currently recommended therapy is equally effective for persons with or without HIV infection remains unclear. In addition, recent appreciation of the fact that ~20% of persons treated for early syphilis are serofast has raised concerns regarding the significance of this observation^[6]. Some clinicians believe that the serofast state signifies treatment failure, while others believe it represents failure to serologically respond to therapy in successfully treated patients. Each of these concerns may lead to inadequate therapy or over treatment in persons with early syphilis, as well as much confusion among clinicians about appropriate therapy. Hence, the longer duration of therapy (BPG 2.4 MU weekly for three successive weeks) was to be compared with a single dose regimen by the serological response to therapy among persons with or without HIV infection. Subjects are randomized at a 1:1 ratio to receive one of the two BPG treatments.

4.3. Selection of Study Population

Subjects eligible to enroll in this study must meet all inclusion criteria:

1. Subject is aged 18 years or older.
2. Subject has provided informed consent.
3. Subject has untreated primary*, secondary**, or early latent*** syphilis.

*Primary syphilis is characterized by the presence of an ulcerative lesion at a potential site of inoculation (while classically solitary, shallow, painless and with an indurated, clean base, primary lesions may be multiple, may vary considerably in appearance, and/or may not be painless) or by darkfield, acceptable polymerase chain reaction (PCR), or direct fluorescence antibody-T. pallidum (DFA-TP) positive ulcers.

**Secondary syphilis is characterized by classical palmar/plantar rash, condylomata lata, mucous patches, etc. or by darkfield, acceptable PCR, or DFA-TP positive lesions.

***Early latent syphilis is characterized by current reactive serologic tests for syphilis (STS) and a documented non-reactive STS, or documented sexual exposure to an individual known to have primary, secondary, or early latent syphilis diagnosed within the last 12 months.

4. Subject either has a newly reactive non-treponemal test (such as an RPR test) or a history of syphilis and a current increase in RPR titer of two or more dilutions (i.e., four-fold).
5. If subject is of childbearing potential, subject has a negative urine or serum pregnancy test.
6. Subject is willing to have an HIV test, participate in HIV counseling, and return to clinic for follow-up.
7. In the opinion of the investigator, subject is able and willing to comply with study procedures, including receipt of three BPG injected doses if randomized to Arm 2.
8. If female, subject must be of non-childbearing potential* or must be using an acceptable method of birth control** to avoid becoming pregnant.

*Non-childbearing potential is defined as being post-menopausal for at least 1 year, status after bilateral tubal ligation, or status after bilateral oophorectomy, or status after hysterectomy.

**Subject must agree to avoid becoming pregnant by using one of the following acceptable methods of birth control for the entire duration of participation in the trial:

- Intrauterine contraceptive device; OR
- Oral contraceptives; OR
- Hormonal injections; OR
- Hormonal implants; OR
- Contraceptive patches; OR
- Monogamous relationship with vasectomized partner; OR
- Exclusively same-sex relationships; OR
- Use of condoms by the male partner; OR
- Abstinence

Subjects eligible to enroll in this study must not meet any exclusion criteria:

1. Subject previously enrolled in this trial.
2. Subject has latent syphilis of unknown duration, late latent syphilis, or evidence of neurosyphilis, including ocular syphilis.*
*e.g., eye pain/redness, recent ocular change, and/or changes in visual acuity
3. Subject has a known or suspected allergy or hypersensitivity to penicillin or other beta-lactam antibiotics.
4. Subject has a known or suspected STI other than syphilis requiring treatment with a drug active against *T. pallidum*.
5. Subject has used antibiotics* active against *T. pallidum* in the preceding 30 days.
*Note: the use of antimicrobials known to NOT be effective against *T. pallidum* (e.g., quinolones, sulfonamides, trimethoprim, metronidazole, spectinomycin) will be allowed.
6. Subject has suspected or known ongoing drug use that might interfere with study participation and follow-up treatment.
7. Subject is breastfeeding.
8. Subject has used any investigational drugs in the past 30 days that might interfere with safety or efficacy assessment.*
*If the subject has used any investigational drugs in the past 30 days, contact the Principal Investigator, DMID Clinical Project Manager, DMID Medical Officer, and FHI 360 to confirm eligibility.
9. Subject has any other condition that, in the opinion of the investigator, would interfere with participation in the study.

4.4. Treatments

4.4.1. Treatments Administered

BPG is administered as a deep IM injection in the upper, outer quadrant of the buttock. Participants are randomized using a 1:1 ratio to receive one or the two BPG treatments:

-
- Arm 1: BPG 2.4 MU injected once as two 2-mL injections (one in each buttock)
 - Arm 2: BPG 2.4 MU injected weekly as two 2-mL injections (one in each buttock) for three successive weeks

The dates of first treatment are presented for all subjects who received at least one dose of study product (i.e. the Safety Population, defined in Section 6.3.1) by site in Table 3 and treatment group in Table 4.

4.4.2. Identity of Investigational Product(s)

BPG contains penicillin G benzathine in aqueous suspension with sodium citrate buffer and, as weight/volume, approximately 0.5% lecithin, 0.6% carboxymethylcellulose, 0.6% povidone, 0.1% methylparaben, and 0.01% propylparaben. Bicillin® L-A suspension in the disposable-syringe formulation is viscous and opaque and is available in a 2-mL size containing 1.2 MU BPG per syringe. It is labeled for deep IM injection only, not for intravenous (IV) use.

4.4.3. Method of Assigning Subjects to Treatment Groups (Randomization)

Enrollment of subjects is done online using the enrollment module of Emmes Advantage eClinical®. Subjects are randomized at a 1:1 ratio to receive one of the two BPG treatments after informed consent is obtained and their eligibility is confirmed.

The study uses a stratified, permuted block-randomization scheme. Permuted block randomization is used to avoid the potential for serious imbalance in the number of subjects assigned to each group, an imbalance that can occur in the simple randomization procedures. Stratification is by study site. While HIV status may not be known at the time of randomization, subjects are classified as HIV-infected or HIV-uninfected to assess the secondary HIV status subgroup objective, and randomization is limited as follows:

- If 280 subjects who were HIV-infected at baseline are confirmed evaluable, additional subjects who are known to be HIV-infected are not allowed to enroll thereafter, while HIV-uninfected subjects and subjects of unknown HIV status may continue to enroll.
- If 140 subjects who were HIV-uninfected at baseline are confirmed evaluable, only subjects who are known to be HIV-infected are allowed to enroll thereafter.

The list of randomized treatment assignments is prepared by statisticians at Emmes and included in the enrollment module of its Internet Data Entry System (IDES). IDES assigns each subject a treatment code from the list after demographic and eligibility data have been entered.

Instructions for use of the enrollment module are included in the IDES User's Guide. Manual back-up randomization procedures are provided in the Manual of Procedures (MOP) for use in case a site temporarily loses access to the Internet, or the online enrollment system is unavailable.

4.4.4. Selection of Doses in the Study

Subjects will be randomized to one of two treatment assignments:

- Arm 1: BPG 2.4 MU injected once as two 2-mL injections (one in each buttock)
- Arm 2: BPG 2.4 MU injected weekly as two 2-mL injections (one in each buttock) for three successive weeks

4.4.5. Selection and Timing of Dose for Each Subject

At the time of enrollment, subjects are randomized to receive either one dose of BPG (Arm 1) or three doses of BPG over 3 weeks (Arm 2). All eligible subjects will receive a dose of BPG on day 1. Subjects enrolled in Arm 2 will also receive a dose of BPG at Visit 2 (Week 1) and a dose of BPG at Visit 3 (Week 2). Subjects in Arm 2 should receive the three doses at a minimum of 7-day intervals per the BPG package insert.

The following describes the dose assigned for each treatment group:

Study Groups	Visit 1, Day 1	Visit 2, Week 1 (Day 7 to 13)	Visit 3, Week 2 (6 to 12 days after Visit 2)
Arm 1	BPG 2.4 MU injected as two IM 2-mL injections	None	None
Arm 2	BPG 2.4 MU injected as two IM 2-mL injections	BPG 2.4 MU injected as two IM 2-mL injections	BPG 2.4 MU injected as two IM 2-mL injections

4.4.6. Blinding

Neither subjects nor providers will be masked in this study. The outcome (serological response to therapy) is objective—furthermore, laboratory staff will be blinded to subject ID and treatment assignment—and it would not be ethical to give subjects placebo injections.

4.4.7. Prior and Concomitant Therapy

Administration of any medications, therapies, or vaccines will be recorded on the appropriate data collection form. Concomitant medications will include all medications taken 30 days before initiating study treatment through Month 12 or early termination, whichever occurs first. Prescription and over-the-counter drugs will be included, as well as herbs, vitamins, and supplements. Previously recorded medications will be updated as appropriate.

Subjects who have received BPG and are subsequently diagnosed with a concomitant infection that requires systemic antibiotics will receive treatment according to the local clinic's standard protocols. Likewise, subjects who have received BPG through the study and subsequently require retreatment for syphilis infection will receive treatment according to the local clinic's standard protocols and will be withdrawn from the study per protocol **Section 5.3.3**.

At the discretion of the site PI, use of new medication should prompt evaluation for the presence of a new diagnosis of chronic medical disease or condition.

Medications that might interfere with the evaluation of BPG should not be used unless absolutely necessary.

Refer to protocol **Section 5** (Subject Inclusion and Exclusion Criteria) for medications that are prohibited for study eligibility and throughout study participation.

4.5. Efficacy (Immunogenicity) and Safety Variables

For safety and efficacy analyses, multiple observations within specific visit period are accepted. In the case of multiple observations within a specific window, the assessment value that is closest to the scheduled visit window will be used in the analyses for the post-baseline records, except the RPR data collected from early termination at an unscheduled visit could be used for serological response determination in addition to the data from the scheduled visits. For screening and baseline visits, the last assessment value will be used. All

the recorded data will be listed. If observations have the same distance to the scheduled assessment, the latest one will be used.

Efficacy Variables

See Section 3.3 for efficacy variable definitions. Serological response is the primary efficacy variable, which is defined in Section 3.3.1; The treatment schedule adherence is defined in Section 3.3.2.

Safety Variables

Safety will be monitored throughout the study by physical examination (including vital signs: temperature, heart rate, respiration rate, and blood pressure; and genital, rectal, oral, skin, and lymph node examinations) and subject reporting. Safety will be assessed by the frequency and severity of AEs/SAEs (including solicited reactogenicity AEs and other unsolicited AEs) occurring from the time of study product administration through the Month 1 visit.

Adverse Event

ICH E6 GCP defines an AE as any untoward medical occurrence in a clinical research subject administered a study drug regardless of its causal relationship to the study drug. An AE can therefore be any unfavorable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of the study drug. The occurrence of an AE may come to the attention of study personnel during study visits and interviews of a study subject presenting for medical care or upon review by a study monitor. Since the safety profile of BPG (both 1 and 3 doses) is well established, and this study is not powered to detect new, unknown safety signals. Non-serious AEs will not be reported to the DSMB.

All AEs not meeting the criteria for SAEs should be captured on the appropriate eCRF. Information to be collected includes event description, time of onset, clinician's assessment of severity, relationship to study drug (assessed only by those with the training and authority to make a diagnosis), and time of resolution/stabilization of the event. All AEs occurring while on study must be documented appropriately regardless of relationship. All AEs will be followed to adequate resolution. Any medical condition that is present at the time that the subject is screened should be considered as a baseline finding and not reported as an AE. However, if it deteriorates at any time during the study, it should be recorded as an AE.

All AEs must be graded for severity and relationship to the study drug. The US Food and Drug Administration (FDA) defines an AE as any untoward medical occurrence associated with the use of a drug in humans, whether or not considered drug-related.

Severity of Event: All AEs will be assessed by the clinician using a protocol-defined grading system (see protocol Appendix B). Changes in the severity of an AE should be documented to allow an assessment of its duration at each level of intensity to be performed. AEs characterized as intermittent require documentation of onset and duration of each episode.

Relationship to Study Drug: The clinician's assessment of an AE's relationship to the study drug is part of the documentation process, but it is not a factor in determining what is or is not reported in the study. If there is any doubt as to whether a clinical observation is an AE, it should be reported. All AEs must have their relationship to the study drug assessed using the terms "related" or "not related," as defined below. In a clinical trial, the study drug must always be suspect.

Related – There is a reasonable possibility that the study drug caused the AE. Reasonable possibility means that there is evidence to suggest a causal relationship between the study drug and the AE.

Not Related – There is not a reasonable possibility that administration of the study drug caused the AE. See Section 3.3 for efficacy variable definitions.

Reactogenicity

Reactogenicity events are AEs that are common and known to occur for the study drug being studied. For this protocol, the following reactogenicity events are expected to occur among some subjects:

Systemic reactions: Jarisch-Herxheimer reaction as defined in Section 3.3.3 and in protocol Section 8.1

Local injection site reactions: pain or tenderness, erythema or redness, induration or swelling

Reactogenicity events (as solicited AEs), along with unsolicited AEs, will be assessed at the visits specified in protocol Section 7 and will be graded using a protocol-defined grading system (see protocol Appendix B).

Serious Adverse Event (SAE)

An AE or suspected adverse reaction is considered “serious” if, in the view of either the investigator or sponsor, it results in any of the following outcomes:

- death,
- a life-threatening AE*,
- inpatient hospitalization or prolongation of existing hospitalization,
- a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or
- a congenital anomaly/birth defect.
- Important medical events that may not result in death, be life-threatening, or require hospitalizations may be considered serious when, based upon appropriate medical judgment, they may jeopardize the subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition. Examples of such medical events include allergic bronchospasm requiring intensive treatment in an emergency room or at home, blood dyscrasias or convulsions that do not result in inpatient hospitalization, or the development of drug dependency or drug abuse.

* An AE is considered “life-threatening” if, in the view of either the investigator or sponsor, its occurrence places the subject at immediate risk of death. It does not include an AE that, had it occurred in a more severe form, might have caused death.

All SAEs will be

- Assessed for severity and relationship to the study drug and alternate etiology (if not related to the study drug) by a licensed study physician.
- Recorded on the appropriate SAE form and eCRF.
- Followed through resolution by a licensed study physician.
- Reviewed and evaluated by the DSMB (periodic review unless related), DMID, and the IRB.

5. SAMPLE SIZE CONSIDERATIONS

5.1. Study with Planned Sample Size

Sample size calculations were performed using PASS 2008 and SAS 9.4. The following parameters were used for determining the required sample size for the primary objective:

- 1:1 allocation ratio between one-dose and three-dose arms
- Test the difference in response rate between the one-dose and three-dose arms (Farrington-Manning test, unadjusted for HIV status)
- Null hypothesis response rate in one-dose arm: 0.688
- Null hypothesis response rate in three-dose arm: 0.788
- Alternative hypothesis response rate in both arms: 0.788
- One-sided 0.05 alpha level

To achieve 80% power for the primary noninferiority comparison, 420 evaluable subjects (210 in each treatment arm) are needed. It is assumed that 25% of subjects will be ineligible for the primary analysis, and so 560 enrolled subjects are needed to reach the target of 420 evaluable subjects.

The study is not powered to assess the secondary noninferiority comparisons in the HIV status subgroups. As an illustration, power calculations were performed to assess the power available for these subgroup analyses using a sample size of 420. The following parameters were used for the calculations:

- Test the difference in response rate between the one-dose and three-dose arms within each HIV status stratum.
- Null hypothesis response rate in one-dose arm: 0.738 (HIV-infected); 0.638 (HIV-uninfected)
- Null hypothesis response rate in three-dose arm: 0.838 (HIV-infected); 0.738 (HIV-uninfected)
- Alternative hypothesis response rate in both arms: 0.838 (HIV-infected); 0.738 (HIV-uninfected)
- One-sided 0.05 alpha level
- 280 evaluable subjects in the HIV-infected stratum (140 in one-dose arm, 140 in three-dose arm).
- 140 evaluable subjects in the HIV-uninfected stratum (70 in one-dose arm, 70 in three-dose arm).

The HIV-infected noninferiority comparison has 72% power, and the HIV-uninfected noninferiority comparison has 38% power.

5.2. Study with Smaller Sample Size

When sample size is small, the statistical power will decrease. A simulation study was performed to explore the proposed method for the analysis across a small sample sizes. In particular, data was simulated under the following three conditions:

- Outcome data in both the 1-dose and 3-dose arms sampled from a binomial distribution with rate = 0.788.
- Outcome data in the 1-dose arm sampled from a binomial distribution with rate = 0.738, while the 3-dose arm data was sampled from a distribution with rate = 0.788.

- Outcome data in the 1-dose arm sampled from a binomial distribution with rate = 0.688, while the 3-dose arm data was sampled from a distribution with rate = 0.788.
- Outcome data in the 1-dose arm sampled from a binomial distribution with rate = 0.588, while the 3-dose arm data was sampled from a distribution with rate = 0.788.

For each of the above scenarios, we simulated performing the analysis at the 40% and 50% time point (i.e. once we achieve 40% or 50% of the evaluable target). There are multiple ways to construct the futility bounds; two alpha-spending methods were explored here: O’Brien-Fleming Analog (OBF), and alpha-time (α -Time).

The table below provides three summaries from the simulation study:

- The probability of meeting the futility criterion at the analysis with smaller sample size (i.e. the probability of demonstrating 3-dose is superior to 1-dose).
- The probability of making a non-inferiority (NI) claim at the analysis with target sample size.
- The mean and standard deviation of the conditional power (CP) estimates across all simulated scenarios.

Scenario	Percent of Target Sample size	Futility Bound Method	Prob. of Meeting Futility Criterion (%)	Prob. of NI Claim (%)	Mean (SD) CP at Interim (%)
P ₁ = 0.788 P ₃ = 0.788	40%	OBF	<1	80	80 (19)
		α -Time	1	78	78 (20)
	50%	OBF	<1	79	79 (22)
		α -Time	1	77	77 (23)
P ₁ = 0.738 P ₃ = 0.788	40%	OBF	2	32	63 (25)
		α -Time	5	30	60 (25)
	50%	OBF	4	33	57 (29)
		α -Time	8	28	54 (29)
P ₁ = 0.688 P ₃ = 0.788	40%	OBF	8	5.0	44 (27)
		α -Time	18	4.5	42 (26)
	50%	OBF	18	4.4	33 (28)
		α -Time	27	4.2	31 (27)
P ₁ = 0.588 P ₃ = 0.788	40%	OBF	48	<1	13 (16)
		α -Time	66	<1	12 (16)
	50%	OBF	73	<1	5 (11)
		α -Time	82	<1	5 (10)

The potential outcomes from the above scenarios are: When null hypothesis response rate in one-dose arm is 0.688 and null hypothesis response rate in three-dose arm: 0.788, as indicated in Section 5.1, the probability of claim non-inferiority is less than 5%, and the statistical power is less than 45%. The issue is less that the

non-inferiority design is causing issues but more so that the analysis with small sample size is an under-powered.

6. GENERAL STATISTICAL CONSIDERATIONS

6.1. General Principles

Most of the continuous variables will be summarized using the following descriptive statistics: N (non-missing sample size), mean, standard deviation, median, maximum and minimum. RPR titer will be summarized using N (non-missing sample size), Geometric Mean Titer (GMT), and 95% confidence interval. The frequency and percentages (based on the non-missing sample size) of observed levels will be reported for all categorical measures. Wilson confidence intervals for binomial proportions and differences in binomial proportions will be computed for efficacy variables and safety variables. For the hypothesis tests comparing treatment groups with respect to the compliance endpoint, the two-sided Pearson Chi-Square test with the Yates continuity correction will be used. For the above tests, a 5% two-sided significance level will be used. For the hypothesis tests comparing treatment groups with respect to efficacy outcomes, the Farrington-Manning test at the 5% one-sided level of significance will be used. A noninferiority hypothesis test will be conducted using the Farrington-Manning test at the 5% one-sided level of significance to formally compare the treatment arms, that is, whether the one-dose group is non-inferior to the three-dose group.

For all efficacy outcome measures, the Intent-to-Treat (ITT) population (see Section 6.3) will be used as the primary analysis population and the primary analysis will be repeated as a secondary analysis in the mITT and the Evaluable analysis populations. The secondary efficacy analyses will be performed in the ITT and Evaluable analysis populations. For all safety analyses, the Safety population will be used as the analysis population.

In general, all data will be listed, sorted by site, treatment and subject, and when appropriate by visit number within subject. All summary tables will be structured with a column/sub-table for each treatment group in the order (One dose BPG 2.4 MU, Three doses BPG 2.4 MU, and All Subjects) and will be annotated with the total population size relevant to that table/treatment, including any missing observations.

Note that in the data listings, Subject ID is the unique subject identifier, not the Study ID used on study and dates will not be included, only Study Day. Study Day 1 will be the day of the first dose of treatment.

6.1.1. Pseudo Code

The following SAS® pseudo code will be used to calculate the following:

Farrington-Manning test at 5% one-sided significance level and risk difference (and 95% asymptotic CI) from 2x2 table:

```
proc freq;
  table treatment*analysis_variable /riskdiff (noninf margin=.1 method=fm);
  ods output PdiffNoninf=outdn;
run;
```

Cochran-Mantel-Haenszel Chi-square test and Breslow-Day test for h x 2 x 2 table:

```
proc freq;
  Table strata*treatment*analysis_variable / relrisk plots(only)=relriskplot(stats) CMH;
  ods output CMH=outputdsn1;
  ods output BreslowDayTest=outputdsn2;
run;
```


Chi-Square test at 5% two-sided significance level and odds ratio (and 95% asymptotic CI) from 2x2 table:

```
proc freq;
  Table treatment*analysis_variable / chisq;
  ods output ChiSq=outputdsn1;
  ods output RelativeRisks=outputdsn2;
run;
```

95% Wilson CI for proportions/percentages:

```
proc freq;
  Table treatment*analysisvariable / binomial(wilson);
  ods output binomialcls=outputdsn;
run;
```

95% Wilson CI for difference in proportions (produces Newcombe CI):

```
proc freq;
  Table treatment*analysisvariable / riskdiff(cl=Wilson);
  Exact Riskdiff;
  ods output pdiffcls=outputdsn;
run;
```

t-test for independent samples

```
proc ttest sides=2 alpha=0.05;
  class HIV_status;
  var analysis_variable;
run;
```

Logistic Regression

```
proc logistic;
  class var_1 var_2 var_3/ param=glm;
  model y = var_1 var_2 var_3;
run;
```

6.2. Timing of Analyses

There is no planned interim analysis of efficacy data. The final analysis for primary, secondary efficacy outcomes by Month 6 and safety data will be performed after an interim database lock when all subjects have been followed through Visit 6, at month 6 (Window: 180±21 days). The final analysis for all other outcomes will be performed after the final database lock when all subjects have been followed through Visit 8, the final study visit, at Month 12 (Window: 360±28 days).

6.3. Analysis Populations

6.3.1. Safety Analyses

All safety analyses will be performed in the safety analysis population. The safety population includes all randomized subjects who received at least one dose of study product.

6.3.2. Efficacy Analyses

All efficacy analyses will be performed in the Intent-to-Treat population and Evaluable population. The primary analysis will be performed in the ITT population and repeated as a secondary analysis in the mITT and the Evaluable analysis populations. The secondary efficacy analyses will be performed in the ITT and Evaluable populations.

6.3.2.1. Intent-to-Treat Population

The ITT population includes all randomized subjects, regardless of whether they received study treatment or were compliant with the administration procedures or schedule. In the unlikely event of an error in randomization or study product administration (such as, incorrect dosing schedule), subjects will be grouped by their intended randomized assignment.

6.3.2.2. Modified Intent-to-Treat (mITT) Population

The mITT population includes all randomized subjects who are eligible at the baseline visit and whose TPPA (Treponema pallidum Particle Agglutination) result is positive at the baseline visit and/or at Visit 5 (Month 3), if repeat testing was performed.

6.3.2.3. Evaluable Population

Two Evaluable populations (by Month 6 and by Month 12) are of interest per the primary and secondary study endpoints.

Both Evaluable populations include all randomized subjects who are eligible at the baseline visit, have a known HIV status determined at or before the baseline visit, have positive TPPA results at the baseline visit and/or Visit 5 (Month 3) (if repeat testing was performed), received all assigned doses of BPG, have RPR titer data available at baseline and applicable follow-up visit(s) (have RPR test data available at baseline and at least one follow-up visit at or before Month 6 visit for the Evaluable population by Month 6; have RPR titer data available at baseline and at least one follow-up visits between month 6 and Month 12 visit and (for HIV-uninfected subjects only) HIV-uninfected status persists through applicable follow-up visit(s). According to CDC guideline, an interval of 10-14 days between injections is acceptable, so subjects who receive all doses within this interval will be considered as 'received all assigned doses of BPG'.

If a subject receives antibiotic(s) active against *T. pallidum* for reasons other than syphilis between enrollment and the applicable follow-up visit(s), following situations will be considered:

- a. if a subject has valid baseline and at least one follow-up RPR value before receiving antibiotic(s) active against *T. pallidum* for reasons other than syphilis, those RPR values (or seronegative) prior to receiving antibiotic(s) will be kept and used to evaluate the efficacy outcome, and the subject will be included in the evaluable population.
- b. if a subject has valid baseline but no follow-up RPR value before (s)he receives antibiotic(s) active against *T. pallidum* for reasons other than syphilis, the subject will be excluded from evaluable population.
- c. Receipt of antibiotic(s) active against *T. pallidum* for reasons other than syphilis will not exclude subjects or their data post-antibiotic from the ITT or mITT populations.

If a subject receives antibiotic(s) active against *T. pallidum* between enrollment and the applicable follow-up visit(s) for retreatment of syphilis, the subject may be included in all analyses if they are otherwise eligible for

the analysis. Those RPR values (or seronegative) prior to and/or on the data of receiving retreatment will be kept and used to evaluate the efficacy outcome, those RPR values after receiving retreatment will not be used for analysis, and the subject will be included in both ITT and evaluable population.

A blinded case review committee will review subjects' data to determine if treatment with drug(s) known to be active against *T. pallidum* for reasons other than syphilis infection excludes the subject from the Evaluable analysis population. A separated listing of subjects, their concurrent medications, and their sexual history data will be provided to the committee for review.

In the unlikely event of an error in randomization or study product administration (i.e., incorrect dosing schedule), subjects will be grouped by the product they actual received.

6.3.2.4. Analysis Population Summaries

[Table 5](#) summarizes the ITT and mITT population eligibilities by randomized treatment group and reasons for exclusion. [Table 6](#) summarizes the Safety and Evaluable population eligibilities by actual treatment group and reasons for exclusion. Subjects will be included in the count for a particular reason for exclusion if they met that criterion. As subjects may meet more than one criterion for exclusion, the “Excluded from...” counts may be less than the sum of the individual reason counts. A listing of the subjects excluded from each of the analysis populations and the reasons for exclusion will be provided ([Listing 1](#)).

6.4. Covariates and Subgroups

The protocol defines formal subgroup analyses. Subgroups are defined by the baseline HIV status (HIV-infected and HIV-uninfected). Demographics, baseline characteristics and sexual history will be reported by baseline HIV status. The point estimates of the treatment-specific proportions within each HIV status subgroup, difference in proportions and corresponding 95% confidence intervals will be reported. For each HIV status subgroup, a hypothesis test will be conducted to compare the treatment arms with respect to response rate across HIV status subgroups. The homogeneity of odds ratios will be tested to determine if the difference between the treatment groups with respect to response rates varies by HIV status. Logistic regression analyses will be used to assess the association of treatment with Jarisch-Herxheimer reaction after adjusting for HIV co-infection status and time point post-dose.

6.5. Missing Data

For the primary analysis, serological response is defined by 4-fold or more decline compared to baseline or seronegative any visit prior to the end of Month 6 visit window. Though the ITT and mITT populations include subjects who may not have adequate serological data to determine their response status for any reason, the above definition is equivalent to the Best Case Imputation, which means the lowest RPR value or seronegative from the available visits will be used impute the missing values and to evaluate the serological response. If there were no follow-up RPR values by the end of month 6 visit window, the missing value will be imputed by the baseline value, which is also the best case in the situation.

As one of the two sensitivity analyses, the primary outcome will be defined based on the last available visit by month 6. The Last Observation Carried Forward (LOCF) will be used to impute the missing visit. When a subject did not have any follow-up RPR values from the collected data by month 6, we will use the last available visit before the end of month 6 visit window to impute the serological response.

If a subject missed visits, discontinued treatment or early terminated due to Covid-19, the subject will be recorded and reported. Also, another sensitivity analysis will be performed to evaluate the impact by Covid-19 by removing those subjects who discontinued treatment or early terminated.

6.6. Interim Analyses and Data Monitoring

There are no planned interim analyses of efficacy data. However, when all enrolled subjects have completed the Month 6 visit (or are past the visit window), the efficacy data through Month 6 and all available safety data will be locked and all planned analyses for this data will be performed. If a table or figure includes summary for both month 6 and post month 6 data, then the table or figure will be generated for locked data at month 6 and will then be updated once the final data is available.

The remainder of the data through Month 12 will be analyzed once all the study data is entered, cleaned, monitored and locked. Individual subject listings, which reveal the individual treatment assignments, will only be generated at the final analysis after all Month 12 data have been locked.

The study is monitored to determine if any of the safety halting rules are met. The halting rules are:

- If one or more subjects experience an SAE judged by an investigator to be related to the study drug
- An overall pattern of clinical events that the DMID Medical Monitor or DSMB consider associated with the study drug and that may appear minor in terms of individual events, but that may collectively represent a serious potential concern for safety

If any of the halting rules are met, the study will not continue with the remaining enrollments or study treatments without a review by and recommendation from the DSMB to proceed. A summary of halting rules is provided in [Table 7](#). DMID retains the authority to suspend additional enrollment and administration of the study drug during the entire study, as applicable.

An ISM at each clinical research site oversees the safety of research subjects at that site and provides independent written evaluation of SAEs and related Grade 3 AEs to the PI, DMID Clinical Project Manager, and DMID Medical Monitor. The ISM will serve as an independent consultant for the site PI on subject-related issues. The ISM will communicate with the site PI and study PIs to resolve any issues.

Safety oversight is conducted by a DSMB that is an independent group of experts that monitors subject safety and advises DMID. The DSMB members are separate and independent of study personnel participating in this trial and should not have scientific, financial, or other conflict of interest related to the study. The DSMB consists of members with appropriate expertise to contribute to the interpretation of the data from this trial.

The DSMB reviews safety and enrollment data when half of the study subjects have been enrolled and observed for SAEs through the Month 1 Visit.

The DSMB reviews study progress and subject clinical and safety data at the following time points:

- At least annually after the first subject is enrolled.
- Ad hoc when a halting rule is met, for immediate concerns regarding observations during the study, or as needed.
- During a final closeout meeting, held at the end of the study after the database is locked to review cumulative study data prior to finalizing the Clinical Study Report (CSR).

The DSMB operates under the rules of a DMID-approved charter that are written at the organizational meeting of the DSMB. As an outcome of each review/meeting, the DSMB makes a recommendation as to the

advisability of proceeding with study administrations (as applicable), and to continue, modify, or terminate the study.

DMID or the DSMB chair may convene the DSMB on an ad hoc basis according to protocol criteria or if there are immediate concerns regarding observations during the study. The DMID Medical Monitor is empowered to stop enrollment and study treatment if SAEs that meet the halting criteria are reported. The DMID Medical Monitor is responsible for reviewing SAEs in real time. The DSMB reviews SAEs on a regular basis and ad hoc during the study.

6.7. Multicenter Studies

Safety and efficacy data will be pooled across all clinical sites. Center effects are not anticipated because the sites are using standardized procedures for administration of study product and assessment of solicited and unsolicited adverse events, and the study relies on the central laboratory for the assessment of serological data and clinical efficacy endpoints.

6.8. Multiple Comparisons/Multiplicity

No adjustments for multiplicity are planned.

7. STUDY SUBJECTS

7.1. Disposition of Subjects

The disposition of subjects in the study will be tabulated by randomized treatment group and all subjects. [Table 8](#) will present a summary of the reasons that subjects were screened but not enrolled. [Table 9](#) will show the number of subjects enrolled, randomized, treated, complied with treatment, completed Month 6 RPR blood draw, completed Month 12 RPR blood draw, and completed the study. A listing of subjects who terminated early from study or discontinued treatment and the reason for early termination or treatment discontinuation will be included in [Listing 2](#). The subjects who terminated early or discontinued treatment due to Covid-19 pandemic will be flagged in the listing.

A flowchart showing the disposition of study subjects, adapted from the CONSORT statement will be included ([Figure 1](#)). This figure will present the number of subjects screened, enrolled, lost to follow-up, and analyzed, by treatment arm.

7.2. Protocol Deviations

A summary of subject-specific protocol deviations will be presented by the deviation category, the type of deviation, and randomized treatment group for all enrolled subjects ([Table 10](#)). All subject-specific protocol deviations and non-subject-specific protocol deviations will be included in Appendix 3 as data listings ([Listing 3](#) and [Listing 4](#), respectively).

8. EFFICACY EVALUATION

8.1. Primary Efficacy Analysis

For the primary analysis of the comparison of efficacy of one dose versus three doses of BPG 2.4 MU, the number and proportion of subjects with serological response and 95% confidence interval will be summarized overall and by treatment. The point estimates for the treatment-specific proportion with a one-sided 95% confidence interval (CI) will be reported. The difference in proportions and corresponding one-sided 95% CI will also be reported. Serological response for the primary analysis is defined in Section 3.3.1. The primary analysis will be performed in the ITT population. The primary analysis will be repeated as a secondary analysis in the mITT and Evaluable populations.

The null hypothesis for the primary objective is that the difference in serological response rate between the three-dose and one-dose groups is at least 10%, and the alternative hypothesis is that the difference in response rates is less than 10%.

$$H_0: P_3 - P_1 \geq 0.10$$

$$H_1: P_3 - P_1 < 0.10$$

The null and alternative hypotheses for the secondary HIV status subgroup objective are defined similarly. For the hypothesis tests comparing treatment groups with respect to efficacy outcomes, the Farrington-Manning test at the 5% one-sided level of significance will be used.

Table 11 will summarize the primary outcome for ITT, mITT and Evaluable populations. Figure 2, Figure 3, and Figure 4 will present the individual efficacy response data at each visit for ITT, mITT and Evaluable populations by treatment group by Month 6. Figure 11 will present the Non inferiority test result for the primary outcome between two treatment groups by Month 6. Listing 5 will present the individual efficacy response data for all randomized subjects. Individual subject listings of TPPA test results (Listing 24) will be provided.

8.1.1. Sensitivity Analyses for Primary Efficacy Outcome

One sensitivity analysis is do the same analysis with primary outcome except removing subjects who early terminated from study due to Covid-19 pandemic. The second sensitivity analysis of the Primary outcome will be performed with a different definition of the outcome, the last available value prior to Month 6 for each subject. The outcome is defined in Section 6.5. Table 31 and Table 32 will present sensitivity analyses, the Serological response to Therapy at Month 6 by treatment Group. The analyses will be performed in the ITT, mITT, and Evaluable populations.

8.2. Secondary Efficacy Analyses

The secondary efficacy analyses will be performed in the ITT and Evaluable populations.

8.2.1. Efficacy by 12 Months

Summaries of the number and proportion of subjects with serological response and difference in proportion with 95% Wilson confidence intervals by Month 12 by treatment group in the ITT population and the Evaluable population by Month 12 will be presented in Table 12. A hypothesis test will be conducted using the Farrington-Manning test at the 5% one-sided level of significance to formally compare the treatment arms. The setup of the noninferiority test will be analogous to that of the primary analysis. Figure 5, and Figure 6 will present the individual efficacy response data at each visit for ITT, and Evaluable populations by

treatment group by Month 12. [Figure 12](#) will present the Non inferiority test result for the primary outcome between two treatment groups by Month 12.

8.2.2. Efficacy by 6 Months Among Subjects with and without HIV Infection

The response rate of the two treatment arms across HIV status subgroups (HIV-infected, HIV-uninfected) will be summarized in [Table 13](#) for the ITT and Evaluable populations. The Breslow-Day test for the homogeneity of odds ratios and Cochran-Mantel-Haenszel Chi-square test will be used to determine if the difference between the two treatment groups with respect to response rates varies by HIV status.

[Table 14](#) will present the summaries of the number and proportion of subjects with serological response and by each timepoint by treatment group in the ITT population.

[Table 15](#) will present the summaries of the number and proportion of subjects with serological response and difference in proportions with 95% Wilson confidence intervals by Month 6 by treatment group and baseline HIV status in the ITT population and the Evaluable population by Month 6, respectively. For each HIV status subgroup, a hypothesis test will be conducted using the Farrington-Manning test at the 5% one-sided level of significance to formally compare the treatment arms. The setup of the noninferiority test will be analogous to that of the primary analysis, performed within each subgroup.

[Figure 7](#) and [Figure 8](#) will present the individual efficacy response data at each visit for all randomized subjects by treatment group and baseline HIV Status by Month 6 in the ITT, and Evaluable populations.

Individual subject listings of HIV testing outcomes ([Listing 23](#)) will be provided.

8.2.3. Efficacy by 12 Months Among Subjects with and without HIV Infection

[Table 16](#) will present the summaries of the number and proportion of subjects with serological response and difference in proportions with 95% Wilson confidence intervals by Month 12 by treatment group and baseline HIV status in the ITT population and the Evaluable population by Month 12, respectively. For each HIV status subgroup, a hypothesis test will be conducted using the Farrington-Manning test at the 5% one-sided level of significance to formally compare the treatment arms.

The geometric mean titers and geometric mean fold declines from baseline will be summarized by each visit for each treatment group, overall and within HIV status subgroups in the ITT and Evaluable populations ([Table 17](#), [Table 18](#), and [Table 19](#)). [Figure 9](#) and [Figure 10](#) will present the individual efficacy response data at each visit for all randomized subjects by treatment group and baseline HIV Status by Month 12 in the ITT, and Evaluable populations.

8.2.4. Treatment Compliance by Treatment Group

For the comparison of compliance between the one dose and three dose groups, the number and proportion of subjects who receive all assigned doses within the assigned visit windows will be summarized overall and by treatment group in ITT and Evaluable populations. The point estimates for the treatment-specific proportions and difference in proportions as well as corresponding 95% confidence intervals will be presented. A hypothesis test will be conducted using a Chi-square test at the 5% two-sided level of significance to formally compare the treatment arms ([Table 20](#)). [Listing 6](#) will present the individual compliance data for all enrolled subjects.

8.2.5. Demographics and Baseline Characteristics by HIV status

Categorical and continuous demographics, and baseline socio-epidemiologic characteristics will be summarized overall and by baseline HIV status subgroup in the ITT population (Table 21 and Table 22). Baseline sexual history will be summarized overall and by baseline HIV status subgroup in the ITT populations (Table 23, Table 24). Categorical and continuous sexual history questions through Month 6 and Month 12 will be summarized overall and by baseline HIV status subgroup in the ITT and corresponding Evaluable populations (Table 25, Table 26, Table 27, Table 28, Table 29, and Table 30). For continuous variables, descriptive statistics will include the number of non-missing values, mean, standard deviation, median, minimum, and maximum. For categorical variables, descriptive statistics will include counts and percentages per category.

Individual subject listing will be presented for all demographics and other baseline socio-epidemiologic characteristics (Listing 7). Individual subject listing of baseline and follow-up sexual behavior history for all enrolled subjects will be presented in Listing 8 and Listing 9. Sexually Transmitted Disease history at baseline for all enrolled subjects will be presented in Listing 10. Sexually Transmitted Infections testing result will be present in Listing 11.

8.3. Exploratory Efficacy Analyses

The exploratory efficacy analysis will be performed to support the primary efficacy analysis by applying the alternative serological response classification stated in Section 3.3.1. The serological response will be classified into three levels which are Response, Non-Response and Failure. Similar summary as primary efficacy analysis will be presented in Table 33 for ITT, mITT and Evaluable populations.

8.4. Clinical Laboratory Evaluations

RPR test evaluations will be presented in Listing 5. Individual subject listings of HIV testing outcomes (Listing 23) and TPPA test results (Listing 24) will be provided. Descriptive statistics for CD4 (Table 49) and Viral Load (Table 50), including mean, standard deviation, median, minimum and maximum values by time point and actual treatment group will be summarized.

9. SAFETY EVALUATION

9.1. Prior Conditions

All current illnesses and past pre-existing medical conditions will be MedDRA® coded using MedDRA dictionary version 23.1 or higher. Concomitant medications will be coded to the Anatomical Therapeutic Classification using the WHO Drug Dictionary.

9.1.1. Prior and Concurrent Medical Conditions

Summaries of subjects' pre-existing and concurrent medical conditions will be presented by randomized treatment group for the Safety Population (Table 34). An individual subject listing for all enrolled subjects will be presented for all medical conditions (Listing 12).

9.1.2. Prior and Concomitant Medications

The use of prior and concomitant medications taken during the study will be recorded on the CRFs. Summaries of medications that were started prior to dosing and continuing at the time of dosing as well as medications that were started during dosing or during follow up will be presented by WHO Drug Anatomical Codes (ATC) Level 1 and Level 2 and actual treatment group for subjects in the Safety population (Table 35). An individual subject listing for all enrolled subjects will be presented for all concomitant medications (Listing 13).

9.2. Measurements of Treatment Compliance

Subjects are randomized to receive either one dose of BPG (Arm 1) or three doses of BPG over 3 weeks (Arm 2). Subjects are compliant to the treatment if all doses per randomization are received, and the corresponding visit days are within the assigned visit window. See Section 3.3.2 for the definition of adherence to scheduled visits. See compliance tables for secondary efficacy analyses in Section 8.2.

The number of subjects not compliant with study treatment will be presented by treatment group as part of the subject disposition table (Table 9). An individual subject listing of treatment compliance for all enrolled subjects will be provided in Listing 6.

9.3. Adverse Events

When calculating the incidence of adverse events (i.e., on a per subject basis), each subject will only be counted once and any repetitions of adverse events within a subject will be ignored; the denominator will be the total safety population size and population within the actual treatment group. AEs/SAEs (including solicited reactogenicity AEs and other unsolicited AEs) occurring from the time of study product administration through the Month 1 visit are collected. All adverse events reported will be included in the summaries and analyses. All analyses in Section 9.3 will be performed in the safety analysis population using the actual treatment received. An overall summary of adverse events will be presented in Table 36.

9.3.1. Solicited Events and Symptoms

Reactogenicity events are AEs that are common and known to occur for the study drug being studied. For this study, the following reactogenicity events are expected to occur among some subjects:

- Systemic reactions: Jarisch-Herxheimer reaction (as described in protocol **Section 8.1**)
- Local injection site reactions: pain or tenderness, erythema or redness, induration or swelling

Reactogenicity events (as solicited AEs) will be assessed at the visits specified in protocol **Section 7** and will be graded on a scale of 1 (mild), 2 (moderate) and 3 (severe) by using a protocol-defined grading system (see protocol Appendix B). Reactogenicity events will be analyzed by taking the most severe response over the follow-up period, dichotomizing into a binary variable (none versus mild, moderate, or severe) and using exact confidence intervals to summarize the reactogenicity rates.

The number and percent of subjects reporting at least one solicited adverse event will be summarized for each solicited adverse event along with the 95% Wilson CI and presented in [Table 37](#).

The number and percentage of subjects reporting each solicited systemic adverse event will be summarized by the maximum severity, and actual treatment group along with the 95% Wilson CIs ([Table 38](#)). The number and percentage of subjects reporting each solicited local adverse event will be summarized by the maximum severity, dose, and actual treatment group along with the 95% Wilson CIs ([Table 39](#)).

The percentage of subjects reporting each solicited systemic adverse event (i.e. Jarisch-Herxheimer reaction) by maximum severity per subject and Time Post First Dose will be presented in [Figure 13](#). The percentage of subjects reporting each solicited systemic adverse event by maximum severity of solicited local symptoms per Subject and Dose will be presented in [Figure 14](#).

Logistic regression analyses will be used to assess the association of treatment with Jarisch-Herxheimer reaction after adjusting for HIV co-infection status and onset time post-dose ([Table 40](#)). The binary outcome is whether the subject experienced any symptoms of the Jarisch-Herxheimer Reaction in the 24-hours following Visit 1. The onset time of Jarisch-Herxheimer Reaction is categorized into 0-12 hours, >12-24 hours, >24-48 hours. Crude and adjusted odds ratios and 95% Wald CIs will be presented.

Solicited systemic and local reactions by subject will be presented in [Listing 14](#) and [Listing 15](#).

9.3.2. Unsolicited Adverse Events

The number of subjects, the proportion of subjects who experienced unsolicited AEs and SAEs following the first dose of the study product through Visit 4 (Month 1, Day 30 ± 7 days), and the 95% Wilson CIs for the proportion of subjects who experienced unsolicited AEs and SAEs related to study product through Visit 4 will be presented for the safety population and actual treatment group. Denominators for percentages are the number of subjects who received the study product being summarized.

Unsolicited adverse events by subject will be presented in [Listing 16](#).

The following summaries for unsolicited adverse events will be presented by MedDRA® system organ class, preferred term, and treatment group:

- Subject incidence and total frequency of adverse events over time by dose with 95% CI ([Table 41](#));
- Subject incidence and total frequency of related adverse events over time by dose with 95% CI ([Table 42](#));
- Summary of severity and relationship to study product for the unsolicited adverse events ([Table 43](#));

- Subject incidence and percentage by maximum severity and maximum relationship to study product for all subjects (Table 44);
- The number of adverse events occurring in $\geq 5\%$ of subjects in any treatment group (Table 45, Table 46);
- Subject listing of serious adverse events (Table 47);
- Subject listing of non-serious adverse events of moderate or greater severity (Table 48);
- Bar chart of total frequency of adverse events by severity and MedDRA® system organ class (Figure 15);
- Bar chart of subject incidence of adverse events by severity and MedDRA® system organ class (Figure 16);
- Bar chart of total frequency of adverse events by relationship to study product and MedDRA® system organ class (Figure 17);
- Bar chart of subject incidence of adverse events by relationship to study product and MedDRA® system organ class (Figure 18);

9.4. Deaths, Serious Adverse Events and other Significant Adverse Events

A listing of deaths and serious adverse events will be presented including Subject ID, treatment group, Adverse Event Description, Dose Number Associated with, SAE onset day and duration post associated dose, Reason Reported as an SAE, Relationship to Treatment, Alternate Etiology if Not Related, Outcome, and Duration of Event in days (Table 47).

9.5. Pregnancies

For any subjects in the Safety population who became pregnant during the study, every attempt will be made to follow these subjects to completion of pregnancy to document the outcome, including information regarding any complications with pregnancy and/or delivery. Listings of pregnancies and outcomes, including the total pregnancies, number of live births, and number of spontaneous abortions, elective abortions or still births will be presented (Listing 17, Listing 18, Listing 19, Listing 20, and Listing 21).

9.6. Vital Signs and Physical Evaluations

At Visit 2 and Visit 3, subjects will be evaluated for resolution of signs of syphilis documented at Visit 1. An individual subject listing of syphilis signs by visits 1, 2 and 3 will be presented (Listing 22). A targeted physical examination (vital signs (temperature, heart rate, respiration rate, and blood pressure); genital, rectal, oral, skin, and lymph node examinations) will be performed at each visit. Each vital sign for subjects in the Safety Population will be summarized by visit, treatment group and grading of severity (Table 51, Table 52, Table 53, Table 54, and Table 55). Subject listings will be provided for HIV test result (Listing 23), TPPA test result (Listing 24), vital signs (Listing 25) and physical exam findings (Listing 26).

9.7. Other Safety Measures

N/A

10. PHARMACOKINETICS

N/A

11. IMMUNOGENICITY

N/A

12. OTHER ANALYSES

N/A

13. REPORTING CONVENTIONS

P-values ≥ 0.001 and ≤ 0.999 will be reported to three decimal places; p-values less than 0.001 will be reported as “<0.001”; p-values greater than 0.999 will be reported as “> 0.999“. The mean, median, standard deviation, and any other statistics other than quantiles, will be reported to one decimal place greater than the original data. Quantiles other than the median will use the same number of decimal places as the original data. Proportions will be presented to two decimal places; values <0.01 will be presented as “<0.01”. Percentages will be reported to the nearest whole number; values < 1% will be presented as “<1”. Estimated parameters, not on the same scale as raw observations (e.g. regression coefficients) will be reported to three significant figures.

14. TECHNICAL DETAILS

SAS version 9.4 or above will be used to generate all tables, figures and listings.

**15. SUMMARY OF CHANGES IN THE CONDUCT OF THE STUDY OR
PLANNED ANALYSES**

There are no changes in the conduct of the study or planned analyses.

16. REFERENCES

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17. LISTING OF TABLES, FIGURES, AND LISTINGS

Table, figure, and listing shells are presented in Appendices 1, 2, and 3.

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Table 1: Study Design

Total N: Approximately 560 to achieve 420 evaluable

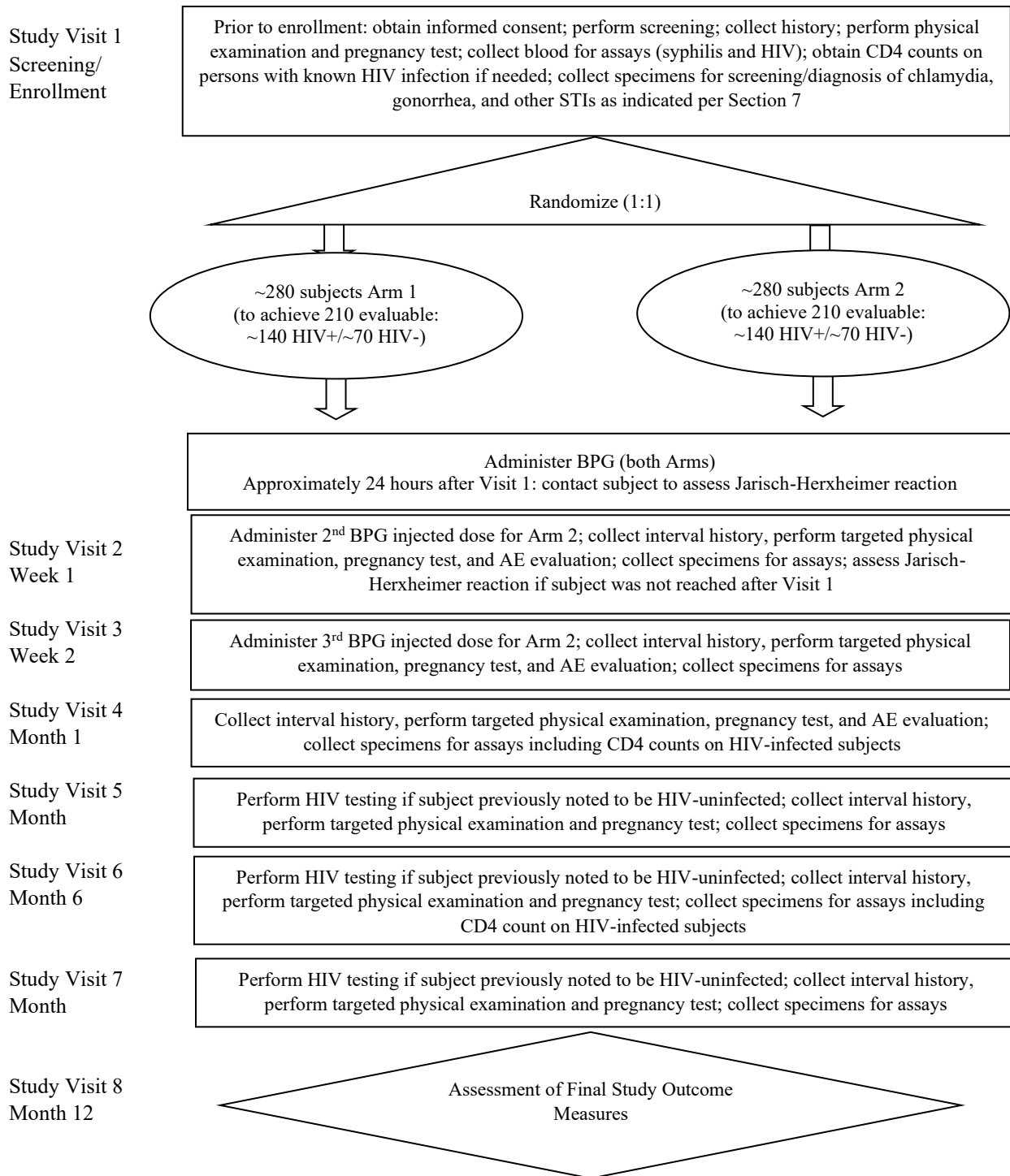


Table 2: Schedule of Study Procedures

Procedures		Visit 1 – Screening/ Enrollment (Day 1)	Contact (approx. 24 hours after Visit 1)	Visit 2 (Week 1 – Day 7 to 13)	Visit 3 (Week 2 – 6 to 12 days after Visit 2)	Visit 4 (Month 1 – Day 30 ± 7 days)	Visit 5 (Month 3 – Day 90 ± 21 days)	Visit 6 (Month 6 – Day 180 ± 21 days)	Visit 7 (Month 9 – Day 270 ± 28 days)	Visit 8 (Month 12 – Day 360 ± 28 days)	Early Termination	Unscheduled Visit ¹⁵
Informed consent		X										
Demographics		X										
Eligibility criteria		X										
Medical history ¹		X		X	X	X	X	X	X	X	X	X
Sexual history ²		X		X	X	X	X	X	X	X	X	X
Targeted physical exam ³		X		X	X	X	X	X	X	X	X	X
Pregnancy test ⁴		(X)		(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Concomitant medications ⁵		X		X	X	X	X	X	X	X	X	X
Specimen collection	RPR titer	X		X	X	X	X	X	X	X	X	
	Storage	X		X	X	X	X	X	X	X	X	
	CD4 count ⁶	(X)				(X)		(X)		(X)	(X)	
	HIV testing ⁷	(X)					(X)	(X)	(X)	(X)	(X)	
	Other STI screening/diagnosis ⁸	X		(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Oral cavity and lesions (if present) swabbed ⁹	(X)		(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Randomization		X										
BPG administered ¹⁰		X		(X)	(X)							
Contact information collected/reviewed ¹¹		X		X	X	X	X	X	X	X	X	X
Jarisch-Herxheimer checklist ¹²		X	X	(X)								
Jarisch-Herxheimer reaction assessed ¹³			X	(X)								
Resolution of syphilis signs assessed				X	X							
AEs/SAEs assessed ¹⁴		X		X	X	X						X

Procedures	Visit 1 – Screening/ Enrollment (Day 1)	Contact (approx. 24 hours after Visit 1)	Visit 2 (Week 1 – Day 7 to 13)	Visit 3 (Week 2 – 6 to 12 days after Visit 2)	Visit 4 (Month 1 – Day 30 ± 7 days)	Visit 5 (Month 3 – Day 90 ± 21 days)	Visit 6 (Month 6 – Day 180 ± 21 days)	Visit 7 (Month 9 – Day 270 ± 28 days)	Visit 8 (Month 12 – Day 360 ± 28 days)	Early Termination	Unscheduled Visit ¹⁵
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(X) – As indicated/appropriate. Refer to footnotes below and protocol Section 7.

- ¹ At Visit 1, collect complete medical history (including review of medical records for the past 14 days, if available). At subsequent visits, review medical history (including interval medical records, if available) and update as appropriate.
- ² At Visit 1, collect sexual history for the past 60 days. At subsequent visits, collect interim sexual history since last visit.
- ³ Targeted physical exam includes vital signs: temperature, heart rate, respiration rate, and blood pressure; and genital, rectal, oral, skin, and lymph node examinations.
- ⁴ Perform on subjects of childbearing potential. At Visit 1, urine or serum pregnancy test is permitted. At subsequent visits, perform urine pregnancy test.
- ⁵ At Visit 1, record concomitant medications taken in the last 30 days before initiating BPG. At subsequent visits, record all concomitant medications taken since the last visit and update previously recorded medications as appropriate.
- ⁶ Collect for subjects with known HIV infection whose medical records do not include a CD4 count in the past 30 days; at Visit 4, this is only applicable to subjects newly found to have HIV infection from Visit 1 to Visit 4 (inclusive).
- ⁷ Perform for subjects who do not have a previously documented positive HIV test result using locally available tests (e.g., nucleic acid tests (NATs), antibody/antigen tests).
- ⁸ At Visit 1, collect specimens at sites of exposure for screening/diagnosis of chlamydia and gonorrhea for all subjects who have not been tested and have been sexually active in the past 14 days and for other STIs as indicated by local standard of care and subject history. At subsequent visits, collect specimens at sites of exposure for STI testing per local standard of care and subject history.
- ⁹ It is optional to swab subject’s oral cavity and lesions, if lesions are present. See protocol Section 8.2.2.
- ¹⁰ At Visit 1, administer BPG to all subjects. At Visits 2 and 3, administer BPG to subjects in Arm 2 only.
- ¹¹ At Visit 1, collect contact information. At subsequent visits, review contact information and update if needed.
- ¹² Distribute checklist at Visit 1. Subject refers to completed checklist during Jarisch-Herxheimer assessment; see protocol Sections 7 and 8.1.
- ¹³ Assess per protocol Section 8.1. If subject is not reached, assess at Visit 2.
- ¹⁴ Assess and record all AEs/SAEs (including solicited reactogenicity AEs and other unsolicited AEs).
- ¹⁵ At Unscheduled Visits, any of the specified evaluations that are relevant to the subject may be performed at the discretion of the site PI.

Table 3: Dates of First Treatment by Site – Safety Population

[Implementation Note: Dates will be categorized based on length of enrollment period; try breaking the calendar year into halves first, if too many rows, will discuss and adjust the length.]

Dates of Dosing	Site 1 (N = X)		Site 2 (N = X)		...	All Subjects (N = X)	
	n	%	n	%	...	n	%
DDMMYYYY-DDMMYYYY	x	x	x	x	...	x	x
DDMMYYYY-DDMMYYYY	x	x	x	x	...	x	x
DDMMYYYY-DDMMYYYY	x	x	x	x	...	x	x
DDMMYYYY-DDMMYYYY	x	x	x	x	...	x	x

Note: N=Number of subjects in the safety population

Table 4: Dates of First Treatment by Treatment Group - Safety Population

[Implementation Note: Dates will be categorized based on length of enrollment period; try breaking the calendar year into halves first, if too many rows, will discuss and adjust the length.]

Dates of Dosing	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N = X)	
	n	%	n	%	n	%
DDMMMYYYY-DDMMMYYYY	x	x	x	x	x	x
DDMMMYYYY-DDMMMYYYY	x	x	x	x	x	x
DDMMMYYYY-DDMMMYYYY	x	x	x	x	x	x
DDMMMYYYY-DDMMMYYYY	x	x	x	x	x	x

Note: N=Number of subjects in the safety population

Table 5: ITT and mITT Analysis Population Eligibilities by Treatment Group - All Enrolled subjects

			One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
Analysis Population	Eligibility Category	Reason Subjects Excluded	n	%	n	%	n	%
Intent-to-Treat Analysis Population	Eligible for ITT Population	N/A	x	100	x	100	x	100
	Excluded from ITT Population	Any Reason	x	-	x	-	x	-
		Failed screening	x	-	x	-	x	-
Modified Intent-to-Treat Analysis Population	Eligible for mITT Population	N/A	x	xx	x	xx	x	xx
	Excluded from mITT Population	Any Reason	x	xx	x	xx	x	xx
		not eligible at the baseline visit	x	xx	x	xx	x	xx
		Did not have a positive TPPA result at the baseline visit and/or at Visit 5 (Month 3), if repeat testing was performed	x	xx	x	xx	x	xx

Notes: N, the denominator of percentages is the number of enrolled subjects in the specified treatment.

Treatment group is the intended randomized group.

Refer to [Listing 1](#) for subjects who are excluded from the Analysis populations.

Table 6: Safety and Evaluable Population Eligibilities by Treatment Group

			One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
Analysis Population	Eligibility Category	Reason Subjects Excluded	n	%	n	%	n	%
Safety Analysis Population	Eligible for Safety Population	N/A	x	x	x	x	x	x
	Excluded from Safety Population	Any Reason	x	x	x	x	x	x
		Did not receive at least one dose of study product	x	x	x	x	x	x
Evaluable Analysis Population by Month 6	Eligible for Evaluable Population by Month 6	N/A	x	x	x	x	x	x
	Excluded from Evaluable Population by Month 6	Any Reason	x	x	x	x	x	x
		HIV status unknown at the baseline visit	x	x	x	x	x	x
		Did not have a positive TPPA result at the baseline visit and/or at Visit 5 (Month 3), if repeat testing was performed	x	x	x	x	x	x
		Did not receive all assigned doses of BPG	x	x	x	x	x	x
		Did not have adequate RPR titer data available at baseline and applicable follow-up visit(s) by Month 6	x	x	x	x	x	x
		Received antibiotic(s) active against <i>T. pallidum</i> between enrollment and the applicable follow-up visit(s) by Month 6 for reasons other than syphilis infection ^a	x	x	x	x	x	x
HIV-uninfected status did not persist through applicable follow-up visit(s) by Month 6 (for HIV-uninfected subjects only)	x	x	x	x	x	x		
Evaluable Analysis Population by Month 12	Eligible for Evaluable Population by Month 12	N/A	x	x	x	x	x	x
	Excluded from Evaluable Population by Month 12	Any Reason	x	x	x	x	x	x
		HIV status unknown at or before the baseline visit	x	x	x	x	x	x
		Did not have a positive TPPA result at the baseline visit and/or at Visit 5 (Month 3), if repeat testing was performed	x	x	x	x	x	x
		Did not receive all assigned doses of BPG	x	x	x	x	x	x
Did not have adequate RPR titer data available at baseline and applicable follow-up visit(s) by Month 12	x	x	x	x	x	x		

Analysis Population	Eligibility Category	Reason Subjects Excluded	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
			n	%	n	%	n	%
		Received antibiotic(s) active against <i>T. pallidum</i> between enrollment and the applicable follow-up visit(s) by Month 12 ^a	x	x	x	x	x	x
		HIV-uninfected status did not persist through applicable follow-up visit(s) by Month 12 (for HIV-uninfected subjects only)	x	x	x	x	x	x

Notes: Denominator of percentages is the number of enrolled subjects in the specified treatment group. N=number of enrolled subjects in the specified treatment group
Treatment group is the actual treatment a subject received.

Refer to [Listing 1](#) for subjects who are excluded from the Analysis populations.

^a A blinded case review committee reviewed subjects' data and determined if the antibiotics use effect the subjects' inclusion eligibility in evaluable populations.

Table 7: Summary of Halting Rules - Safety Population

Halting Rules	Halting Rule Triggered (Yes/No)	# Contributing to Halting Rule/ Total Needed to Halt
If one or more subjects experience an SAE judged by an investigator to be related to the study drug	Yes/No	x/1
An overall pattern of clinical events that the DMID Medical Monitor or DSMB consider associated with the study drug and that may appear minor in terms of individual events, but that may collectively represent a serious potential concern for safety	Yes/No	x/1

Table 8: Summary of Screen Failures

Inclusion/Exclusion Category	Inclusion/Exclusion Criterion	n^a	%^b
Inclusion and Exclusion	Number of subjects failing any eligibility criterion	x	100
Inclusion	Any inclusion criterion	x	xx
	[inclusion criterion 1]	x	xx
	[inclusion criterion 2]	x	xx
	[inclusion criterion 3]	x	xx
Exclusion	Any exclusion criterion	x	xx
	[exclusion criterion 1]	x	xx
	[exclusion criterion 2]	x	xx
	[exclusion criterion 3]	x	xx

^a More than one criterion may be marked per subject.

^b Denominator for percentages is the total number of screen failures.

Table 9: Subject Disposition by Treatment Group- All Enrolled Subjects

Subject Disposition	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
	n	%	n	%	n	%
Screened	N/A	N/A	N/A	N/A	x	N/A
Enrolled/Randomized	x	100	x	100	x	100
Received the First Dose of Treatment	x	xx	x	xx	x	xx
Received All Scheduled Treatment ^a	x	xx	x	xx	x	xx
Complied with Treatment ^b	x	xx	x	xx	x	xx
Completed Month 6 RPR Blood Draw	x	xx	x	xx	x	xx
Completed Month 12 RPR Blood Draw	x	xx	x	xx	x	xx
Completed Follow-up Visit 8 – Month 12 (Day 360±28 days) ^a	x	xx	x	xx	x	xx

Notes: N=Number of enrolled subjects in the specified treatment group.

^a Refer to [Listing 2](#) for reasons subjects discontinued or terminated early.

^b Subjects are considered compliant to the treatment if subjects receive all assigned doses within the assigned visit windows.

Table 10: Distribution of Protocol Deviations by Category, Type, and Treatment Group – All Enrolled subjects

Category	Deviation Type	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
		No. of Subj.	No. of Dev.	No. of Subj.	No. of Dev.	No. of Subj.	No. of Dev.
Treatment administration schedule	Any type	x	x	x	x	x	x
	Out of window visit	x	x	x	x	x	x
	Missed visit/visit not conducted	x	x	x	x	x	x
	Missed treatment administration	x	x	x	x	x	x
	Delayed treatment administration	x	x	x	x	x	x
	Other	x	x	x	x	x	x
Follow-up visit schedule	Any type	x	x	x	x	x	x
	Out of window visit	x	x	x	x	x	x
	Missed visit/visit not conducted	x	x	x	x	x	x
	Other	x	x	x	x	x	x
Protocol procedure/assessment	Any type	x	x	x	x	x	x
	Incorrect version of ICF signed	x	x	x	x	x	x
	Blood not collected	x	x	x	x	x	x
	Other specimen not collected	x	x	x	x	x	x
	Too few aliquots obtained	x	x	x	x	x	x
	Specimen result not obtained	x	x	x	x	x	x
	Required procedure not conducted	x	x	x	x	x	x
	Required procedure done incorrectly	x	x	x	x	x	x
	Study product temperature excursion	x	x	x	x	x	x
	Specimen temperature excursion	x	x	x	x	x	x
	Other	x	x	x	x	x	x
Treatment administration	Any type	x	x	x	x	x	x
	Required procedure done incorrectly	x	x	x	x	x	x
	Study product temperature excursion	x	x	x	x	x	x
	Other	x	x	x	x	x	x

Note: N=Number of enrolled subjects randomized to the specified treatment group.

Table 11: Serological Response to Therapy by Month 6 by Treatment Group

Population	Treatment Group*	Number of Subjects with Serological Response, n	Number of Subjects, N	Proportion of Subjects with Serological Response (95% CI) ^a	Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups (95% CI) ^a	P-Value ^b
ITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
mITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
Evaluable Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		

^aThe denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population. 95% CI = 95% Wilson Confidence Interval

^bP-value is calculated based on the noninferiority analysis for the proportion difference (one-dose group is non-inferior to three-dose group) by Farrington-Manning method with a 10% margin.

*Treatment group is the intended randomized group for ITT and mITT populations. Treatment group is the actual treatment a subject received for the Evaluable population.

Table 12: Serological Response to Therapy by Month 12 by Treatment Group

Population	Treatment Group	Number of Subjects with Serological Response, n	Number of Subjects, N	Proportion of Subjects with Serological Response (95% CI) ^a	Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups (95% CI)	P-Value ^b
ITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
Evaluable Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		

^aThe denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population. 95% CI = 95% Wilson Confidence Interval

^bP-value is calculated based on the noninferiority analysis for the proportion difference (one-dose group is non-inferior to three-dose group) by Farrington-Manning method with a 10% margin.

*Treatment group is the intended randomized group for ITT population. Treatment group is the actual treatment a subject received for the Evaluable population.

Table 13: Summary Statistics for Comparison of Treatment Groups with Respect to Response Rate across Baseline HIV Status by Month 6

Population	Test Method	Statistic	Result
ITT Population	Cochran-Mantel-Haenszel Test	Relative Risk - HIV positive (95% CI)	x.xxx(x.xxx, x.xxx)
		Relative Risk - HIV negative (95% CI)	x.xxx(x.xxx, x.xxx)
		Common Relative Risk ^a (95% CI)	x.xxx(x.xxx, x.xxx)
		P-value	0.xxx
	Breslow-Day Test for Homogeneity of the Odds Ratios	Common Odds Ratio	x.xxx(x.xxx, x.xxx)
		P-value	0.xxx
Evaluable Population	Cochran-Mantel-Haenszel Test	Relative Risk - HIV positive (95% CI)	x.xxx(x.xxx, x.xxx)
		Relative Risk - HIV negative (95% CI)	x.xxx(x.xxx, x.xxx)
		Common Relative Risk ^a (95% CI)	x.xxx(x.xxx, x.xxx)
		P-value	0.xxx
	Breslow-Day Test for Homogeneity of the Odds Ratios	Common Odds Ratio	x.xxx(x.xxx, x.xxx)
		P-value	0.xxx

^a The denominator for proportion is based on the number of subjects enrolled in the specified treatment group, HIV status and analysis population. The numerator is the number of subjects who were responders in in the specified treatment group, HIV status and analysis population.

Table 14: Serological Response to Therapy by Each Timepoint by Treatment Group - ITT Population

Time	Treatment Group	Number of Subjects with Serological Response, n	Number of Subjects, N	Proportion of Subjects with Serological Response (95% CI) ^a
Week 1	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Week 2	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Week 3	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Month 1	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Month 3	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Month 6	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Month 9	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
Month 12	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)

^aThe denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population. 95% CI = 95% Wilson Confidence Interval

Table 15: Serological Response to Therapy by Month 6 by Treatment Group and Baseline HIV Status

Population	Baseline HIV Status	Treatment Group	Number of Subjects with Serological Response, n	Number of Subjects, N	Proportion of Subject with Serological Response (95% CI)	Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups
ITT Population	HIV-infected	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)
		Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	
		All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A
	HIV-uninfected	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)
		Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	
		All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A
Evaluable Population	HIV-infected	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)
		Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	
		All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A
	HIV-uninfected	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)
		Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	
		All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A

Notes: The denominator for proportion is based on the number of subjects enrolled in the respective treatment group and analysis population.
95% CI= 95% Wilson Confidence Interval

Tables with similar format:

Table 16: Serological Response to Therapy at Month 12 by Treatment Group and Baseline HIV Status

Table 17: RPR Geometric Mean Titer (GMT) and RPR Geometric Mean Fold Decline (GMFD) by Visit, Treatment Group and Baseline HIV Status — ITT Population

[Implementation Note: Visit 1 will not have GMFD or GMFD 95% CI rows.]

Time Point	Statistic	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)		
		HIV-infected	HIV-uninfected	All	HIV-infected	HIV-uninfected	All	HIV-infected	HIV-uninfected	All
Baseline	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
Week 1	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
Week 2	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
Month 1	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
Month 2	n	x	x	x	x	x	x	x	x	x
	GMT	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx

Time Point	Statistic	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)		
		HIV-infected	HIV-uninfected	All	HIV-infected	HIV-uninfected	All	HIV-infected	HIV-uninfected	All
Month 6	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
Month 9	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
Month 12	n	x	x	x	x	x	x	x	x	x
	GMT	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMT 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx
	GMFD	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	GMFD 95% CI	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx	x.xx, x.xx

Notes: N=Number of subjects who had RPR titer results available in the specified analysis population in the specified treatment group at the specified visit. RPR titer results from the early termination visit that occurred between scheduled visits are excluded.

GMFD represents the geometric mean fold decline in antibody counts compared to baseline

Tables with similar format:

Table 18: RPR Geometric Mean Titer (GMT) and RPR Geometric Mean Fold Decline (GMFD) by Visit, Treatment Group and Baseline HIV Status— Evaluable Population by Month 6

Table 19: RPR Geometric Mean Titer (GMT) and RPR Geometric Mean Fold Decline (GMFD) by Visit, Treatment Group and Baseline HIV Status— Evaluable Population by Month 12

Table 20: Subjects Compliant with Study Product by Treatment Group

Population	Treatment Group	Number of Compliant ^a Subjects, n	Number of Subjects, N	Proportion (95% CI)	Difference in Proportion Between Two Treatment Groups (95% CI)	P-Value ^b
ITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A	N/A
Evaluable Population by Month 6	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A	N/A
Evaluable Population by Month 12	One Dose BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)	0.xx (0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx (0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx (0.xx, 0.xx)	N/A	N/A

Notes: The denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population.

95% CI= 95% Wilson Confidence Interval

^a Subjects are compliant if they receive all assigned doses within the assigned visit windows.

^b P-value is calculated based on the two-sided Pearson Chi-Square test at the .05 level of significance.

Table 21: Summary of Categorical Demographics and Socio-epidemiologic Characteristics at Baseline by HIV Status and Treatment Group — ITT Population

Variable	Characteristic	One Dose BPG 2.4 MU						Three Doses BPG 2.4 MU						All Subjects					
		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)	
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Sex	Male	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Female	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
Ethnicity	Not Hispanic or Latino	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Hispanic or Latino	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Not Reported	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Unknown	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
Race	American Indian or Alaskan Native	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Asian	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Native Hawaiian or Other Pacific Islander	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Black or African American	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	White	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Multi-Racial	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	Unknown	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
Highest level of education completed?	Did not complete high school	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Completed high school	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Completed junior college	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	undergraduate degree	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Completed graduate degree	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Table 22: Summary of Continuous Demographics and Socio-epidemiologic Characteristics at Baseline by HIV Status and Treatment Group — ITT Population

Variable	Statistic	One Dose BPG 2.4 MU			Three Doses BPG 2.4 MU			All Subjects		
		HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)
Age	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Years of formal education	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x

Table 23: Summary of Categorical Sexual History at Baseline by HIV Status and Treatment Group — ITT Population

Variable	Characteristic	One Dose BPG 2.4 MU						Three Doses BPG 2.4 MU						All Subjects					
		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)	
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Gender identity	Man	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Woman	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Trans male	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Trans female	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Non-conforming	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Multiple	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Non-binary	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Other	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Declined to respond	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Sexual orientation	Heterosexual	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Homosexual	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Bisexual	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Other	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Declined to respond	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Sexual partner	Men	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Women	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Trans males	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Transferals	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Multiple	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Other	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Declined to respond	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Variable		Characteristic		One Dose BPG 2.4 MU						Three Doses BPG 2.4 MU						All Subjects					
				HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)	
				n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Sexual intercourse in the past 60 days?		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Unknown	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
If yes to above question,	Sites of exposure	Oral receptive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Oral active	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Rectal receptive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Rectal insertive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Genital/vaginal	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
	Condom or barrier for protection?	Always	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Sometimes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Never	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Any known exposures to an STD in the past 60 days?		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
		No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
		Unknown	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
Diagnosed with gonorrhea in the past 60 days?		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
		No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
Tested for gonorrhea in the past 14 days?		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
		No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
If yes to above question,	Test results?	Positive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
		Negative	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			

Variable		Characteristic		One Dose BPG 2.4 MU						Three Doses BPG 2.4 MU						All Subjects					
				HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)		HIV-infected (N=X)		HIV-uninfected (N=X)		All Subjects (N=X)	
				n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Diagnosed with chlamydia in the past 60 days?		Yes		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		No		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Tested for chlamydia in the past 14 days?		Yes		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		No		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
If yes to above question,	Test results?	Positive		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		Negative		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Diagnosed with any other STI in the past 60 days?		Yes		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
		No		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	

Table 24: Summary of Continuous Sexual History at Baseline by HIV Status and Treatment Group — ITT Population

Variable	Statistic	One Dose BPG 2.4 MU			Three Doses BPG 2.4 MU			All Subjects		
		HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)
Days since last had sexual intercourse in the past 60 days	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Total number of partners in the past 60 days	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of new partners	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of regular partners	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of occasional partners	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of male partners	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of female partners	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x

Variable	Statistic	One Dose BPG 2.4 MU			Three Doses BPG 2.4 MU			All Subjects		
		HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)
Days since last diagnosed with gonorrhea in the past 60 days	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Days since last diagnosed with chlamydia in the past 60 days	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Days since last diagnosed with any other STI in the past 60 days	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
	Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
	Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x

Table 25: Summary of Categorical Sexual History through Month 6 by Baseline HIV Status and Treatment Group— ITT Population

[Implementation notes for table 25, 27, and 29, the Time will be Week1 Week2 month1. Month 3 and Month 6; and for table 26, 28 and 30, the Time will be Month 9 and Month 12.]

Time	Variable	Characteristic	One Dose BPG 2.4 MU						Three Doses BPG 2.4 MU						All Subjects						
			Baseline HIV-infected (N=X)		Baseline HIV-uninfected (N=X)		All Subjects (N=X)		Baseline HIV-infected (N=X)		Baseline HIV-uninfected (N=X)		All Subjects (N=X)		Baseline HIV-infected (N=X)		Baseline HIV-uninfected (N=X)		All Subjects (N=X)		
			n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	
Week 1	Sexual intercourse since last visit?	Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
		No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Unknown	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Since last visit, if the subject had sexual intercourse, indicate sites of exposure	Oral receptive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Oral active	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Rectal receptive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Rectal insertive	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Since last visit, if the subject had sexual intercourse, indicate sites of exposure	Genital/vaginal	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Always	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Since last visit, if the subject had sexual intercourse, how often did the subject use a condom or barrier for protection?	Sometimes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Never	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Any known exposures to syphilis since last visit?	No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Unknown	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Any known exposures to another STD since last visit?	No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Unknown	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Time	Variable	Characteristic	One Dose BPG 2.4 MU						Three Doses BPG 2.4 MU						All Subjects						
			Baseline HIV-infected (N=X)		Baseline HIV-uninfected (N=X)		All Subjects (N=X)		Baseline HIV-infected (N=X)		Baseline HIV-uninfected (N=X)		All Subjects (N=X)		Baseline HIV-infected (N=X)		Baseline HIV-uninfected (N=X)		All Subjects (N=X)		
			n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	
	Since last visit, was the subject treated or does the subject require retreatment for syphilis infection apart from study treatment received according to their randomization assignment?	Yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
		No	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Unknown	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Since last visit, if the subject was treated or require retreatment for syphilis infection apart from study treatment received according to their randomization, how was retreatment need determined?	Local RPR results	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Known re-exposure		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Return of or worsening symptoms		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Other		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Week 2 ...																					

Tables with similar format:

Table 26: Summary of Categorical Sexual History through Month 12 by Baseline HIV Status and Treatment Group — ITT Population

Table 27: Summary of Categorical Sexual History through Month 6 by Baseline HIV Status and Treatment Group — Evaluable Population by Month 6

Table 28: Summary of Categorical Sexual History through Month 12 by Baseline HIV Status and Treatment Group — Evaluable Population by Month 12

Table 29: Summary of Continuous Sexual History through Month 6 by Baseline HIV Status and Treatment Group

Population	Time	Variable	Statistic	One Dose BPG 2.4 MU			Three Doses BPG 2.4 MU			All Subjects			
				HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	HIV-infected (N=X)	HIV-uninfected (N=X)	All Subjects (N=X)	
ITT Population	Week 1	Total number of partners since last visit	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	
			Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
			Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
		Number of new partners since last visit	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
			Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
			Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
		Number of continuing partners since last visit	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
			Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
			Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
	Week 2...												
	Evaluable Population by Month 6	Week 1	Total number of partners	Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
				Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
Min, Max				x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of new partners			Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
			Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
			Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Number of continuing partners			Mean (SD)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)	x.x (x.x)
			Median	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x	x.x
			Min, Max	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x	x, x
Week 2....													

Notes: N= Number of enrolled subjects in the specified baseline HIV status subgroup and analysis population.
 Baseline is the Screening/Enrollment - Visit 1.
 The numbers at each visit within the table specified period were totaled before deriving the summary statistics.

Tables with similar format:

Table 30: Summary of Continuous Sexual History through Month 12 by Baseline HIV Status and Treatment Group

Table 31: Sensitivity analysis 1 - Serological Response to Therapy at Month 6 by Treatment Group – Removing Early Termination Due to COVID

Population	Treatment Group*	Number of Subjects with Serological Response, n	Number of Subjects, N	Proportion of Subjects with Serological Response (95% CI) ^a	Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups (95% CI) ^a	P-Value
ITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx(0.xx, 0.xx)	N/A	N/A
mITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx(0.xx, 0.xx)	N/A	N/A
Evaluable Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx(0.xx, 0.xx)	N/A	N/A

Notes: The denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population.

^a 95% CI= 95% Wilson Confidence Interval

Table 32: Sensitivity analysis 2 - Serological Response to Therapy at Month 6 by Treatment Group – Re-defined Serological Response

Population	Treatment Group*	Number of Subjects with Serological Response, n	Number of Subjects, N	Proportion of Subjects with Serological Response (95% CI) ^a	Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups (95% CI) ^a	P-Value
ITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx(0.xx, 0.xx)	N/A	N/A
mITT Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx(0.xx, 0.xx)	N/A	N/A
Evaluable Population	One Dose BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)	0.xx(0.xx, 0.xx)	0.xxx
	Three Doses BPG 2.4 MU	xxx	xxx	0.xx(0.xx, 0.xx)		
	All Subjects	xxx	xxx	0.xx(0.xx, 0.xx)	N/A	N/A

Notes: The denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population.

^a 95% CI= 95% Wilson Confidence Interval

Table 33: Exploratory Analysis---Serological Response to Therapy by Month 6 by Treatment Group

[Implementation Notes: Treatment group is the intended randomized group for ITT and mITT populations. Treatment group is the actual treatment a subject received for the Evaluable populations.]

Population	Treatment Group	Number (Proportion) of Subjects with Serological Response ^a	Number (Proportion) of Subjects with Serological Non-Response ^a	Number (Proportion) of Subjects with Failure ^a Serological Response	Number of Subjects, N
ITT Population	One Dose BPG 2.4 MU	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
	Three Doses BPG 2.4 MU	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
	All Subjects	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
mITT Population	One Dose BPG 2.4 MU	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
	Three Doses BPG 2.4 MU	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
	All Subjects	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
Evaluable Population	One Dose BPG 2.4 MU	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
	Three Doses BPG 2.4 MU	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx
	All Subjects	xxx (0.xx)	xxx (0.xx)	xxx (0.xx)	xxx

Notes: The denominator for proportion is based on the number of subjects enrolled in the specified treatment group and analysis population.

95% CI= 95% Wilson Confidence Interval

^a Alternative serological response classifications – Response: 4-fold decline in RPR titer compared to baseline, or RPR-negative (i.e., seroreversion); Non-Response: Less than 4-fold decline in RPR titer compared to baseline, and RPR-positive; Failure: 4-fold or greater increase in RPR titer without a clear history of re-exposure, and less than 4-fold decline in RPR titer at all visit compared to baseline.

Table 34: Summary of Subjects with Pre-Existing Medical Conditions by MedDRA System Organ Class and Treatment Group - Safety Population

MedDRA System Organ Class	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
	n	%	n	%	n	%
Any SOC	x	x	x	x	x	x
[SOC 1]	x	x	x	x	x	x
[SOC 2]	x	x	x	x	x	x

Notes: N=number of subjects in the specified treatment group in the Safety Population.

n = Number of subjects reporting medical history within the specified SOC.

A subject is only counted once per SOC.

Table 35: Number and Percentage of Subjects with Prior and Concomitant Medications by WHO Drug Classification and Treatment Group - Safety Population

WHO Drug Code Level 1, Anatomic Group	WHO Drug Code Level 2, Therapeutic Subgroup	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
		n	%	n	%	n	%
Any Level 1 Codes	Any Level 2 Codes	x	x	x	x	x	x
[ATC Level 1 - 1]	Any	x	x	x	x	x	x
	[ATC 2 - 1]	x	x	x	x	x	x
	[ATC 2 - 2]	x	x	x	x	x	x
	[ATC 2 - 3]	x	x	x	x	x	x
[ATC Level 1 – 2]	Any	x	x	x	x	x	x
	[ATC 2 - 1]	x	x	x	x	x	x
	[ATC 2 - 2]	x	x	x	x	x	x
	[ATC 2 - 3]	x	x	x	x	x	x

Notes: N= Number of subjects in the specified treatment group and the Safety population
n=Number of subjects reporting taking at least one medication in the specific WHO Drug Class.

Table 36: Overall Summary of Adverse Events - Safety Population

	One Dose BPG 2.4 MU (N = X)		Three Doses BPG 2.4 MU (N = X)		All Subjects (N=X)	
	n	%	n	%	N	%
Subjects ^a with						
At least one local solicited adverse event	x	x	x	x	x	x
At least one systemic solicited adverse event	x	x	x	x	x	x
At least one unsolicited adverse event	x	x	x	x	x	x
At least one related unsolicited adverse event	x	x	x	x	x	x
Mild (Grade 1)	x	x	x	x	x	x
Moderate (Grade 2)	x	x	x	x	x	x
Severe (Grade 3)	x	x	x	x	x	x
Not yet assessed						
At least one severe (Grade 3) unsolicited adverse event	x	x	x	x	x	x
Related	x	x	x	x	x	x
Unrelated	x	x	x	x	x	x
At least one serious adverse event ^b	x	x	x	x	x	x
At least one related, serious adverse event	x	x	x	x	x	x
At least one adverse event leading to early termination ^c	x	x	x	x	x	x

Notes: N = Number of subjects in the Safety Population

^a Subjects are counted once for each category regardless of the number of events.

^b A listing of Serious Adverse Events is included in [Table 47](#)

^c As reported on the Adverse Event eCRF.

Table 37: Number and Percentage of Subjects Experiencing Solicited Events with 95% Confidence Intervals by Symptom and Treatment Group — Safety Population

Category	Solicited Adverse Event	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)		
		n	%	95% CI	n	%	95% CI	n	%	95% CI
Solicited Adverse Events	Any Solicited Adverse Event	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
Solicited Local Adverse Events	Any Local Adverse Event	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Pain or tenderness	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Erythema or redness	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Induration or swelling	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
Solicited Systemic Adverse Events	Any Systemic Adverse Event (Jarisch-Herxheimer reaction)	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Feverishness	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Chills	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Myalgia	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Weakness	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Flushing	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Worsening of skin rash	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Tachycardia	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Heart palpitations	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Generalized arthralgia	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Nausea	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Headache	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x
	Dizziness	x	x	x.x, x.x	x	x	x.x, x.x	x	x	x.x, x.x

Notes: N = number of subjects in the specified treatment group in the Safety Population. 95% CI= 95% Wilson Confidence Interval
A subject is only counted once per solicited adverse event.

Table 38: Number and Percentage of Subjects Experiencing Solicited Systemic Events by Symptom, Maximum Severity and Treatment Group — Safety Population

	Severity	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)			
		n	%	95% CI	n	%	95% CI	n	%	95% CI	
Any Solicited Systemic Event	Any severity	x	x	x,x	x	x	x,x	x	x	x,x	
	None	x	x	x,x	x	x	x,x	x	x	x,x	
	Mild	x	x	x,x	x	x	x,x	x	x	x,x	
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x	
	Severe	x	x	x,x	x	x	x,x	x	x	x,x	
Jarisch-Herxheimer Reaction	Feverishness	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
		None	x	x	x,x	x	x	x,x	x	x	x,x
		Mild	x	x	x,x	x	x	x,x	x	x	x,x
		Moderate	x	x	x,x	x	x	x,x	x	x	x,x
		Severe	x	x	x,x	x	x	x,x	x	x	x,x
	Chills	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
		None	x	x	x,x	x	x	x,x	x	x	x,x
		Mild	x	x	x,x	x	x	x,x	x	x	x,x
		Moderate	x	x	x,x	x	x	x,x	x	x	x,x
		Severe	x	x	x,x	x	x	x,x	x	x	x,x
	Myalgia	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
		None	x	x	x,x	x	x	x,x	x	x	x,x
		Mild	x	x	x,x	x	x	x,x	x	x	x,x
		Moderate	x	x	x,x	x	x	x,x	x	x	x,x
		Severe	x	x	x,x	x	x	x,x	x	x	x,x

	Severity	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)		
		n	%	95% CI	n	%	95% CI	n	%	95% CI
Weakness	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Flushing	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Worsening of skin rash	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Tachycardia	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Heart palpitations	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x

	Severity	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)		
		n	%	95% CI	n	%	95% CI	n	%	95% CI
Generalized arthralgia	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Nausea	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Headache	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x
Dizziness	Any severity	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x

Note: Denominator for percentages is the number of subjects in the specified treatment group in the Safety Population with solicited adverse event data available after the first dose of study product. 95% CI= 95% Wilson Confidence Interval

Table 39: Number and Percentage of Subjects Experiencing Solicited Local Events with 95% Confidence Intervals by Symptom, Maximum Severity, Dose, and Treatment Group — Safety Population

[Implementation note applies to all tables: If the table will be multi-page, move the footnote/explanation to the footer so that it repeats for each page of the table.]

[Implementation note: Post each dose, use whichever is more severe between most severe response among days 1-6 and the maximum severity/measurement after day 6 from ZRL.]

Solicited Adverse Event	Severity ^a	Post Dose 1 [One Dose BPG 2.4 MU Group] (N=X)			Post Dose 1 [Three Doses BPG 2.4 MU Group] (N=X)			Post Dose 2 [Three Doses BPG 2.4 MU Group] (N=X)			Post Dose 3 [Three Doses BPG 2.4 MU Group] (N=X)			Post Any Dose [Three Doses BPG 2.4 MU Group] (N=X)			Overall (N=X)		
		n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI
Any Solicited Local Event	Any Severity	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
Pain or tenderness	Any Severity	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
Erythema or redness	Any Severity	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x

Solicited Adverse Event	Severity ^a	Post Dose 1 [One Dose BPG 2.4 MU Group] (N=X)			Post Dose 1 [Three Doses BPG 2.4 MU Group] (N=X)			Post Dose 2 [Three Doses BPG 2.4 MU Group] (N=X)			Post Dose 3 [Three Doses BPG 2.4 MU Group] (N=X)			Post Any Dose [Three Doses BPG 2.4 MU Group] (N=X)			Overall (N=X)		
		n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI
Induration or swelling	Any Severity	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	None	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Mild	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Moderate	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x
	Severe	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x	x	x	x,x

Notes: Denominator for percentages is the number of subjects in the specified treatment group and the Safety Population with solicited adverse event data available after the first dose of study product
95% CI= 95% Wilson Confidence Interval

^a Each subject’s maximum severity is reported for each solicited adverse event across all doses.

Table 40: The Association of Treatment with Jarisch-Herxheimer Reaction after Adjusting for HIV Co-infection status and Jarisch-Herxheimer Reaction (JHR) Onset Time Post-dose by Logistic Regression - Safety Population

Risk Factors	Odds Ratio ^a	P-Value	Adjusted Odds Ratio ^b	95% Wald CIs	P-Value
Three Doses BPG 2.4 MU Group vs One Dose BPG 2.4 MU Group (ref)	x.x	x.xxx	x.x	x,x	x.xxx
Baseline HIV-infected vs Baseline HIV-uninfected (ref)	x.x	x.xxx	x.x	x,x	x.xxx
JHR Onset Time Post-dose: 0-12 hours vs >24-48 hours (ref)	x.x	x.xxx	x.x	x,x	x.xxx
JHR Onset Time Post-dose: >12-24 hours vs >24-48 hours (ref)	x.x	x.xxx	x.x	x,x	x.xxx

Note: P-value is from corresponding the logistic regression model for the variable.

^a Odds ratio is from univariate models;

^b Odds ratio is from the adjusted logistic model

Table 41: Number and Percentage of Subjects Experiencing Unsolicited Adverse Events with 95% Confidence Intervals by MedDRA System Organ Class and Preferred Term, Dose Number, and Treatment Group — Safety Population

MedDRA System Organ Class	MedDRA Preferred Term	Post Dose 1 [One Dose BPG 2.4 MU Group] (N = X)			Post Dose 1 [Three Doses BPG 2.4 MU Group] (N = X)			Post Dose 2 [Three Doses BPG 2.4 MU Group] (N = X)			Post Dose 3 [Three Doses BPG 2.4 MU Group] (N = X)			Post Any Dose [Three Doses BPG 2.4 MU Group] (N = X)			Overall (N = X)		
		n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI	n	%	95% CI
Any SOC	Any PT	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	X	x, x
[SOC 1]	Any PT	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	X	x, x
	[PT 1]	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	X	x, x
	[PT 2]	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	x	x, x	x	X	x, x

Notes: N = number of subjects in the specified treatment group and the Safety Population

This table presents number and percentage of subjects. 95% CI= 95% Wilson Confidence Interval

For each timepoint, a subject is only counted once per PT. For a subject who had an AE ongoing through multiple doses, do we count the subject once at the earliest dose when the AE started? That is, AE ongoing from post dose 1 to post dose 2, we'll count the subject once in the post dose 1 column, and not in the post dose 2 column.

Table with similar format:

Table 42: Number and Percentage of Subjects Experiencing Related Unsolicited Adverse Events with 95% Confidence Intervals by MedDRA System Organ Class and Preferred Term, Dose Number, and Treatment Group — Safety Population

Table 43: Number of Unsolicited Adverse Events by MedDRA System Organ Class and Preferred Term, Maximum Severity and Relationship, and Treatment Group — Safety Population

[Implementation note: check if there were any Not Yet Determined events, report if yes.]

MedDRA SOC	Preferred Term	Severity	One Dose BPG 2.4 MU (n = X)			Three Doses BPG 2.4 MU (n = X)			All Subjects (n = X)		
			Related	Not Related	Total	Related	Not Related	Total	Related	Not Related	Total
Any SOC	Any PT	Any Severity	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Mild	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Moderate	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Severe	xx	xx	xx	xx	xx	xx	xx	xx	xx
SOC 1	PT 1	Any Severity	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Mild	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Moderate	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Severe	xx	xx	xx	xx	xx	xx	xx	xx	xx
	PT 2	Any Severity	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Mild	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Moderate	xx	xx	xx	xx	xx	xx	xx	xx	xx
		Severe	xx	xx	xx	xx	xx	xx	xx	xx	xx

Note: n = Number of events for subjects in the Safety Population.

Table 44: Number and Percentage of Subjects Experiencing Unsolicited Adverse Events by MedDRA System Organ Class and Preferred Term, Maximum Severity and Relationship, and Treatment Group — Safety Population

MedDRA System Organ Class	Preferred Term	Severity	One Dose BPG 2.4 MU (N = X)						Three Doses BPG 2.4 MU (N = X)						All Subjects (N = X)					
			Related		Not Related		Total		Related		Not Related		Total		Related		Not Related		Total	
			n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Any SOC	Any PT	Any Severity	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Mild	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Moderate	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Severe	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
SOC 1	PT 1	Any Severity	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Mild	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Moderate	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Severe	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
	PT 2	Any Severity	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Mild	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Moderate	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx
		Severe	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx	x	xx

Notes: N = Number of subjects in the Safety Population.
For severity, a subject is counted once per preferred term and is summarized according to their highest severity.

Table 45: Unsolicited Adverse Events Occurring in $\geq 5\%$ of Subjects in Any Treatment Group by MedDRA System Organ Class, Preferred Term, and Treatment Group - Safety Population

Preferred Term	MedDRA System Organ Class	One Dose BPG 2.4 MU (N = X)			Three Doses BPG 2.4 MU (N = X)			All Subjects (N=X)		
		n	%	Events	n	%	Events	n	%	Events
Serious Adverse Events										
All	All	x	x	x	x	x	x	x	X	x
PT1	SOC1	x	x	x	x	x	x	x	X	x
Etc.	Etc.	x	x	x	x	x	x	x	X	x
Non-serious Adverse Events										
All	All	x	x	x	x	x	x	x	X	x
PT1	SOC1	x	x	x	x	x	x	x	X	x
Etc	Etc	x	x	x	x	x	x	x	X	x

N = number of subjects in the specified treatment group and the Safety Population

n= number of subjects reporting event.

Events= total frequency of events reported.

Table with similar format:

Table 46: Solicited Adverse Events Occurring in $\geq 5\%$ of Subjects in Any Treatment Group by MedDRA System Organ Class, Preferred Term, and Treatment Group - Safety Population

Table 47: Listing of Serious Adverse Events – All Enrolled Subjects

[Implementation Notes: If the event is ongoing (no stop date), indicate “ongoing” in the “Duration” column. In the “If Not Related, Alternate Etiology” column, merge the 2 data fields for collecting alternate etiology, separate by a colon. If there are no comments for an event, populate ‘Comments’ row with ‘None’. In the CSR, Subject ID should be USUBJID (not PATID) for purposes of de-identification. Listing should be sorted by treatment group, Subject ID, AE Number.

Show footnote if the following scenario exist: Notes: Subjects are excluded from Safety Population if it is unknown whether they received at least one dose, but the adverse events of such subjects are included in the AE listings]

Adverse Event	Associated with Dose No.	No. of Days Post Associated Dose	Duration (Days)	Severity	SAE?	Relationship to Study Treatment	In Not Related, Alternative Etiology	Action Taken with Study Treatment	Subject Discontinued Due to AE	Outcome	MedDRA System Organ Class	MedDRA Preferred Term
Treatment Group: , Subject ID: , AE Number:												
xxxxxxx	xx	x	x	xxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxxx	Y/N	xxxxx	xxxxx	xxxxx
Comments: xxxxxxxxxxxxxx												
Treatment Group: , Subject ID: , AE Number:												
xxxxxxx	xx	x	x	xxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxxx	Y/N	xxxxx	Xxxxx	xxxxx
Comments: xxxxxxxxxxxxxx												

Table 48: Listing of Non-Serious, Unsolicited Adverse Events – All Enrolled Subjects

[Implementation Notes: If the event is ongoing (no stop date), indicate “ongoing” in the “Duration” column. In the “If Not Related, Alternate Etiology” column, merge the 2 data fields for collecting alternate etiology, separate by a colon. If there are no comments for an event, populate ‘Comments’ row with ‘None’. In the CSR, Subject ID should be USUBJID (not PATID) for purposes of de-identification. Listing should be sorted by Treatment Group, Subject ID, AE Number.

Show footnote if the following scenario exist: Notes: Subjects are excluded from Safety Population if it is unknown whether they received at least one dose, but the adverse events of such subjects are included in the AE listings.]

Adverse Event	Associated with Dose No.	No. of Days Post Associated Dose	Duration (Days)	Severity	SAE?	Relationship to Study Treatment	In Not Related, Alternative Etiology	Action Taken with Study Treatment	Subject Discontinued Due to AE	Outcome	MedDRA System Organ Class	MedDRA Preferred Term
Treatment Group: , Subject ID: , AE Number:												
xxxxxxx	xx	x	x	xxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxxx	Y/N	xxxxx	xxxxx	xxxxx
Comments: xxxxxxxxxxxxxx												
Treatment Group: , Subject ID: , AE Number:												
xxxxxxx	xx	x	x	xxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxxx	Y/N	xxxxx	Xxxxx	xxxxx
Comments: xxxxxxxxxxxxxx												

Narratives of Deaths, Other Serious and Significant Adverse Events

(not included in SAP, but this is a placeholder for the CSR)

Table 49: Laboratory Summary Statistics by Time Point and Treatment Group – CD4 Count in HIV-infected Subjects

[Implementation notes:

1. For calculated fields (Mean, SD, Median), decimal place should be the format in which the data were collected + 1 extra place. For Min, Max, decimal place should be in the same format in which the data were collected.
2. If there are test results at interim visits, e.g., 06S, 06T, include them in the corresponding scheduled visit under “Time Point” column, e.g., Visit 6.]

Time Point	Variable	Treatment Group	N	Mean	Standard Deviation	Median	Min, Max
Visit 1 (Day 1)	CD4 count	One Dose BPG 2.4 MU	x	xx.x	xx.x	xx.x	xx.x, xx.x
		Three Doses BPG 2.4 MU					
Visit 4 (Day 30±7 days)	CD4 count	One Dose BPG 2.4 MU					
		Three Doses BPG 2.4 MU					
	Change from Baseline	One Dose BPG 2.4 MU					
		Three Doses BPG 2.4 MU					
Visit 6 (Day 180±21 days)	CD4 count	One Dose BPG 2.4 MU					
		Three Doses BPG 2.4 MU					
	Change from Baseline	One Dose BPG 2.4 MU					
		Three Doses BPG 2.4 MU					
Visit 8 (Day 360±28 days)	CD4 count	One Dose BPG 2.4 MU					
		Three Doses BPG 2.4 MU					
	Change from Baseline	One Dose BPG 2.4 MU					
		Three Doses BPG 2.4 MU					

Note: N = Number of subjects in the Safety Population who had CD4 Counts at the specified time point. Test results between scheduled visits are included in the most recent visits.

Table 50: Laboratory Summary Statistics by Time Point and Treatment Group – Viral Load in HIV-infected Subjects

[Implementation notes:

1. For calculated fields (Mean, SD, Median), decimal place should be the format in which the data were collected + 1 extra place. For Min, Max, decimal place should be in the same format in which the data were collected.
2. If there are test results at interim visits, e.g., 06S, 06T, include them in the corresponding scheduled visit under “Time Point” column, e.g., Visit 6.]

Time Point	Treatment Group	N	Mean	Standard Deviation	Median	Min, Max
Detectable Viral Load						
Visit 1 (Day 1)	One Dose BPG 2.4 MU	x	xx.x	xx.x	xx.x	xx.x, xx.x
	Three Doses BPG 2.4 MU					
Visit 2 (Day 7-13days)	One Dose BPG 2.4 MU					
	Three Doses BPG 2.4 MU					
Visit 3 (Day 13±23 days)	One Dose BPG 2.4 MU					
	Three Doses BPG 2.4 MU					
Visit 4 (Day 30±7 days)	One Dose BPG 2.4 MU					
	Three Doses BPG 2.4 MU					

Notes: N = Number of subjects in the Safety Population who had CD4 Counts at the specified time point.

Table 51: Vital Signs by Maximum Severity, Time Point, and Treatment Group – Any Assessment – Safety Population

[Implementation Note: Generate one table for “Any Assessment” and one table for each assessment as listed below.]

Time Point	Treatment Group	N	None		Mild		Moderate		Severe		Missing	
			n	%	n	%	n	%	n	%	N	%
Visit 1	One Dose BPG 2.4 MU	x	x	xx	x	xx	x	xx	x	xx	X	xx
	Three Doses BPG 2.4 MU											
...												
Visit 8	One Dose BPG 2.4 MU											
	Three Doses BPG 2.4 MU											
Max Severity Post Baseline	One Dose BPG 2.4 MU											
	Three Doses BPG 2.4 MU											

Notes: The “Max Severity Post Baseline” row indicate the maximum severity experienced by each subject at any time point post baseline, including unscheduled assessments. N = Number of subjects in the Safety Population.

Grading scales:

Temperature: Grade 1: 38.0 - <38.6°C; Grade 2: 38.6 - <39.3°C; Grade 3: ≥39.3°C

Blood Pressure: Grade 1: 140 – 159 mmHg systolic OR 90 – 99 mmHg diastolic; Grade 2: 160 – 179 mmHg systolic OR 100 – 109 mmHg diastolic; Grade 3: ≥180 mmHg systolic OR ≥110 mmHg diastolic OR hospitalization indicated

Pulse: Grade 1: 101-115 or 50-54 or 45-50 if baseline <60bpm; Grade 2: 116-130 or 45-49 or 40-44 if baseline <60bpm; Grade 3: >130 or ventricular dysrhythmias or <45 or <40 if baseline <60bpm

Respiration: Grade 1: 23-25; Grade 2: 26-30; Grade 3: >30

Tables with similar format:

Table 52: Vital Signs by Maximum Severity, Time Point, and Treatment Group – Temperature – Safety Population

Table 53: Vital Signs by Maximum Severity, Time Point, and Treatment Group – Blood Pressure – Safety Population

Table 54: Vital Signs by Maximum Severity, Time Point, and Treatment Group – Pulse – Safety Population

Table 55: Vital Signs by Maximum Severity, Time Point, and Treatment Group – Respiration – Safety Population

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Figure 1: CONSORT Flow Diagram

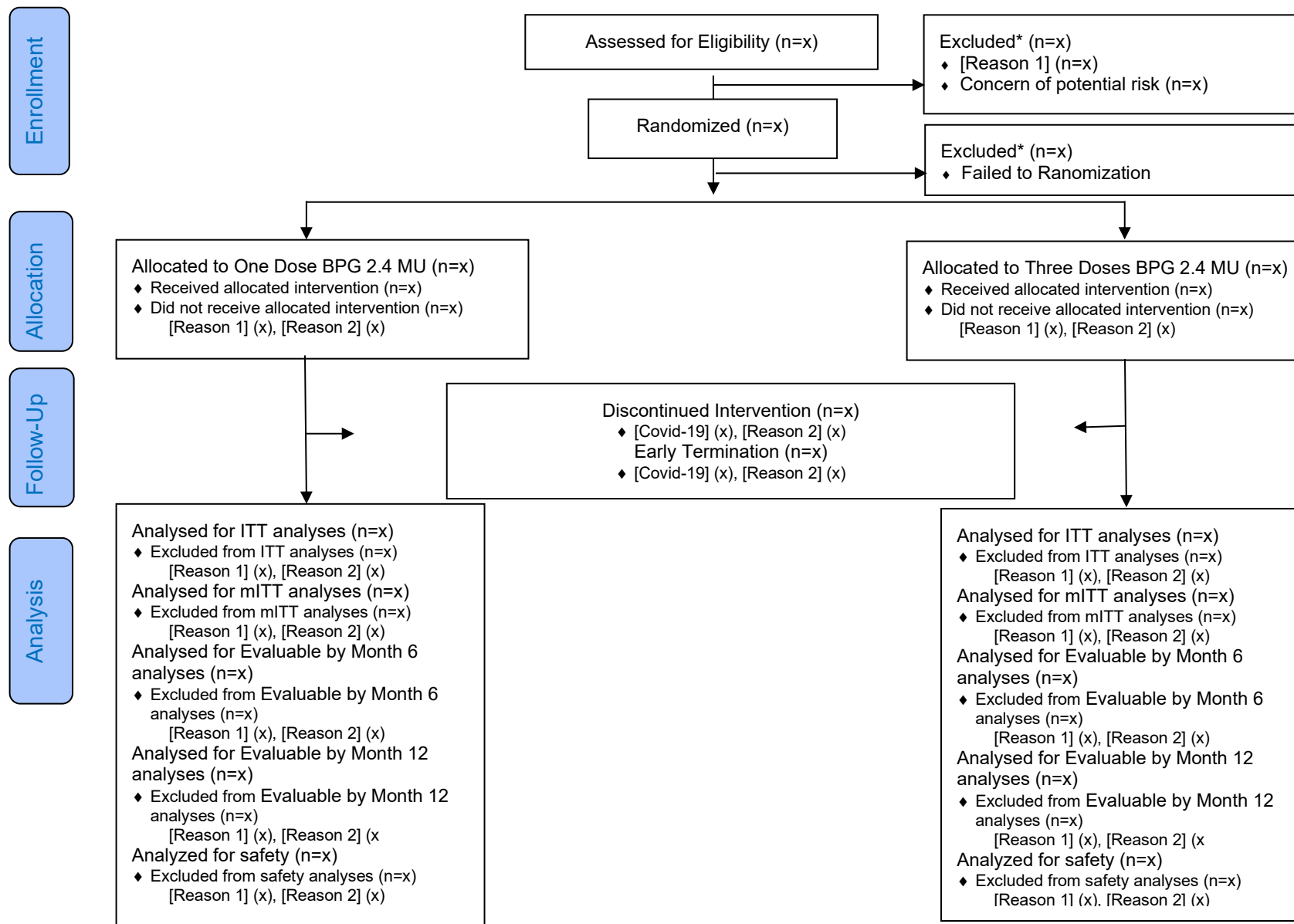
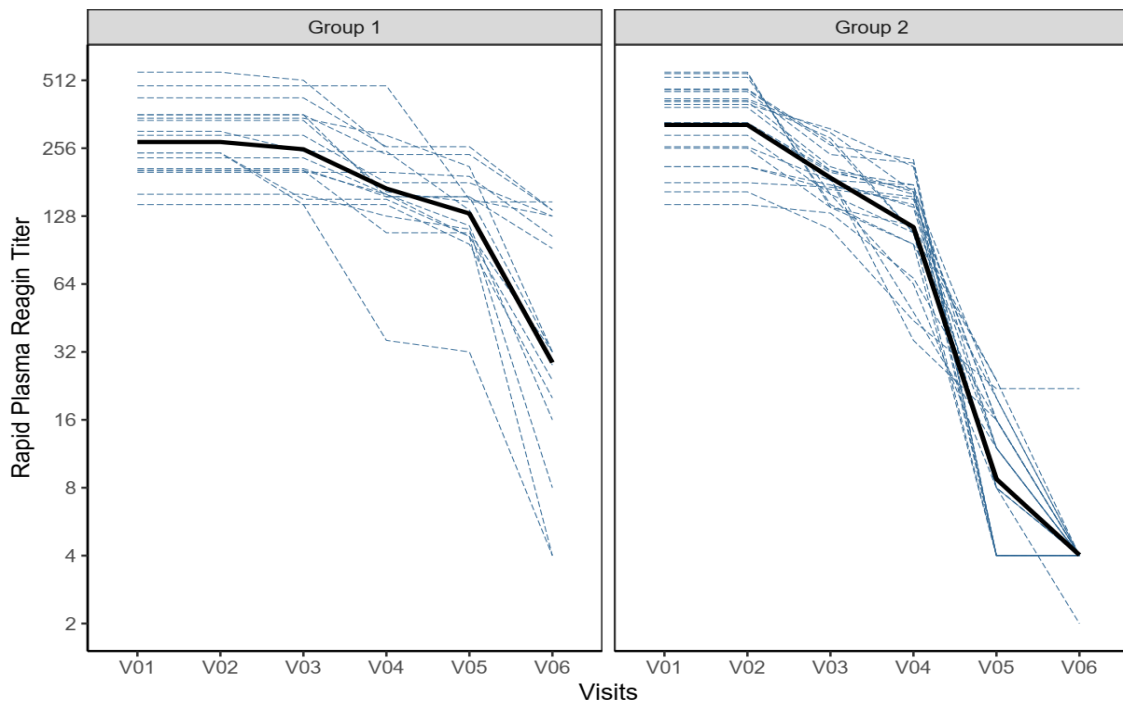


Figure 2: Rapid Plasma Reagin Titer per Subject by Month 6 -ITT population

[Implementation Notes: this is a generic plot

- Change the “Visits” (X axis) into “Time”, then label the X-axis by “Baseline”, “Week 1” “Week 2”, “Month 1”, “Month 3”, and “Month 6”.
- The dash line is the RPR titer for each subject at each timepoint;
- The black line is the Geometric Mean Titer at each time point
- Change the Group names to the treatment arms.
- Color can be changed]



Figures with a similar format:

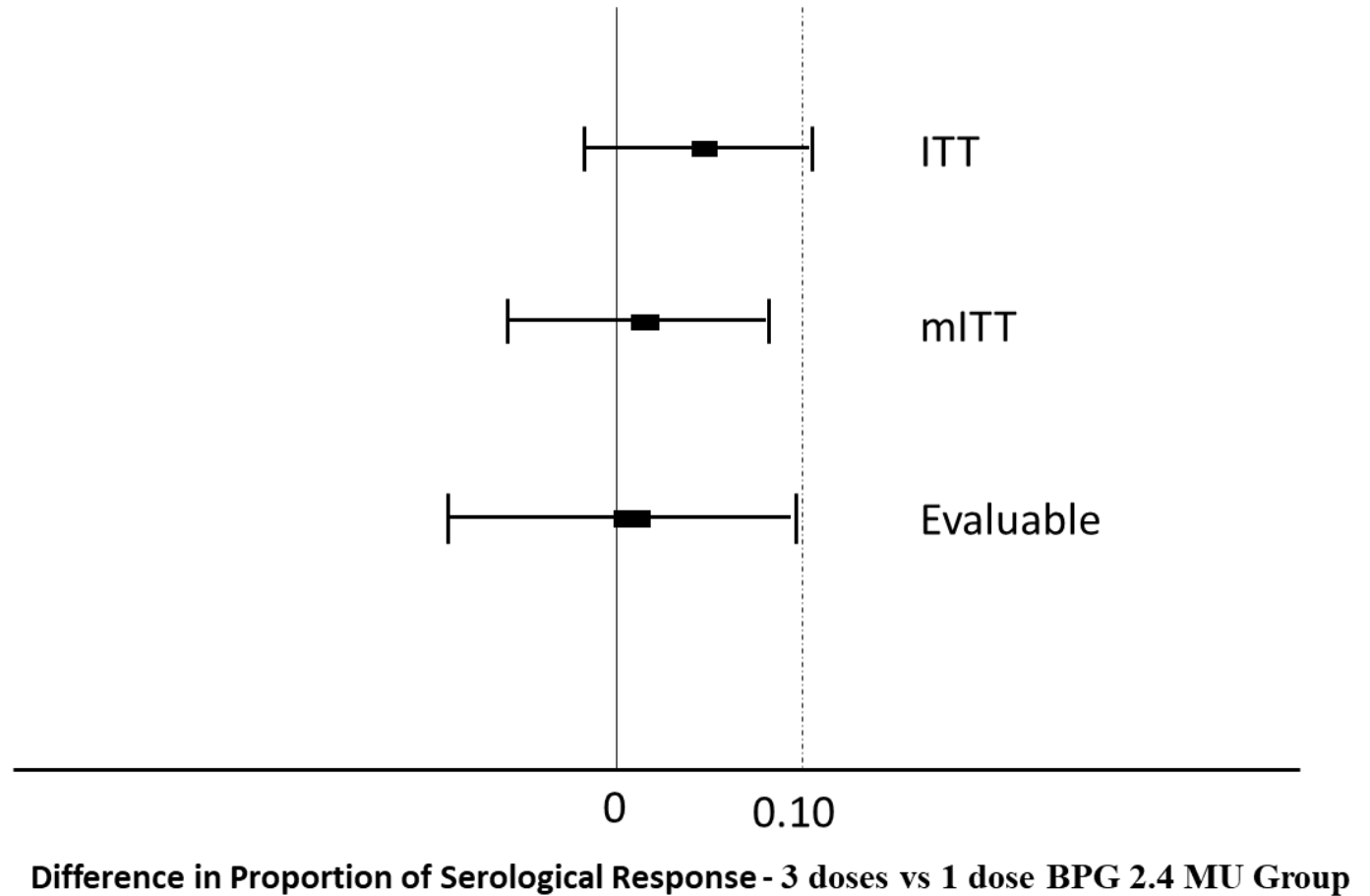
- Figure 3: Rapid Plasma Reagin Titer per Subject by Month 6 -mITT population**
- Figure 4: Rapid Plasma Reagin Titer per Subject by Month 6 -Evaluable population**
- Figure 5: Rapid Plasma Reagin Titer per Subject by Month 12 -ITT population**
- Figure 6: Rapid Plasma Reagin Titer per Subject by Month 12 -Evaluable population**
- Figure 7: Rapid Plasma Reagin Titer per Subject by Treatment and Baseline HIV Status by Month 6 -ITT population**
- Figure 8: Rapid Plasma Reagin Titer per Subject by Treatment and Baseline HIV Status by Month 6 -Evaluable population**
- Figure 9: Rapid Plasma Reagin Titer per Subject by Treatment and Baseline HIV Status by Month 12 -ITT population**
- Figure 10: Rapid Plasma Reagin Titer per Subject by Treatment and Baseline HIV Status by Month 12 -Evaluable population**

Figure 11: Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups by Month 6

[Implementation Notes: this is a generic plot,

The dark block is the estimates of difference of proportion of serological response between three dose vs one dose; the horizontal line and two bars are the one-sided 95% confidence interval;

The dash vertical line is the non-inferiority margin 0.10.]



Figures with a similar format:

Figure 12: Difference in Proportion of Subjects with Serological Response Between Two Treatment Groups by Month 12

Figure 13: Maximum Severity of Jarisch-Herxheimer reaction per Subject by Time Post First Dose - Safety Population

[Implementation Notes:

- Include a panel on the right for “All Subjects”
- Change the time points (vertical axis) into “Time Post First Dose (Hours)” 0-12 hours, >12-24 hours, >24-48 hours]

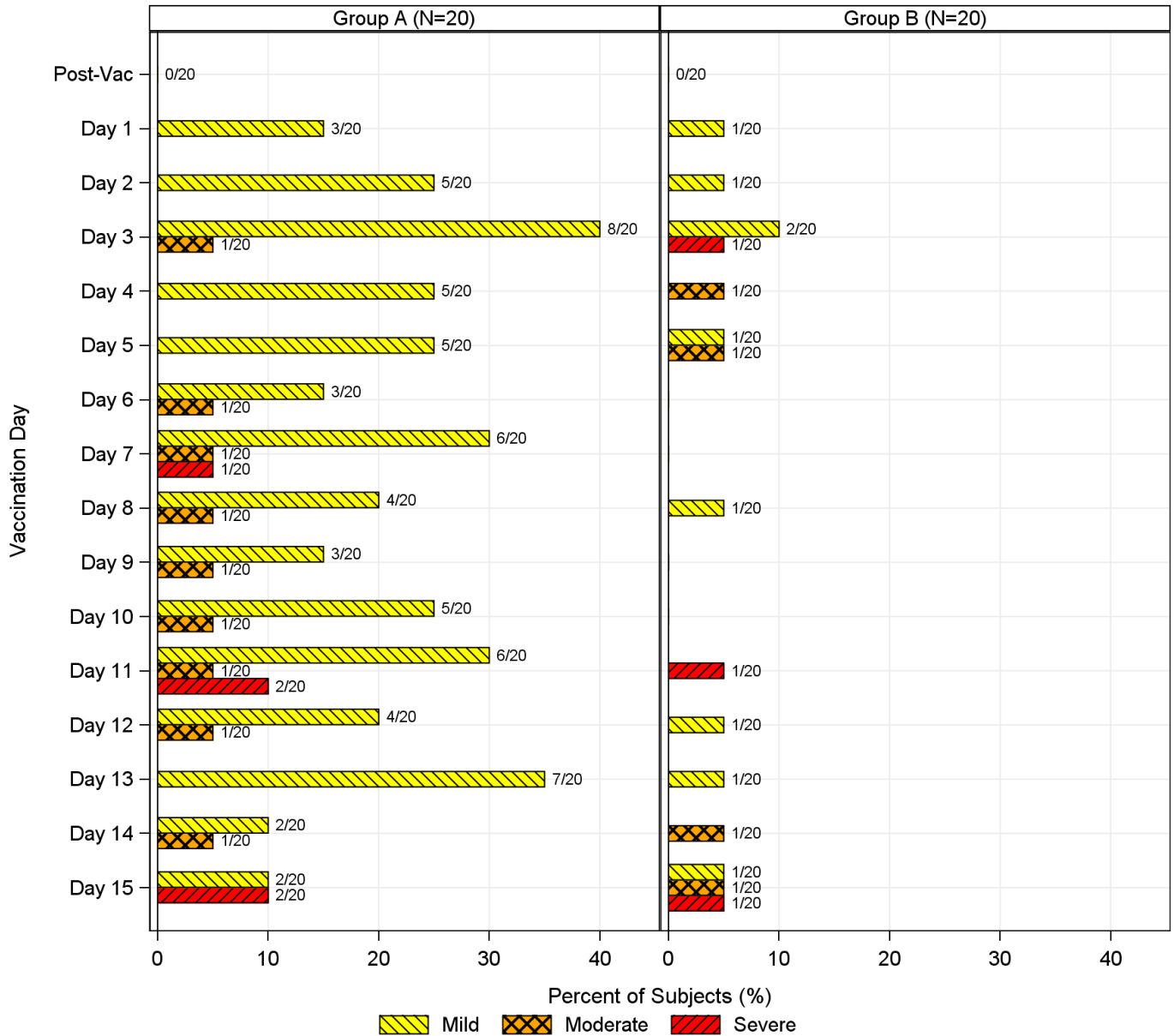


Figure 14: Maximum Severity of Solicited Local Symptoms per Subject by Dose - Safety Population

[Implementation Notes:

- Include a panel on the right for “All Subjects”
- Change the time points into “Dose” Post Dose 1, Post Dose 2, Post Dose 3]

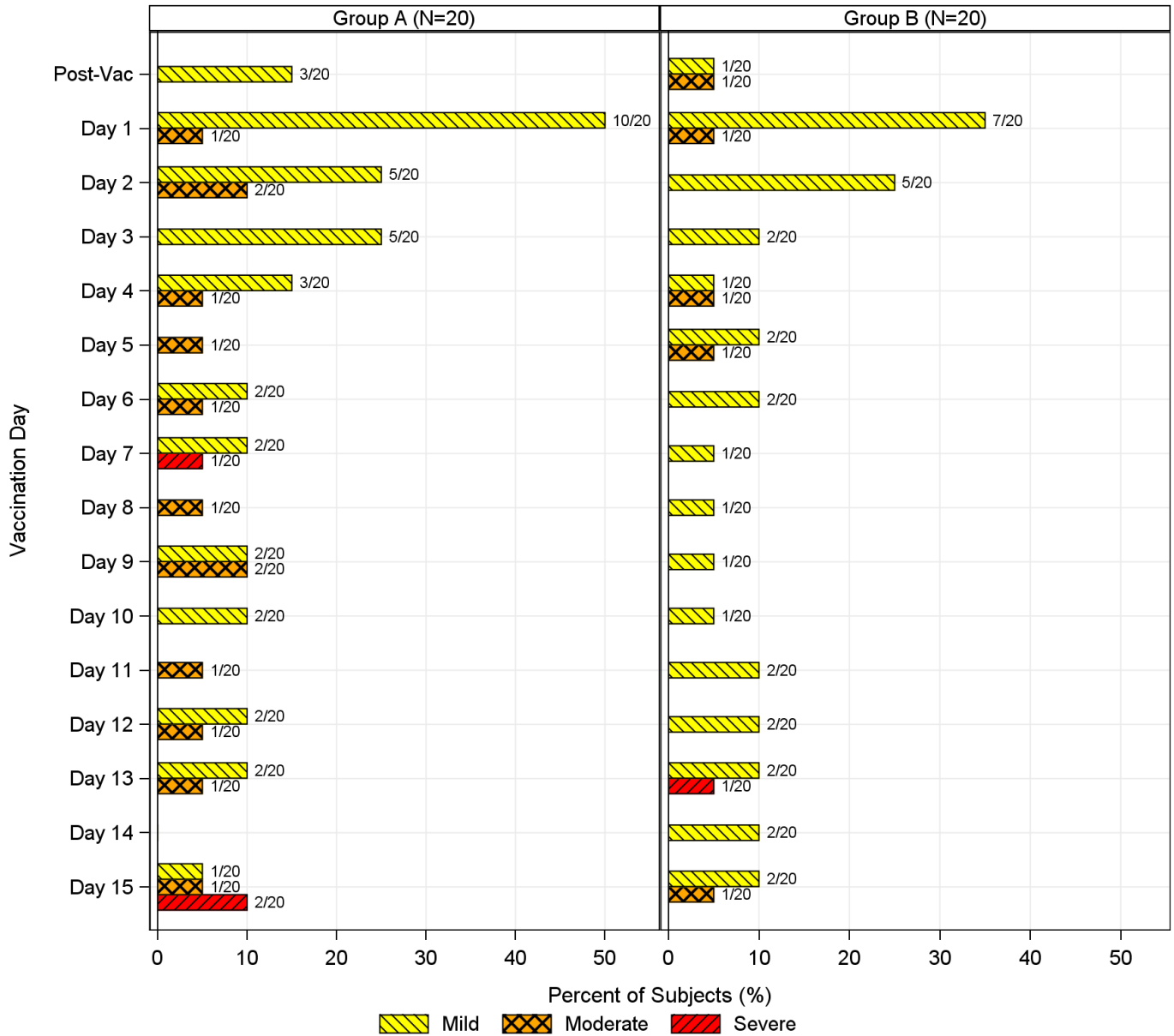


Figure 15: Number of Related Unsolicited Adverse Events by MedDRA System Organ Class and Severity - Safety Population

[Implementation Notes:

- Include a panel on the right for “All Subjects”]

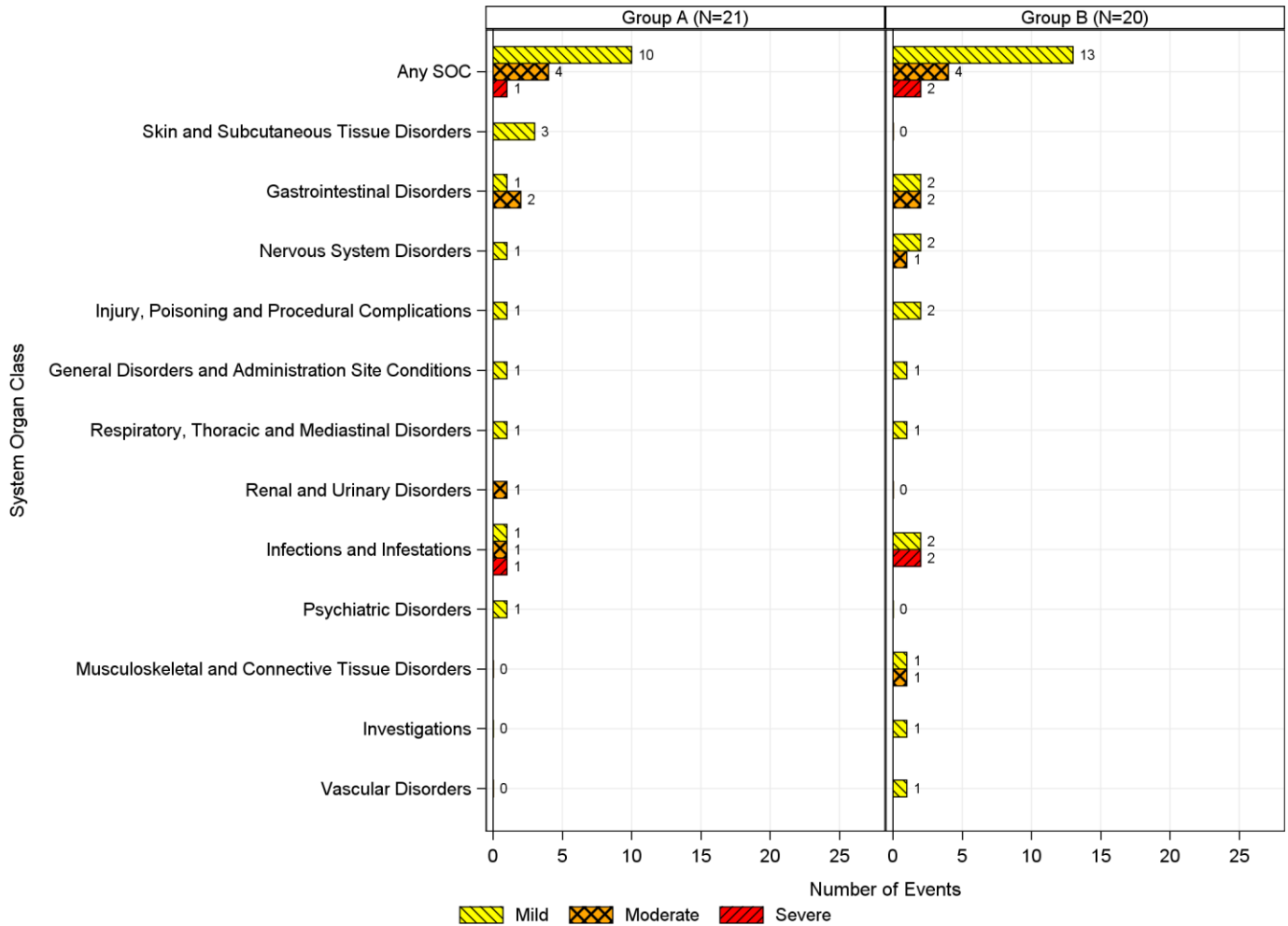


Figure 16: Number and Percentage of Subjects Experiencing Related Unsolicited Adverse Events by MedDRA® System Organ Class and Maximum Severity - Safety Population

[Implementation Notes:

- Include a panel on the right for “All Subjects”]

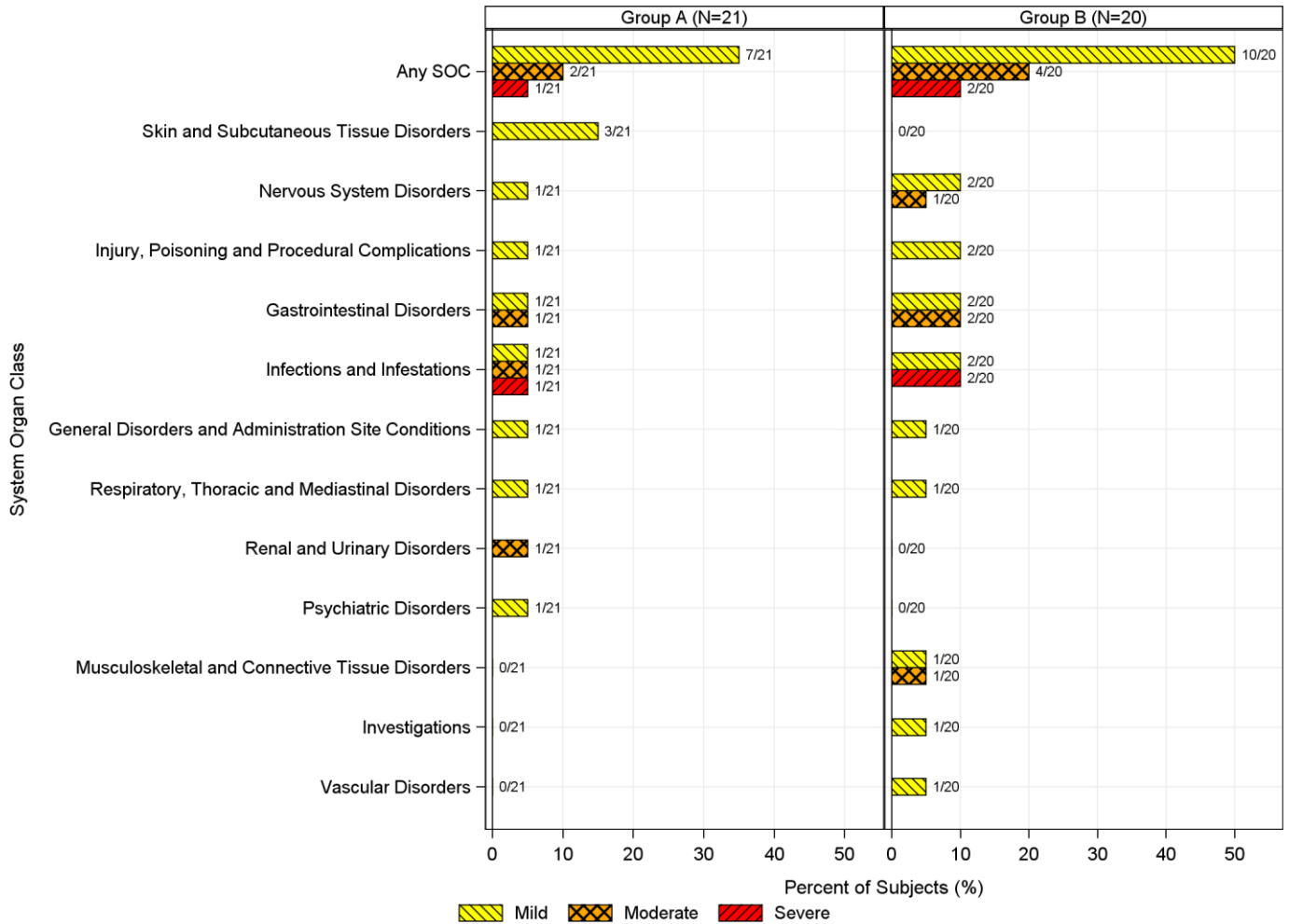


Figure 17: Number of Unsolicited Adverse Events by MedDRA System Organ Class and Relationship to Treatment - Safety Population

[Implementation Note:

- Include “Any SOC” bars
- Two treatment groups are One Dose BPG 2.4 MU and Three Doses BPG 2.4 MU
- Put “All Subjects” panel on the right]

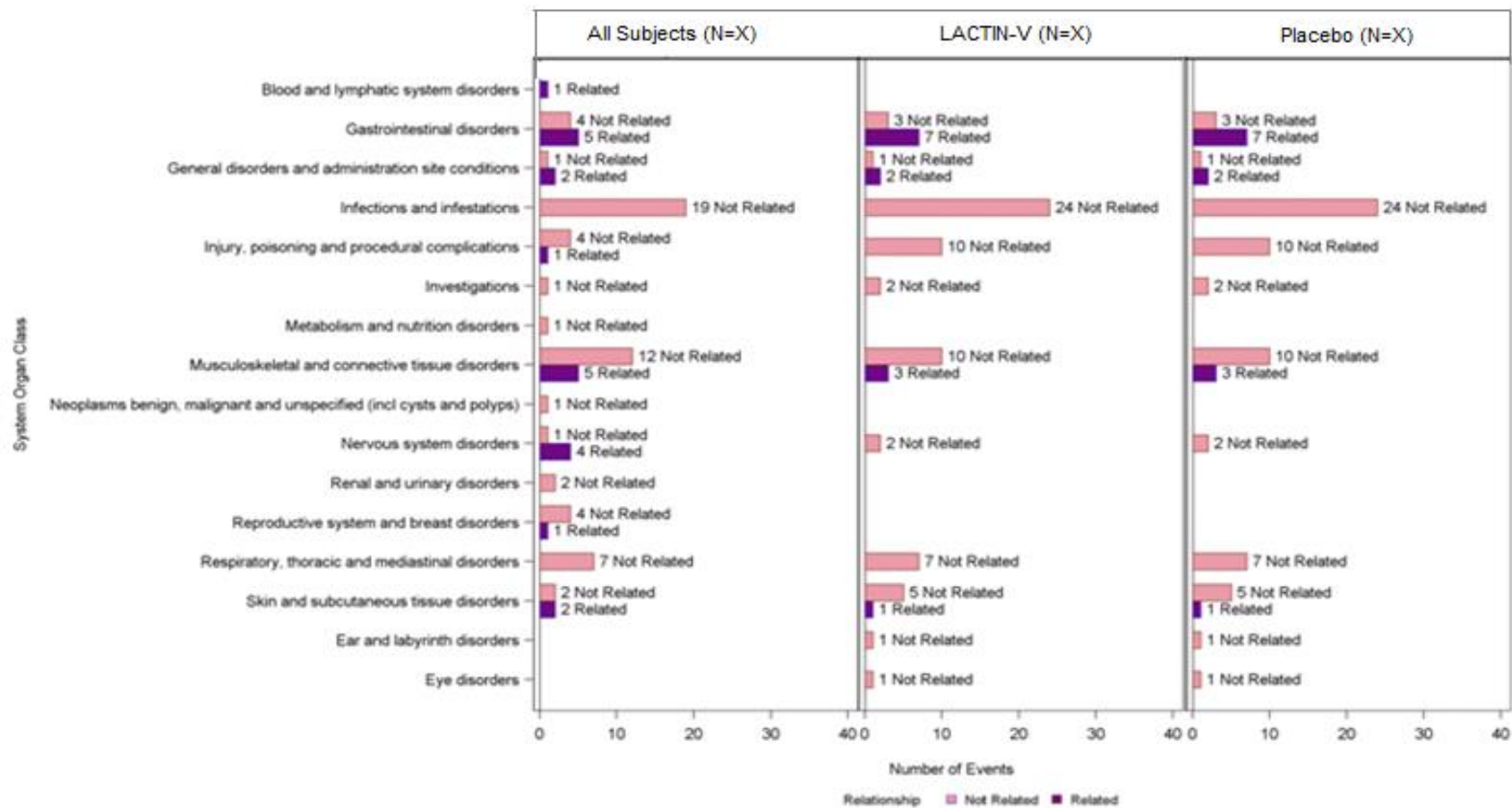
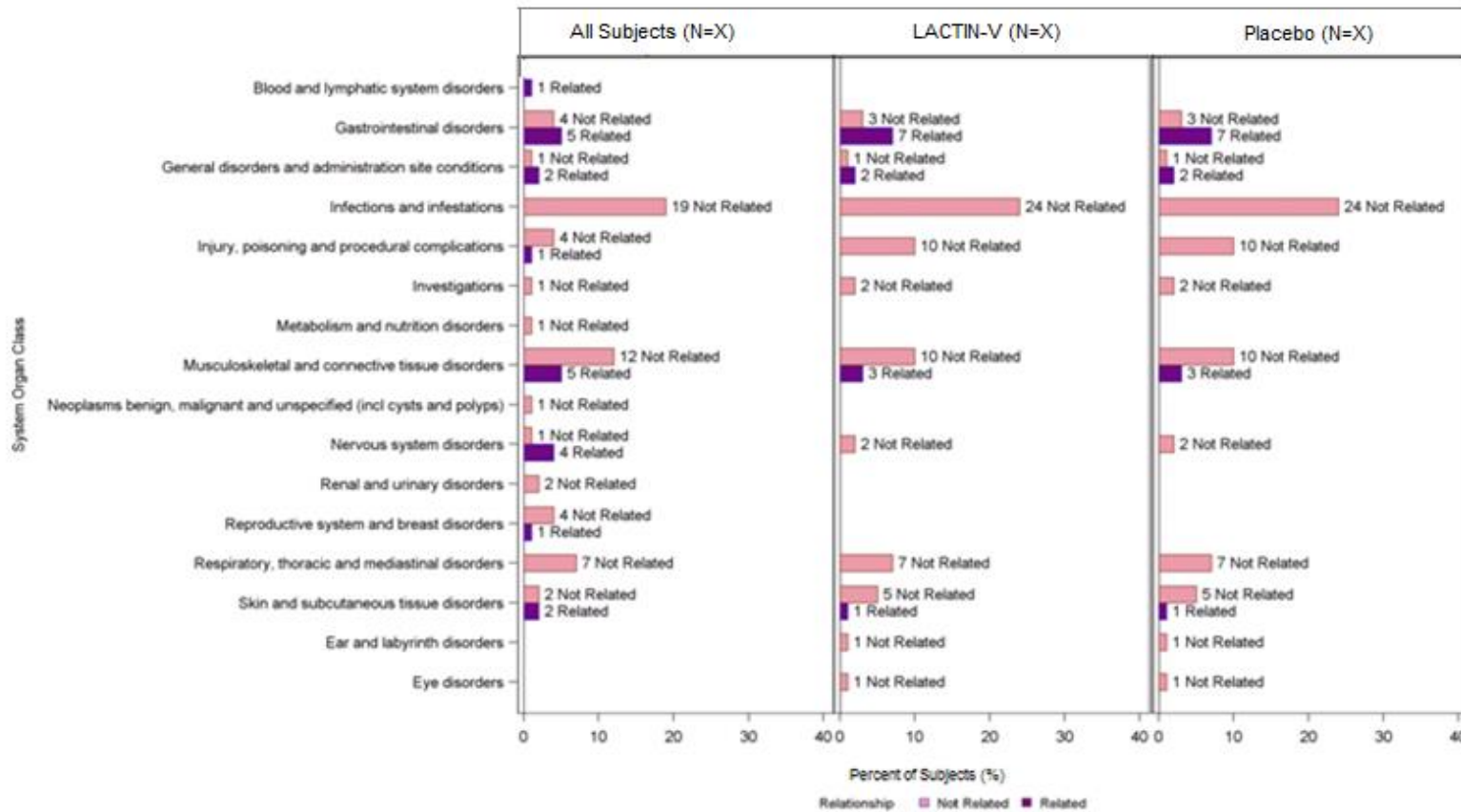


Figure 18: Number and Percentage of Subjects Experiencing Unsolicited Adverse Events by MedDRA System Organ Class and Relationship to Treatment - Safety Population

[Implementation Note:

- Include “Any SOC” bars
- Two treatment groups are One Dose BPG 2.4 MU and Three Doses BPG 2.4 MU
- Put “All Subjects” panel on the right
- Legend see [Figure 5](#), number of subject/total]



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Listing of Subjects Receiving Investigational Product

(not included in SAP, but this is a placeholder for the CSR)

Listing 1: Subjects Excluded from Analysis Populations

Implementation Notes:

1. Sort order will be Treatment group, Subject ID

2. Reasons Subject Excluded 1) should be N/A if the subject was not excluded from any analysis population; 2) should match the same verbiage that is used on the Analysis population tables unless it's a special case recorded in the study plan with the reason confirmed by the PI before study lock.]

Randomized Treatment Group	Subject ID	Analyses in which Subject is Included	Analyses from which Subject is Excluded	Results Available?	Reason(s) Subject Excluded
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	[e.g., Safety, ITT, mITT, Evaluable by Month 6, Evaluable by Month 12]	[e.g., Safety, ITT, mITT, Evaluable by Month 6, Evaluable by Month 12]	Yes/No	xxxxx/N/A
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	[e.g., Safety, ITT, mITT, Evaluable by Month 6, Evaluable by Month 12]	[e.g., Safety, ITT, mITT Evaluable by Month 6, Evaluable by Month 12]	Yes/No	xxxxx/N/A
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	[e.g., Safety, ITT, mITT, Evaluable by Month 6, Evaluable by Month 12]	[e.g., Safety, ITT, mITT Evaluable by Month 6, Evaluable by Month 12]	Yes/No	xxxxx/N/A

Note: If the subject was excluded from any analysis population, “Yes” in the “Results Available” column indicates that available data were removed from the analysis. If the subject was not excluded from any analysis population, “Yes” in the “Results Available” column indicates that data was available for all analysis populations. “No” indicates that no data were available for inclusion in the analysis.

Listing 2: Early Terminations or Discontinued Subjects-All Enrolled Subjects

[Implementation Notes:

1. Sort order will be by Treatment Group, Subject ID, Category
2. Category will be "Early Termination" or "Treatment Discontinuation". If a subject discontinued treatment and terminated early, they will have two records.
3. In the "Reason" column, concatenate any "specify" fields, including AE number and DV number.]

Randomized Treatment Group	Subject ID	Category	Study Day Corresponding to Early Termination/Treatment Discontinuation/Completion	Reason for Early Termination or Treatment Discontinuation
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Early Termination/Treatment Discontinuation	xx	xxxxxxxxxxxxxxxxxxxx/N/A
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Early Termination/Treatment Discontinuation	xx	xxxxxxxxxxxxxxxxxxxx/N/A

Note. Subjects who had early terminated or discontinued due to Covid-19 are flagged.

Listing 3: Subject-Specific Protocol Deviations-All Enrolled Subjects

[Implementation Notes:

1. Treatment group is the randomized treatment group.
2. Sort order will be by Treatment Group, Subject ID, Deviation Number.
3. Deviation description column will contain all subfields concatenated together.
4. In the Reason for Deviation column concatenate any specified fields.]

Treatment Group	Subject ID	Deviation Number	Study Day	Deviation Description	Deviation Category	Reason for Deviation	Deviation Affected Product Stability?	Deviation Resulted in AE?	Deviation Resulted in Subject Termination?	Deviation Resolution	Comments
xxxx	xxxxx	xx	xx	xxxxxxx	xxxxxxxxxxx	xxxxxxx	Yes/No/ N/A	Yes/No	Yes/No	Yes/No	xxxxxxxxxxx
xxxx	xxxxx	xx	xx	xxxxxxx	xxxxxxxxxxx	xxxxxxx	Yes/No/ N/A	Yes/No	Yes/No	Yes/No	--

Note. Subjects who had deviation due to Covid-19 are flagged.

Listing 4: Non-Subject-Specific Protocol Deviations

[Implementation Notes:

1. Sort order will be by Site Name, Start Date
2. In the Deviation column concatenate any specified fields
3. In the Reason for Deviation column concatenate any specified fields.]

Site	Start Day	Deviation	End Day	Reason for Deviation	Deviation Resulted in Subject Termination?	Deviation Affected Product Stability?	Deviation Category	Deviation Resolution	Comments
xxxx	xx	xxxx	xx	xxxx	Yes/No	Yes/No/N/A	xxxx	xxxx	Xxxx
xxxx	xx	xxxx	xx	xxxx	Yes/No	Yes/No/N/A	xxxx	xxxx	Xxxx

Note. Deviation due to Covid-19 are flagged.

Listing 5: Individual Efficacy Response Data - All Enrolled Subjects

[Implementation Notes:

- Sort order will be by Treatment Group and Subject ID, Planned Time Point.]

Randomized Treatment Group	Subject ID	Planned Time Point	Actual Testing Study Day	RPR Result	RPR Titer	Ratio to baseline	Serological Response to Therapy by Month 6	Serological Response to Therapy by Month 12	Serological Response to Therapy for Exploratory Efficacy Analysis
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 1	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	-	-		-
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 2	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx	Response/ Non-Response	Response/ Non-Response	Response/ Non-Response/ Failure
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 3	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 4	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 5	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 6	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Early Termination prior to month 6	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 7	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 8	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Early Termination after month 8	xxx	REACTIVE/NON-REACTIVE/INVALID	xxx	xx			

Listing 6: Compliance Data - All Enrolled Subjects

[Implementation Notes:

1. Sort order is Randomized treatment Group, Subject ID, Visit.]

Treatment Group	Subject ID	Planned Time Point	Actual Study Day	Dose Administered within the Assigned Visit Window?	Compliance Status
One Dose BPG 2.4 MU	xxxxxx	Visit 1	xx	Yes/No	Compliant/Non-compliant
Three Doses BPG 2.4 MU	xxxxxx	Visit 1	xx	Yes/No	Compliant/Non-compliant
		Visit 2	xx	Yes/No	
		Visit 3	xx	Yes/No	

Listing 7: Demographic and Other Baseline Characteristics - All Enrolled Subjects

[Implementation Notes:

1. Sort order will be by Treatment Group, Subject ID
2. For the Race column, if a subject is Multi-Racial, all races will be listed, separated by a comma]

Randomized Treatment Group	Subject ID	Sex	Age at Enrollment (years)	Ethnicity	Race	Baseline HIV Status	Highest Level of Education the Subject Has Completed	Number of Years of Formal Education the Subject Completed
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	Male/Female	xx	xxxxxx	xxxxxx	HIV- infected/HIV- uninfected	xxx/xxx/xxx/xxx/xxx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	Male/Female	xx	xxxxxx	xxxxxx	HIV- infected/HIV- uninfected	xxx/xxx/xxx/xxx/xxx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	Male/Female	xx	xxxxxx	xxxxxx	HIV- infected/HIV- uninfected	xxx/xxx/xxx/xxx/xxx	xx

Listing 8: Sexual Behavior History Part I -All Enrolled Subjects

[Implementation Notes:

1. Sort order will be by Treatment Group, Subject ID
2. If the subject has used “other” gender identity or sexual orientation, list the specified field in the cell.
4. Missing response will be populated as “Not Reported”.
5. For “Any known exposures to STD” variable, if response was Yes or Unknown, concatenate the SX2 Comments field.]

Time Point	Subject's gender identity	Subject's sexual orientation	Subject's sexual partner	Treated or Require Retreatment for Syphilis ^a	How was retreatment need determined ^b ?	Any known exposures to syphilis since the last study visit?	Any known exposures to STD ^c ?
Treatment Group: , Subject ID:							
Visit 1	Man / Woman / Trans Male / Trans Female / Genderqueer / Multiple / Non-binary / Other	Heterosexual / Homosexual / Bisexual / Other	xxx / xxx/...	N/A	N/A	N/A	Yes / No / Unknown
Visit 2	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown
Visit 3	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown
Visit 4	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown
Visit 5	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown
Visit 6	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown
Visit 7	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown
Visit 8	N/A	N/A	N/A	Yes/No/Unknown	xxxx	Yes/No/Unknown	Yes / No / Unknown

Notes: Subject’s gender identity, subject’s sexual orientation, and subject’s sexual partner are baseline questions only. Treated or require retreatment for syphilis, how was retreatment determined, and any known exposures to syphilis since the last study visit are follow-up questions only.

^a Was the subject treated or does the subject require retreatment for syphilis infection apart from study treatment received according to their randomization assignment?

^b If the subject was treated or require retreatment for syphilis infection apart from study treatment received according to their randomization assignment, how was retreatment need determined?

^c The question is “Did the subject have any known exposures to an STD in the past 60 days?” for Visit 1, and “Any known exposures to another STD since the last study visit?” for the follow-up visits.

Listing 9: Sexual Behavior History Part II - All Enrolled Subjects

[Implementation Notes:

1. Sort order will be by Treatment Group, Subject ID
3. Missing response will be populated as “Not Reported”.
4. If the subject had sexual intercourse in the past 60 days or since the last visit, then the cells will be “N/A”.]

Time Point	Has the Subject Had Sexual Intercourse in the Specified Timeframe?	Days Since the Subject Last Had Sexual Intercourse in the Specified Timeframe	Sites of Exposure in the Specified Timeframe	How Often Was a Condom or Barrier for Protection Used in the Specified Timeframe?	Total Number of Sexual Partners in the Specified Timeframe	Number of New Partners in the Specified Timeframe	Number of Regular Partners in the Specified Timeframe	Number of Occasional Partners in the Specified Timeframe	Number of Male Partners in the Specified Timeframe	Number of Female Partners in the Specified Timeframe	Number of Continuing Partners in the Specified Timeframe
Treatment Group: , Subject ID:											
Visit 1	Yes / No / Unknown	xx / N/A	Oral receptive / Oral active / Rectal receptive / Rectal insertive / Genital/vaginal / N/A	Always / Sometimes / Never / N/A	xx	xx	xx	xx	xx	xx	N/A
Visit 2	Yes / No / Unknown	xx	Oral receptive / Oral active / Rectal receptive / Rectal insertive / Genital/vaginal / N/A	Always / Sometimes / Never / N/A	xx	xx	N/A	N/A	N/A	N/A	xx
Visit 3	Yes / No / Unknown	xx	xxxx	xxxx	xx	xx	N/A	N/A	N/A	N/A	xx
Visit 4	Yes / No / Unknown	xx	xxxx	xxxx	xx	xx	N/A	N/A	N/A	N/A	xx
Visit 5	Yes / No / Unknown	xx	xxxx	xxxx	xx	xx	N/A	N/A	N/A	N/A	xx
Visit 6	Yes / No / Unknown	xx	xxxx	xxxx	xx	xx	N/A	N/A	N/A	N/A	xx
Visit 7	Yes / No / Unknown	xx	xxxx	xxxx	xx	xx	N/A	N/A	N/A	N/A	xx
Visit 8	Yes / No / Unknown	xx	xxxx	xxxx	xx	xx	N/A	N/A	N/A	N/A	xx

Notes: The specified timeframe for visit 1 is “in the past 60 days”, and “since the last visit” for the follow-up visits.

For Visit 1, if subject had not had sexual intercourse in the past 60 days, response to the rest of the variables in this table will be N/A. For the follow-up visits, if subject had not had sexual intercourse since the previous visit, response to rest of the variables in this table will be N/A. Unscheduled visit assessments are included.

Number of continuing partners is a variable for follow-up visits only. Number of regular partners, number of occasional partners, number of male partners and number of female partners are for Visit 1 only.

Listing 10: Sexual Behavior History Part III - Sexually Transmitted Disease Testing History at Baseline - All Enrolled Subjects

[Implementation Notes:

1. Sort order will be by Actual Treatment Group, Subject ID
2. If all subjects received the correct treatment, only display a single “Treatment Group” column.]

Treatment Group	Subject ID	Has been diagnosed with gonorrhea in the past 60 days?	Days since the subject last diagnosed with gonorrhea in the past 60 days	Has the subject been tested for gonorrhea in the past 14 days?	In the past 14 days, if the subject had been tested for gonorrhea, what were the test results?	Has been diagnosed with chlamydia in the past 60 days?	Days since the subject last diagnosed with chlamydia in the past 60 days	Has the subject been tested for chlamydia in the past 14 days?	In the past 14 days, if the subject had been tested for chlamydia, what were the test results?	Has been diagnosed with any other STI in the past 60 days?	Days since the subject last diagnosed with any other STI in the past 60 days
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	Yes / No	xx	Yes / No	Positive / Negative	Yes / No	xx	Yes / No	Positive / Negative	Yes / No	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	Yes / No	xx	Yes / No	Positive / Negative	Yes / No	xx	Yes / No	Positive / Negative	Yes / No	xx

Listing 11: Sexually Transmitted Infections (STI) Testing result

[Implementation Notes:

1. Sort order will be by Treatment Group, Subject ID, and time point]

Treatment Group	Subject ID	Time Point	Was STI testing performed?	Test type	Was testing performed?	Specimen collection date	Site of specimen collection	Test Result	
	xxxx	Visit 1	Yes / No / NA	chlamydia	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				gonorrhea	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				Other STIs	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				specify STI	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
		Visit 2	Yes / No / NA	chlamydia	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				gonorrhea	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				Other STIs	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				specify STI	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
		Visit 3	Yes / No / NA	chlamydia	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				gonorrhea	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				Other STIs	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				specify STI	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
		...							
		Visit 8	Yes / No / NA	chlamydia	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				gonorrhea	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
				Other STIs	Yes / No	ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative	
specify STI	Yes / No			ddMMMyyyy	Genitourinary / Pharyngeal/ Rectal	Positive /negative			
xxxx	xxxx		

Listing 12: Pre-Existing and Concurrent Medical Conditions

[Implementation Notes:

1. Sort order is Treatment Group, Subject ID, MH Number.

2. "Condition Start Day" and "Condition End Day" are relative to enrollment (which is Day 1, day before enrollment is Day -1). Display the study days for start day and end day that are during the study, as well as within the past 14 days prior to the study. For medical history start/end dates that are > 14 days prior to enrollment, rather than use exact study days, categorize as follows:

- > 5 years prior to enrollment

- 1-5 years prior to enrollment

-1-12 months prior to enrollment

-If Ongoing at the end of the study, display "Ongoing" in the "Condition End Day" column.

-If ending is unknown at the end of the study, display "Unknown" in the "Condition End Day" column.]

Randomized Treatment Group	Subject ID	MH Number	Medical History Term	Condition Start Day	Condition End Day	MedDRA System Organ Class	MedDRA Preferred Term
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	xxx	xxxxxx	xx	xx	xxxxxx	xxxxxx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	xxx	xxxxxx	xx	xx	xxxxxx	xxxxxx

Note: This listing includes subjects who had pre-existing and/or concurrent medical conditions among all enrolled subjects.

Listing 13: Concomitant Medications

[Implementation Notes:

1. Sort order is treatment group, Subject ID, concomitant medication number.
2. 'Medication Start Day' and 'Medication End Day' are relative to enrollment (which is Day 1, day before enrollment is Day -1). Display the study days for start day and end day that are during the study, as well as within 30 days prior to the study. For medication start/end dates that are > 30 days prior to enrollment, rather than use exact days, categorize as follows:
 - > 5 years prior to enrollment
 - 1- 5 years prior to enrollment
 - 1-12 months prior to enrollment.
- For 'Medication End Day', if medication is Ongoing, display 'Ongoing' in the Medication End Day' column.
- For 'Medication End Day', if end of medication is unknown, display 'Unknown' in the 'Medication End Day' column.
3. If a Medication is taken for an AE, then concatenate the conmed with the Advere Events by AENUM and report the AETERM, plus the AE Number.
4. If a Medication is taken for an MH, then concatenate the conmed with the Medical History event by MHNUM and report the MHTERM, plus the MH Number.
5. Include the birth control information in this dataset. The birth control information is coming from the RP/SUPPRP or BC1 dataset.]

Treatment Group	Subject ID	Concomitant Medication Number	Medication	Medication Start Day	Medication End Day	Indication	Taken for an AE? (AE Description; AE Number)	Taken for a condition on Medical History? (MH Description; MH Number)	ATC Level 1 (ATC Level 2)
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	xx	xxxxxx	xx	xx	xxxxxx	Yes/No xxxxx; xx	Yes/No xxxxx; xx	
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	xx	xxxxxx	xx	xx	xxxxxx	Yes/No xxxxx; xx	Yes/No xxxxx; xx	

Note: This listing consists of subjects who had pre-existing and/or concurrent medical conditions among all enrolled subjects.

Listing 14: Solicited Systemic Reaction Events – Safety Population

[Implementation Notes:

1. Sort order is Treatment group, Subject ID, Study Day.]

Randomized Treatment Group	Subject ID	Study Day of symptoms reviewed:	Reporting time (24-hr clock)	Jarisch-Herxheimer Reaction Symptom	Study Day of Symptom Start Date	Start Time (24-hr clock, hh:mm)	Study Day of Symptom Stop Date	Stop Time (24-hr clock, hh:mm)	Ongoing	Maximum Severity
				Feverishness						
				Chills						
				Myalgia						
				Weakness						
				Flushing						
				Worsening of skin rash						
				Tachycardia						
				Heart palpitations						
				Generalized arthralgia						
				Nausea						
				Headache						
				Dizziness						

Notes: Subject who did not experience any symptoms of the Jarisch-Herxheimer Reaction in the 24-hours following Visit 1 will not be listed. Symptoms that did not occur will not be listed.

Listing 15: Solicited Local Reaction Events – Safety Population

[Implementation Notes:

1. Sort order is treatment group, Subject ID, Study Day.
2. Subjects in one-dose group will only have rows for dose 1. Subjects in 3-dose group each will have rows for all 3 doses.]

Dose Number	Post Dose Day	Pain or Tenderness Severity / Study Day of Stop Date Post-dose ^a	Erythema or Redness Severity Diameter (mm) / Study Day of Stop Date Post-dose ^a	Induration or Swelling Severity Diameter (mm) / Study Day of Stop Date Post-dose ^a
Treatment Group: Subject ID:				
1	1	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
1	2	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
1	3	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
1	4	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
1	5	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
1	6	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
1	>6	Mild (x) or Moderate (x) or Severe (x) / x or N/A	Mild (x) or Moderate (x) or Severe (x) / x or N/A	Mild (x) or Moderate (x) or Severe (x) / x or N/A
2	1	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
2	2	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
2	3	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
2	4	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
2	5	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
2	6	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
2	>6	Mild (x) or Moderate (x) or Severe (x) / x or N/A	Mild (x) or Moderate (x) or Severe (x) / x or N/A	Mild (x) or Moderate (x) or Severe (x) / x or N/A
3	1	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
3	2	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
3	3	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
3	4	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
3	5	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done

Dose Number	Post Dose Day	Pain or Tenderness Severity / Study Day of Stop Date Post-dose^a	Erythema or Redness Severity Diameter (mm) / Study Day of Stop Date Post-dose^a	Induration or Swelling Severity Diameter (mm) / Study Day of Stop Date Post-dose^a
3	6	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done	None or Mild (x) or Moderate (x) or Severe (x) / Not Done
3	>6	Mild (x) or Moderate (x) or Severe (x) / x or N/A	Mild (x) or Moderate (x) or Severe (x) / x or N/A	Mild (x) or Moderate (x) or Severe (x) / x or N/A

Notes: For Post Dose Day 1 to 6 rows, display the symptom diameters in parentheses next to the severity for Erythema/Redness and Induration/Swelling; if the Severity of the symptom is None or Not Done, no diameter will be displayed.

^a For Post Dose Day >6 rows, if the symptom was ongoing after day 6, Study Day of Stop Date Post-dose will be displayed under each symptom column after Severity separated by a '/'; if the symptom was not ongoing after day 6, N/A will be displayed under each symptom column.

Listing 16: Unsolicited Adverse Events - Safety Population

[Implementation Notes:

- Sort order is treatment group, Subject ID, AE Number.]

Adverse Event	Associated with Dose No.	No. of Days Post Associated Dose	Duration (Days)	Severity	SAE?	Relationship to Study Treatment	In Not Related, Alternative Etiology	Action Taken with Study Treatment	Subject Discontinued Due to AE	Outcome	MedDRA System Organ Class	MedDRA Preferred Term
Treatment Group: , Subject ID: , AE Number:												
xxxxxxx	xx	x	x	xxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxxx	Y/N	xxxxx	xxxxx	xxxxx
Comments: xxxxxxxxxxxxxx												
Treatment Group: , Subject ID: , AE Number:												
xxxxxxx	xx	x	x	xxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxxx	Y/N	xxxxx	Xxxxx	xxxxx
Comments: xxxxxxxxxxxxxx												

Note: For listing of SAEs only, see [Table 47](#).

Listing 17: Pregnancy Reports – Maternal Information

[Implementation Notes:

- Sort order is treatment group, Subject ID]

Randomized Treatment Group	Subject ID	Pregnancy Number	Study Day Corresponding to Estimated Date of Conception	Source of Maternal Information	Pregnancy Status	Mother's Pre-Pregnancy BMI	Mother's Weight Gain During Pregnancy	Tobacco, Alcohol, or Drug Use During Pregnancy?	Medications During Pregnancy?	Maternal Complications During Pregnancy?	Maternal Complications During Labor, Delivery, or Post-Partum?
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	xx	xx	xxx	xxx	xxx	xxx	Y/N	Y/N	Y/N	Y/N
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxx	xx	xx	xxx	xxx	xxx	xxx	Y/N	Y/N	Y/N	Y/N

Note: Maternal Complications are included in the Adverse Event Listing. Medications taken during pregnancy are included in the Concomitant Medications Listing.

Listing 18: Pregnancy Reports – Gravida and Para

Subject ID	Pregnancy Number	Gravida	Live Births								Still Births	Spontaneous Abortion/ Miscarriage	Elective Abortions	Therapeutic Abortions	Major Congenital Anomaly with Previous Pregnancy?
			Extremely Preterm Births	Very Preterm Births	Early Preterm Births	Late Preterm Births	Early Term Births	Full Term Births	Late Term Births	Post Term Births					
xxxxxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	Xxx	Y/N
xxxxxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	Xxx	Y/N

Note: Gravida includes the current pregnancy, para events do not.

Listing 19: Pregnancy Reports – Live Birth Outcomes

Subject ID	Pregnancy Number	Fetus Number	Pregnancy Outcome (for this Fetus)	Fetal Distress During Labor and Delivery?	Delivery Method	Gestational Age at Live Birth	Size for Gestational Age	Apgar Score, 1 minute	Apgar Score, 5 minutes	Cord pH	Congenital Anomalies?	Illnesses/Hospitalizations within 1 Month of Birth?
xxxxxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	Y/N	xxx
xxxxxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	Y/N	xxx

Note: Congenital Anomalies are included in the Adverse Event listing.

Listing 20: Pregnancy Reports – Still Birth Outcomes

Subject ID	Date of Initial Report	Fetus Number	Pregnancy Outcome (for this Fetus)	Fetal Distress During Labor and Delivery?	Delivery Method	Gestational Age at Still Birth	Size for Gestational Age	Cord pH	Congenital Anomalies?	Autopsy Performed?	If Autopsy, Etiology for Still Birth Identified?
xxxxxx	xx	xxx	xxxxxxx	Y/N	xxxxxxx	xxx	xxx	xx	Y/N	Y/N	xxxxxxx

Listing 21: Pregnancy Reports – Spontaneous, Elective, or Therapeutic Abortion Outcomes

Subject ID	Date of Initial Report	Fetus Number	Pregnancy Outcome (for this Fetus)	Gestational Age at Termination	Abnormality in Product of Conception?	Reason for Therapeutic Abortion
XXXXXX	XX	XXX	XXXXX	XXXX	Y/N	Xxxxxxx

Listing 22: Syphilis Clinical Assessment

[Implementation Note:

Sort order: Treatment Group, Subject ID, Clinical diagnosis of untreated syphilis at baseline, and Planned Time Point.

In the “If Yes, specify type of rash” column and “If present at follow-up visit, specify” column, concatenate “If Other, specify field” by “:”.

“If Yes, specify type of rash”= “N/A” and “If Yes, specify rash location”= “N/A” when “Rash (other than plantar/palmar) or lesion”= “No”.]

Planned Time Point	Actual Study Day	Rash or lesion? If Yes, specify type of rash	If Rash or lesion was present, specify rash location	If Rash or lesion was present at follow-up visit, specify	Palmar/plantar rash? If Yes, specify type of rash	Condylomata lata	If Condylomata lata was present at follow-up visit, specify	Mucous patch	If Mucous patch was present at follow-up visit, specify	New or worsening signs? If Yes, specify
Treatment Group: subject ID , Clinical diagnosis of untreated syphilis at baseline: Primary/ Secondary/ Early latent:										
Visit 1	x	Yes/No, Macular/Papular/ Maculo-papular/ Papulo-squamous/ Other:xx	Face and head/ Trunk/ Genital region/ Extremities	N/A	Yes/No, Macular/Papular/ Maculo-papular/ Papulo-squamous/ Other:xx	Yes/No	N/A	Yes/No	N/A	N/A
Visit 2	x	Yes/No, Macular/Papular/ Maculo-papular/ Papulo-squamous/ Other:xx	Face and head/ Trunk/ Genital region/ Extremities	New sign/ Worsening/No change/Improving/ Other:xx	Yes/No, Macular/Papular/ Maculo-papular/ Papulo-squamous/ Other:xx	Yes/No	New sign/ Worsening/No change/Improving/ Other:xx	Yes/No	New sign/ Worsening/ No change/ Improving/ Other:xx	Yes: xxx /No
Visit 3	x	Yes/No, Macular/Papular/ Maculo-papular/ Papulo-squamous/ Other:xx	Face and head/ Trunk/ Genital region/ Extremities	New sign/ Worsening/ No change/Improving/ Other:xx	Yes/No, Macular/Papular/ Maculo-papular/ Papulo-squamous/ Other:xx	Yes/No	New sign/ Worsening/No change/Improving/ Other:xx	Yes/No	New sign/ Worsening/ No change/ Improving/ Other:xx	Yes: xxx /No

Listing 23: HIV Testing – All Enrolled Subjects

[Implementation Notes:

- 1.Sort order is Baseline HIV Status, treatment group, Subject ID, Study Visit.
- 2.If all subjects received the correct treatment, only display “Treatment Group”.
- 3.If there are test results at interim visits, e.g., 06S, 06T, display the corresponding scheduled visit under “Study Visit” column, e.g., Visit 6.]

Study Visit	Blood Collection Date for HIV CD4 Count	Blood Collection Date for Viral Load	Blood Collection Date for HIV Test	Had CD4 count record in the past 30 days?	If No CD4 record, was an HIV CD4 count performed	HIV CD4 Count (cells/mm3)	Had viral load record in the past 6 months ^a ?	Was result detectable?	Viral Load Result (copies/mL)	Was an HIV test performed?	HIV Test Result
Baseline HIV Status: Known Positive/ Unknown or Known Negative, Randomized Treatment Group: , Subject ID:											
Visit 1	dd/MMM/yyyy	dd/MMM/yyyy	dd/MMM/yyyy	Yes / No	Yes / No	xxxx	Yes / No	Yes / No	xxxxx or <xx	Yes / No	Negative/ Positive
Visit 2	N/A	dd/MMM/yyyy	N/A	N/A	N/A	N/A	Yes / No / N/A	Yes / No	xxxxx or <xx	N/A	N/A
Visit 3	N/A	dd/MMM/yyyy	N/A	N/A	N/A	N/A	Yes / No / N/A	Yes / No	xxxxx or <xx	N/A	N/A
Visit 4	dd/MMM/yyyy	dd/MMM/yyyy	N/A	Yes / No / N/A	Yes / No	xxxx	Yes / No / N/A	Yes / No	xxxxx or <xx	N/A	N/A
Visit 5	N/A	N/A	dd/MMM/yyyy	N/A	N/A	N/A	N/A	N/A	N/A	Yes / No	Negative/ Positive
Visit 6	dd/MMM/yyyy	N/A	dd/MMM/yyyy	Yes / No / N/A	Yes / No	xxxx	N/A	N/A	N/A	Yes / No	Negative/ Positive
Visit 7	N/A	N/A	dd/MMM/yyyy	N/A	N/A	N/A	N/A	N/A	N/A	Yes / No	Negative/ Positive
Visit 8	dd/MMM/yyyy	N/A	dd/MMM/yyyy	Yes / No / N/A	Yes / No	xxxx	N/A	N/A	N/A	Yes / No	Negative/ Positive

Notes: For the follow-up visits, HIV Testing could be done at Visits 5 – 8 Only; HIV CD4 Count could be done at Visits 4, 6, 8 Only; HIV Viral Load could be done at Visits 2, 3, 4 Only.

^a For Visit 1, the question is “Do the subject’s medical records include a viral load in the past 6 months?”; For follow-up visits, the question is “Do the subject’s medical records include a viral load since the last visit?”.

Listing 24: TPPA Testing - All Enrolled Subjects

[Implementation Notes:

1. Sort order will be by Actual Treatment Group and Subject ID, Planned Time Point.
2. Only show Visit 5 if V1 was non-reactive and a repeat testing was done for the subject. Remove data entry error where there are results at visits other than V1 after QC.]

Randomized Treatment Group	Subject ID	Planned Time Point	Actual Study Day	TPPA Result
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 1	xxx	REACTIVE/NON-REACTIVE/INVALID
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxx	Visit 5	xxx	REACTIVE/NON-REACTIVE/INVALID

Listing 25: Vital Signs – Safety Population

[Implementation Notes:

- Sort order is treatment group, Subject ID, Study Day.]

Randomized Treatment Group	Subject ID	Planned Time Point	Actual Study Day	Temperature (°F)	Systolic Blood Pressure (mmHg)	Diastolic Blood Pressure (mmHg)	Pulse (beats/min)	Respiratory Rate (breaths/min)
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 1 (Day 1)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 2, Week1 (Day 7 to 13)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 3, Week 2 (6 to 12 days after Visit 2)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 4, Month 1 (Day 30 ± 7 days)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 5, Month 3 (Day 90 ± 21 days)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 6, Month 6 (Day 180 ± 21 days)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 7, Month 9 (Day 270 ± 28 days)	xx	xx	xx	xx	Xx	xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 8, Week 12 (Day 360 ± 28 days)	xx	xx	xx	xx	Xx	xx

Listing 26: Abnormal Physical Exam Findings

[Implementation Notes:

1.Sort order is actual treatment group, Subject ID, Study Day.

3.Only abnormal findings will be presented.

4.If the physical exam was reported as an AE, then concatenate the Physical exam with the Adverse Events by AENUM and report the AETERM, plus the AE Number

5. If a subject had more than one abnormal finding at a visit, list each abnormality on a separate row.]

Actual Treatment Group	Subject ID	Planned Time Point	Actual Study Day	Body System	Abnormal Finding	Reported as an AE? (AE Description; AE Number)
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 1 (Day 1)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	N/A
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 2, Week1 (Day 7 to 13)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 3, Week 2 (6 to 12 days after Visit 2)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 4, Month 1 (Day 30 ± 7 days)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 5, Month 3 (Day 90 ± 21 days)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 6, Month 6 (Day 180 ± 21 days)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 7, Month 9 (Day 270 ± 28 days)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx
One Dose BPG 2.4 MU / Three Doses BPG 2.4 MU	xxxxxxx	Visit 8, Week 12 (Day 360 ± 28 days)	xxx	xxxxxxx	Genitourinary / Lymph nodes / Rectal / Skin / Oral	No / Yes, Solicited AE / Yes, Unsolicited AE, xxxxxx; xx

Note: This list consists of subjects who had abnormal findings.