Official Title of Study:

A Multi-Center, Randomized, Double-Blind, Placebo- and Active Comparator-Controlled Phase 3 Study with Randomized Withdrawal and Retreatment to Evaluate the Efficacy and Safety of BMS-986165 in Subjects with Moderate-to-Severe Plaque Psoriasis

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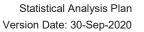
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Sponsor: Bristol-Myers Squibb Protocol no: IM011047

Statistical Analysis Plan

Sponsor:	Bristol-Myers Squibb
Protocol No:	IM011047
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Title:	A Multi-Center, Randomized, Double-Blind, Placebo- and Active Comparator-controlled Phase 3 Study with Randomized Withdrawal and Retreatment to Evaluate the Efficacy to Evaluate the Efficacy and Safety of BMS-986165 in Subjects with Moderate-to-Severe Plaque Psoriasis
SAP No.	2.0



Sponsor: Bristol-Myers Squibb

Approvals

Protocol no: IM011047

Author		
Title:		
Signature /Date:		
Approvals		
Title:		
Signature /Date:		



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Abbreviations

ns:
Adverse event
Adverse event of interest
Analysis of covariance
Anatomic Therapeutic Classification
Twice daily
Body surface area
Confidence interval
Creatine kinase
Cochran-Mantel-Haenszel
Case Report Form
Clinical Safety Program
Clinical Study Report
Controlled Terminology Criteria for Adverse Events
Dermatology Life Quality Index
Data Monitoring Committee
Exposure-adjusted incidence rate
Electrocardiogram
Electronic Columbia-Suicide Severity Rating Scale
Full analysis set
Interleukin
Independent Reporting Statistician
Interactive Response Technology
Intention-to-treat
Last observation carried forward
Least-squares
Missing at random
Medical Dictionary for Regulatory Activities
Modified baseline observation carried forward
Multiple imputation

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Glossary of Abbreviations	Glossary of Abbreviations:	
NRI	Nonresponder imputation	
PASE	Psoriatic arthritis screening and evaluation	
PASI	Psoriasis Area and Severity Index	
PDGD	Protocol deviation guidance document	
PGA-F	Physician Global Assessment-Fingernails	
PHQ-8	Eight-Item Patient Health Questionnaire	
PP	Per-protocol Per-protocol	
pp-PGA	Palmoplantar Physician's Global Assessment	
PPS	Per-protocol set	
PSSD	Psoriasis Symptoms and Signs Diary	
QD	Once daily	
QoL	Quality of Life	
QTcB	QT interval corrected using Bazett's formula	
QTcF	QT interval corrected using Fridericia's formula	
SAE	Serious Adverse Event	
SAP	Statistical Analysis Plan	
sPGA	static Physician Global Assessment	
ss-PGA	Scalp specific Physician's Global Assessment	
TEAE	Treatment-emergent adverse event	
TFLs	Tables, figures, and listings	

Statistical Analysis Plan

Version Date: 30-Sep-2020

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1.0 Purpose

The statistical analysis plan (SAP) describes the statistical methods to be used during the reporting and analyses of data collected under BMS Protocol IM011047.

The SAP outlines the following:

- Study design
- Study objectives
- Endpoints and assessments
- Analysis sets
- Statistical methodology
- Conventions and definitions

The SAP should be read in conjunction with the study protocol and case report form (CRF) according to the version on Page 1 of this document. Any further changes to the protocol or CRF may necessitate updates to the SAP. Changes following approval of the first version of the SAP will be tracked in the SAP Change Log and a final version of the updated SAP will be approved prior to final database lock.

2.0 Study Description

2.1 Study Design

This is a 52-week, multi-center, randomized, double-blind, double-dummy, placebo- and active comparator-controlled study with randomized withdrawal and retreatment to evaluate the safety and efficacy of BMS-986165 vs placebo and apremilast. A total of 1000 qualified subjects with moderate-to-severe plaque psoriasis will be enrolled.

Following a screening period of up to 4 weeks, qualified subjects who have completed the screening procedures and have met the inclusion/exclusion criteria will be randomized in a blinded manner in a 2:1:1 ratio via interactive response technology (IRT) to one of the following 3 treatment groups:

- BMS-986165 6 mg once daily (QD)
- Placebo
- Apremilast titrated to 30 mg twice daily (BID) as follows:
 - o Day 1: 10 mg tablet in the morning
 - Day 2: 10 mg tablet in the morning and evening
 - o Day 3: 10 mg tablet in the morning and 20 mg tablet in the evening
 - o Day 4: 20 mg tablet in the morning and the evening
 - Day 5: 20 mg tablet in the morning and 30 mg tablet in the evening
 - Day 6 and thereafter: 30 mg tablet in the morning and the evening

Dummy tablets (placebo for the BMS-986165 6 mg tablet, placebo for apremilast 30 mg tablet BID, and placebo for apremilast 10 mg, 20 mg, 30 mg during titration) will be administered to the subjects to maintain blinding in a double-dummy fashion.

Week 16

The coprimary endpoints, static Physician Global Assessment (sPGA) 0/1 and Psoriasis Area and Severity Index (PASI) 75 will be assessed at Week 16. Subjects receiving placebo will be switched in a blinded manner to BMS-986165 6 mg QD at Week 16. Subjects who are randomized to BMS-986165 6 mg QD or apremilast will continue on this treatment regimen in a blinded manner.

Week 24

The randomized withdrawal and maintenance period will start at Week 24 and continue to Week 52. At Week 24, subjects originally randomized to BMS-986165 6 mg QD who do not achieve PASI 75 response will continue to receive BMS-986165 6 mg QD in a blinded manner. Subjects who achieve PASI 75

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response will be re-randomized in a blinded manner to one of the following 2 treatment groups in a 1:1 ratio:

- BMS-986165 6 mg QD
- Placebo

If the subjects who were re-randomized to placebo experience a relapse as defined below at any visit during this period, they will be switched back in a blinded manner to BMS-986165 6 mg QD until the end of the maintenance period (Week 52). Relapse will be defined as at least a 50% loss of Week 24 PASI percent improvement from baseline.

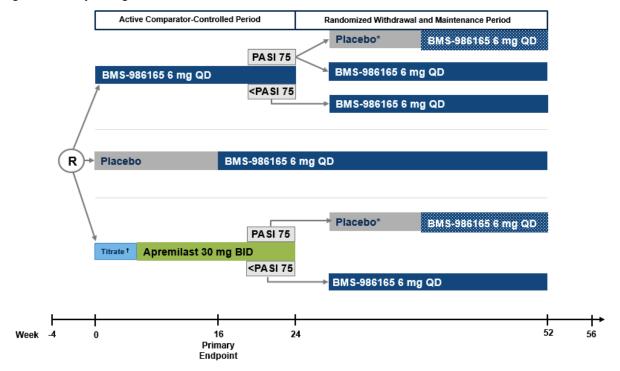
Subjects originally randomized to apremilast who achieve PASI 75 response will be switched in a blinded manner to placebo. If the subject experiences a relapse at any visit during this period, the subject will be treated with BMS-986165 6 mg QD until the end of the maintenance period (Week 52). Subjects receiving apremilast who do not achieve PASI 75 response at Week 24 will be switched to BMS-986165 6 mg QD.During the Week 24 assessment, a subject who has an sPGA ≥3 or ss-PGA≥3 may be treated with restricted topicals/shampoos as described in the protocol (Section 6.7.1). These treatments may only be initiated at Week 24, and not at subsequent time points. A subject who is provided these treatments at Week 24 may use them as needed per the investigator's judgement through Week 52.

The duration of study participation is approximately 60 weeks and will be divided into the following periods: Screening (up to 4 weeks), Treatment (52 weeks), and Follow-up (4 weeks). A schedule of assessments can be found in the protocol. A study design schematic is provided in Figure 1.

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Figure 1: Study Design Schematic





2.3 Treatment Assignment and Randomization

At Week 0 (Day 1), subjects who have met all criteria for enrollment will be centrally randomized by a computer-generated randomization schedule in a 2:1:1 ratio to the following treatments:

- BMS-986165 6 mg QD
- Placebo
- Apremilast 30 mg BID (titrated)

The randomization lists were generated by the IRT vendor using a permuted block design within each stratum combination level. Randomization will be stratified by geographic region (U.S. and Rest of World),

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previous biologic use (for psoriasis, psoriatic arthritis, or other inflammatory disease only; yes/no), and body weight (≥90 kg and <90 kg).

A treatment group will be assigned by IRT based on the above-described randomization schedule and each subject will be assigned a unique randomization number. In addition, a kit (container) number will be assigned to the subject by the IRT each time study treatment is dispensed. Dummy tablets (placebo to the BMS-986165 6 mg tablet and placebo to apremilast) will be administered to the subjects to maintain blinding.

At Week 16, subjects receiving placebo will be switched in a blinded manner to BMS-986165 6 mg QD.

At Week 24, subjects originally randomized to BMS-986165 6 mg QD who do not achieve PASI 75 will continue to receive BMS-986165 6 mg QD in a blinded manner. Subjects who achieve PASI 75 response will be re-randomized in a blinded manner in a 1:1 ratio to the following treatments:

- BMS-986165 6 mg QD
- Placebo

Subjects re-randomized to placebo who experience a relapse at a subsequent visit will be switched back onto BMS-986165 6 mg QD in a blinded manner. The investigative site and other study personnel will not have knowledge of the PASI 75 scores at these visits and will therefore remain blinded.

At Week 24, subjects originally randomized to apremilast who do not achieve a PASI 75 response will be switched in a blinded manner to BMS-986165 6 mg QD. Subjects originally randomized to apremilast who achieve PASI 75 response at Week 24 will be switched \ in a blinded manner in a 1:1 ratio to the following treatments:

- Apremilast 30 mg BID
- Placebo

The investigative site and other study personnel will not have knowledge of the PASI 75 score at this visit and will therefore remain blinded.

Subjects re-randomized to placebo from apremilast treatment who experience a relapse as defined above at a subsequent visit will be switched to BMS-986165 6 mg QD in a blinded manner. The investigative site and other study personnel will not have knowledge of the PASI 75 scores at these visits and will therefore remain blinded.

2.4 Unblinding Information

The Data Monitoring Committee (DMC) provides oversight of safety considerations throughout the study. A separate unblinded team, comprised of an unblinded Independent Reporting Statistician (IRS) and unblinded programmer(s), will produce output for the DMC using masked treatments. Treatment decodes may only be requested by the DMC Chair and will be provided by the IRS. Data summaries and listings will be transmitted via a secure portal by the IRS to only the DMC members. Additional details regarding the DMC process and unblinding are provided in the DMC charter.

2.5 Changes in Statistical Considerations from the Protocol

The following is a list of the important changes in the SAP from the Statistical Considerations section in the protocol:

 The hierarchical testing order for the key secondary endpoints has been updated and two separate hierarchies have been provided, one for US submission and one for ex-US submission (see Tables 1 and 2 in Sec. 6.1.3). The update to the hierarchies are due to emerging information from clinical

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trials conducted with other agents recently approved for the treatment of psoriasis. The hierarchies presented in the document supersede the one that is in the protocol.

- Key secondary endpoints were added for the comparison of BMS-986165 to apremilast for sPGA 0/1, PASI 75, and PASI 90 at Week 24.
- Imputation methods were updated to remove the prohibited medication/therapy criteria for binary and continuous endpoints.
- The Full Analysis Set was changed from "all subjects who were randomized to receive assigned study treatment" in the protocol to "all subjects who are randomized".
- The list of relevant protocol deviations provided in the protocol was updated for determination of the Per Protocol population.
- Logistic regression analyses for binary endpoints were removed as these are similar to the CMH analyses.

3.0 Objectives

3.1 Primary Objective

 Assess whether BMS-986165 is superior to placebo at Week 16 in the treatment of subjects with moderate-to-severe plaque psoriasis

3.2 Secondary Objectives

- Assess whether BMS-986165 is superior to apremilast at Week 16
- Assess whether BMS-986165 is superior to apremilast at Week 24
- Assess whether BMS-986165 is superior to placebo over the first 16 weeks of treatment
- Assess whether BMS-986165 is superior to placebo in scalp psoriasis through Week 16 in those subjects who have baseline scalp severity Physician's Global Assessment (ss-PGA) score ≥3
- Assess whether BMS-986165 is superior to apremilast in scalp psoriasis through Week 16 in those subjects who have baseline ss-PGA score ≥3
- Assess whether BMS-986165 is superior to placebo in nail psoriasis through Week 16 in those subjects who have baseline Physician's Global Assessment-Fingernail (PGA-F) psoriasis score ≥3
- Assess whether BMS-986165 is superior to placebo in palmoplantar psoriasis through Week 16 in those subjects who have baseline palmoplantar Physician's Global Assessment (pp-PGA) score ≥3
- Evaluate improvement in patient-reported outcomes for BMS-986165 compared with placebo through Week 16
- Evaluate improvement in patient-reported outcomes for BMS-986165 compared with apremilast through Week 24
- Evaluate maintenance and durability of efficacy of BMS-986165 during the randomized withdrawal period through Week 52 among Week 24 PASI 75 responders continuing on treatment compared with those re-randomized to placebo

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4.0 Outcomes

The description of assessments for efficacy and safety can be found in Section 8 of the protocol. The calculation of key measures are provided in Section 8.2 of the SAP.

4.1 Efficacy

4.1.1 Primary Endpoint(s)

The coprimary endpoints for BMS-986165 compared to placebo at Week 16 are defined as:

- sPGA 0/1 response assessed as a proportion of subjects with an sPGA score of 0 or 1 with at least a 2-point improvement from baseline
- PASI 75 response assessed as a proportion of subjects who achieve a 75% improvement from baseline in the PASI score

4.1.2 Secondary Endpoint(s)

4.1.2.1 Key Secondary Endpoints for Comparisons to Placebo

The key secondary efficacy endpoints for BMS-986165 compared to placebo at Week 16 are defined as:

- PASI 90 response assessed as a proportion of subjects who achieve a 90% improvement from baseline in PASI score
- sPGA 0 response assessed as a proportion of subjects with an sPGA score of 0
- Scalp specific Physician's Global Assessment (ss-PGA) 0/1 assessed as a proportion of subjects with a ss-PGA score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline ss-PGA score ≥3
- PSSD symptom score of 0 assessed as a proportion of subjects with a PSSD symptom score of 0 among subjects with a baseline PSSD symptom score ≥1
- PASI 100 response assessed as a proportion of subjects who achieve a 100% improvement from baseline in PASI score
- Physician Global Assessment-Fingernails (PGA-F) 0/1 assessed as a proportion of subjects with a PGA-F score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline PGA-F score ≥3
- DLQI 0/1 assessed as a proportion of subjects with a DLQI score of 0 or 1 among subjects with a baseline DLQI score ≥2 (Ex-US submission only)

An additional key secondary endpoint to assess the maintenance and durability of efficacy of BMS-986165 during the randomized withdrawal period through Week 52 among Week 24 PASI 75 responders compared with re-randomized placebo is defined as:

 Time-to-relapse (where relapse is defined as ≥ 50% loss of Week 24 PASI percent improvement from baseline) until Week 52 for Week 24 BMS-986165 PASI 75 responders (Ex-US submission only)

4.1.2.2 Key Secondary Endpoints for Comparisons to Apremilast

The key secondary endpoints for BMS-986165 compared to apremilast at Week 16 are defined as:

- sPGA 0/1 response assessed as a proportion of subjects with an sPGA score of 0 or 1 with at least a 2-point improvement from baseline
- PASI 75 response assessed as a proportion of subjects who achieve a 75% improvement from baseline in the PASI score

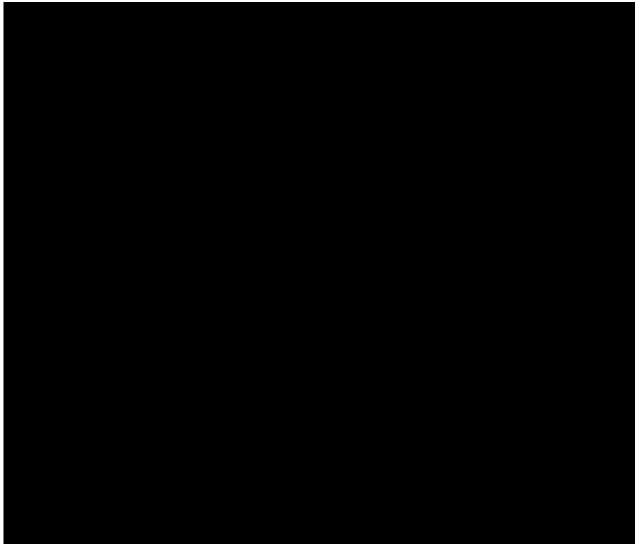
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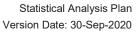
- PASI 90 response assessed as a proportion of subjects who achieve a 90% improvement from baseline in the PASI score
- Change from baseline in PSSD symptom score
- ss-PGA 0/1 assessed as a proportion of subjects with a ss-PGA score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline ss-PGA score ≥3
- sPGA 0 response assessed as a proportion of subjects with an sPGA score of 0
- PSSD symptom score of 0 assessed as a proportion of subjects with a PSSD symptom score of 0 among subjects with a baseline PSSD symptom score ≥1

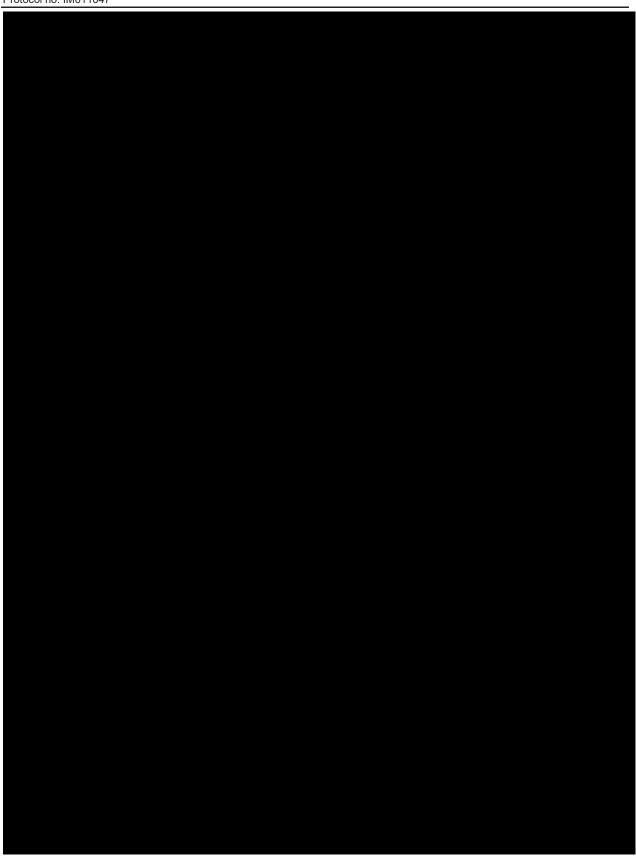
The key secondary endpoints for BMS-986165 compared to apremilast at Week 24 are defined as:

- sPGA 0/1 response assessed as a proportion of subjects with an sPGA score of 0 or 1 with at least a 2-point improvement from baseline at Week 24
- PASI 75 response assessed as a proportion of subjects who achieve a 75% improvement from baseline in the PASI score at Week 24
- PASI 90 response assessed as a proportion of subjects who achieve a 90% improvement from baseline in the PASI score at Week 24



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4.2 Safety

The safety outcomes include the following:

- Adverse events (AEs)
 - o Treatment-emergent adverse events (TEAEs) defined as:
 - AEs which occur after the first dose of study treatment through 30 days after the final dose of the study treatment or subject's participation in the study if the last scheduled visit occurs at a later time.
 - Treatment-emergent adverse events of interest (AEIs) for the following events:
 - Skin-related AEs
 - Infection AEs, including influenza
 - CK elevation (evaluated as lab toxicity grade 2 or higher)
 - Malignancy
 - SAEs
 - Deaths
- Clinical laboratory parameters
 - Absolute and change from baseline values
 - Laboratory abnormalities (as determined by Controlled Terminology Criteria for Adverse Events [CTCAE v5.0] grading) presented as the worst postbaseline toxicity group
 - Shifts from baseline
 - Potential drug induced liver injury (DILI) is defined as a subject who meets the following criteria:
 - 1) ALT or AST elevation >3 times ULN

AND

 2) Total bilirubin >2 times ULN, without initial findings of cholestasis (elevated serum alkaline phosphatase)

AND

3) No other immediately apparent possible causes of liver function test elevation and hyperbilirubinemia, including, but not limited to, viral hepatitis, preexisting chronic or acute liver disease, or the administration of other drug(s) known to be hepatotoxic.

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ALT or AST elevation >5 times ULN

- Vital signs
 - o Absolute and change from baseline values
 - Marked abnormalities defined by the below categories:
 - Heart rate:
 - Value > 100 and change from baseline > 30
 - Value < 55 and change from baseline < -15
 - Systolic blood pressure:
 - Value > 140 and change from baseline > 20
 - Value < 90 and change from baseline < -20
 - Diastolic blood pressure:
 - Value > 90 and change from baseline > 10
 - Value < 55 and change from baseline < -10
- Electrocardiograms (ECGs)
 - Absolute and change from baseline values
 - o Marked abnormalities defined by the below categories:
 - QT interval corrected using Fridericia's formula (QTcF):
 - 450 -< 480 msec
 - 480 -< 500 msec
 - ≥ 500 msec
 - 30 < change from baseline ≤ 60 msec
 - Change from baseline > 60 msec
 - Males: < 450 msec, ≥ 450 msec
 - Females: < 470 msec, ≥ 470 msec
 - PR interval ≥ 200 msec
 - QRS interval ≥ 200 msec

In cases where the QT interval is corrected using Bazett's (QTcB) formula is captured instead of QTcF, then QTcB will be converted to QTcF for analyses.

- Eight-Item Patient Health Questionnaire (PHQ-8) total score
 - Absolute and change from baseline values
 - Shifts from baseline scores
- Electronic Columbia-Suicide Severity Rating Scale (eC-SSRS)
 - Suicidal ideation and suicidal behavior responses by visit
 - Shifts from baseline to postbaseline value for suicidal ideation and suicidal behavior
 - Worst postbaseline value for suicidal ideation and behavior

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5.0 Populations for Analyses

The following analysis sets will be used in the summary and analysis of study data:

- Enrolled population: All subjects who sign informed consent.
- **Full Analysis Set (FAS)**: All subjects who are randomized. Following the intent-to-treat (ITT) principle, subjects will be analyzed according to the treatment group assigned at randomization. The FAS will be the primary efficacy analysis population.
- Per Protocol Set (PPS): A subset of the FAS who are compliant with study treatment and who do
 not have any relevant protocol deviations that may impact the coprimary efficacy endpoint
 assessments. The PPS will be analyzed according to the treatment assigned at randomization. The
 PPS will be a supportive efficacy analysis population and only the co-primary endpoints will be
 analyzed using this set.
- **As-treated population**: All randomized subjects who take at least one dose of study treatment. Subjects will be analyzed according to treatment received.



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5.1 Relevant Protocol Deviations

Relevant protocol deviations are deviations that can have an impact on the primary efficacy endpoints. The impact of relevant protocol deviations on the primary efficacy results will be assessed by excluding subjects from the FAS to define the PPS in supportive analyses of the primary efficacy endpoints. Relevant protocol deviations to be considered regarding exclusion of subjects from the FAS will include the following:

- Randomized but did not take any study treatment
- No postbaseline PASI or sPGA
- Baseline BSA involvement < 10%
- Baseline PASI score < 12
- Baseline sPGA < 3
- Did not have non-plaque psoriasis at baseline
- Poor compliance to study medication within the first 16 weeks of treatment, <75% compliant with study treatment
- Failure to adhere to prohibited concomitant medication restrictions as described below:
 - Investigational drug or placebo taken outside of the study any time between Day 1 and the Week 16 assessment
 - Phototherapy within 4 weeks prior to the Week 16 assessment
 - Biologic medications (eg, adalimumab, etanercept, infliximab, ustekinumab) any time between Day 1 and the Week 16 assessment
 - Oral psoriasis medications any time between Day 1 and the Week 16 assessment
 - Oral corticosteroids (unless for the treatment of an adverse event) within 4 weeks prior to the Week 16 assessment
 - Topical medications/treatments that could affect psoriasis evaluations within 2 weeks prior to the Week 16 assessment
 - Medicated shampoos within 2 weeks prior to the Week 16 assessment
- Subject received treatment that was different than intended treatment at any visit prior to Week 16.

All subjects with relevant protocol deviations will be identified prior to database lock and unblinding of treatment assignment with the exception of subjects where actual treatment received is different than randomized treatment which will be determined after treatment unblinding. Relevant protocol deviations will be summarized by treatment group and deviation category for the FAS population.

6.0 Statistical Analyses

Descriptive summaries and analyses will be presented for data captured throughout the study using the following treatment groups.

During the first 16 weeks of treatment, summaries will be provided for the following treatment groups:

- BMS-986165 6 mg QD
- Apremilast
- Placebo

During the first 24 weeks of treatment, summaries will be provided for the following treatment groups:

- BMS-986165 6 mg QD (subjects continuously taking BMS-986165 6 mg QD)
- **Apremilast**

Summaries of all subjects exposed to BMS-986165 6 mg QD will also be provided as applicable. Adverse events will be summarized using exposure-adjusted incidence rates (EAIR) for these summaries.

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Additionally, certain data for BMS-986165 Week 24 PASI 75 responders who have been re-randomized will be summarized by re-randomized treatment. Additional summary may be defined later.

6.1 Efficacy Analyses

All efficacy analyses will be performed using the FAS, unless otherwise specified.

Tests of significance of BMS-986165 6 mg QD vs. placebo for the coprimary endpoints will be two-sided with a significance level of 0.05. Both coprimary endpoints need to demonstrate statistical significance to result in a successful study.

The key secondary endpoints will be tested with a two-sided significance level of 0.025 to compare BMS-986165 6mg QD vs. placebo and vs. apremilast. A hierarchical testing approach will be used for testing of key secondary endpoints (see Section 6.1.3). Two-sided 95% confidence intervals (CIs) will be provided for all efficacy estimates.

Coprimary and key secondary efficacy endpoints will be displayed graphically by treatment group and visit, as applicable. All efficacy endpoints will be summarized descriptively.

The stratified levels are provided below:

- US/PRIOR USE/< 90 KG
- US/PRIOR USE/>=90 KG
- US/NAÏVE/<90 KG
- US/NAÏVE/>=90 KG
- ROW/PRIOR USE/< 90 KG
- ROW/PRIOR USE/>=90 KG
- ROW/NAÏVE/<90 KG
- ROW/NAÏVE/>=90 KG

6.1.1 Primary Endpoints

6.1.1.1 Primary Analysis

Analysis Model

A stratified Cochran-Mantel-Haenszel (CMH) test will be used to compare the sPGA 0/1 response rates at Week 16 between BMS-986165 6 mg QD and placebo using the stratification factors from IRT specified in Section 6.1. The odds ratio (ratio of odds in BMS-986165 6 mg QD group to the odds in the placebo group) and the corresponding 2-sided 95% CIs and p-values will be reported. Additionally, treatment differences in proportions and the 95% CI for the treatment difference will be provided. The common treatment difference in proportion with the confidence interval, common odds ratio with the confidence interval and p-value will be estimated by the Mantel-Haenszel method consistently.

A similar analysis will be performed to compare the PASI 75 response rates at Week 16 between BMS-986165 6mg QD and placebo.

Imputation Methodology

Non-responder imputation (NRI) will be used for coprimary efficacy endpoints for subjects who:

- Discontinue treatment or study prior to Week 16
- Have missing Week 16 endpoint data for any reason

NRI will be used as the primary method of imputation for the coprimary efficacy endpoints.

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6.1.1.2 Sensitivity Analyses

As a method to assess the sensitivity of the primary imputation method for the coprimary endpoints, further imputation methods will be used to impute Week 16 data in subjects who:

- Discontinue treatment or study prior to Week 16
- Have missing Week 16 endpoint data for any reason

The coprimary endpoints will be analyzed using the primary analysis method for each sensitivity imputation method described below:

Last Observation Carried Forward (LOCF)

The last observed post-baseline value will be carried forward and used as the Week 16 value. Subjects without a post-baseline will be considered a nonresponder.

LOCF and NRI

Subjects randomized to the placebo group will have the endpoint value imputed using LOCF (post-baseline). If a placebo subject does not have a post-baseline values, they will be considered a nonresponder. Subjects randomized to BMS-986165 6 mg QD will have their endpoint value imputed using the NRI methodology.

Tipping Point Analysis

Tipping point analysis will further be used to assess the robustness of the primary study results. Different number of events between treatment groups will be assessed until the study conclusion is changed. Each imputed value is initially imputed as a responder. The imputed values in the placebo group will remain as responders while the BMS-986165 imputed values are replaced as a nonresponders one at a time, therefore changing the number of events between groups. Once all imputed values in the BMS-986165 group have been replaced with nonresponders values, the data will reset to where the BMS-986165 group imputed values are all responders and one by one the imputed values in the placebo group are replaced with a nonresponder until all placebo are nonresponders and all BMS-986165 are responders. Furthermore, every pair of imputations between the placebo and BMS-986165 groups will be assessed similarly, creating a matrix of possible patterns.

At each iteration, the statistical analysis is assessed, and the direction of the analysis is recorded. A graph will be provided to identify at what point to which the difference in events cause a direction shift in study results. The tipping point analyses will be based on a two-sample chi-square test approach rather than a stratified CMH test approach for simplicity of the analysis.

Figure 1: Example of Tipping Point Analysis Direction Boundary

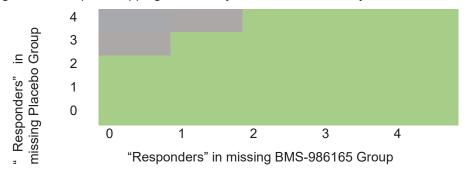


Figure 1 represents an example of the tipping-point analysis for all subjects with missing primary efficacy endpoint (responder/non-responder) in BMS-986165 group (N=5) and placebo group (n=5). Gray cells represent pairs where the statistical analysis resulted in non-significance. Green cells represent pairs where the statistical analysis resulted in significant difference between groups. The tipping-point boundary is where the green cells become gray.

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Multiple Imputation

Multiple imputation (MI) will be used for sensitivity analyses for each of the coprimary efficacy endpoints, PASI 75 response at Week 16 and sPGA 0/1 response at Week 16. Multiple imputation of missing data for PASI 75 response and sPGA 0/1 response will be performed by fully conditional specification (FCS) using PROC MI in SAS with the FCS option. The FCS MI specifies the multivariate imputation model on a variable-by-variable basis by a set of conditional densities. For each missing value at Week X, the FCS MI will generate values from a conditional distribution for the missing data given the other data prior to Week X. The FCS MI model will include treatment group and stratification factors for randomization. A total of 1000 imputed (complete) datasets will be generated for the MI analysis. The same test procedure used for the main analysis (CMH test), will be used to analyze the responder endpoint from each imputed dataset. SAS PROC MIANALYZE will be used to pool the results from the CMH tests and generate an overall result by Rubin's rules (1987).

6.1.1.3 Supportive Analyses

Per Protocol Population Analysis

The coprimary endpoints will be analyzed using the PPS using the primary analysis methodology and primary imputation method.

6.1.2 Key Secondary Endpoints

6.1.2.1 Binary Endpoints

Analysis Model

CMH tests will be used to compare response rates between either BMS-986165 6mg QD and placebo or apremilast using the stratification factors from IRT specified in Section 6.1. The odds ratio (ratio of odds in BMS-986165 6 mg QD group to the odds in the placebo or apremilast group) and the corresponding 2-sided 95% CIs and p-values will be reported. Additionally, treatment differences in proportions and the 95% CI for the treatment difference will be provided.

Imputation Methodology for Week 16 Endpoints

NRI will be used for key secondary efficacy endpoints for subjects who:

- Discontinue treatment or study prior to Week 16
- Have missing Week 16 endpoint data for any reason

Imputation Methodology for Week 24 Endpoints (for comparison of BMS-986165 6 mg QD to apremilast)

NRI will be used for key secondary efficacy endpoints for subjects who:

- Discontinue treatment or study prior to Week 24
- Have missing Week 24 endpoint data for any reason

6.1.2.2 Continuous Endpoints

Analysis Model

Analysis of covariance (ANCOVA) models will be used to compare the change between BMS-986165 6 mg QD and placebo or between BMS-986165 6 mg QD and apremilast at Week 16. Treatment group will be included in the model as well as the stratification factors from IRT specified in Section 6.1 and will be considered as fixed effects. The baseline value will be added into the model as a covariate. The adjusted least-squares (LS) means as well as the treatment differences based on LS means and the corresponding 2-sided 95% CIs will be provided for the difference between BMS-986165 6 mg QD and placebo or apremilast.

Imputation Methodology for Week 16 Endpoints

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For continuous key secondary endpoints, a modified baseline observation carried forward (mBOCF) approach will be used for missing data. The baseline observation will be carried forward for subjects who discontinue study treatment prior to Week 16 due to:

- Lack of efficacy
- AEs

Subjects who discontinue study treatment prior to Week 16 for other reasons or who have a missing Week 16 value will have the last valid observation carried forward (including the baseline value as applicable).

6.1.2.3 Time-to-Relapse Endpoint

PASI 75 response will be assessed at each visit between Week 24 and Week 52. Subjects who experience a relapse as defined above at any visit between Week 24 and Week 52 will be considered as having an 'event'. Subjects who discontinue study (or treatment) during this time, have missing data, and subjects that do not have relapse by Week 52 will be censored and the date they experienced the above criteria, will be used as their 'event' date.

The Kaplan-Meier product limit method will be used to estimate the survival curves for time-to-relapse during the randomized withdrawal period. Treatment comparisons between BMS-986165 6 mg QD and placebo for subjects re-randomized during the randomized withdrawal period will be performed using the log-rank test stratified using the stratification factors from IRT specified in Section 6.1.



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6.1.4 Subgroup Analyses

Subgroup analyses will be performed on the coprimary endpoints using the FAS. The primary imputation method will be applied for these analyses. The CMH test using the stratification factors from IRT will be the analysis method used. The following subgroups will be considered:

- Geographic region (U.S., Rest of World)
- Country
- Sex (male, female)
- Age group (<65 y, ≥65 y)
- Body weight (<90 kg, ≥90 kg) from case report form
- Race
- Prior biologic use for psoriasis, psoriatic arthritis and other inflammatory diseases only (yes, no) from case report form
- Prior systemic treatment use (yes/no)
- Prior phototherapy use (yes/no)
- sPGA (3, 4)
- PASI score (≤20, >20)
- BSA involvement (10-20, >20)
- Duration of disease (< 10 y, ≥ 10 y)
- Age at disease onset (<18, 18-39, ≥40)



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6.2 Safety

Summaries of safety data will be presented by period and treatment group, as applicable, for the As-treated population.

6.2.1 Adverse Events

Adverse events will be presented for the number and percentage of subjects and the number of events. Treatment-emergent will be provided in listings. Summary tables will be reported in decreasing frequency based on the BMS-986165 column. Counting for frequency analysis will be by subject and not by AEs, and subjects are only counted once for recurring AEs within each system organ class (SOC) or preferred term (PT); however, the number of total AEs per subject, including multiple occurrences of individual AEs, will also be presented. For summaries of severity, AEs will be reported only at their maximum severity in each subject. Subjects with multiple AEs within a particular SOC or PT will be counted under the category of their most severe event within that SOC or PT.

AE (including deaths) dates will be imputed according to algorithms detailed in <u>Section 8.0</u>. The imputed date of AE onset will be used to assess whether AEs should be considered as treatment-emergent and included in the safety summaries. The original, partial dates will be included in data listings. No imputation will be performed on missing AE seriousness, severity, or relationship; they will be reported as missing.

AEs will be included in a period if the start date of the AE is after the first dispensation date within a period.

An overall summary for the following categories will be presented:

- Deaths
- SAEs
- Related SAEs
- AEs
- Related AEs
- Discontinued treatment due to AEs

The following summaries will also be provided for the following:

- TEAEs by SOC and PT
- Treatment-related TEAEs by SOC and PT
- TEAEs by PT reported in ≥ 5% of subjects
- TEAEs by PT reported in ≥ 1% of subjects
- Treatment-related TEAEs by PT reported in ≥ 5% of subjects
- TEAEs categorized by severity by SOC and PT
- Exposure-adjusted incidence rate (EAIR) for TEAEs by SOC and PT EAIR is defined in Section 8.1 of the SAP.

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6.2.1.1 Adverse Events of Interest (AEI) and Other Important AEs

Summaries for treatment-emergent AEIs events will be provided by PT for each AEI category:

- Skin-related events
- Infection events
- Malignancy events

Creatine kinase (CK) elevation for CK elevation > 2.5 upper limit of normal will be summarized as CTCAE grade 2 or higher in the clinical laboratory summaries.

Additional information collected for some events as part of the clinical safety program and adjudicated events will also be summarized.

6.2.1.2 Serious Adverse Events

Summaries for treatment-emergent SAEs will be provided for the following:

Treatment-emergent SAEs by SOC and PT

6.2.1.3 Adverse Events Leading to Discontinuation of Study Treatment or Study Treatment Interruption

Summaries for TEAEs leading to discontinuation of study treatment will be provided for the following:

TEAEs by SOC and PT

Summaries for TEAEs leading to study treatment interruption will be provided for the following:

• TEAEs by SOC and PT

6.2.2 Deaths

All adverse events with an outcome of death will be listed.

6.2.3 Clinical Laboratory Data

Laboratory parameters will be summarized using the International System (SI) of Units and US conventional units. Data will be summarized by time point, as applicable. The following summaries will be provided for each parameter:

- Absolute and change from baseline values for continuous parameters
- Number and percentage of subjects for the following:
 - Maximum postbaseline CTCAE grade for each applicable laboratory parameter through Week 16
 - Shifts from baseline based on maximum postbaseline CTCAE grade through Week 16
- Drug-induced Liver Injury (DILI) and Hy's Law summaries

6.2.4 Vital Signs and Physical Findings

Vital signs, including weight, will be summarized by time point, as applicable. The following summaries will be provided for each parameter:

- Absolute and change from baseline values
- Number and percentage of subjects for the following:
 - Marked abnormality for each abnormality category as defined in Section 4.2

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6.2.5 ECGs

ECG parameters will be summarized by time point, as applicable. The following summaries will be provided for each parameter:

- Absolute and change from baseline values
- Number and percentage of subjects for the following:
 - Marked abnormality for each abnormality category as defined in Section 4.2

6.2.6 Other Safety Data

6.2.6.1 PHQ-8

PHQ-8 total score will be summarized by time point, as applicable. The following summaries will be provided:

- Absolute and change from baseline values
- Number and percentage of subjects:
 - Shifts from none, mild, moderate, moderately severe and severe scores at baseline and at each time point

6.2.6.2 eC-SSRS

Suicidal ideation and behavior individual item responses will be summarized by time point, as applicable. The following summaries will be provided:

- Number and percentage of subjects with positive responses on suicidal ideation and/or suicidal behavior questions for each question and overall all questions within suicidal ideation and suicidal behavior
- Shifts from baseline based on maximum postbaseline response through Week 16
- Worst postbaseline value for suicidal ideation and behavior through Week 16

6.3 General Methodology

The following standards/ methods will be used:

- Statistical package(s) planned to be used
 - o All analyses will use SAS version 9.4 or higher.
- Standard summary statistics for continuous and categorical variables:
 - Unless otherwise noted, categorical variables will be summarized using counts and percentages. Percentages will be rounded to one decimal place, except 100% will be displayed without any decimal places and percentages will not be displayed for zero counts.
 - Continuous variables will be summarized using the number of observations (n), mean, standard deviation (SD), median, minimum and maximum. The median, minimum and maximum values will be displayed to the same level of precision as the raw data, the mean to a further decimal place and the SD to two additional decimal places.
 - o Variables will be summarized by period, treatment group, and time point, as applicable.

6.3.1 Subject Populations and Disposition

The number of subjects enrolled/screened and the number and percentage of subjects randomized, treated, and in each analysis population will be presented. The number and percentage of subjects randomized in each region, country, and site will be presented.

Additionally, the following summaries will be provided for the FAS by treatment group and overall:

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- Number and percentage of subjects who completed 16 weeks of treatment
- Number and percentage of subjects who discontinued treatment prior to Week 16 and reason for treatment discontinuation
- Number and percentage of subject who completed 24 weeks of treatment, who discontinued treatment prior to Week 24 and post Week 16, and those who discontinued at any time prior to week 24 and reason for treatment discontinuation. Denominator will be the number of subjects in the FAS.
- Number and percentages of subjects who completed 52 weeks of treatment, who discontinued treatment prior to Week 52 and post Week 24, and who discontinued treatment at any time and reason for treatment discontinuation. Denominator will be the number of subjects in the FAS.

6.3.2 Demographic and Baseline Characteristics

Demographic and baseline characteristics will be summarized by treatment group for the FAS. Demographic characteristics include the following:

- Sex
- Race
- Ethnicity
- Age (in years, at time of signing informed consent) and age category (<65 vs ≥65)
- Weight (in kg, at baseline) and weight category (≥90 kg, <90 kg)
- Body mass index (BMI in kg/m², at baseline)
- Geographic region (U.S., Rest of World)
- Prior biologic use for psoriasis, psoriatic arthritis and other inflammatory diseases only (yes, no)
- Reason for discontinuation of prior biologic use
- Prior systemic treatment use (yes/no)
- Prior phototherapy use (yes/no)
- Stratification factors obtained from IRT: geographic region by prior biologic use and by body weight
- Stratification factors obtained from database: geographic region by prior biologic use and by body weight
- sPGA (3, 4)
- PASI score (≤20, >20)
- BSA involvement (10-20, >20)
- Duration of disease (< 10 y, ≥ 10 y)
- Age at disease onset (<18, 18-39, ≥40)

Additional demographics or baseline data may be added to summary tables.

General medical history and medical history related to psoriasis will be coded using the Medical Dictionary for Regulatory Activities (MedDRA). General medical history data will be summarized for each SOC and PT by treatment group and overall for the FAS. Separate tables will be provided for psoriasis medical history.

6.3.3 Prior and Concomitant Medications

Prior and concomitant medications will be coded according to World Health Organization-Drug Dictionary WHO-DD (version at the time of DBL) and will be summarized by Anatomic Therapeutic Classification (ATC) and preferred term (PT) by treatment group for the As-treated population. The number and percentage of subjects using at least one medication and each medication will be displayed by treatment group. Subjects taking more than one medication within the same ATC or PT will be counted once.

Summaries will be provided for prior medications and medications that started prior to first treatment and were ongoing after first treatment start date as well concomitant medications.

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Medication dates will be imputed according to algorithms detailed in Section 8.0. The imputed dates will be used to assess whether medications should be included in the summaries as prior or concomitant, however the original, partial dates will be included in data listings.

6.3.3.1 Psoriasis, Psoriatic Arthritis and Other Inflammatory Disease Related Systemic Medications

Prior medications and medications that started prior to first treatment and were ongoing after first treatment start date for systemic biologic and non-biologic medications will be summarized as described above for the number and percentage of subjects using each reported medication.

6.3.3.2 Concomitant High Potency Corticosteroid Use

The number and percentage of subjects using at least one high potency topical corticosteroid at Week 24 will be summarized by treatment group. Additionally, corticosteroids will be summarized by ATC and PT.

6.3.4 Exposure

6.3.4.1 Duration of Treatment

Duration by Group

Overall duration of each treatment, in days, will be calculated for each subject in each treatment group. Subjects are dispensed study treatment at each visit, starting with Day 1 (Week 0) and at each subsequent visit. The date of first dose of study treatment is the Week 0 dosing date and is recorded on the eCRF. If this date is missing, then the earliest drug dispensation date will be used. The last dose date is recorded on the end of treatment page in the eCRF. If this date is missing, then the latest date from the page or drug accountability return date will be used.

Duration of treatment will be summarized descriptively by randomized treatment group.

BMS-986165:

Subjects randomized to BMS-986165 continuing on BMS-986165 either if PASI 75 responder at Week 24 or subjects randomized to BMS-986165 and are Week 24 PASI 75 nonresponders will have their duration of treatment derived as:

Date of last dose – date of first dose +1

Subjects randomized to BMS-986165 and re-randomized to placebo at Week 24 will have their duration of treatment derived as:

- BMS-986165 (Wk 0 through Wk 24) = Date of last dose of BMS-986165 prior to first placebo dose date date of first dose +1
- Placebo (Wk 24 through final week on placebo) = Date of last dose of placebo date of first dose of placebo + 1
- BMS-986165 (First dose after relapse on placebo or switched to BMS-986165 due to COVID-19 through Wk 52) = Date of last dose of BMS-986165 first BMS-986165 dose date after relapse + 1; only calculated for subjects that relapse or are switched to BMS-986165 due to COVID-19
- Total BMS-986165 = Sum BMS-986165 exposure over entire treatment period

Placebo:

For subjects randomized to placebo, duration is defined as:

- Placebo = Date of last dose of placebo date of first dose +1
- BMS-986165 = Date of last dose of BMS-986165 date of first dose of BMS-986165 +1

Apremilast:

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For subjects randomized to apremilast, duration is defined as:

- Apremilast (Wk 0 through Wk 24) = Date of last dose of apremilast date of first dose +1
- Placebo (PASI 75 nonresponders) = Date of last dose of placebo date of first dose of placebo +
- BMS-986165 (switched from apremilast or switched from placebo to BMS-986165 after relapse or due to COVID-19) = Date of last dose of BMS-986165 – date of first dose date of BMS-986165 + 1

Duration by Period

Overall duration (in days) of each treatment received within each study period will be calculated. Duration within each period is defined for each treatment group as:

- Duration of the resumed BMS-986165 6 mg QD treatment
- For subjects on BMS-986165 who are treated with placebo following Week 24 re-randomization
 and resume BMS-986165 treatment prior to Week 52, the duration of the resumed BMS-986165
 treatment will be calculated from the first IP dispense date of the resumed BMS-986165 to either
 Week 52 IP dispense date or the date of the last dose of IP in the study for subjects who
 discontinue in the period after resuming BMS-986165.
- Duration of the re-randomized placebo treatment

For all subjects (including those initially on BMS-986165 or apremilast) who are treated with placebo following Week 24 re-randomization, the duration of the re-randomized placebo treatment will be calculated from the IP dispense date at Week 24 to either the first IP dispense date of the BMS-986165 treatment in the period; or Week 52 IP dispense date for subjects who have not resumed BMS-986165 or apremilast in the period or the date of the last dose of IP in the study for subjects who discontinue in the period.

6.3.4.2 Summary of Dosing

The number of doses taken for each subject for each period will be determined using the eCRF drug accountability data and is defined as:

Doses Taken: (number of tablets dispensed – number of tablets returned)

The number of doses taken will be summarized descriptively by treatment group within each period and overall.

6.3.4.3 Compliance

Treatment compliance will be determined from data captured on the Drug Accountability eCRF.

Number of expected doses: (date of next visit – date of current visit)x3

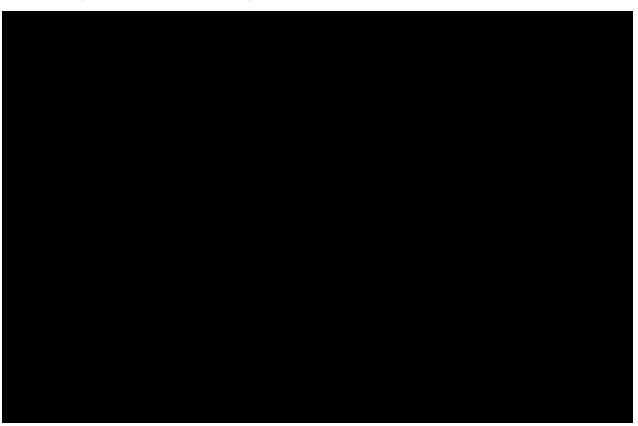
Treatment compliance will be derived for each period. Compliance is defined as:

$$\left(\frac{Number\ of\ doses\ taken}{Number\ of\ expected\ doses}\right)$$
 x100

Period compliance will be calculated by summing over all visits within the period using descriptive statistics by treatment group. The number and percentage of subjects with <75%, 75% to 100%, and >100% compliance will be provided by treatment group for each period. If a subject does not return the container,

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then this dispensation event will be excluded in the calculation for the total number of doses taken, total number of expected doses, and total compliance.



6.6 Statistical Impacts Due to COVID-19

6.6.1 Impact on Efficacy Endpoints

There are no COVID-19-related impacts to the Week 16 efficacy endpoints as all subjects remaining in the trial completed the Week 16 visit prior to COVID-19 site restrictions. Efficacy endpoints involving Week 24 and later visits may be impacted by COVID-19 in the form of missing data and/or a treatment assignment defaulting to BMS-986165.

Censoring rules will be applied to the PASI 75 time-to-relapse endpoint for re-randomized subjects due to the following COVID-19-related issues post Week 24:

- Subject study treatment assignment was defaulted to BMS-986165 because they had a remote safety monitoring visit and efficacy assessments were not performed. The subjects will be censored at the time of the remote visit if relapse had not been observed already;
- Subject has missing visits (ie, efficacy assessments not performed) after Week 24 and assuming relapse was not observed prior to missing visits:
 - o If the subject returns at a later visit and is found to have relapsed, midpoint imputation will be used to determine time-to-relapse (ie, midpoint of the censoring interval).
 - o If the subject returns at a later visit and has not relapsed, then the subject will continue to be evaluated for relapse.
 - If the subject is discontinued from the study treatment, then the subject will be censored at the time of study treatment discontinuation.

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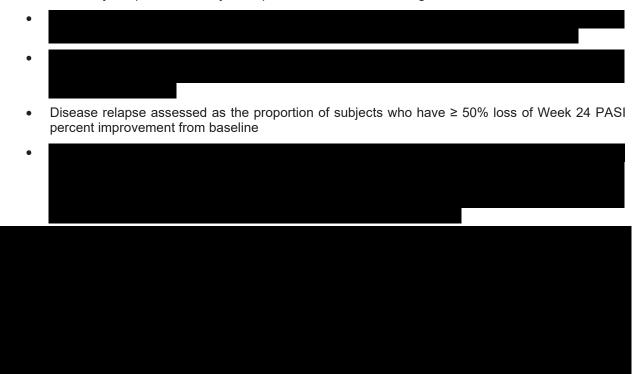
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Similar data handling rules will be applied to the following time-to-event endpoints:

- Time to first loss of PASI 75 among subjects that are PASI 75 responders at Week 24
- Time to first loss of sPGA 0/1 among subjects that are sPGA 0/1 responders at Week 24 where loss of sPGA 0/1 is defined as an sPGA score ≥ 2
- Time to rebound as defined above among subjects re-randomized to placebo
- Time-to-relapse for Week 24 PASI 75 apremilast responders switched to placebo

Additional efficacy endpoints involving later visits may be impacted by COVID-19 in the form of missing data and/or a treatment assignment defaulting to BMS-986165. If a subject has missing data or is switched to BMS-986165 from a different treatment due to COVID-19 during the Week 24 through Week 52 period, the subject will be excluded from the analysis.

Additional efficacy endpoints that may be impacted include the following:



6.6.2 Impact on Safety Endpoints

No modifications will be made for the analysis of safety data due to COVID-19-related issues. There will not be any additional safety data handling considerations for missing data or treatment interruptions due to COVID-19.

7.0 Sequence of Planned Analyses

7.1 Interim Analyses

No interim analysis is planned for this study.

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7.2 Final Analyses and Reporting

All final, planned analyses identified in this statistical analysis plan will be performed only after the last subject has completed the study and the database has been locked. The randomization codes for all subjects will not be unblinded until after the database has been locked.

Analyses of the palmoplantar pp-PGA 0/1 endpoint are provided for descriptive purposes within the individual CSR due to small sample sizes. A pooled analysis of data from IM011046 and IM011047 will be conducted for the submission.

8.0 Conventions

8.1 General Definitions

The following data definitions and handling conventions will be used for general analysis:

Term	Definition
Study Day	Study day is calculated as:
	assessment date – date of first dose + 1
Baseline	Unless otherwise stated, Baseline is defined as the measurement at the randomization visit (Week 0). If the measurement at the randomization visit is missing, then a prior measurement during the screening period may be used as baseline. Baseline assessments must be performed per protocol and standard of care assessments may not be used for baseline.
	Baseline for each PSSD question will be calculated as the average value over the 7 days prior to the randomization visit. In the event of missing values in the 7 days prior to the randomization visit, daily scores from at least 4 days out of the 7 days can be used to calculate the average score. If > 3 daily scores in the last 7 days are missing for a particular question, then the baseline value for that question will be missing. If any questions are missing baseline after using the described rule, then the baseline value for the subscore using that question and the baseline value for the total score will be missing.
Change from Baseline	Change from baseline is defined as (value at post-baseline visit – value at baseline).
Change in the maximum post- baseline value or change in the worst post-baseline value	Change from baseline in the maximum post-baseline value or grade is defined as highest observed value post-baseline. The change is calculated using this value as the post-baseline value.
	Change from baseline in the worst post-baseline value is defined as worst observed value post-baseline. The change is calculated using this value as the post-baseline value.
Concomitant and Prior Medication	Prior medications are defined as medications with a stop date prior to the first dose of study treatment. Concomitant medications are defined as any medications ongoing at the start of study treatment or with a start date on or after the first dose date.
End of Study (EOS) Date	The EOS date is the date recorded on the eCRF that a randomized subject either discontinued or completed the study. If the subject is

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	lost to follow-up, the EOS date will be the date of the last visit assessment obtained.			
Exposure-adjusted incidence rate (EAIR)	EAIR = 100* 365.25*(total number of subjects with the AE)/total exposure time for the selected AE under each treatment that a subject is exposed. Where total exposure time for each AE within a treatment is calculated as follows:			
	 If a subject has at least 1 event while on a particular treatment, then the exposure time for that subject and AE on that treatment is: First AE onset date – treatment start date (of that particular treatment) +1 If a subject does not have an event, exposure time for that AE is: Treatment stop date (of that particular treatment) – Treatment start date (of that particular treatment) + 1 + 30 days (if subject discontinued or subject completed Period 3 and is not rolling into IM011075 study) Treatment stop date (of that particular treatment) – Treatment start date (of that particular treatment) + 1 (if subject completed Period 3 and is rolling into IM011075 study) Total exposure time = sum of exposure time for each AE within a treatment 			
First Dose Date – Study	The date a subject received their first dose on Day 1 as recorded in the eCRF Week 0 dosing date or the earliest drug dispensation date.			
Last Dose Date – Study	The date of last recorded dose on the eCRF for a randomized subject.			
First Dose Date – Period	The date a subject received their first dose as recorded in the eCRF Week 0 dosing date or the earliest drug dispensation date for Treatment Period 1 and the earliest drug dispensation date for Treatment Periods 2 and 3.			
Last Dose Date – Period	The date of the last visit in the periods – 1. If a subject prematurely discontinues study treatment within a period, the date of last recorded dose on the eCRF will be used as the last dose date for the period.			
Percent Change from Baseline	Percent change from baseline is defined as ([value at post-baseline visit – value at baseline]/value at baseline) x 100. If the baseline value is 0 and the post-baseline value is also 0, then the percent change from baseline is set to 0.			
	If the baseline value is 0 and the post-baseline is >0, then the percent change from baseline value will be missing.			

8.2 Calculation of Key Measures

The following efficacy assessments will be used to assess subjects' disease activity and severity during the study. Outcomes are reported via an eCOA tool at various times throughout the study as described in the

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protocol Schedule of Activities. At study visits, assessments by the investigator or subjects and results/responses will be reported directly into the eCOA tool at the time of the visit. The tool will open assessments in a sequential manner, meaning that the full assessment is to be completed prior to moving forward to the next assessment. This limits the possibility of partially missing data. Also, as investigators/subjects are prompted to enter data for each assessment for the visit, the possibility of a full assessment being missing is also negated.

Scoring of assessments where validated algorithms are not required will be derived in SAS datasets.

Scoring of assessments where validated scoring tools are required, licenses for these tools will be purchased and used for scoring prior to incorporating into the SAS datasets.

8.2.1 Investigator-Administered Assessments

Assessments will be performed by a qualified physician or dermatologist or trained designee who is experienced in the assessment of psoriasis patients. To limit variability, every effort will be made so that the same individual conducts the assessment at all subsequent visits.

8.2.1.1 static Physician's Global assessment (sPGA)

The sPGA is a 5-point scale of an average assessment of all psoriatic lesions based on erythema, scale, and induration. The sPGA measure determines psoriasis severity at a single point in time (without taking into account the baseline disease condition) as clear (0), almost clear (1), mild (2), moderate (3), or severe (4). A higher score equates to higher severity of disease.

The individual scores at each visit for erythema (E), induration (I) and scaling (S) will be captured via the eCOA system. Scores will range from 0 to 4. A total score will also be computed based on the average of the 3 characteristic scores.

$$Total\ average\ score = \frac{E + I + S}{3}$$

The total average score will be calculated in the eCOA system. The average score will be rounded to the nearest whole number. For example, if the total average score is ≤1.49 the score will be rounded to 1. If the score is ≥1.5 the score will be rounded to 2. The primary endpoint is derived from the total average score

sPGA 0 is derived as the binary indicator for sPGA from the calculation above equal to 0 or not;

sPGA 0/1 is derived as the binary indicator for sPGA from the calculation above equal is less than 2 or not;

All individual scores and total average score assessed at each week throughout the study will be transferred to for analysis. The endpoint derivations will be performed in the analysis datasets.

8.2.1.2 Psoriasis Area and Severity Index (PASI)

The PASI is a measure of the average redness, thickness, and scaliness of psoriatic skin lesions (each graded on a 0–4 scale; 0 = none to 4 = very severe), weighted by the area of involvement (head, arms, trunk to groin, and legs to top of buttocks). The PASI produces a numeric score that can range from 0 to 72, with higher PASI scores denoting more severe disease activity. The PASI includes multiple subscores and a final total score that will be provided by the eCOA system. Individual plaque characteristic rating scores are provided for each body region as well as the weighted score. Additionally, the degree of involvement of each body region is assessed and that score is multiplied by the weighted plaque characteristic score for a final score for each body region. The total PASI score is a sum of the 4 body regions: Head, Upper Extremities, Trunk and Lower Extremities.

The PASI Total score will be used to assess response to treatment. The percent change from baseline will be calculated at each visit. The PASI 75 endpoint is the proportion of subjects who experience at least a 75% improvement in PASI score as compared with the baseline value.

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$$1 = If\left(\frac{Baseline\ PASI-Visit\ PASI}{Baseline\ PASI}\right)x100 \ge 75\ then\ subject\ is\ a\ PASI\ 75\ responder$$

0 = otherwise

The PASI 50, PASI 90, and PASI 100 are defined similarly. The endpoint derivations will be performed in the analysis datasets.

8.2.1.3 Body Surface Area (BSA)

Measurement of psoriasis BSA involvement is estimated using the handprint method with the size of a subject's handprint (including fingers and thumb) representing 1% of BSA involved. The total BSA = 100% with breakdown by body region as follows:

- Head and neck = 10% (10 handprints),
- Upper extremities = 20% (20 handprints),
- Trunk including axillae and groin = 30% (30 handprints),
- Lower extremities including buttocks = 40% (40 handprints).

The Total BSA is the sum of each body region and is assessed at each visit and recorded in the eCOA system.

The product of BSA and sPGA will be calculated. At baseline, baseline BSA will be multiplied by baseline sPGA score. The derivation will be performed at each subsequent visit.

8.2.1.4 scalp specific Physician's Global Assessment (ss-PGA)

The scalp specific assessment will only be performed in subjects with scalp involvement. If there is evidence of scalp involvement, scalp lesions are evaluated in terms of clinical signs of redness, thickness, and scaliness and scored on the following 5-point ss-PGA scale:

0 = absence of disease, 1 = very mild disease, 2 = mild disease, 3 = moderate disease, 4 = severe disease.

The ss-PGA is assessed at each visit throughout the study in subjects that have evidence of scalp psoriasis at baseline. The score will be collected in the eCOA system.



8.2.1.6 Physician's Global Assessment-Fingernails (PGA-F)

In this assessment, fingernail psoriasis is evaluated. The PGA-F will be performed at baseline. If a subject shows evidence of psoriatic fingernail involvement, the assessment will be performed at each subsequent visit to assess severity and improvement over time. Only subjects with PGA-F at baseline will be assessed throughout the study. The overall condition of the fingernails is rated on a 5-point scale:

0 = clear, 1 = minimal, 2 = mild, 3 = moderate, and 4 = severe

The rating score will be collected in the eCOA system.

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8.2.1.8 Palmoplantar PGA (pp-PGA)

This measure will be used for subjects with palmoplantar (finger and toe surfaces) involvement at baseline. Only subjects with baseline palmoplantar involvement will continue to have these assessments at each subsequent visit throughout the study. The pp-PGA uses a 5-point (0-4) overall severity scale:

0 = clear; 1 = almost clear; 2 = mild; 3 = moderate; and 4 = severe.

Scores are collected at each visit and entered in the eCOA system.



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8.2.2 Subject-Reported Assessments

8.2.2.1 Psoriasis Symptoms and Signs Diary (PSSD)

The PSSD is an 11-item subject-reported instrument that assesses severity of symptoms and subject-observed signs commonly associated in plaque psoriasis. It has been shown to be reliable and valid in measuring symptoms and signs of subjects with moderate-to-severe plaque psoriasis in the clinic and has strong psychometric properties in assessing treatment effects in clinical trials. The PSSD assesses severity of 5 symptoms (itch, pain, stinging, burning, skin tightness) and 6 subject-observed signs (skin dryness, cracking, scaling, shedding or flaking, redness, bleeding) using 0–10 numerical ratings. The severity of each item is rated on an 11-point numeric rating scale ranging from 0 (absent) to 10 (worst imaginable).

The following questions in the instrument are included in the symptom score: Q1, Q4, Q9, Q10, Q11

The following questions in the instrument are included in the sign score: Q2, Q3, Q5, Q6, Q7, Q8

Two versions of the PSSD were developed, one with a 24-hour recall period (PSSD-24h) and one with a 7-day recall period. The PSSD-24h will be administered daily in this trial to avoid recall bias with a longer recall period. Individual scores to each question are collected daily in the PSSD. For visit PSSD scoring, the daily scores (with 24-h recall periods) over the prior 7 day will be used and the average score to each of the 11 questions will be used as the score at that visit. In case missing data arise during the 7 days prior to the visit, daily scores of at least 4 days out of the 7 can be used. If >3 scores are missing, the average score will be missing. Baseline PSSD score is calculated based on the daily diary collected data during the screening period. Baseline for each PSSD question will be calculated as the average value over the 7 days prior to the randomization visit. In the event of missing values in the 7 days prior to the randomization visit, daily scores from at least 4 days out of the 7 days can be used to calculate the average score. If > 3 daily scores in the last 7 days are missing for a particular question, then the baseline value for that question will be missing. If any questions are missing baseline after using the described rule, then the baseline value for the subscore using that question and the baseline value for the total score will be missing.

A symptom score will be derived by averaging the 5 questions included in the symptom score and multiplying by 10. To obtain a symptom score on a given day, responses to at least 2 of the 5 questions must be available. If 3 or more questions are missing, the symptom score is considered missing.

A sign score will be derived by averaging the 6 questions included in the sign score and multiplying by 10. Responses to at least 3 of the 6 questions must be available in order to obtain a sign score for a given day. If more than 3 questions are missing, the sign score is considered missing.

Both scores range from 0-100, where 0 representing the least severe symptom/sign and 100 the most severe. A total PSSD score with range 0-100 will be derived from taking the average of the symptom and sign scores.

8.2.2.2 Dermatology Life Quality Index (DLQI)

The DLQI is a subject-reported quality of life index which consists of 10 questions concerning symptoms and feelings, daily activities, leisure, work, school, personal relationships, and treatment during the last week. Each question is scored on a scale of 0 to 3 where 0="not at all", 1="a little", 2="a lot", or 3="very much". The scores are summed, giving a range from 0 (no impairment of life quality) to 30 (maximum impairment). Question 7 includes 2 questions, if the subject answers 'Yes' to Q7, the score given is a 3. If the subject answers 'No' to Q7, they are asked the second question where a score of 0='not at all', 1='a little', or 2='a lot' is given. Certain questions include an option for not relevant. When scoring, any questions deemed 'not relevant' will take on a value of 0.

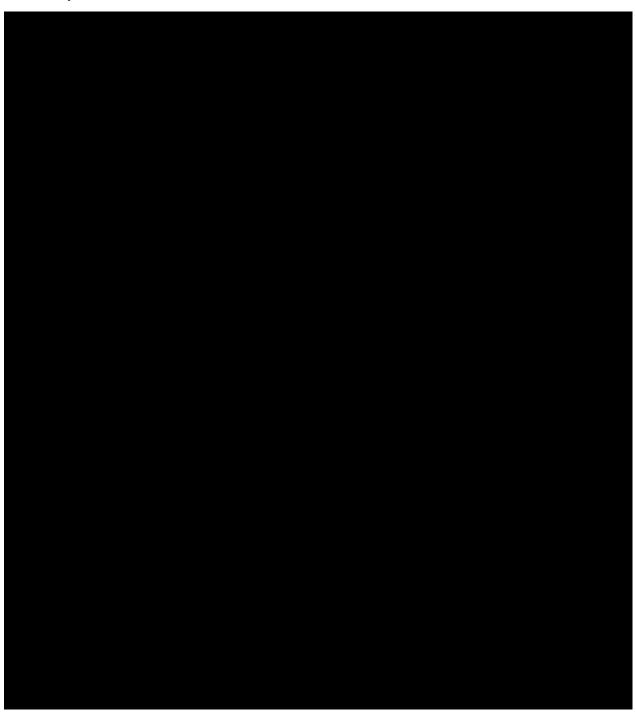
- . Interpretation of DLQI scores is as follows:
 - 0-1 = no effect at all on patient's life
 - 2-5 = small effect on patient's life

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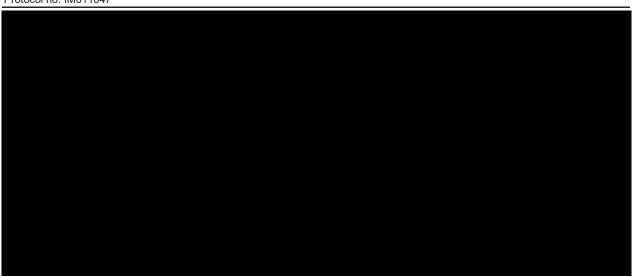
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- 6-10 = moderate effect on patient's life
- 11-20 = very large effect on patient's life
- 21-30 = extremely large effect on patient's life

Individual scores for each question will be provided by the eCOA system. The DLQI score will be derived in the analysis datasets.



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8.2.2.8 Psoriatic Arthritis Screening and Evaluation (PASE) Questionnaire

The PASE questionnaire will be administered at Screening in subjects with peripheral joint complaints. The PASE questionnaire is a self-administered tool that is used to screen for psoriatic arthritis among subjects who have psoriasis. The PASE questionnaire consists of 15 questions subdivided into 7 questions focusing on symptoms of psoriatic arthritis, and 8 questions focusing on the impact of psoriatic arthritis on function. Each question is scored on a 1 to 5 scale, with a maximum symptom sub-scale score of 35, a maximum function sub-scale score of 40 giving a total maximum score of 75. A score of 47 or above has been shown to distinguish between psoriatic arthritis and non-psoriatic arthritis. This questionnaire is only intended to be a screening tool for psoriatic arthritis and does not replace a comprehensive musculoskeletal exam performed by a rheumatologist. This information will not be summarized.

8.2.2.9 Eight-Item Patient Health Questionnaire (PHQ-8)

The PHQ-8 is established as a valid diagnostic and severity measure for depressive disorders in large clinical studies. Each of the 8 questions is based on a 2-week recall and scored on a scale of 0 to 3 by a tick box as: 0=Not at All, 1=Several Days, 2=More than Half the Days, and 3=Nearly Every Day. A PHQ-8 score is derived by summing the scores for the 8 questions. The total PHQ-8 score ranges from 0-24. Scoring interpretation is as follows:

- 0-4 = no significant depressive symptoms
- 5-9 = mild depressive symptoms
- 10-14 = moderate depressive symptoms
- 15-19 = moderately severe depressive symptoms
- 20-24 = severe depressive symptoms

Response to each individual question is collected in the eCOA system. The total score will be derived in the analysis datasets.

8.2.2.10 electronic Columbia-Suicide Severity Rating Scale (eC-SSRS)

The electronic Columbia-Suicide Severity Rating Scale (eC-SSRS) is a computer-automated, patient-reported version of the C-SSRS instrument that defines 11 categories of suicidal ideation and behavior (SIB) events. Categories and definitions are provided in Appendix 23 of the protocol. The categories are as follows:

- Suicidal ideation
 - 1. Wish to be dead
 - 2. Non-specific active suicidal thoughts

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- 3. Active suicidal ideation with any methods without intent to act
- 4. Active suicidal ideation with some intent to act, without specific plan
- 5. Active suicidal ideation with specific plan and intent
- Suicidal behavior
 - 1. Preparatory acts or behavior
 - 2. Aborted attempt
 - 3. Interrupted attempt
 - 4. Actual attempt (Non-fatal)
 - 5. Completed suicide
- Self-injurious behavior, no suicidal intent

8.3 Missing, Unknown, or Partial Dates

		Stop Date						
		Complete:		Partial: <i>yyyymm</i>		Partial: yyyy		Missing/
		yyyymmdd						Ongoing
		<1 st	≥1 st	<1st dose	≥1st dose	<1st dose	≥1st dose	
Start Date	:	dose	dose	yyyymm	yyyymm	УУУУ	УУУУ	
	= 1st dose		1	n/a	1	n/a	1	1
Partial:	yyyymm	2	'	11/4	'	11/4	'	'
yyyymm	≠ 1 st dose		2	2	2	2	2	2
	yyyymm		_	_	_	_	_	_
	= 1 st dose		1		1	n/a	1	1
Partial:	Partial: <i>yyyy</i>	3		3		11,4		
УУУУ	≠ 1 st dose		3		3	3	3	3
	УУУУ		Ů		Ŭ		Ŭ	Ŭ
Missing		4	1	4	1	4	1	1

- 1 = Impute as the date of first dose
- **2** = Impute as the first of the month
- 3 = Impute as January 1 of the year
- 4 = Impute as January 1 of the stop year

Note: If the start date imputation leads to a start date that is after the stop date, then there is a data error and do not impute the start date.

Imputation rules for partial or missing stop dates:

- 1. Initial imputation
 - a. For partial stop date "mmyyyy", impute the last of the month.
 - b. For partial stop date "yyyy", impute December 31 of the year.
 - c. For completely missing stop date, do not impute.
- 2. If the stop date imputation leads to a stop date that is after the death date, then impute the stop date as the death date.
- 3. If the stop date imputation leads to a stop date that is before the start date, then there is a data error and do not impute the stop date.

Imputation rules for partial or missing death dates:

- 1. If death year and month are available but day is missing:
 - a. If "mmyyyy" for last contact date = "mmyyyy" for death date, set death date to the day after the last contact date.
 - b. If "mmyyyy" for last contact date < "mmyyyy" for death date, set death date to the first day of the death month.
 - c. If "mmyyyy" for last contact date > "mmyyyy" for death date, data error and do not impute.

If both month and day are missing for death date or a death date is totally missing, set death date to the day after the last contact date.

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8.4 Study Periods

Period 1 = Week 0 to Week 16 visit date

Period 2 = Week 16 visit date +1 to Week 24 visit date

Period 3 = Week 24 visit date +1 to Week 52 visit date

Follow-up = 4-week follow-up period

8.5 Day Ranges for Analysis Visits

Below are the day ranges for the analysis visit definitions. If more than one visit occurs within an analysis visit, then the visit that is closest to the target date should be used for analysis.

Period		
Week	Target Day	Day Range
Baseline		Screening, 1
Period 1		
Week 1	8	2, 11
Week 2	15	12, 18
Week 4	29	19, 43
Week 8	57	44, 71
Week 12	85	72, 99
Week 16	113	100, 127 (or Week 16 drug dispense date)
Period 2		
Week 20	141	1 st day after Week 16 drug dispense date, 155
Week 24	169	156, 183 (or Week 24 drug dispense date)
Period 3		
Week 28	197	1 st day after Week 24 drug dispense date, 211
Week 32	225	212, 239
Week 36	253	240, 267
Week 40	281	268, 295
Week 44	309	296, 323
Week 48	337	324, 351
Week 52	365	352, last visit date prior to Safety Follow-up
Safety Follow-up	393	Safety Follow-up visit

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9.0 References

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- Yan X, Lee S, Li N. Missing data handling methods in medical device clinical trials. Journal of Biopharmaceutical Statistics 2009;19:1085-1098.
- Kenward MG, Roger J. Small sample inference for fixed effects from restricted maximum likelihood. Biometrics 1997;53(3):983-997.
- Rubin, DB (1987). Multiple Imputation for Nonresponse in Surveys. New York, J. Wiley & Sons.

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10.0 Document History

Version Number	Version Date	Summary of Changes
1.0 - Original Document	09-Jun-2019	Not applicable
2.0 – Amendment 01	30-Sep-2020	Revisions provided below.

Revisions for Amendment 01: In addition to the revisions specified below, there were some minor typographical and formatting changes made. Additions are noted by bold text. Removals are noted by strikethrough.

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SAP Section	Revised Text	Rationale for Change
2.0 Study Description 2.1 Study Design	Following a screening period of up to 4 weeks, qualified subjects who have completed the screening procedures and have met the inclusion/exclusion criteria will be randomized in a blinded manner in a 2:1:1 ratio via interactive response technology (IRT) to one of the following 3 treatment groups:	Clarified randomization is done is a blinded fashion.
	Dummy tablets (placebo for the BMS-986165 6 mg tablet, placebo for apremilast 30 mg tablet BID, and placebo for apremilast 10 mg, 20 mg, 30 mg during titration) will be administered to the subjects to maintain blinding in a double-dummy fashion. Note that apremilast will not be used as a treatment arm in China.	reference to apremilast in China as this is only applicable to IM011046,
	Week 16 activities The coprimary endpoints, static Physician Global Assessment (sPGA) 0/1 and Psoriasis Area and Severity Index (PASI) 75 will be assessed at Week 16. Subjects receiving placebo will be switched in a blinded manner to BMS-986165 6 mg QD at Week 16. Subjects who are randomized to BMS-986165 6 mg QD or apremilast will continue on their assigned treatment regimen in a blinded manner.	
2.5 Changes in Statistical Considerations from the Protocol	There are no changes in statistical considerations from the protocol at this time. The following is a list of the important changes in the SAP from the Statistical Considerations section in the protocol:	The definition for the Full Analysis Set was modified to include all
	 The hierarchical testing order for the key secondary endpoints has been updated and two separate hierarchies have been provided, one for US 	randomized subjects.

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	submission and one for ex-US submission (see Tables 1 and 2 in Sec. 6.1.3). The hierarchies presented here supersede the one that is in the protocol.	Noted that the relevant deviation list was updated from the list in the
	 Key secondary endpoints were added for the comparison of BMS-986165 to apremilast for sPGA 0/1, PASI 75, and PASI 90 at Week 24. 	protocol. Additional Week 24 endpoints were added.
	 Imputation methods were updated to remove the prohibited medication/therapy criteria for binary and continuous endpoints. 	Imputation methods were
	 The Full Analysis Set was changed from "all subjects who were randomized to receive assigned study treatment" in the protocol to "all subjects who are randomized". 	updated to remove prohibited medication/ therapy criteria.
	 The list of relevant protocol deviations provided in the protocol was updated for determination of the Per Protocol population. 	Hierarchical testing order of key secondary
	 Logistic regression analyses for binary endpoints were removed as these are similar to the CMH analyses. 	endpoints were updated and accounting of regional regulatory needs.
		Removed logistic regression analyses.
3.2 Secondary Objectives	 Assess whether BMS-986165 is superior to apremilast in scalp psoriasis through Week 16 in those subjects who have baseline ss-PGA score ≥3 	Aligned objectives with the most recent protocol
	 Assess whether BMS-986165 is superior to placeboapremilast in nail psoriasis through Week 16 in those subjects who have baseline PGA-F psoriasis score ≥3 	amendment.
4.1.2 Secondary Endpoints	The key secondary efficacy endpoints for BMS-986165 compared to placebo at Week 16 are defined as:	Updated key secondary
4.1.2.1 Key Secondary Endpoints for	PASI 90 response assessed as a proportion of subjects who achieve a 90% improvement from baseline in PASI score	endpoints compared to placebo and re- ordered.
Comparisons to Placebo	 sPGA 0 response assessed as a proportion of subjects with an sPGA score of 0 	
	 Scalp specific Physician's Global Assessment (ss-PGA) 0/1 assessed as a proportion of subjects with a ss-PGA score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline ss-PGA score ≥3 	
	 PSSD symptom score of 0 assessed as a proportion of subjects with a PSSD symptom score of 0 among subjects with a baseline PSSD symptom score ≥1 	

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	 PASI 100 response assessed as a proportion of subjects who achieve a 100% improvement from baseline in PASI score 	
	 Physician Global Assessment-Fingernails (PGA-F) 0/1 assessed as a proportion of subjects with a PGA-F score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline PGA-F score ≥3 	
	 Change from baseline in Psoriasis Symptoms and Signs Diary (PSSD) symptom score 	
	 DLQI 0/1 assessed as a proportion of subjects with a DLQI score of 0 or 1 among subjects with a baseline DLQI score ≥2 (Ex-US submission only) 	
	Palmoplantar Physician's Global Assessment (pp-PGA) 0/1 assessed as a proportion of subjects with a pp-PGA score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline pp-PGA score ≥3	
	An additional key secondary endpoint to assess the maintenance and durability of efficacy of BMS-986165 during the randomized withdrawal period through Week 52 among Week 24 PASI 75 responders compared with re-randomized placebo is defined as:	
	 MediantTime-to-relapse (where relapse is defined as ≥ 50% loss of Week 24 PASI percent improvement from baseline) until Week 52 for Week 24 BMS-986165 PASI 75 responders (Ex-US submission only) 	
4.1.2.2 Key Secondary	The key secondary endpoints for BMS-986165 compared to apremilast at Week 16 are defined as:	Updated key secondary
Endpoints for Comparisons to Apremilast	 sPGA 0/1 response assessed as a proportion of subjects with an sPGA score of 0 or 1 with at least a 2- point improvement from baseline 	endpoints compared to apremilast and re-ordered.
	 PASI 75 response assessed as a proportion of subjects who achieve a 75% improvement from baseline in the PASI score 	Added some clarifying language.
	 PASI 90 response assessed as a proportion of subjects who achieve a 90% improvement from baseline in the PASI score 	
	Change from baseline in PSSD symptom score	
	 ss-PGA 0/1 assessed as a proportion of subjects with a ss-PGA score of 0 or 1 with at least a 2-point improvement from baseline among subjects with a baseline ss-PGA score ≥3 	
	 PASI 100 response assessed as a proportion of subjects who achieve a 100% improvement from baseline in the PASI score 	

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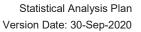
• sPGA 0 response assessed as a proportion of subjects with an sPGA score of 0

 PSSD symptom score of 0 assessed as a proportion of subjects with a PSSD symptom score of 0 among subjects with a baseline PSSD symptom score ≥1

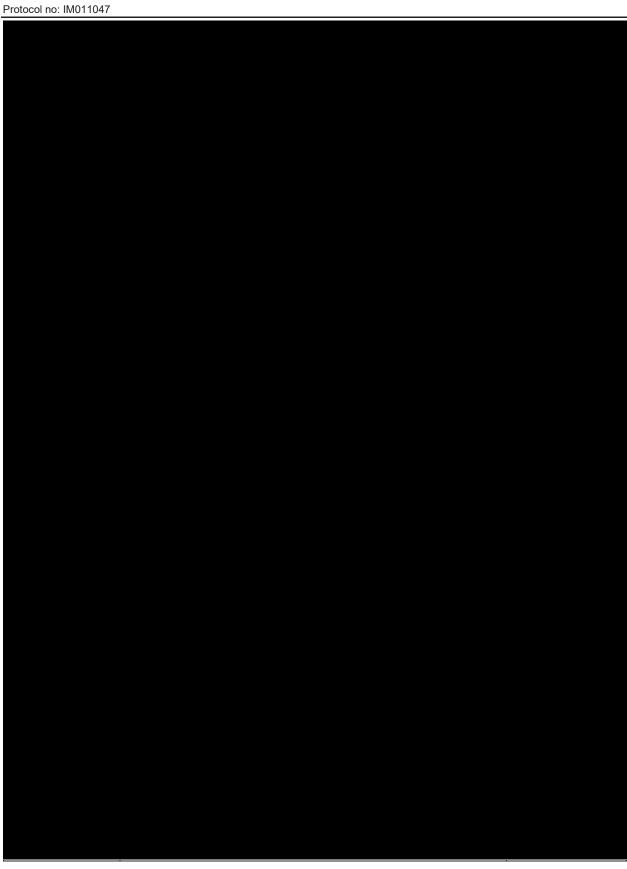
The key secondary endpoints for BMS-986165 compared to apremilast at Week 24 are defined as:

- sPGA 0/1 response assessed as a proportion of subjects with an sPGA score of 0 or 1 with at least a 2-point improvement from baseline at Week 24
- PASI 75 response assessed as a proportion of subjects who achieve a 75% improvement from baseline in the PASI score at Week 24
- PASI 90 response assessed as a proportion of subjects who achieve a 90% improvement from baseline in the PASI score at Week 24

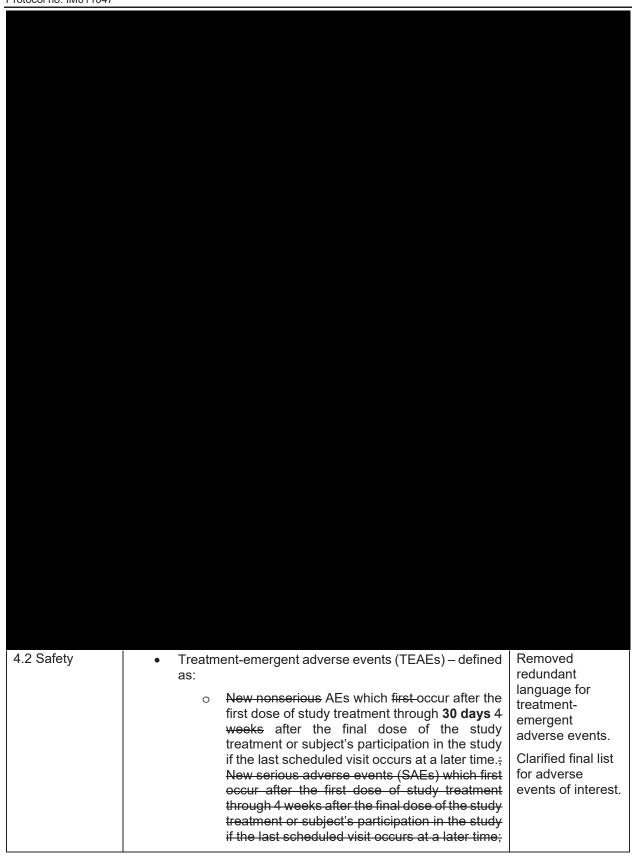
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- SAEs reported prior to first dose of study treatment that increase in severity or frequency after first dose of study treatment through 4 weeks after the final dose of the study treatment or subject's participation in the study if the last scheduled visit occurs at a later time.
- Treatment-emergent adverse events of interest (AEIs) as determined through the Clinical Safety Program (CSP) for the following events:
- Skin-related AEs
- Infection AEs, including influenza
- Creatine kinase (CK) elevation (evaluated as lab toxicity grade 2 or higher)
- Malignancy
- Deaths
- Laboratory abnormalities (as determined by Common Terminology Criteria for Adverse Events [CTCAE v5.0] grading) presented as the worst postbaseline toxicity group
- Shifts from baseline to maximum postbaseline value
- ALT or AST elevation >5 times ULN

≥ 500 **msec**

Males: < 450 msec, ≥ 450 msec Females: < 470 msec, ≥ 470 msec

In cases where the QT interval is corrected using Bazett's (QTcB) formula is captured instead of QTcF, then QTcB will be converted to QTcF for analyses.

- Eight-Item Patient Health Questionnaire (PHQ-8) total score
 - o Absolute and change from baseline values
 - Shifts from baseline scores
 - o PHQ-8 total scores ≥ 15
- Electronic Columbia-Suicide Severity Rating Scale (eC-SSRS)
 - eC-SSRS itemsSuicidal ideation and suicidal behavior responses by visit
 - Shifts from baseline to postbaseline value for suicidal ideation and suicidal behavior

Specified that deaths would be evaluated.

Version number added for CTCAE.

Added missing msec for ECG category, new categories for ECG by males and females, and clarification that QTcB will be converted to QTcF for analysis.Remove d PHQ-8 total scores >=15 as this is provided in the shift table.

Clarified the variables for eC-SSRS to be summarized.

	Worst postbaseline value for suicidal ideation	
	and behavior through Week 16	
	and bond in odgi. Hook 10	
5.0 Populations for Analysis	Full Analysis Set (FAS): All subjects who are randomized subjects who are assigned study treatment. Per Protocol Set (PPS): A subset of the FAS who are compliant with study treatment and who do not have any statistically relevant protocol deviations that may impact the coprimary efficacy endpoint assessments.	The definition for the Full Analysis Set was modified to clarify that the population includes all randomized subjects. Removed "statistically" from relevant deviations in the PPS description to align with standard naming.
5.1 Relevant Protocol Deviations	Relevant protocol deviations are deviations that can have an impact on the primary efficacy endpoints. The impact of relevant protocol deviations on the primary efficacy results will be assessed by excluding subjects from the FAS to define the PPS in supportive analyses of the primary efficacy endpoints. Relevant protocol deviations to be considered regarding exclusion of subjects from the FAS will include the following: • Randomized but did not take any study treatment • No postbaseline PASI or sPGA • Baseline BSA involvement < 10% • Baseline PASI score < 12 • Baseline sPGA < 3 • Did not have non-plaque psoriasis at baseline • Poor compliance to study medication within the first 16 weeks of treatment defined as <8075% compliant with study • Failure to adhere to prohibited concomitant medication restrictions as described below: • Investigational drug or placebo taken outside of the study any time between Day 1 and the Week 16 assessment • Phototherapy within 4 weeks prior to the Week 16 assessment • Biologic medications (eg, adalimumab, etanercept, infliximab, ustekinumab) any time between Day 1 and the Week 16 assessment • Oral psoriasis medications any time between Day 1 and the Week 16 assessment • Oral psoriasis medications any time between Day 1 and the Week 16 assessment • Oral corticosteroids (unless for the treatment of an adverse event) within 4 weeks prior to the Week 16 assessment	Deviations were updated with final categories.

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- Topical medications/treatments that could affect psoriasis evaluations within 2 weeks prior to the Week 16 assessment
- Medicated shampoos within 2 weeks prior to the Week 16 assessment
- Subject overdosed, misused or abused study treatment prior to Week 16
- Actual treatment received is different than randomized treatmentSubject received treatment that was different than intended treatment at any visit prior to Week 16.

All subjects with relevant protocol deviations will be identified prior to database lock and unblinding of treatment assignment with the exception of subjects where actual treatment received is different than randomized treatment which will be determined after treatment unblinding. Relevant protocol deviations will be summarized by treatment group and deviation category for the FAS population.

Additionally, all important protocol deviations, which are deviations that may impact the efficacy and safety of subjects, will be identified prior to database lock and unblinding of treatment assignment. Important protocol deviations will be summarized by treatment group and deviation category for the FAS population.

6.1 Efficacy Analyses

Tests of significance of BMS-986165 6 mg QD vs. placebo for the coprimary endpoints will be two-sided with a significance level of 0.05. Both **coprimary** endpoints need to demonstrate statistical significance to result in a successful study.

The key secondary endpoints will be **tested with a** two-sided with a significance level of 0.025 to compare BMS-986165 6mg QD vs. placebo and vs. apremilast-(equivalent to 0.05 level of significance). A hierarchical **testing** approach will be used in **for** testing of key secondary endpoints (**see Section 6.1.3**)within each comparison branch. Two-sided 95% confidence intervals (CIs) will be provided for all efficacy estimates.

Coprimary and key secondary efficacy endpoints will be displayed graphically by treatment group and visit, as applicable. Binary endpoints will be displayed using bar charts and continuous endpoints will be displayed using line plots. All efficacy endpoints will be summarized descriptively.

The stratified levels are provided below:

- US/PRIOR USE/< 90 KG
- US/PRIOR USE/>=90 KG
- US/NAÏVE/<90 KG
- US/NAÏVE/>=90 KG
- ROW/PRIOR USE/< 90 KG
- ROW/PRIOR USE/>=90 KG

Removed plot description to allow flexibility in data presentation plan.

Clarified the language for testing of secondary endpoints.

Updated the stratification levels to a combination stratification factor to align with IM011046.

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	■ ROW/NAÏVE/<90 KG ■ ROW/NAÏVE/>=90 KG	
6.1.1 Drimer:		Clarified
6.1.1 Primary Endpoints 6.1.1.1 Primary Analysis	Analysis Model A stratified Cochran-Mantel-Haenszel (CMH) test will be used to compare the sPGA 0/1 response rates at Week 16 between BMS-986165 6 mg QD and placebo using the stratification factors from IRT specified in Section 6.1. The following prognostic factors are included in the model: geographic region (U.S. and Rest of World), body weight (<90 kg, ≥90 kg) and prior biologic use (yes/no). The odds ratio (ratio of odds in BMS-986165 6 mg QD group to the odds in the placebo group) and the corresponding 2-sided 95% CIs and p-values will be reported. Additionally, treatment differences in proportions and the 95% CI for the treatment difference will be provided. The common treatment difference in proportion with the confidence interval, common odds ratio with the confidence interval and p-value will be estimated by the Mantel-Haenszel method consistently. A similar analysis will be performed to compare the PASI 75 response rates at Week 16 between BMS-986165 6mg QD and placebo.	Clarified stratification to be used and removed prohibited medication criteria.
	A similar analysis will be performed to compare the PASI 75 response rates at Week 16 between BMS-986165 6mg QD and placebo. Imputation Methodology	
	Non-responder imputation (NRI) will be used for coprimary efficacy endpoints for subjects who:	
	 Discontinue treatment or study prior to Week 16 	
	 Start a protocol prohibited medication/therapy that could improve psoriasis during the first 16 weeks of treatment, or 	
	 Have missing Week 16 endpoint data for any reason 	
	Subjects taking protocol prohibited medications during the first 16 weeks of treatment will be identified prior to database lock and treatment unblinding. NRI will be used as the primary method of imputation for the coprimary efficacy endpoints.	
6.1.1.2 Sensitivity Analyses	As a method to assess the sensitivity of the primary imputation method for the coprimary endpoints, further imputation methods will be used to impute Week 16 data in subjects who: • Discontinue treatment or study prior to Week 16 • Start a protocol prohibited medication/therapy that could improve psoriasis during the first 16 weeks of	Removed prohibited medication criteria. Added some clarification for
	 treatment, or Have missing Week 16 endpoint data for any reason 	the tipping point analysis.
	Tipping Point Analysis	Added a sensitivity
	Tipping point analysis will further be used to assess the robustness of the primary study results. Different number of	analysis for

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events between treatment groups will be assessed until the study conclusion is changed. Each imputed value is initially imputed as a responder. The imputed values in the placebo group will remain as responders while the BMS-986165 imputed values are replaced as a nonresponders one at a time, therefore changing the number of events between groups. Once all imputed values in the BMS-986165 group have been replaced with nonresponders values, the data will reset to where the BMS-986165 group imputed values are all responders and one by one the imputed values in the placebo group are replaced with a nonresponder until all placebo are nonresponders and all BMS-986165 are responders. Furthermore, every pair of imputations between the placebo and BMS-986165 groups will be assessed similarly, creating a matrix of possible patterns.

multiple imputation.

At each iteration, the statistical analysis is assessed, and the direction of the analysis is recorded. A graph will be provided to identify at what point to which the difference in events cause a direction shift in study results. The tipping point analyses will be based on a two-sample chi-square test approach rather than a stratified CMH test approach for simplicity of the analysis.

Multiple Imputation

Multiple imputation (MI) will be used for sensitivity analyses for each of the coprimary efficacy endpoints, PASI 75 response at Week 16 and sPGA 0/1 response at Week 16. Multiple imputation of missing data for PASI 75 response and sPGA 0/1 response will be performed by fully conditional specification (FCS) using PROC MI in SAS with the FCS option. The FCS MI specifies the multivariate imputation model on a variable-by-variable basis by a set of conditional densities. For each missing value at Week X, the FCS MI will generate values from a conditional distribution for the missing data given the other data prior to Week X. The FCS MI model will include treatment group and stratification factors for randomization. A total of 1000 imputed (complete) datasets will be generated for the MI analysis. The same test procedure used for the main analysis (CMH test), will be used to analyze the responder endpoint from each imputed dataset. SAS PROC MIANALYZE will be used to pool the results from the CMH tests and generate an overall result by Rubin's rules (1987).

Additional Analysis

Additionally, a logistic regression model will be used to compare the sPGA 0/1 response rates at Week 16 between BMS-986165 6mg QD and placebo. The prognostic factors will be included in the model as covariates. The estimated odds of response with corresponding 2-sided 95% CIs and p-values will be reported. A similar analysis will be performed on the PASI-75 response rates at Week 16. These analyses will be performed on the FAS.

Removed this analysis since it similar to CMH analysis.

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6.1.1.3

Supportive

Analyses

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6.1.2 Key
Secondary
Endpoints

Analysis Model

Clarified stratification to be used and removed prohibited medication criteria.

6.1.2.1 Binary Endpoints

CMH tests will be used to compare response rates between either BMS-986165 6mg QD and placebo or apremilast using the stratification factors from IRT specified in Section 6.1. The following prognostic factors are included in the model: geographic region (U.S. and Rest of World), body weight (<90 kg, ≥90 kg) and prior biologic use (yes/no). The odds ratio (ratio of odds in BMS-986165 6 mg QD group to the odds in the placebo or apremilast group) and the corresponding 2-sided 95% Cls and p-values will be reported. Additionally, treatment differences in proportions and the 95% Cl for the treatment difference will be provided-from Chi-square tests.

Corrected coprimary to key secondary.

Imputation Methodology for Week 16 Endpoints

Added imputation for Week 24 endpoints.

NRI will be used for coprimary**key secondary** efficacy endpoints for subjects who:

- Discontinue treatment or study prior to Week 16
- Start a protocol prohibited medication/therapy that could improve psoriasis during the first 16 weeks of treatment, or
- Have missing Week 16 endpoint data for any reason

Subjects taking protocol prohibited medications during the first 16 weeks of treatment will be identified prior to database lock and treatment unblinding. NRI will be used as the primary method of imputation for the coprimary efficacy endpoints.

Imputation Methodology for Week 24 Endpoints (for comparison of BMS-986165 6 mg QD to apremilast)

NRI will be used for key secondary efficacy endpoints for subjects who:

- Discontinue treatment or study prior to Week 24
- Have missing Week 24 endpoint data for any reason

Subjects taking protocol prohibited medications will be identified prior to database lock and treatment unblinding.

6.1.2.2 Continuous Endpoints

Analysis Model

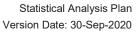
Analysis of covariance (ANCOVA) models will be used to compare the change between BMS-986165 6 mg QD and placebo or between BMS-986165 6 mg QD and apremilast **at** Week 16. Treatment group will be included in the model as well as the **stratification factors from IRT specified in Section** 6.1following baseline prognostic factors: geographic region (U.S. and Rest of World), body weight (<90 kg, ≥90 kg) and prior biologic use (yes/no) and will be considered as fixed effects. The baseline value will be added into the model as a covariate. The adjusted least-squares (LS) means as well as the treatment differences based on LS means and the corresponding 2-sided 95% CIs will be provided for the difference between BMS-986165 6 mg QD and placebo or apremilast.

Clarified stratification to be used and removed prohibited medication criteria.

Added a clarification that subjects with missing baseline values will be excluded from the analysis for change from

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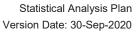
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	Imputation Methodology for Week 16 Endpoints	baseline
	For continuous key secondary endpoints, a modified baseline observation carried forward (mBOCF) approach will be used for missing data. The baseline observation will be carried forward for subjects who discontinue study treatment prior to Week 16 due to:	endpoint.
	Lack of efficacy	
	• AEs	
	Subjects who discontinue study treatment prior to Week 16 for other reasons or who have a missing Week 16 value will have the last valid observation carried forward (including the baseline value as applicable).	
	For subjects who start a protocol prohibited medication/therapy that could improve psoriasis prior to the endpoint will also have their endpoint value imputed as the baseline value. The last valid observation will be carried forward for all other subjects with missing data. Subjects with a missing baseline value will be excluded from the analysis for the change from baseline endpoint.	
6.1.2.3 Time-to- Relapse Endpoint	PASI 75 response will be assessed at each visit between Week 24 and Week 52. Subjects who experience a relapse as defined above at any visit between Week 24 and Week 52 will be considered as having an 'event'. Subjects who discontinue study (or treatment) during this time, start a protocol prohibited medication/therapy that could improve their response or otherwise—have missing data, and subjects that do not have relapse by Week 52 will be censored and the date they experienced the above criteria, will be used as their 'event' date.	Removed prohibited medications criteria. Clarified stratification factors.
	The Kaplan-Meier product limit method will be used to estimate the survival curves for time-to-relapse during the randomized withdrawal period. Treatment comparisons between BMS-986165 6 mg QD and placebo for subjects re-randomized during the randomized withdrawal period will be performed using the log-rank test stratified using the stratification factors from IRT specified in Section 6.1by geographic region (U.S. and Rest of World), body weight (<90 kg, ≥90 kg) and prior biologic use (yes/no).	





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6.1.4 Subgroup Analyses

Subgroup analyses will be performed on the coprimary endpoints using the FAS. The primary imputation method will be applied for these analyses. The CMH test The CMH test **using the stratification factors from IRT** will be the analysis method used where the stratification factor is the specified subgroup will be the analysis method used where the stratification factor is the specified subgroup. The following subgroups will be considered:

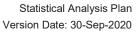
- Geographic region (U.S., Japan, China, Rest of World)
- Country
- Sex (male, female)
- Age group (<65 yearsy, ≥65 yearsy)
- Body weight (<90 kg, ≥90 kg) from case report form
- Race
- Prior biologic use for psoriasis, psoriatic arthritis and other inflammatory diseases only (yes, no) – from case report form
- Prior systemic treatment use (yes/no)
- Prior phototherapy use (yes/no)
- sPGA (3, 4)
- PASI score (≤20, >20)
- BSA involvement (10-20, >20)
- DLQI (0-5, 6-10, 11-30)
- Duration of disease (< 10 y, ≥ 10 y)
- Age at disease onset (<18, 18-39, ≥40)
- Smoking status:

Currently non-smoker – never smoked or quit smoking ≥6 months from the 1st treatment

Currently non-daily smoker or light smoker - smoked on no more than 25 days in the previous 30 days to < 5 cigarettes per day

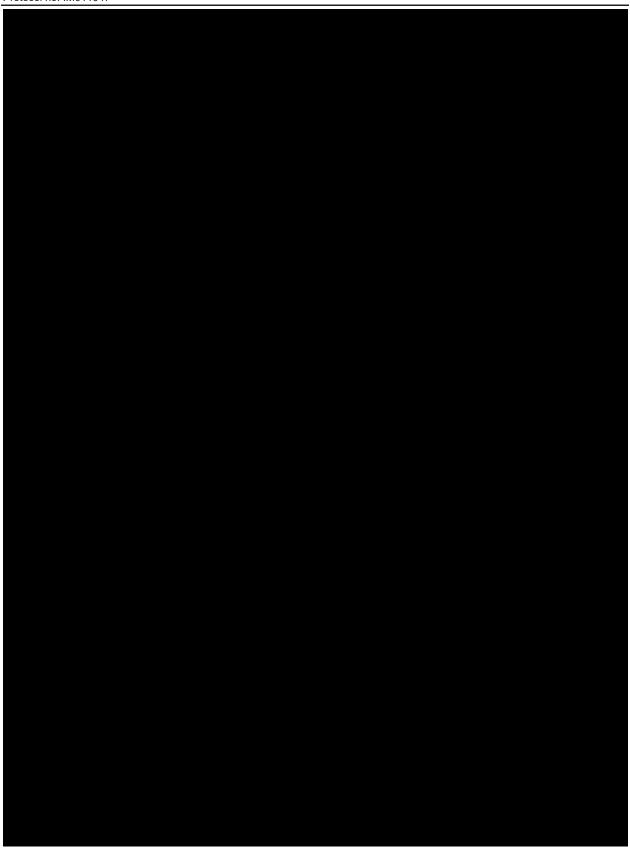
 Currently moderate to heavy smoker — ≥10 cigarettes per day Removed some subgroups that will not be analyzed.

Clarified weight and prior biologic use to be taken from CRF and stratification factors for the CMH statement will use IRT stratification factors.

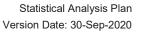


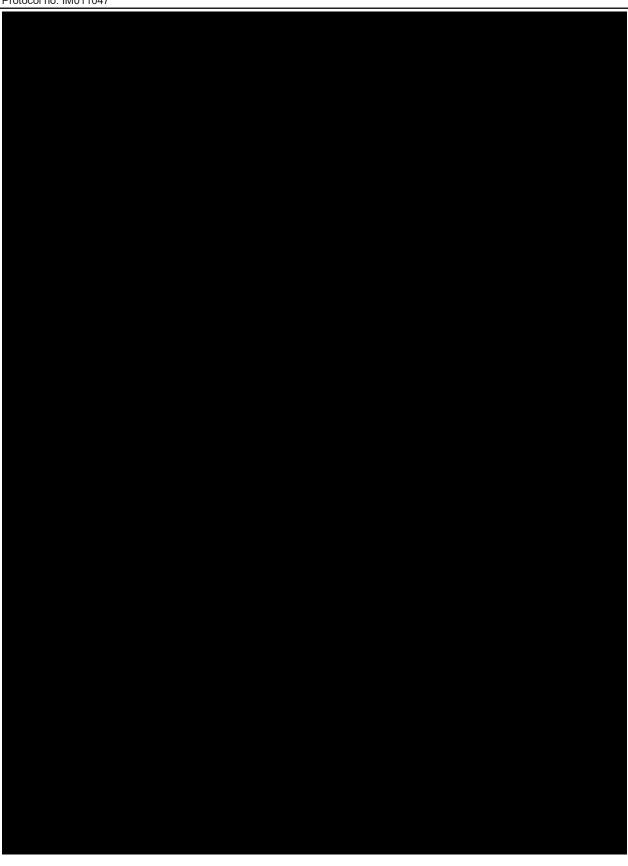


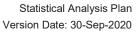
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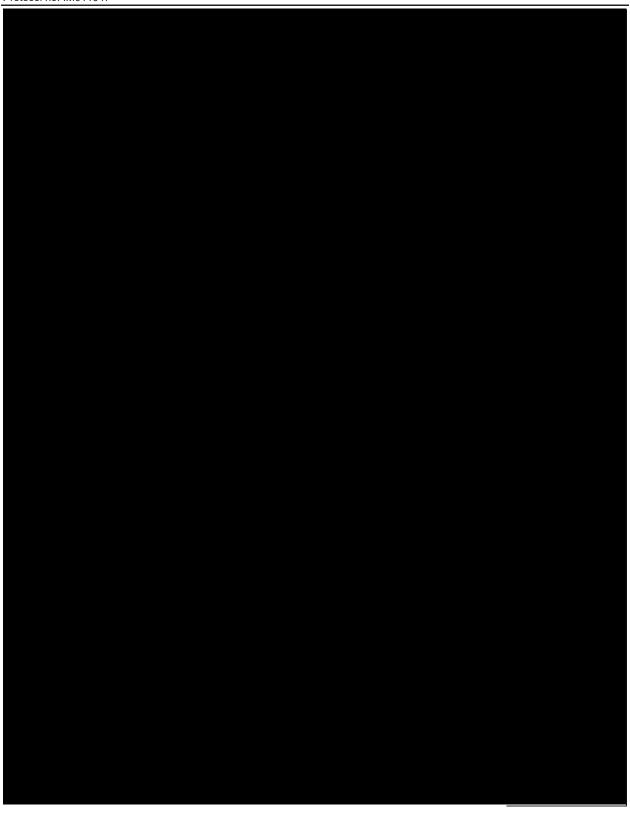








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6.2.1 Adverse Adverse events (AE) will be presented for the number and Modified text for percentage of subjects and the number of events. All adverse **Events** overall summary events (tTreatment-emergent [TEAE] and non-treatment to align with the emergent) will be provided in listings. Summary tables will be data presentation reported in decreasing frequency based on the total BMSplan. **986165** column. Counting for frequency analysis will be by TEAEs leading to subject and not by AEs, and subjects are only counted once discontinuation for recurring AEs within each system organ class (SOC) or was removed preferred term (PT); however, the number of total AEs per from this section subject, including multiple occurrences of individual AEs, will as this is also be presented. For summaries of severity, AEs will be described in a reported only at their maximum severity in each subject. separate section. Subjects with multiple AEs within a particular SOC or PT will be counted under the category of their most severe event within that SOC or PT. An overall summary for the following categories will be presented: Subjects with at least one TEAE Subjects with at least one related TEAE Subjects with at least one treatment-emergent SAE Subjects with at least one related treatment-emergent SAE Subjects discontinuing study treatment due to a TEAE Subjects discontinuing from study due to a TEAE Subjects who died due to an AE Subjects who died due to a TEAE Deaths SAEs **Related SAEs AEs** Related AEs Discontinued treatment due to AEs A summary of TEAEs leading to discontinuation of study treatment or study will be provided, grouped by SOC and PT for all TEAEs and treatment-related TEAEs. 6.2.1.1 Adverse Summaries for treatment-emergent AEIs events will be provided Modified the text for the final list of Events of **by PT** for each AEI categoryfor the following: Interest (AEI) adverse events of TEAEs by SOC and PT and Other interest and the **Important AEs** adjudicated Skin Events

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	The number and percentage of subjects reporting each type of skin event and the corresponding location will be summarized.	cardiovascular events.
	<u>Infections</u>	
	The number and percentage of subjects reporting infections will be summarized.	
	Creatine kinase (CK) elevation	
	The number and percentage of subjects reporting CK elevations will be summarized.	
	<u>Malignancies</u>	
	The number and percentage of subjects reporting malignancies will be summarized.	
	Cardiovascular	
	The number and percentage of subjects reporting cardiovascular event will be summarized.	
	Skin-related events	
	Infection events	
	Malignancy events	
	Creatine kinase (CK) elevation for CK elevation >2.5 upper limit of normal will be summarized as CTCAE grade 2 or higher in the clinical laboratory summaries.	
	Additional information collected for some events as part of the clinical safety program and adjudicated events will also be summarized.	
6.2.1.2 Serious Adverse Events	Summaries for treatment-emergent SAEs will be provided for the following:	Aligned with the Data Presentation Plan
	Treatment-emergent SAEs by SOC and PT	
	Treatment-related treatment-emergent SAEs by SOC and PT	
6.2.1.3 Adverse Events Leading	Summaries for TEAEs leading to discontinuation of study treatment will be provided for the following:	Added summary for TEAEs
to Discontinuation	TEAEs by SOC and PT	leading to study treatment
of Study	 Treatment-related TEAEs by SOC and PT 	interruption and
Treatment or Study Treatment Interruption	Summaries for TEAEs leading to study treatment interruption will be provided for the following:	aligned with the Data Presentation Plan.
	TEAEs by SOC and PT	
6.2.3 Clinical Laboratory Data	Laboratory parameters will be summarized using the International System (SI) of Units, unless otherwise specified and US conventional units. Data will be summarized by time point, as applicable. The following summaries will be provided for each parameter.	Added summaries for US conventional units.
	for each parameter: Absolute and change from baseline values for continuous parameters	Removed urinalysis categorical summaries to

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	Number and percentage of subjects for the following:	align with data presentation
		plan.
	 Maximum postbaseline CTCAE grade for each applicable laboratory parameter through Week 16 	Added additional clarifications to
	 Shifts from baseline based on maximum postbaseline CTCAE grade through Week 16 	align with data presentation
	Drug-induced Liver Injury (DILI) and Hy's Law summaries	plan.
	All laboratory data specified in the summary tables will be present in listings.	
6.2.4 Vital Signs and Physical Findings	Vital signs, including weight , will be summarized by time point, as applicable. The following summaries will be provided for each parameter:	Clarified that weight will be summarized.
6.2.6 Other Safety Data	PHQ-8 total score will be summarized by time point, as applicable. The following summaries will be provided:	Removed PHQ-8 total score >=15
6.2.6.1 PHQ-8	 Absolute and change from baseline values Number and percentage of subjects: Shifts from none, mild, moderate, moderately severe and severe scores at baseline and at each time point 	summaries as this is provided in the shift summary.
	o PHQ-8 total scores ≥ 15	
6.2.6.2 eC- SSRS	Suicidal ideation and behavior individual item responses will be summarized by time point, as applicable. The following summaries will be provided:	Additional analyses have been added for
	 Number and percentage of subjects with positive responses on suicidal ideation and/or suicidal behavior questionsresponses for each question and overall all questions within suicidal ideation and suicidal behavior 	eC-SSRS.
	Shifts from baseline based on maximum postbaseline response through Week 16	
	Worst postbaseline value for suicidal ideation and behavior through Week 16	
6.3.2 Demographic and Baseline Characteristics	Demographic and baseline characteristics will be summarized by treatment group for the FAS all of the analysis populations. Demographic and baseline characteristics include the following:	Updated populations to be used for summaries and
	 Prior systemic treatment use (yes/no) Prior phototherapy use (yes/no) Geographic Regionregion (U.S., Japan, China, Rest of World) DLQI (0-5, 6-10, 11-30) 	removed baseline characteristic that will not be summarized.
	 Smoking status (Current daily smoker and whether heavy vs. light, Current occasional smoker, former 	

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	smoker, never smoker, smoker current status unknown, unknown if ever smoked)	
	Additional demographics or baseline data may be added to summary tables.	
	General medical history and medical history related to PsA will be coded using the Medical Dictionary for Regulatory Activities (MedDRA) (version 21.0 or an updated version at the time of database lock). General medical history data will be summarized for each SOC and PT by treatment group and overall for the FAS and Safety Set populations. Separate tables will be provided for general psoriasis medical history.	
6.3.3 Prior and Concomitant Medications	Prior and concomitant medications will be coded according to World Health Organization-Drug Dictionary WHO-DD (version at the time of DBL) and will be summarized by Anatomic Therapeutic Classification (ATC) and preferred term (PT) by treatment group for the As-treated population FAS. The number and percentage of subjects using at least one medication and each medication will be displayed by treatment group. Subjects taking more than one medication within the same ATC or PT will be counted once.	Clarified summaries to be provided and the population to be used for the summaries.
	Summaries will be provided for prior medications and medications that started prior to first treatment and were ongoing after first treatment start date as well as concomitant medications.	
6.3.3.1 Psoriasis, Psoriatic Arthritis and Other Inflammatory Disease Related Systemic Medications	Prior medications and medications that started prior to first treatment and were ongoing after first treatment start date for systemic biologic and non-biologic medications will be summarized as described above for the number and percentage of subjects using each reported medication. Concomitant use of DMARDs like methotrexate will be summarized.	Added clarification for prior and ongoing medications to be summarized.
6.3.3.2 Concomitant Corticosteroid Use	Additionally, corticosteroids will be summarized by ATC and PT -for the FAS .	Removed reference to analysis population as this is redundant information with Section 6.3.3.
6.3.4 Exposure	Duration by Group	Updates to
6.3.4.1 Duration of Treatment	Overall duration of each treatment, in days, will be calculated for each subject in each treatment group. Subjects are dispensed study treatment at each visit, starting with Day 1 (Week 0) and at each subsequent visit. Subjects are also to record daily dosing in an eDiary. The Day 1 dispensed date will be considered as the date of first dose of study treatment is the Week 0 dosing date and is recorded on the eCRF. If this date is missing, then the earliest drug dispensation date will be used. The last dose date of dose is defined as the last	duration of exposure formula's were made to align with the manner in which data will be summarized.

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day a subject received drug and is recorded on the end of treatment page in the eCRF. If this date is missing, then the latest date from the accountability return date will be used.

If the date of last dose of study treatment is missing, i.e.: subject lost to follow-up, the end of study date or last contact date (whichever comes first) will be used to calculate duration of treatment. Duration of treatment will be summarized descriptively by **randomized** treatment group.

Subjects randomized to BMS-986165 and re-randomized to placebo at Week 24 will have their duration of treatment derived as:

- BMS-986165 (Wk 0 through Wk 24) = Week 24 dateDate of last dose of BMS-986165 prior to first placebo dose date – date of first dose +1
- Placebo (Wk 24 through final week on placebo) = Date
 of last dose of placebo Week 24 datedate of first
 dose of placebo + 1
- BMS-986165 (First dose after relapse on placebo or switched to BMS-986165 due to COVID-19 through Wk 52) = Wk-52 Date of last dose of BMS-986165 first BMS-986165 dose date after relapse + 1; only calculated for subjects that relapse or are switched to BMS-986165 due to COVID-19 placebo
- Total BMS-986165 = Sum BMS-986165 exposure over entire treatment period Wk 0-Wk 24 + BMS-986165 first dose after switch from placebo-Wk 52

<u>Placebo and placebo switches:</u> For subjects randomized to placebo, the Week 16 date will be used as the date of last dose of placebo. Formula for duration is defined as:

- Placebo = date of last dose of placebo Week 16 date
 date of first dose +1
- BMS-986165 = Date of last dose of BMS-986165 Week 16 datedate of first dose of BMS-986165 +1

If a placebo subject discontinues study treatment on or before the Week 16 visit, the date of last dose will be used to calculate the duration of placebo.

Apremilast:

For subjects randomized to apremilast, the Week 24 date will be used as the date of last dose of apremilast and the date of first dose of either apremilast or BMS-986165 (for PASI 75 non-responders on apremilast). Subjects who continue on apremilast from Week 24 through to Week 52 will be counted as a sum of the first 24 weeks of treatment and the next treatment period from Week 24 to Week 52 duration is defined as:

Apremilast (Wk 0 through Wk 24) = Week 24 dateDate
 of last dose of apremilast – date of first dose +1

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	 Apremilast (Wk 24 through Wk 52) = Date of last dose Week 24 date 	
	Total Apremilast = Apremilast Wk 0-24 + apremilast Wk 24-52	
	 Placebo (PASI 75 nonresponders) = Date of last dose of placebo – date of first dose of placebo + 1 	
	BMS-986165 (switched from apremilast or switched from placebo to BMS-986165 after relapse or due to COVID-19) = Date of last dose of BMS-986165 - Week 24 datedate of first dose date of BMS-986165 + 1	
	Placebo = Date of last placebo dose - Week 24 date	
	Total apremilast duration of treatment will be displayed as well as BMS-986165 and placebo treatment duration. If subject discontinues their study treatment during the initial 24 weeks of apremilast treatment, the date of last dose will be used as the duration of apremilast.	
	<u>Duration by Period</u>	
	Overall duration (in days) of each treatment received within each study period will be calculated. Duration within each period is defined for each treatment group as:	
	Last dose date in period – first dose date in period + 1	
	Subjects are dispensed study treatment at each visit, starting with Day 1 (Week 0) and at each subsequent visit. Subjects are also to record daily dosing in an eDiary. The dispensed drug date of Day 1 of the study period will be considered as the date of first dose of study treatment for that period and is recorded on the eCRF. The last date of dose within the period will be considered as the day prior to the next period start date.	
	If the date of last dose of study treatment is missing, i.e.: subject lost to follow-up, the end of study date or last contact date (whichever comes first) will be used to calculate duration of treatment.	
6.3.4.2 Summary of Dosing	The number of doses taken for each subject for each period will be determined using the eCRF drug accountability data and is defined as:	Clarified how data will be summarized.
	Doses Taken $= \frac{(number\ of\ tablets\ dispensed-number\ of\ tablets\ returned)}{3}$	
	The number of doses taken will be summarized descriptively by treatment group within each study period and overall.	
6.3.4.3 Compliance	Treatment compliance will be determined from data captured on the Drug Accountability eCRF.	Clairfied how data will be
	The number and percentage of subjects who have missed at least one dose will be provided.	summarized.
	Additionally, descriptive statistics for the number of missed doses within each treatment period and overall will be provided	

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by treatment group. The number of missed doses for each subject will be calculated for each period.

Number of expected doses: (date of next visit - date of current visit)x3

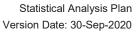
Number of missed doses: Number of expected doses
- number of doses taken

Treatment compliance will be derived for each period—and overall. Compliance is defined as:

$$\left(\frac{Number\ of\ doses\ taken}{Number\ of\ expected\ doses}\right) x 100$$

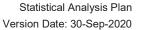
Period compliance will be calculated by summing over all visits within the period and overall compliance will be calculated by summing each visit in the study and summarized using descriptive statistics by treatment group. The number and percentage of subjects with <8075%, 8075% to 1200%, and >1200% compliance will be provided by treatment group for each visit, period and overall. If a subject does not return the container, then this dispensation event will be excluded in the calculation for the total number of doses taken, total number of expected doses, and total compliance.

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6.6 Statistical Statistical Impacts Due to COVID-19 New section Impacts Due to **Impact on Efficacy Endpoints** added to address There are no COVID-19-related impacts to the Week 16 efficacy endpoints as all subjects remaining in the trial COVID-19 COVID-19. completed the Week 16 visit prior to COVID-19 site

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6.61 Impact on Efficacy Endpoints

restrictions. Efficacy endpoints involving Week 24 and later visits may be impacted by COVID-19 in the form of missing data and/or a treatment assignment defaulting to BMS-986165.

Censoring rules will be applied to the PASI 75 time-torelapse endpoint for re-randomized subjects due to the following COVID-19-related issues post Week 24:

- Subject study treatment assignment was defaulted to BMS-986165 because they had a remote safety monitoring visit and efficacy assessments were not performed. The subjects will be censored at the time of the remote visit if relapse had not been observed already;
- Subject has missing visits (ie, efficacy assessments not performed) after Week 24 and assuming relapse was not observed prior to missing visits:
 - If the subject returns at a later visit and is found to have relapsed, midpoint imputation will be used to determine timeto-relapse (ie, midpoint of the censoring interval).
 - If the subject returns at a later visit and has not relapsed, then the subject will continue to be evaluated for relapse.
 - If the subject is discontinued from the study treatment, then the subject will be censored at the time of study treatment discontinuation.

Similar data handling rules will be applied to the following time-to-event endpoints:

- Time to first loss of PASI 75 among subjects that are PASI 75 responders at Week 24
- Time to first loss of sPGA 0/1 among subjects that are sPGA 0/1 responders at Week 24 where loss of sPGA 0/1 is defined as an sPGA score ≥ 2
- Time to rebound as defined above among subjects re-randomized to placebo
- Time-to-relapse for Week 24 PASI 75 apremilast responders switched to placebo

Additional efficacy endpoints involving later visits may be impacted by COVID-19 in the form of missing data and/or a treatment assignment defaulting to BMS-986165. If a subject has missing data or is switched to BMS-986165 from a different treatment due to Covid-19 during the Week 24 through Week 52 period, the subject will be excluded from the analysis.

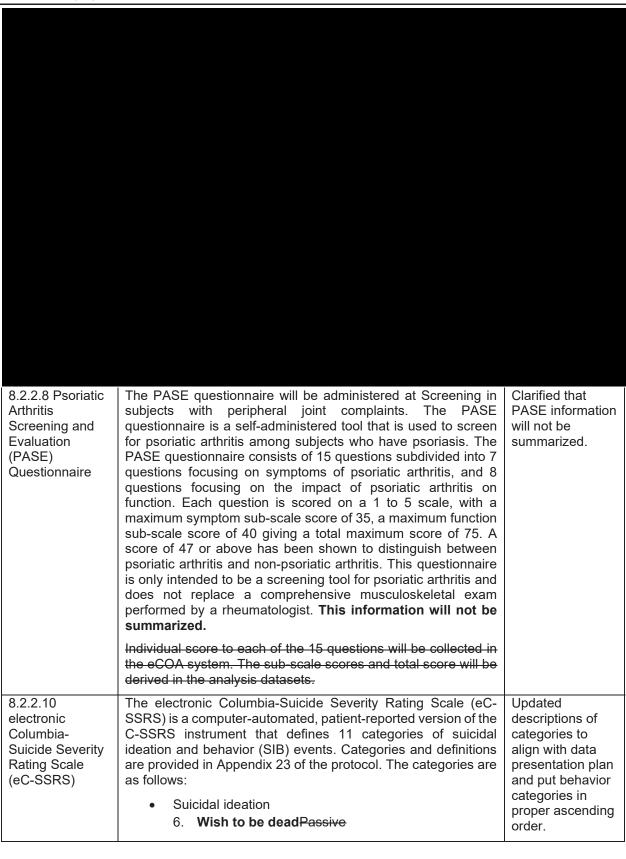
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	Additional efficacy endpoints that may be impacted include the following: • • • Disease relapse assessed as the proportion of subjects who have ≥ 50% loss of Week 24 PASI percent improvement from baseline •	
6.6.2 Impact on	Impact on Safety Endpoints	New section
Safety Endpoints	No modifications will be made for the analysis of safety data due to COVID-19-related issues. There will not be any additional safety data handling considerations for missing data or treatment interruptions due to COVID-19.	added to address COVID-19.
7.2 Sequence of Planned Analyses	Any exploratory analyses completed to support study analyses in the Clinical Study Report (CSR), which were not identified in the statistical analysis plan, will be documented as such in the CSR.	Removed text for exploratory analyses. Added clarification for

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7.2.2 Final Analyses and Reporting	Analyses of the palmoplantar pp-PGA 0/1 endpoint are provided for descriptive purposes within the individual CSR due to small sample sizes. A pooled analysis of data from IM011046 and IM011047 will be conducted for the submission.	the analyses of palmoplantar (pp- PGA 0/1 endpoint).
8.1 General	Study day is calculated as:	Updated first and
Definitions	assessment date – date of first dose the subject is randomized + 1	last dose date definitions and other definitions.
	Baseline - Unless otherwise stated, Baseline is defined as the last—measurement prior to dosing on Day 1 at the randomization visit (Week 0). If the measurement at the randomization visiten Day 1 is missing or not available, then a prior measurement during the screening period may be used as baseline. Baseline assessments must be performed per protocol and standard of care assessments may not be used for baseline.	Added an additional rule for percent change from baseline.
	Baseline for each PSSD question will be calculated as the average value over the 7 days prior to the randomization visit. In the event of missing values in the 7 days prior to the randomization visit, daily scores from at least 4 days out of the 7 days can be used to calculate the average score. If > 3 daily scores in the last 7 days are missing for a particular question, then the baseline value for that question will be missing. If any questions are missing baseline after using the described rule, then the baseline value for the subscore using that question and the baseline value for the total score will be missing.	
	First Dose Date – Study: The date a subject received their first dose on Day 1 as recorded in the eCRF as date study treatment was dispensedWeek 0 dosing date or the earliest drug dispensation date.	
	First Dose Date – Period: The date a subject received their first dose in the defined study period as recorded in the eCRF as date study treatment was dispensedWeek 0 dosing date or the earliest drug dispensation date for Treatment Period 1 and earliest drug dispensation date for Treatment Periods 2 and 3.	
	Change from baseline in the maximum post-baseline value is defined as highest observed value or grade post-baseline. The change is calculated using this value as the post-baseline value.	
	Change in the maximum post-baseline value or change in the worst post-baseline value: Change from baseline in the worst post-baseline value is defined as worst observed value post-baseline. The change is calculated using this value as the post-baseline value.	
	If the baseline value is 0 and the post-baseline is >0, then the percent change from baseline value will be missing.	
	EAIR:	

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	EAIR = 100*The number of subjects with a specific event divided by the total exposure-time (in years) among the subjects in the treatment group, where the total exposure time in years is calculated by dividing the sum of exposure time in days over all subjects included in the treatment group*365.25*(total number of subjects with the AE)/total exposure time for the selected AE under each treatment that a subject is exposed. Where total exposure time for each AE within a treatment is calculated as follows:	
	 If a subject has at least 1 event while on a particular treatment, then the exposure time for that subject and AE on that treatment is: First AE onset date – treatment start date (of that particular treatment) +1 If a subject does not have an event, exposure time for that AE is: Treatment stop date (of that particular treatment) – Treatment start date (of that particular treatment) + 1 + 30 days (if subject discontinued or subject completed Period 3 and is not rolling into IM011075 study) Treatment stop date (of that particular treatment) – Treatment start date (of that particular treatment) + 1 (if subject completed Period 3 and is rolling into IM011075 study) Total exposure time = sum of exposure time for each AE within a treatment 	
8.2.1.3 Body Surface Area (BSA)	The product of BSA and sPGA will be calculated derived as a potential proxy measure to PASI scores.	Updated the product score language.
8.2.2.1 Psoriasis Symptoms and Signs Diary (PSSD)	Baseline for each PSSD question will be calculated as the average value over the 7 days prior to the randomization visit. In the event of missing values in the 7 days prior to the randomization visit, daily scores from at least 4 days out of the 7 days can be used to calculate the average score. If > 3 daily scores in the last 7 days are missing for a particular question, then the baseline value for that question will be missing. If any questions are missing baseline after using the described rule, then the baseline value for the subscore using that question and the baseline value for the total score will be missing.	Clarified baseline definition for PSSD.

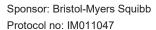


		T
	7. Non-specific active suicidal thoughtsActive:	
	Nonspecific (no method, intent, or plan)	
	8. Active suicidal ideation with any methods	
	without intent to actActive: Method, but no intent	
	er plan 9. Active suicidal ideation with some intent to act.	
	without specific planActive: Method and intent,	
	but no plan	
	10. Active suicidal ideation with specific plan and	
	intentActive: Method, intent, and plan	
	Suicidal behavior	
	6. Preparatory acts or behavior Completed suicide	
	7. Aborted attemptSuicide attempt	
	8. Interrupted attempt	
	9. Actual attempt (Non-fatal)Aborted attempt	
	10. Completed suicidePreparatory actions toward	
	imminent suicidal behaviors	
	Self-injurious behavior, no suicidal intent	
8.4 Study Periods	Period 1 = the first 16 weeks of treatmentWeek 0 to Week 16 visit date	Clarified study periods.
	Period 2 = Week 16 visit date +1 to Week 24 visit date after Week 16 to Week 24	
	Period 3 = Week 24 visit date +1 to Week 52 visit dateafter Week 24	
	Follow-up = 4-week follow-up period	
8.5 Day Ranges for Analysis	Week 16 100, 127 (or Week 16 drug dispense date if earlier)	Clarified Week 16 and Week 24
Visits	Week 24 156, 183 (or Week 24 drug dispense date if earlier)	analysis range criteria

Appendix 1 Planned Analyses

List of Planned Analyses: Co	mparisons of E	BMS-986165 6 mg QD vs. Placebo	
Measure of Interest	Population	Analysis at Week 16	
sPGA 0/1 – coprimary PASI 75 - coprimary	FAS	NRI+CMH - primary	
sPGA 0/1 – coprimary PASI 75 – coprimary	FAS	LOCF+CMH – sensitivity LOCF/NRI+CMH – sensitivity Tipping Point+CMH – sensitivity Multiple Imputation + CMH - sensitivity	
sPGA 0/1 – coprimary PASI 75 – coprimary	PPS	NRI+CMH - supportive	
sPGA 0/1 – coprimary PASI 75 - coprimary	FAS	NRI+CMH – subgroups	
PASI 90 – key secondary	FAS	NRI+CMH	
sPGA 0 – key secondary	FAS	NRI+CMH	
ss-PGA 0/1 among subjects with a baseline ss-PGA ≥ 3 – key secondary	FAS	NRI+CMH	
PSSD symptom score of 0 – key secondary	FAS	NRI+CMH	
DLQI 0/1 – key secondary (EX-US submission only)	FAS	NRI+CMH	
PGA-F 0/1 among subjects with a baseline PGA-F ≥ 3	FAS	NRI+CMH	

List of Planned Analyses: Comparisons of BMS-986165 6 mg QD vs. Apremilast				
Measure of Interest	Population	Primary Analysis at Week 16/24		
sPGA 0/1 at Week 16 – key secondary PASI 75 at Week 16 – key secondary	FAS	NRI+CMH		
PASI 90 at Week 16 – key secondary	FAS	NRI+CMH		
Change from baseline in PSSD symptom score at Week 16 – key secondary	FAS	mBOCF+ANCOVA		
ss-PGA 0/1 among subjects with a baseline ss-PGA ≥ at Week 16 – key secondary	FAS	NRI+CMH		
sPGA 0 at Week 16 – key secondary	FAS	NRI+CMH		
PSSD symptom score of 0 at Week 16 – key secondary	FAS	NRI+CMH		
sPGA 0/1 at Week 24 – key secondary PASI 75 at Week 24 – key secondary	FAS	NRI+CMH		
PASI 90 at Week 24 – key secondary	FAS	NRI+CMH		



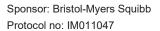
Appendix 2 Summary of Efficacy Assessments

Assessment	Outcome Measure	Endpoint	Comparison	Analyses
sPGA (Sec 8.2.1.1)	sPGA 0/1 with at least 2 point improvement	W16	BMS vs. PBO	CMH, sensitivity analyses including tipping point analysis, multiple imputation (Sec 6.1.1.1-3)
	from baseline		BMS vs. apremilast	CMH (Sec 6.1.2.1)
		W24	BMS vs. apremilast	CMH (Sec 6.1.2.1)
		Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
		Baseline->W24 over time	BMS vs. apremilast	Binary GEE & CMH by Week (Sec 6.1.5.1)
	sPGA 0	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
			BMS vs. apremilast	CMH (Sec 6.1.2.1)
		Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
PASI (Sec 8.2.1.2)	PASI 75	W16	BMS vs. PBO	CMH, sensitivity analyses including tipping point analysis, multiple imputation (Sec 6.1.1.1-3)
			BMS vs. apremilast	CMH (Sec 6.1.2.1)
		W24	BMS vs. apremilast	CMH (Sec 6.1.2.1)

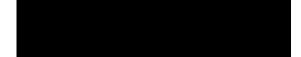


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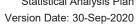
Assessment	Outcome Measure	Endpoint	Comparison	Analyses
		Time-to-first loss of PASI 75 response between W24 and W52	BMS only	Kaplan-Meier (Sec 6.1.5.3)
		Baseline->Week 16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
		Baseline->Week 24 over time	BMS vs. apremilast	Binary GEE & CMH by Week (Sec 6.1.5.1)
	PASI 90	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
			BMS vs. apremilast	CMH (Sec 6.1.2.1)
		Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
		Baseline->W24 over time	BMS vs. apremilast	Binary GEE & CMH by Week (Sec 6.1.5.1)
	PASI 100	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
			BMS vs. apremilast	CMH (Sec 6.1.2.1)
		Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
		Baseline->W16 over time	•	Binary GEE & CMH by Week (Sec 6.1.5



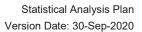
Assessment	Outcome Measure	Endpoint	Comparison	Analyses
ss-PGA	ss-PGA 0/1	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
(Sec 8.2.1.4)	among subjects		BMS vs.	CMH (Sec 6.1.2.1)
	with a baseline ss-PGA ≥3	Deceling MI16 constitute	apremilast	Discoura CEE 0 CMH by Week (Co. (1 F 1)
	SS-PGA 25	Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
PGA-F	PGA-F 0/1	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
(Sec 8.2.1.6)	among subjects	Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
	with a baseline			
	PGA-F score ≥3			

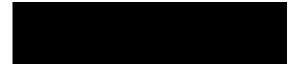


Assessment	Outcome Measure	Endpoint	Comparison	Analyses
pp-PGA	pp-PGA 0/1	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
(Sec 8.2.1.8)	among subjects	Baseline->W16 over time	BMS vs. PBO	CMH by Week (Sec 6.1.5.1)
	with a baseline pp-PGA ≥3			
PSSD /	PSSD/Symptom	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
Symptom	0 among		BMS vs.	CMH (Sec 6.1.2.1)
Score (Sec 8.2.2.1)	subjects with baseline	Baseline->W16 over time	apremilast BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
(500 0.2.2.1)	PSSD/symptom	basefilie->w10 over time	DM3 V3. 1 DO	billary dele & CMII by Week (Sec 0.1.3.1)
	score ≥1			



Assessment	Outcome Measure	Endpoint	Comparison	Analyses
DLQI	DLQI 0/1 among	W16	BMS vs. PBO	CMH (Sec 6.1.2.1)
(Sec 8.2.2.4)	subjects with a	Baseline->W16 over time	BMS vs. PBO	Binary GEE & CMH by Week (Sec 6.1.5.1)
	baseline DLQI score ≥2			





Assessment	Outcome	Endpoint	Comparison	Analyses
	Measure			
DACE	DACE	Constitution		N. A. J.
PASE (Sec	PASE	Screening only		No Analysis
8.2.2.11)				