DISCLOSURE

REDACTED STATISTICAL ANALYSIS PLAN

CC-5013-MCL-002

A PHASE 2, MULTICENTER, RANDOMIZED OPEN-LABEL STUDY TO DETERMINE THE EFFICACY OF LENALIDOMIDE (REVLIMID[®]) VERSUS INVESTIGATOR'S CHOICE IN PATIENTS WITH RELAPSED OR REFRACTORY MANTLE CELL LYMPHOMA

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STATISTICAL ANALYSIS PLAN

A PHASE 2, MULTICENTER, RANDOMIZED OPEN-LABEL STUDY TO DETERMINE THE EFFICACY OF LENALIDOMIDE (REVLIMID[®]) VERSUS INVESTIGATOR'S CHOICE IN PATIENTS WITH RELAPSED OR REFRACTORY MANTLE CELL LYMPHOMA

STUDY DRUG:

Lenalidomide/CC-5013

PROTOCOL NUMBER:

CC-5013-MCL-002

DATE FINAL:

Date Amendment 1

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TABLE OF CONTENTS

SIGNAT	ГURE PAGE	6
1.	LIST OF ABBREVIATIONS	7
2.	SUMMARY OF CHANGES FROM VERSION 1.1	9
3.	INTRODUCTION	12
4.	OBJECTIVES	13
5.	INVESTIGATIONAL PLAN	14
5.1.	Overall Study Design and Plan	14
5.1.1.	Discussion of Study Design	14
5.2.	Study Endpoints	15
5.3.	Stratification, Randomization and Blinding	15
5.4.	Sample Size	16
5.5.	Changes to the Planned Protocol Analysis	17
6.	GENERAL STATISTICAL CONSIDERATIONS	
6.1.	Reporting Conventions	
6.1.1.	Dates and partial dates imputation	18
6.1.2.	Calculations Using Dates	19
6.1.3.	Calculation of Cycles	
6.2.	Analysis Populations	20
6.2.1.	Intent-to-Treat Population	20
6.2.2.	Full Analysis Set Population	20
6.2.3.	Per Protocol Population	20
6.2.4.	As treated Population	
6.2.5.	Safety Population	20
7.	PATIENT DISPOSITION	
8.	DEMOGRAPHICS AND BASELINE CHARACTERISTICS	23
8.1.	Demographics	23
8.2.	Baseline Clinical Characteristics	23
8.3.	Medical History	23
8.4.	Prior Therapy	
8.5.	Prior Medications	

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Celgene International

9.	STUDY TREATMENTS AND EXTENT OF EXPOSURE	25
9.1.	Treatment Duration	25
9.2.	Cumulative Dose	25
9.3.	Dose Intensity	25
9.4.	Relative Dose Intensity	25
9.5.	Dose Modification	26
10.	CONCOMITANT MEDICATIONS	28
11.	EFFICACY ANALYSIS	29
11.1.	General Statistical Methods	29
11.1.1.	Time to event endpoints	29
11.1.2.	Categorical endpoints	30
11.1.3.	Quality of Life endpoints	30
11.2.	Expert Review of Disease Response	30
11.3.	Analysis of Primary Efficacy Endpoint	31
11.4.	Analyses of Secondary Efficacy Endpoints	33
11.4.1.	Overall response rate	33
11.4.2.	Duration of Response	33
11.4.3.	Tumor control rate	34
11.4.4.	Duration of Stable Disease	34
11.4.5.	Time to progression (TTP)	34
11.4.6.	Time to treatment failure (TTF)	34
11.4.7.	Time to tumor response (TTR)	34
11.4.8.	Overall Survival (OS)	34
11.5.	Subgroup Analysis	34
12.	SAFETY ANALYSIS	36
12.1.	Adverse Events	36
12.2.	Clinical Laboratory Evaluations	37
12.3.	Vital Sign Measurements	37
12.4.	Physical Examination	37
12.5.	Electrocardiogram	37
13.	QUALITY OF LIFE ANALYSIS	38
13.1.	EORTC QLQ-C30	38
13.2.	Analysis of Quality of Life Scales	40

Lenalidomide/CC-5013

14		
ı т .	INTERIM ANALYSIS	41
14.1.	General Information	41
14.2.	Statistical Approaches for Control of Alpha	
14.2.1.	Primary analysis	
14.2.2.	Interim analysis	
15.	REFERENCES	43
16.	APPENDICES	44
16.1.	Date Imputation Guideline	44
16.1.1.	Impute Missing AE/ Prior or Concomitant Medications Star	t Dates44
16.2.	Cycle derivation Guideline	
16.3.	Endpoints derivation	
16.4.	Laboratory Values	
16.5.	Tables and listings shells	
	GENEPR	

LIST OF TABLES

Table 1:	Abbreviations and Specialist Terms	7
Table 2:	Confidence Intervals	16
Table 3:	InvC drug recommended dose	26
Table 4:	Censoring Rules for Time to event (Progression and/or Death) Endpoints	31
Table 5:	Method b: Censoring Rules for Time to event (Progression and/or Death) Endpoints sensitivity analysis	32
Table 6:	Method c: Censoring Rules for Time to event (Progression and/or Death) Endpoints sensitivity analysis	
Table 7:	EORTC QLQ-C30 scores	
Table 8:	Response percentage and 95% exact confidence interval	41
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LIST OF ABBREVIATIONS 1.

Table 1: **Abbreviations and Specialist Terms**

Abbreviation or Specialist Term	Explanation	O,
AE	Adverse event	
AML	Acute Myelogenous Leukemia	
BSA	Body surface area	
CI	Confidence Interval	
CR	Complete response	
CRu	Complete response unconfirmed	
CRF	Case report form	
CTCAE	Common Terminology Criteria for Adverse Events	
DMC	Data monitoring committee	
DOB	Date of birth	
ECG	Electrocardiogram	
ЕСНО	Echocardiogram	
ECOG	Eastern Cooperative Oncology Group	
FAS	Full Analysis Set	
GCP	Good Clinical Practice	
HR	Hazard ratio	
IC	Informed consent	
ICH	International Conference on Harmonization	
IEC	Independent Ethics Committee	
InvC	Investigator's choice	
IRRC	Independent radiology review committee	
ITT	Intent-to-treat	
IVRS	Interactive voice response system	
KM	Kaplan Meier	
Len	Lenalidomide	
MCL	Mantle Cell Lymphoma	
MDS	Myelodysplastic syndrome	

Abbreviation or Specialist Term	Explanation
MedDRA	Medical Dictionary for Drug Regulatory Activities
NCI-CTC	National Cancer Institute Common Toxicity Criteria
ORR	Overall response rate
OS	Overall survival
PD	Progressive disease
PFS	Progression-free survival
PI	Principal Investigator The investigator who leads the study conduct at an individual study center. Every study center has a principal investigator.
РР	Per protocol
PR	Partial response
QoL	Quality of Life
SAE	Serious adverse event
SAP	Statistical analysis plan
SCT	Stem Cell Transplant
SD	Stable disease
SDev	Standard deviation
SPM	Second Primary Malignancy
TEAE	Treatment emergent adverse event
TTF	Time to treatment failure
TTP	Time to tumor progression
TTR	Time to response
WHO	World Health Organization
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2. SUMMARY OF CHANGES FROM VERSION 1.1

Section N°	Change	
6.2 Analysis population	Additional analysis population "As treated population " was added as supportive analysis	
	Rational :	
	Additional subgroup analysis to characterize treatment effect in addition to the primary analysis	
11.1 General statistical methods	If any imbalances appear in the demographic or baseline characteristics variables considered as important predictive or prognostic factors to clinical outcomes, the variables will be analyzed as the stratification factors. They will be included as covariates in the Cox model to provide estimate of lenalidomide treatment effect adjusted for these factors and in the stratified log-rank test. <u>Rational</u> : After the meeting held on 18 March 2011, DMC suggested that potential imbalance in some important key baseline characteristics could occur, therefore they need to be taken into account in the statistical analysis.	
11.5 Och energy englasis		
11.5 Subgroup analysis	for the following endpoints PFS, ORR and OS in the following subgroups:	
GV	• Number of prior treatment lines (with description of treatment regimens, including first line treatment and stem cell transplant) (1 vs >1), (<2 vs ≥2), (<3 vs ≥3)	
GV	 Number of relapses (1 vs > 1 relapses), (<2 vs ≥2 relapses), (<3; ;≥3 relapses) 	
	• Any demographic or baseline characteristic considered as important prognostic factors with imbalance in two treatment arms.	

Rational : To accommodate request by DMC (after the meeting held on the 18 March 2011), subgroup analyses will be conducted on important key baseline characteristics presenting an imbalance". Subgroup analyses will be restricted to PFS, ORR and OS	
 Second Primary Malignancy (SPM) will be summarized by frequency and 95% CI for the following categories: Invasive SPM including hematologic malignancies and solid tumor. Hematological malignancies will be subcategorized in B-cell lymphoma, AML, MDS and other Non invasive SPM Time to first SPM will be analyzed using Kaplan Meier methods. Incidence per 100 patient-year will also be calculated. <u>Rational</u> : Celgene has decided to include analysis on SPM to address patients safety, and to address concerns of any potential second primary malignancies from the EMA.	
 14.2.1. Primary analysis The final PFS analysis will be conducted with an alpha level equal to 5% (two sided). Reflecting a medical meaningful improvement, a p-value is above 0.05 and still below 0.10 will be considered as an acceptable trend. 14.2.2 Interim analysis 	
	 <u>Rational</u>: To accommodate request by DMC (after the meeting held on the 18 March 2011), subgroup analyses will be conducted on important key baseline characteristics presenting an imbalance". Subgroup analyses will be restricted to PFS, ORR and OS Second Primary Malignancy (SPM) will be summarized by frequency and 95% CI for the following categories: Invasive SPM including hematologic malignancies and solid tumor. Hematological malignancies will be subcategorized in B-cell lymphoma, AML, MDS and other Non invasive SPM Time to first SPM will be analyzed using Kaplan Meier methods. Incidence per 100 patient-year will also be calculated. Rational : Celgene has decided to include analysis on SPM to address patients safety, and to address concerns of any potential second primary malignancies from the EMA. 14.2.1. Primary analysis The final PFS analysis will be conducted with an alpha level equal to 5% (two sided). Reflecting a medical meaningful improvement, a p-value is above 0.05 and still below 0.10 will be considered as an acceptable trend.

	No formal adjustment is needed. Interim analysis is run only for futility.
	<u>Rational:</u> After the meeting held on 18 March 2011, DMC members suggested that the current sample size may not be adequate to achieve study objectives. At this time there was no plan to increase the sample size due to near completion of enrollment.
16.4 Appendices	Update the conversion factors tables
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3. INTRODUCTION

This statistical analysis plan (SAP) describes the analyses and data presentations for Celgene's protocol CC-5013-MCL-002 "A Phase 2, Multicenter, Randomized Open-Label Study To Determine The Efficacy Of Lenalidomide (REVLIMID[®]) Versus Investigator's Choice In Patients With Relapsed Or Refractory Mantle Cell Lymphoma." It contains definitions of analysis populations, derived variables and statistical methods for the analysis of efficacy and safety.

These analyses include one interim analysis for futility and one final analysis. Throughout this SAP, the treatment arms will be referred to as lenalidomide (Len) and Investigator's choice (InvC). The purpose of the SAP is to ensure the credibility of the study findings by specifying the statistical approaches to the analysis of study data prior to database lock for the final analysis. This SAP will be finalized and signed prior to the clinical database lock for the futility analysis. All statistical analyses detailed in this SAP will be conducted using $SAS^{(R)}$ Version 9.1.

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4. **OBJECTIVES**

The objective of the statistical analyses will be to investigate the efficacy and safety of lenalidomide monotherapy in patients with relapsed or refractory mantle cell lymphoma.

Primary objective

• To compare the progression free survival (PFS) of lenalidomide monotherapy versus investigator's choice single agent in patients with mantle cell lymphoma (MCL) who are refractory to their regimen or have relapsed once, twice or three times.

Secondary objective

- To determine the overall response rate (ORR) of lenalidomide monotherapy or investigator's choice single agent in patients with relapsed or refractory MCL.
- To evaluate the safety of lenalidomide monotherapy or investigator's choice single agent in patients with relapsed or refractory MCL.
- To determine the time to tumor progression (TTP), and overall survival (OS) of patients with relapsed or refractory MCL who have received treatment with lenalidomide or investigator's choice single agent treatment.
- To investigate the health-related quality of life (QoL) of patients treated with lenalidomide or investigator's choice single agent treatment.

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5. INVESTIGATIONAL PLAN

5.1. Overall Study Design and Plan

This is a multicenter, randomized, open-label, comparative, active controlled phase II study to determine the efficacy and safety of single agent lenalidomide over a concurrent control group treated with an investigator's choice monotherapy in patients with MCL who are refractory to their regimen or have relapsed once, twice or three times.

This multicenter study design aims to determine the PFS hazard ratio (HR) of lenalidomide over a single agent of investigator's choice.

The investigator's choice in the control arm comprises the monotherapy treatment with one of the following: chlorambucil, cytarabine, rituximab, fludarabine, or gemcitabine. The investigator shall choose the single agent of choice in the control arm for each patient prior to randomization on to the study. Patients in the investigator's choice arm will have the option to switch to lenalidomide at the time of progressive disease (cross over phase).

Patients will be stratified according to:

- Time since diagnosis (< 3 years or \ge 3 years)
- Time since last treatment (< 6 months [refractory] or \geq 6 months)
- Prior stem cell transplant (yes or no).

This study will be conducted in four phases:

- 1. A Screening Phase
- 2. An open label randomized Treatment Phase
- 3. A cross over phase (patients in the investigator's choice Arm B only)
- 4. Follow-up phase.

5.1.1. Discussion of Study Design

• Duration of Treatment

Patients will be treated until progression in this study.

• Study Population

Patients with MCL who have relapsed once, twice or three times are being assessed to evaluate the efficacy of lenalidomide. There is no standard of care for such patients.

• Blinding

The open-label option was chosen because the five alternatives therapies on the InvC arm are given either IV or orally.

• Cross-over

Due to ethical concerns and based on the fact there is no alternative for patients on the InvC arm who progress the possibility to cross-over to Len is offered. It is clearly a source of bias in the

analysis endpoints such as OS. Cross-over will not affect the primary endpoint (PFS) as it is allowed only after progression occurs.

5.2. Study Endpoints

Following the implementation of Amendment #2 (dated 14 Dec 2009), PFS became the primary endpoint comparing PFS in patients who receive lenalidomide monotherapy versus investigator's choice. Despite the change in the primary endpoint from ORR to PFS, there was no impact on the sample size calculation.

Primary

PFS is defined as the time from randomization to the first observation of disease progression or death due to any cause. If the patient has not progressed or died, PFS will be censored at the time of last completed assessment when the patient was known not to have progressed. Patients who receive a new treatment without documented progression will be censored at the last assessment date that the patient is known to be progression-free.

Secondary

- ORR (complete response [CR], complete response unconfirmed [CRu], and partial response [PR]) will be assessed by a modification of the International Workshop Lymphoma Response Criteria (IWRC), which will hereafter be described as modified IWRC (Cheson,1999).
- Duration of response
- Duration of stable disease
- Tumor control rate (Rates for CR, CRu, PR, and stable disease [SD])
- Time to tumor progression (TTP)
- Time to treatment failure (TTF)
- Time to tumor response (TTR)
- Overall survival (OS)
- Safety
- Quality of Life (EORTC QLQ-C30 questionnaire)

5.3. Stratification, Randomization and Blinding

An Interactive Voice Response System (IVRS) will be utilized to ensure a 2:1 central randomization based on a permuted-block randomization method. Patients will be randomized according to the following stratification factors: Time since diagnosis (< 3 years or \ge 3 years), Time since last treatment (< 6 months [refractory] or \ge 6 months), Prior stem cell transplant (yes or no).

5.4. Sample Size

The main objective of the study changed to demonstrate the efficacy of lenalidomide over a single agent of investigator's choice based on PFS.

The primary analysis for the study is to compare PFS between lenalidomide and investigator's choice monotherapy. For the primary efficacy variable PFS, a hazard ratio (HR) of 1.7 leading to an improvement in median PFS from 2.5 months for the control arm to at least 4.25 months for lenalidomide is considered to be clinically relevant.

These assumptions are supported by recent data published in relapsed refractory MCL (Witzig *et al.* 2007 and Hess *et al.*, 2009).

With a hazard ratio of 1.7, full information necessary for a one-sided log rank test with an overall alpha of 0.025, to have 80% power, will be achieved when approximately 128 patients have progressed or died (PFS).

Initially, the sample size was calculated to estimate the ORR; however, it remains adequate to estimate PFS.

The sample size calculation is based on the width of the 95% confidence interval around a certain point estimate for ORR that is considered significant clinical activity.

Based on preliminary data, a response rate in the range of 30% to 40% can reasonably be expected.

A sample size equal to 100 allows the construction of a two sided 95% confidence interval with a width of 9% (one direction) for an expected proportion of 30%.

The lower observed confidence interval limit would be about 21%, which is still considered to be clinically meaningful.

This sample size allows a width (one direction) of 9.6% for an expected proportion of 40% and 9.3% for an expected proportion of 35% (Table 2).

	95% Two-Sided Confidence Intervals (N = 100)			
Response rate	30%	35%	40%	
CI ^a	0.214 - 0.400	0.257 - 0.452	0.303 - 0.503	

Table 2:Confidence Intervals

a Exact confidence intervals based on the Clopper-Pearson method

Using a one group chi-square ($\chi 2$) test with a 0.050 two-sided significance level a sample size of 100 patients will have 81% power to detect the difference between the Null hypothesis proportion of 20% and the alternative proportion of 32%.

No formal sample size calculation will be done for the control arm. With a 2:1 ratio 50 patients are needed in the control arm.

Assuming that 10% of patients will be lost to follow up, 167 patients will need to be randomized.

FLGEMERROPRIETARY INFORMATION **Changes to the Planned Protocol Analysis** 5.5.

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6. GENERAL STATISTICAL CONSIDERATIONS

6.1. Reporting Conventions

Summary tables, listings, and any supportive SAS output will include a "footer" of explanatory notes that will indicate, at a minimum, the following:

- Program source (e.g., SAS program name, including the path, that generates the output)
- Data extraction date (e.g., the database lock date, run date).
- Source listing(s) for the summary tables

The purpose of the data extraction date is to link the output to a final database, either active or archived, that is write-protected for replication and future reference. An output date will also appear on each output page and will indicate the date the output was generated by the analysis program. Individual source listings will display all the relative values supporting the corresponding tables or figures.

6.1.1. Dates and partial dates imputation

Dates will be stored as numeric variables in the SAS analysis files and reported in DDMMMYYYY format (ie, the Date9. datetime format in SAS) if complete dates are expected, for information (e.g. medical history, prior medications) dates can be reported in the YYYY-MM-DD format. Dates in the clinical database are classified into the categories of procedure dates, log dates, milestone dates, outcome dates, and special dates.

- **Procedure Dates** are the dates on which given protocol-specified procedures are performed. They include the dates of laboratory testing, physical examinations, tumor scans, etc. They should be present whenever data for a protocol-specified procedure is present and should only be missing when a procedure is marked as NOT DONE in the database. Procedure dates will not be imputed.
- Log Dates are dates recorded in case report form (CRF) data logs. Specifically, they are the start and end dates for adverse events and concomitant medications/procedures. They should not be missing unless an event or medication is marked as *ongoing* in the database. Otherwise, incomplete log dates will be imputed according to the rules in Appendix 15.1 (eg, for duration or cycle assignment etc). However, in listings, log dates will be shown as recorded without imputation.
- **Milestone Dates** are dates of protocol milestones such as randomization, study drug start date, study termination, etc. They should not be missing if the milestone occurs for a patient. They will not be imputed.

Outcome Dates are dates corresponding to study endpoints such as survival, progression, etc. In most cases they are derived either from a milestone (eg, the survival date is derived from the death date), or a procedure date (eg, the progression date is derived from the date of the tumor scan that was used to determine progression or from the date of clinical evaluation). They may be subject to endpoint-specific censoring rules if the outcome did not occur, but are not otherwise subject to imputation.

Dates recorded in comment fields will not be imputed or reported in any specific format.

6.1.2. Calculations Using Dates

Calculations using dates (e.g., patient's age or relative day after the first dose of study medication) will adhere to the following conventions:

- Study days after the start day of study drug will be calculated as the difference between the date of interest and the first date of dosing of study medication (eg, lenalidomide) plus 1 day. The generalized calculation algorithm for relative day is as follows: STUDY DAY = [(TARGET DATE – DSTART) + 1] where DSTART = the start day of study drug. Note that Study Day 1 is the first day of treatment of study drug. Negative and zero study days are reflective of observations obtained during the baseline/screening period. Note: in general, a partial date for the first date of study drug intake will not be imputed. All efforts should be made to avoid an incomplete study drug start date.
- Age (expressed in days) is calculated: AGE = CONSENT DATE of BIRTH + 1. In practice, age will be transformed to years by dividing the difference by 365.25 days, then truncating.
 - The calculated age from the clinical database will be used preferentially.
 When not available, it will be permissible to use the calculated age from the CRF or IVRS
 - Partial birth date: impute missing day as 15th of the month; impute missing month as July; set missing age for missing year
- Intervals that are presented in weeks will be transformed from days to weeks by using (without truncation) the following conversion formula:

WEEKS = DAYS / 7.

• Intervals that are presented in months will be transformed from days to months by using (without truncation) the following conversion formula:

MONTHS = DAYS / 30.4167.

6.1.3. Calculation of Cycles

The start date of each treatment cycle will be calculated based on study drug exposure records for each patient. The start date of the first cycle will be the date when the patient receives any study drug.

The cycle will be derived following the algorithm given in Appendix 16.2. Rituximab drug has a cycle length of 56 days, whereas the other treatments have a 28 days schedule. Any programming should be adapted accordingly.

Once the cycles are derived, they can be used to attribute adverse events to a specific cycle based upon the following rules: the start date of the adverse event should be included in a given cycle or if the start date does not fit in any defined cycle, the adverse event will be attributed to the previous cycle if the AE has started within 30 days after the end of the cycle.

6.2. Analysis Populations

The primary efficacy analyses will be performed on the Intent-to-Treat (ITT) population for the primary and secondary endpoints. Sensitivity analyses will be conducted for the primary and secondary endpoints based on the Full Analysis Set (FAS) population.

The safety analyses will be conducted on the Safety population.

6.2.1. Intent-to-Treat Population

The ITT population is defined as all patients who are randomized, independent of whether they received study treatment or not. The ITT population will be used for the primary efficacy analysis.

Patients will be analyzed according to the initial treatment to which they are assigned.

6.2.2. Full Analysis Set Population

The FAS population includes all randomized patients that have received at least one single treatment dose with centrally confirmed histology of MCL as well as documented progression at entry.

6.2.3. Per Protocol Population

No per protocol population will be defined but major protocol violations will be reported.

Major protocol violations will be presented in data listing and summarized by categories in a table. Major protocol violations will be determined by careful medical review of the data prior to database lock and conduct of statistical analyses. Physician and clinical research scientist will be responsible to produce the final protocol violation file (formatted as a Microsoft Excel file) in collaboration with the clinical operation and the data management group. This file will include a description of the protocol violation and clearly identified whether or not this violation is considered as major or not.

6.2.4. As treated Population

The As treated population analysis set is defined as all randomized patients who receive at least two cycles of treatment regardless the treatment arm received.

This population will be used for exploratory analysis only.

5.2.5. Safety Population

The Safety population or "All Treated Patients" analysis set is defined as all randomized patients who receive at least one dose of the study treatment (either lenalidomide or InvC).

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Drug exposure and all safety analyses (including AEs, labs and deaths) will be based on the Safety population. Patients will be analyzed according to the initial treatment actually received.

7. **PATIENT DISPOSITION**

All patients enrolled/randomized will be included in the analyses listed below. Patient disposition will be summarized for the following analysis populations by initial dosing regimen:

- ITT Population
- FAS Population
- Safety Population.

A separate listing will be provided for patients not randomized.

The number of patients who will cross-over will be also displayed.

The primary reasons for **ending study treatment** will be collected on the CRF and will be summarized for all randomized patients using the following categories:

- Adverse events
- Disease progression
- Withdrew consent
- Lost to follow-up
- Death
- Protocol violation
- Other.

The primary reasons for study discontinuation in all randomized patients will also be collected on the CRF and summarized using the categories outlined above.

The number of patients who will enter the follow-up phase with or without progression will be displayed.

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8. DEMOGRAPHICS AND BASELINE CHARACTERISTICS

Summaries for the demographics and baseline characteristics will be summarized for the ITT population. Baseline clinical characteristics are defined as the latest data collected on or before day 1 (or randomization day in case day 1 is missing). When there are retested values, the retest values will be used for the analysis. Individual patient listings will be provided to support the tables.

Baseline characteristics will be summarized for the FAS population if the ITT and FAS populations differ by $\geq 10\%$ in size.

8.1. Demographics

Age, baseline weight, height, and body surface area (BSA) will be summarized descriptively by treatment group. Age is calculated based on the date of birth at the date of informed consent.

Body surface area (BSA) will be calculated, using the formula:

BSA (m²) = ([Height(cm) x Weight(kg)]/ 3600) $\frac{1}{2}$ Mosteller formula

Baseline body mass index (BMI) will be calculated, using the formula:

BMI (kg/m^2) = baseline weight / (height²) with weight expressed in kg and height in m.

The BMI will be summarized, and the frequency counts of the different categories (< 20, 20 to < 25, 25 to < 30, and \ge 30) will be displayed.

Age categories ($< 65, \ge 65$) and race will be summarized with frequency counts.

Baseline ECOG and baseline ECG (normal/abnormal) will be summarized with frequency counts.

8.2. Baseline Clinical Characteristics

Time from initial diagnosis to the first study treatment, and time from the latest disease progression to the first study treatment, will be calculated in months and summarized descriptively.

Histological diagnosis (investigator's assessment and confirmed histology) will be summarized.

8.3. Medical History

A summary of medical history will be presented by MedDRA system organ class (SOC). A similar summary will be generated for the concomitant disease (currently active medical history events).

8.4. **Prior Therapy**

Frequency tabulations of the number of patients with at least one prior therapy and the different types of previous therapies (chemotherapies, immunotherapies, Stem cell transplant (SCT) separating autologus from allogenic if possible, radiation, and so on) will be given.

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8.5. **Prior Medications**

Prior medications are defined as medications that were started before the start of the study treatment (whether or not ended before the start of the study treatment). Prior medications that continue into study treatment period will be also reported as concurrent therapy. Frequency tabulations of the number of patients with at least one prior medication and the different types of prior medications will be provided.

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9. STUDY TREATMENTS AND EXTENT OF EXPOSURE

9.1. Treatment Duration

Duration of treatment is the total number of days on treatment (date of last dose – date of first dose + 1). For patients ongoing in the treatment phase of the study on the cut-off date for the final analysis, the cut-off date will be used as the date of last dose.

The treatment duration (weeks) is defined as:

[(The study treatment end date) – (the first study drug start date) + 1] / 7

Summary statistics will be provided for treatment duration by treatment group.

An additional table will be created for all treated patients, displaying number of patients by cycle and the treatment arm.

Days Dosed is the total number of days study drug was taken, adjusted for any treatment interruptions. Days dosed will be calculated by cycle and overall.

Cycles Dosed is the total number of treatment cycles during which a patient took study drug.

Average Number of Days dosed per cycle is calculated as days dosed (overall) divided by cycles dosed.

9.2. Cumulative Dose

Overall Cumulative dose is the total dose received during the treatment period.

Cumulative dose will be calculated separately for lenalidomide or InvC. The cumulative dose during the treatment is defined as the sum of all doses taken across the treatment period (in milligrams).

Cumulative dose at each cycle is **calculated** as the total dose received up to and including the current cycle.

9.3. Dose Intensity

Dose intensity during the treatment is defined as the cumulative dose divided by treatment duration. Dose intensity will be calculated separately for lenalidomide and for InvC single agents separately.

The dose intensity per cycle is calculated as the overall cumulative dose divided by the number of cycles dosed.

9.4. **Relative Dose Intensity**

Relative dose intensity is the dose intensity divided by the planned dose intensity:

- For lenalidomide the planned dose intensity is 25 mg/per 28 days.
- For InvC single agents:

Investigator's choice	mg/m ²	days	q days	max # cycles
Chlorambucil PO	40 (total monthly dose)	Split over 3-10 days	28	until PD or toxicity
Rituximab IV	375	1, 8, 15, 22	56#	until PD or toxicity
Cytarabine IV	1000 -2000 once or twice per day	1, 2	28	6
Gemcitabine IV	1000	1, 8, 15	28	6
Fludarabine IV	25	1-5	28	6
Fludarabine PO	40	1-5	28	6

Table 3: Invo	C drug	recommended	dose
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IV = intravenous; PD = progressive disease; PO = oral; q = days, repeated; y = years.

Rituximab (single agent) is to be repeated every 56 days after Day 56 (given only on day 1 of every 56 days cycle). For the prevention of cytokine release syndrome associated with the treatment of Rituximab \leq 125 mg of methylprednisolone or equivalent are accepted on C1D1.

Descriptive statistics (n, mean, SD, median, max, min) of treatment duration, cumulative dose, dose intensity and relative dose intensity will be presented by treatment arm.

9.5. Dose Modification

Dose reduction overall is the number and percent of patients with at least one dose reduction during the treatment period. Dose reduction by cycle is the number and percent of patients with only one (patients with one dose reduction) or more than one (number of patients with two or more dose reductions) during a given cycle.

In order for a patient to have two or more dose reductions, study drug must have been reduced for one or more days, followed by another period of one or more days during which study drug dosing was reduced.

Dose interruption overall is the number and percent of patients who interrupted treatment with study drug for one or more days at least once during the treatment period. Dose interruption by cycle is the number and percent of patients with only one (patients with one dose interruption) or more than one (number of patients with two or more dose interruptions) during a given cycle. In order for a patient to have two or more dose interruptions, study drug must have been stopped for one or more days, followed by dosing for one or more days, followed by another period of one or more days during which study drug dosing was stopped.

Time to first dose reduction/interruption for patients with at least one dose reduction/interruption, is the time in days elapsed from the date of first dose of treatment to the date that first dose reduction/interruption occurred.

Interval between dose reduction/interruptions is the time from the start of the first dose reduction/interruption to the start of the second dose reduction/interruption.

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Dose reduction/interruption will be summarized by Intitial dosing regimen group. Summaries include patients who have at least one dose reduction/interruption, time to first dose reduction/interruption. Additional descriptive statistics will include first and second dose reduction/interruption due to AE, duration of first and second dose reduction/interruption due to AE and interval between first and second dose reduction/interruption due to AE.

10. CONCOMITANT MEDICATIONS

Concomitant mediations are defined as non-study medications that are started after the start (start included) but before the end of the study treatment, or started before the start of the study treatment and ended or remain ongoing during the study treatment.

All concomitant treatments documented during the study period will be summarized in frequency tabulations. The Anatomical Therapeutical Chemical (ATC) coding scheme of the World Health Organization (WHO) will be used to group medications into relevant categories for these tabulations.

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11. **EFFICACY ANALYSIS**

All efficacy evaluations will be conducted using the ITT population. Supportive analysis of the primary and key secondary efficacy endpoints using the FAS population will be conducted for the final analysis. Statistical comparisons will be made between lenalidomide and InvC. MATION

11.1. **General Statistical Methods**

Time to event endpoints 11.1.1.

Kaplan-Meier (KM) survival analysis will be performed (unadjusted for the stratification variables). The resulting survival estimates will be presented graphically for selected endpoints. The median, 25th and 75th percentile time-to-event data will be presented with 95% CIs (if they exist) unadjusted by strata and within strata for the primary endpoint only.

The numerical difference (and CI of the difference) in the median, 25th and 75th percentiles between lenalidomide and InvC will be presented for the unstratified analysis.

In addition, the event rates at specific time-points will be computed, along with the standard errors (Greenwood's formula; Klein, 1997), based on which the event rates at specific timepoints can be compared if necessary.

The groups will be compared using the stratified log-rank test in order to assess superiority.

The stratified Cox proportional hazard regression models will be used to estimate the hazard ratios (HR) and associated 95% CIs for the HRs.

If any imbalances appear in the demographic or baseline characteristics variables considered as important predictive or prognostic factors to clinical outcomes, the variables will be analyzed as the stratification factors. They will be included as covariates in the Cox model to provide estimate of lenalidomide treatment effect adjusted for these factors and in the stratified log-rank test.

More detailed methods (for example exploring additional covariates such as age) will be investigated as a robustness check and may also be presented.

Underlying model assumptions will be investigated for the analysis of the PFS endpoint using diagnostic statistics and graphical methods and, if necessary, an alternative analysis technique may be used.

Any changes in methodology will be documented in the clinical study report (CSR), including the rationale for use. The proportional hazards assumption will be assessed by graphical display of the log-log survival distribution function versus the log event time for each treatment group.

The censoring distributions of the treatment groups will be assessed for possible differences using KM methods.

KM curves will be displayed graphically by treatment group. Additionally, reasons for censoring will be summarized (n, percent) for the TTP, PFS, and OS endpoints.

Individual survival time information and mortality data will be provided in patient data listings.

In order to evaluate the effect of cross-over on overall survival a Mantel-Byar approach will be used. The estimation of the control arm without cross-over and the mixed arm (lenalidomide arm and cross-over patients) will be estimated. A weighted log rank test or Wilcoxon test will be used to take into account the effect of cross-over.

Multivariate models will be used to identify those baseline and prognostic factors (eg absolute leukocyte count, time from diagnosis, number of prior therapies and any other variables suggested in the literature prior to the analysis) most predictive of response (<u>Colett, 1991</u>).

11.1.2. Categorical endpoints

Categorical analyses will be based on the Fisher exact test. Sensitivity analyses will be performed using the Cochran-Mantel-Haenszel test with the stratification factors as strata. The p-values will be presented. The null hypothesis is that incidence is equal for both treatment arms, the alternative hypothesis being that incidence is not equal.

The probability of response rates will be estimated using the proportion of patients with responses with exact two-sided 95% confidence intervals.

The response rate in the cross-over portion of patients in Arm B will be analyzed in a descriptive manner.

11.1.3. Quality of Life endpoints

The EORTC QLQ-C30 will be analyzed using change from baseline and percentage of change from baseline according to the functional scores and the recommendations in the EORTC scoring manual. Statistical tests could be performed in an exploratory manner.

The EORTC Reference Data Manual will also be used to descriptively check comparability between patients in our trial and with other comparable populations.

Mann-Whitney tests for simple comparison and longitudinal data modeling techniques (ie Proc mixed in SAS) will be used to analyze QoL scores.

Patients who drop out of the study without being evaluated for QoL will be counted as non-responders. Responses from patients after they receive other anti-cancer treatments will be treated as non responders.

An update of the time to events endpoints and overall survival will be done at the end of the follow up. No adjustment for multiplicity will be applied.

11.2. Expert Review of Disease Response

The independent review committee (IRC) is composed of two external independent radiologists (with an additional radiologist adjudicator in the event of a tie) and a hematologist/oncologist. The IRC will perform a blinded, independent assessment of radiological response (including

assessment of Stable Disease [SD] and Progressive Disease [PD]), as well as reviewing the tumor response data and the dates of disease progression for each patient.

For further details please refer to Central Radiology Manual.

No central review will be performed for the patients who crossed over after progression.

11.3. Analysis of Primary Efficacy Endpoint

PFS is defined as the time from randomization to the first observation of disease progression or death due to any cause. If the patient has not progressed or died, PFS will be censored at the time of last completed assessment when the patient was known not to have progressed. Patients who will receive a new treatment without documented progression will be censored at the last assessment date that the patient is known to be progression-free. These rules are based on FDA guidance for cancer trial endpoints (FDA guidance, 2007).

Situation	Date of Progression or Censoring	Situation Outcome
No baseline assessments	Randomization	Censored
Progression documented	First adequate assessment determined by central review	Progressed
No progression	Date of last adequate assessment with evidence of no progression	Censored
Study discontinuation for reasons other than disease progression or death	Date of last adequate assessment with evidence of no progression	Censored
New anti-lymphoma / non-protocol treatment started prior to progression	Date of last adequate assessment with evidence of no progression prior to the start of new anti-lymphoma treatment	Censored
Death before first PD assessment while on study	Date of death	Progressed
Death between adequate assessment visits	Date of death	Progressed
Progression after an extended lost-to- follow-up time (two or more missed assessments)	Date of last adequate assessment with evidence of no progression	Censored

Table 4: Censoring Rules for Time to event (Progression and/or Death) Endpoints

PD = progressive disease.

See details in Appendix 15.3.

As additional robustness checks of the primary endpoint and censoring definition, the time to event analysis will be repeated for the ITT population using the following modified definitions of PFS:

- Using the investigator assessment instead the IRC central review
- Considering progression or death under a new anti-lymphoma treatment as an event (Table 4)
- Considering Death or progression after an extended lost-to-follow-up time (two or more missed assessments) as an event (Table 5)
- One using the earliest progression date either in investigator set or IRC set.

Table 5:Method b: Censoring Rules for Time to event (Progression and/or Death)
Endpoints sensitivity analysis

Situation	Date of Progression or Censoring	Situation Outcome
No baseline assessments	Randomization	Censored
Progression documented	First adequate assessment determined by central review	Progressed
No progression	Date of last adequate assessment with evidence of no progression	Censored
Study discontinuation for reasons other than disease progression or death	Date of last adequate assessment with evidence of no progression	Censored
New anti-lymphoma / non-protocol treatment started prior to progression	First adequate assessment determined by central review	Progressed
Death before first PD assessment while on study	Date of death	Progressed
Death between adequate assessment visits	Date of death	Progressed
Progression after an extended lost-to- follow-up time (two or more missed assessments)	Date of last adequate assessment with evidence of progression	Progressed

PD = progressive disease.

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Table 6:Method c: Censoring Rules for Time to event (Progression and/or Death)
Endpoints sensitivity analysis

Situation	Date of Progression or Censoring	Outcome
No baseline assessment	Randomization	Censored
Progression documented between scheduled visits	As defined for the main analysis	Progressed
No progression	Date of last visit with adequate assessment	Censored
Investigator claim of clinical progression	Scheduled visit (or next scheduled visit if between visits)	Progressed
Treatment discontinuation for toxicity or other reason	Date of last visit with adequate assessment	Censored
New anticancer treatment started with no claim of progression	Date of last visit with adequate assessment	Censored
Death before first PD assessment	Date of death	Progressed
Death between adequate assessment visits or after patient misses one assessment visit	Date of death	Progressed
Progression after an extended lost-to-follow-up time (two or more missed assessments)	Last visit with adequate assessment	Censored

PD = progressive disease.

11.4. Analyses of Secondary Efficacy Endpoints

The secondary endpoints will be analyzed in an exploratory manner (see details in Appendix 15.3).

11.4.1. Overall response rate

The Overall response rate will include best response of CR, CRu, or PR. The modified IWRC will be used and response assessed by CT scan/MRI every 56 days (\pm 7 days) for the first 6 months and then every 90 days \pm 15 days thereafter.

Patients who discontinue before any post-randomization efficacy assessments will be considered to be non-responders.

11.4.2. Duration of Response

Duration of response will be measured from the time of initial response (at least PR) until documented tumor progression or death. Patients who do not progress at the time of analysis will be censored at the last assessment date that the patient is known to be progression-free. Patients who will receive a new treatment without documented progression will be censored at the last assessment date that the patient is known to be progression-free.

This analysis will be restricted to the subgroup of responding patients.

11.4.3. Tumor control rate

Rates for CR, CRu, PR, and SD.

CR/CRu/PR/SD will be determined using the modified IWRC (Cheson, 1999).

11.4.4. Duration of Stable Disease

SD is defined as less than PR but is not progressive disease or relapsed disease.

Duration of SD will be calculated as the time from the first evidence of SD to documented disease progression or documented response or death. Patients who do not progress or respond at the time of analysis will be censored at the last assessment date that the patient is known to be progression-free. Patients who will receive a new treatment without documented progression will be censored at the last assessment date that the progression-free.

This analysis will be restricted to the subgroup of SD patients.

11.4.5. Time to progression (TTP)

TTP will be defined as the time from randomization until objective tumor progression. TTP will not include deaths. Patients without progression at the time of analysis will be censored at the last assessment date that the patient is known to be progression-free. Patients who will receive a new treatment without documented progression will be censored at the last assessment date that the patient is known to be progression of disease will be considered as an event.

11.4.6. Time to treatment failure (TTF)

TTF is defined as the time from the first dose of study drug to discontinuation of treatment for any reason, including disease progression, treatment toxicity or death. Patients who will be on drug or complete the treatment according to the protocol will be censored at the last date of drug intake.

11.4.7. Time to tumor response (TTR)

This analysis will be restricted to the subgroup of responding patients. Time to tumor response (TTR) will be defined as the time from randomization until initial response (CR, CRu, PR) if it has been confirmed.

11.4.8. Overall Survival (OS)

OS will be defined as the time from randomization until death from any cause. Patients alive or lost to follow up at the time of analysis will be censored at the last date the patient was known to be alive.

11.5. Subgroup Analysis

Subgroup analyses will be conducted in an exploratory manner for the following endpoints PFS, ORR and OS in the following subgroups:

• Time since diagnosis (< 3 years or \ge 3 years)
- Time since last treatment (<6 months [refractory] or \ge 6 months)
- Prior stem cell transplant (yes or no)
- Age and gender
- MCL International Prognostic Index (MIPI) score at initial time of diagnosis
- Number of prior treatment lines (with description of treatment regimens, including first line treatment and stem cell transplant) (1,> 1), (<2;≥2), (<3; ;≥3)
- Ki-67 index (as defined by <u>Determann, 2008</u>) labeling in the original pathology specimen at diagnosis, if available at time or at time of relapse
- Absolute lymphocyte count at baseline ($< 800/\text{mm}^3 \text{ or } \ge 800/\text{mm}^3$)
- Time since last rituximab to cycle 1 day 1 (< 230 days or \ge 230 days)
- Prior regimens received.
- Number of relapses (1 vs > 1), ($< 2 \text{ vs} ;\geq 2 \text{ relapses}$), ($< 3; ;\geq 3 \text{ relapses}$)
- Any demographic or baseline characteristic considered as important prognostic factors with imbalance in two treatment arms.

In addition any other possible prognostic factors may be used as exploratory analyses.

The methods described in previous sections will be used for each subgroup separately.

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12. SAFETY ANALYSIS

The purpose of this section is to define the safety parameters for the study. All summaries of safety data will be conducted using the Safety population.

12.1. Adverse Events

Adverse events (AEs) will be coded according to the Medical Dictionary for Regulatory Activities (MedDRA) version 12.0. The intensity of AEs will be graded according to the National Cancer Institute (NCI) Common Terminology Criteria for Adverse Events (CTCAE) version 3.0 (same as protocol).

Treatment-emergent adverse events (TEAEs) are defined as any AE occurring or worsening on or after the first treatment of the study medication and within 30 days after the last dose. TEAEs, TEAEs leading to study medication discontinuation, TEAEs leading to dose reduction/interruption, TEAEs related to study medication and treatment-emergent serious adverse events (SAEs) will be summarized by system organ class and preferred term for each treatment group. A summary of TEAEs with NCI CTCAE grade 3 or higher and most frequent preferred terms will also be provided.

If a patient experiences the same preferred term multiple times then the patient will be counted only once and by greatest severity.

Listings for the corresponding summary tables will be presented separately.

For the cross-over patients, any adverse events starting after the start of the drug will be assigned to lenalidomide even if the event has started within 30 days after the InvC end date. Additional summary tables will be provided for these TEAEs (cross-over lenalidomide).

Analysis of TEAEs of special interest, time to TEAEs of special interest will be presented. TEAEs of special interest will be defined using standardized MedDRA Queries (SMQs). The SMQ will be selected based on the Risk Management Plan (RMP) and the internal expertise on the drug and the disease.

Second Primary Malignancy (SPM) will be summarized by frequency and 95% CI for the following categories:

- Invasive SPM including hematologic malignancies and solid tumor. Hematological malignancies will be subcategorized in b cell lymphoma, AML, MDS and other
- Non invasive SPM

Time to onset to first SPM will be analyzed using Kaplan Meier methods.

Incidence per 100 patient-year will also be calculated.

12.2. Clinical Laboratory Evaluations

Clinical laboratory values will be graded according to NCI CTCAE version 3.0 for applicable tests (see appendix 15.5 for details on standardization of the laboratory values). Frequency distributions for shift from baseline in severity grade to most extreme post-baseline value will be displayed in cross-tabulations for the whole study period for each treatment. Normal ranges will be used to determine the categories if High, Low, and Normal for lab tests that have no severity grade. Listings of clinical laboratory data with abnormal flags will be provided by patients and tests.

12.3. Vital Sign Measurements

For vital signs, shift from baseline to worst during the treatment in below, within and above the normal ranges will be displayed in cross-tabulations for each treatment. Summary statistics (N, Mean, SDev, Median, Minimum, and Maximum) of observed and change from baseline values will be presented.

12.4. Physical Examination

Shift tables regarding the evolution of the spleen, liver, lymphadenopathy will be displayed by treatment groups.

Presence or absence of lymphoma symptoms will be summarized by visit and treatment groups.

12.5. Electrocardiogram

The overall ECG interpretation will be summarized by presenting the number and percentage of patients with 'Normal', 'Abnormal, not clinically significant', and 'Abnormal, clinically significant' by treatment. Shift from baseline to worst during the treatment in the overall ECG interpretation will be displayed in cross-tabulations for each treatment.

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13. QUALITY OF LIFE ANALYSIS

13.1. <u>EORTC QLQ-C30</u>

QoL instrument: EORTC QLQ-C30 (see attachment 21.9)

The version 3.0 of the EORTC QLQ-C30 is a 30-item scale. The EORTC QLQ-C30 is composed of both multi-item scales and single-item measures. These include five functional scales, three symptom scales, a global health status / QoL scale, and six single items (Table 7).

FUNCTIONAL SCALES (15 QUESTIONS)	SYMPTOM SCALES (7 QUESTIONS)	SINGLE ITEMS (6 QUESTIONS)	GLOBAL QUALITY OF LIFE (2 QUESTIONS)
PHYSICAL (ITEMS 1 TO 5)	FATIGUE	CONSTIPATION	GLOBAL QOL
$(11\mathbf{E}\mathbf{W}\mathbf{IS}\mathbf{I}\mathbf{I}\mathbf{I}\mathbf{O}\mathbf{S})$	(11 ENIS 10, 12, 10)	$(\mathbf{IIEMIIO})$	(11 EMS 29, 50)
ROLE	PAIN	DIARRHEA	
(ITEMS 6, 7)	(ITEMS 9, 19)	(ITEM 17)	
COGNITIVE	NAUSEA /	SLEEP	
(ITEMS 20.25)	VOMITING	(ITEM 11)	
(112012 20,20)	(ITEMS 14, 15)	(1-1-1-)	
EMOTIONAL		DYSPNEA	
(ITEMS 21 TO 24)		(ITEM 8)	
SOCIAL		APPETITE	
(ITEMS 26, 27)		(ITEM 13)	
		FINANCIAL	
		(ITEM 28)	

Table 7:EORTC QLQ-C30 scores

All of the scales and single-item measures range in score from 0 to 100. A higher scale score represents a higher level of well being and better ability of daily functioning. A 10-point change in the scoring is considered to be meaningful change in QoL (Osoba, 1998).

Thus a high score for a functional scale represents a high/healthy level of functioning; a high score for the global health status/QoL represents a high QoL, but a high score for a symptom scale/item represents a high level of symptomatic problems.

Data collection and timing

Questionnaires must be filled out by the patient at 6 pre-specified time points (see below) when the patient comes for a scheduled visit. They will be handed out by a nurse or the treating physician/investigator, and ideally are collected again soon after the patient has filled it out.

RMATION

Patients will be asked to complete the questionnaire as completely and accurate as possible. The average time to complete the questionnaire is around 10to 15 minutes. The reasons for not completing the questionnaire will be recorded.

QoL will be assessed at 6 time points:

- at screening/baseline (within 7 days prior to randomization)
- after cycle 2 (C3D1)
- after cycle 4 (C5D1)
- after cycle 6 (C7D1)
- after cycle 8 (C9D1)
- and at time of discontinuation from treatment.

 $A \pm 7$ days time window will be allowed.

Compliance & Missing data

During the study compliance will be investigated at each time point. The compliance rate will be descriptively compared between the two arms.

In the case that a patient still on study has not filled in the questionnaire, no more than \pm 7 days delay is accepted.

The rate of compliance will be assessed after 40, 80, and 120 patients enrolled.

Missing data will be reported as recommended in the EORTC scoring manual (Fayers, 2002).

Scales scores: if at least 50% of the items have been answered, the scale scores will be calculated according to the standard equations given on the manual (any items with missing values will be ignored). In other cases, scores will be set to missing.

Single-item measures: the score will be set to missing.

Statistical considerations

No calculation in terms of sample size will be performed based on changes in QoL.

In the absence of more specific hypothesis, the global score will be used as the primary QoL outcome and physical functional score and fatigue item will be used as secondary outcomes.

Expectations are that the global score and the physical functional score are improved by lenalidomide. The fatigue item may be worse initially under lenalidomide, but improve in mid and long term in responding patients due to tumor control compared to control arm with shorter response duration

A difference of 10 points between the two arms is considered as clinically significant.

Derivation

For all scales, the Raw Score, RS, is the mean of the component items:

 $RawScore = RS = (I_1 + I_2 + \dots + I_n)/n$

For **functional scales**:

$$Score = \left\{1 - \frac{(RS - 1)}{range}\right\} \times 100$$

For symptom scales / items and Global health status / QoL:

$$Score = \{(RS - 1) / range\} \times 100$$

Range is defined as the difference between the maximum possible value of RS and the minimum possible value, eg, most items are quoted from 1 to 4, the range is equal to 3.

13.2. Analysis of Quality of Life Scales

The EORTC QLQ-C30 will be analyzed using change from baseline and percentage of change from baseline according to the functional scores and the recommendations in the EORTC scoring manual. Statistical tests could be performed in an exploratory manner.

The EORTC Reference Data Manual will also be used to descriptively check comparability between patients in our trial and with other comparable populations.

Mann-Whitney tests for simple comparison and longitudinal data modeling techniques (ie Proc mixed in SAS) will be conducted to analyze QOL scores.

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14. INTERIM ANALYSIS

14.1. General Information

An independent external Data Monitoring Committee (DMC) will review on an ongoing basis safety data throughout the study and efficacy for futility at a pre-defined time point. Specifics are outlined in the DMC charter. Summaries of safety information will be prepared for Data Monitoring Committee (DMC) review. The first safety analysis will occur after the first 40 patients have received at least 2 cycles of treatment or have discontinued prior to completing 2 cycles. The second safety analysis, as well as an efficacy analysis for futility, will occur after 80 patients complete 2 cycles or withdraw before completing 2 cycles. A third safety analysis will occur after 120 patients complete 2 cycles or withdraw before completing 2 cycles.

The futility analysis will be conducted when approximately 80 patients complete 2 cycles or withdraw before completing 2 cycles (around 54 patients in the lenalidomide arm) on investigator and central assessment.

The DMC will conduct an analysis for futility on PFS and ORR. No specific stopping rules will be given to the DMC for the PFS; the following rules might be used for ORR.

Based on a 95%CI approach, if the upper bound is below than 20% in the lenalidomide arm, the DMC should recommend stopping the trial.

FREQUENCY OF RESPONSE	BINOMIAL PROPORTION P	EXACT LOWER CL, BINOMIAL PROPORTION ^A	EXACT UPPER CL, BINOMIAL PROPORTION ^A
1	1.8519	0.04687	9.8915
2	3.7037	0.45173	12.7472
3	5.5556	1.16068	15.3885
4	7.4074	2.05510	17.8933
5	9.2593	3.07528	20.3002
6	11.1111	4.18838	22.6313
7	12.9630	5.37430	24.9012
8	14.8148	6.61976	27.1198
9	16.6667	7.91544	29.2941
10	18.5185	9.25455	31.4297

 Table 8:
 Response percentage and 95% exact confidence interval

CI = confidence interval.

a Exact confidence intervals based on the Clopper-Pearson method.

14.2. Statistical Approaches for Control of Alpha

14.2.1. Primary analysis

The final PFS analysis will be conducted with an alpha level equal to 5% (two sided).

Reflecting a medical meaningful improvement, a p-value is above 0.05 and still below 0.10 will be considered as an acceptable trend.

14.2.2. Interim analysis

No formal adjustment is needed. Interim analysis is run only for futility.

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16. APPENDICES

16.1. Date Imputation Guideline

16.1.1. Impute Missing AE/ Prior or Concomitant Medications Start Dates

Missing day and month

- If the year is **same** as the year of first day on study medication, then the day and month of the start date of study medication will be assigned to the missing fields
- If the year is **prior to** the year of first day on study medication, then December 31 will be assigned to the missing fields.
- If the year is **after** the year of first day on study medication, then January 1 will be assigned to the missing fields.

Missing day only

- If the month and year are **same** as the year and month of first day on study medication, then the start date of study medication will be assigned to the missing day.
- If the month and year are **before** the year and month of first day on study medication, then the last day of the month will be assigned to the missing day.
- If the month and year are **after** the year and month of first day on study medication, then the first day of the month will be assigned to the missing day.
- If the stop date is non-missing and the imputed start date is after the stop date, the start date will be imputed by the stop date.

Missing day, month, and year Included as TEAE

Incomplete Stop Date: If the imputed stop date is before the start date then the imputed stop date will be equal to the start date.

Missing day and month

- If the year of the incomplete stop date is the **same** as the year of the last dose date of study medication, then the day and month of the last dose date will be assigned to the missing fields.
- If the year of the incomplete stop date is **prior to** the year of the last dose date of double-blind study medication, then December 31 will be assigned to the missing fields.
- If the year of the incomplete stop date is **after** the year of the last dose date of study medication, then January 1 will be assigned to the missing fields.

Missing day only

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- If the month and year of the incomplete stop date are the **same** as the month and year of the last dose date of study medication, then the day of the last dose date will be assigned to the missing day.
- If the month and year of the incomplete stop date are **before** the month and year of the last dose date of the study medication, then the last day of the month will be assigned to the missing day.
- If the month and year of the incomplete stop date are **after** the month and year of the last dose date of study medication, then the first day of the month will be assigned to the missing day.

16.2. Cycle derivation Guideline

Subjects on Rituximab treatment have cycles of 56 days in duration past cycle 1. Cycle 2 day 1 will in fact correspond to day 56. Programming need to be adapted accordingly.

eCRF pages completi on	C1D1	C2D1	C3D1	C4D1	C5D1	C6D1	C7D1
days on study	1	28	56	84	112	140	168
Tumor assessme nt			Х	R	x		Х
Rituxim ab cycles	C1D1		C2D1		C3D1		C4D1

45

A cycle is defined as follows:

A new cycle is defined when the delay between the previous drug start date and the current start date is lower or equal to -26. del <=-26 and del=lag1(SDRSTDT)-SDRSTDT;

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If the data do not fulfill the previous condition, a cumulative duration (dur = Σ SDRENDT –SDRSTDT + 1) is calculated (including the previous record) to take into account the fact that several drug modifications could have appeared during one cycle. If the cumulative duration does not exceed 28 days, there is no new cycle.

```
data drugcyl;
set drug_n;
by pt EXSTDT;
retain prevcum cumdur 0;
** Difference between the previous and current record;
del=lag1(EXSTDT)-EXSTDT;
```

```
** Duration for one record;
```

dur=EXENDT -EXSTDT+1;

** Interval between the previous end date and the start of the current cycle;

inter=lag1(EXENDT) -EXSTDT;

```
** Duration of the previous record ;
prevdur=lag1(dur);
```

```
**Initialization of the variable for the first drug record for any new patients;
if first.pt then do;del=.;prevdur=.;prevcum=0;inter=.;cumdur=dur;end;
```

```
** Condition for a new cycle;
if del <=-26 then cycle=1;
if dur>=21 then cycle=1;
if prevdur>=21 then cycle=1;
```

if cycle=1 then if .<del<=-21 then do;cumdur=dur;prevcum=0;end; else do;cumdur=dur;prevcum=0;end; ** If condition not fulfilled, calculation of the cumulative duration including the previous duration; skip:if cycle ne 1 then do; cumdur=cumdur+dur; prevcum=prevcum+del; end;

if cumdur>=28 or prevcum<=-28 then do;cycle=1;</pre>

Lenalidomide/CC-5013 Celgene International Statistical Analysis Plan. Protocol CC-5013-MCL-002 -ORMATIC cumdur=0;prevcum=0; goto skip; end; run; , Alf TARY OPRIFE GENEPR Confidential and Proprietary 47

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16.3. Endpoints derivation

Efficacy evaluation window:

All efficacy assessments will be taken into account if they are occurred after the randomization date

to the end the study, for patients who do not stop study medication and not start other non study anti-cancer therapy;

Best response

Best response is defined as best efficacy benefit response during the "window" for efficacy evaluation.

PFS:

PFS = PFS Ending Date – PFS Starting Date + 1

Starting date: the randomization date

Ending date: the earliest date among the following 4 events during the "window" for efficacy evaluation:

a. Death;

- b. The earlier assessment date for the cycle with overall response is PD or Relapse;
- c. Study discontinue due to Disease progression specified;
- d. Treatment discontinue due to Disease progression specified;

For patients who have more than 1 consecutive missing regular assessments right before the earliest of the four events date and this non-assessed period last more than 118 days (this length is study-dependent), then, the date of last adequate assessment indicating no progression before the date will be used, and the PFS will be censored.

If patients who do not have any of the 4 events listed above, then ending date is defined as the latest CT/MRI date for target or nontarget lesion that indicating no progression, if patients do not have such response, they will be censored at the day after the randomization date. Confidential and Proprietary 48

ATION

Duration of response (DoR)

DoR = Ending Date - Starting Date + 1

Starting date: The date of the first occurrence of CR, CRu or PR during the Window for efficacy evaluation

Ending date: the earliest date among the following 4 events during the "window" for efficacy evaluation:

- a. Death;
- b. The earlier assessment date for the cycle with overall response is PD or Relapse;
- c. Study discontinue due to Disease progression specified;
- d. Treatment discontinue due to Disease progression specified;

For patients who have more than 1 consecutive missing regular assessments right before the earliest of the four events date and this non-assessed period last more than 118 days, then, the last adequate at least PR or better response assessment date before the date will be used, and the DoR will be censored.

If patients who do not have any of the 4 events listed above, then ending date is defined as the latest CT/MRI date for target or nontarget lesion with at least PR or better response after the DoR start date, if patients do not have such response, they will be censored at the day after the 1st response date

16.4. Laboratory Values

The following calculations need to be performed for all patients in treatment arms A and B. The lab values will be standardized using the normal range values collected in the eCRF.

<u>Step 1</u>: Assign an upper (ULN) and lower (LLN) normal range value to each analyte at each visit collected by merging the ranges collected in the datasets labrng. Use the labseq variable to assign the appropriate normal ranges to a value.

If the ranges could not be assigned then use the default SI ranges after the conversion of the value..

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Convert any raw lab values to the unit that corresponds to the normal range values as necessary. These converted (if necessary) or raw (if conversion not needed) lab values and their associated ULN and LLN values will be referred to as the "base" values in the calculations given in Step 2.

Step 2: Convert all base values (lab, ULN, and LLN values) to the standardized units given in Table 1 below. The standardized units are the units associated with the normal ranges to be used for mapping the lab value to a standardized value. Calculations in Step 3 are based on these converted lab and normal range values (referred to as converted values).

Hematology

Test	Normal Conversion		ST Linit	Females		Male	
1651	Range Unit	Factor	ST OWN	Low	High	Low	High
	10^6/uL	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
Red Blood Cell Count (RBC)	10^3/uL	÷1000	10 ¹² /L	3.9	5.2	4.4	5.8
	10^9/L	X 1000	10 ¹² /L	3.9	5.2	4.4	5.8
	10^12/L	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
	k/uL or K/micl	÷ 1000	10 ¹² /L	3.9	5.2	4.4	5.8
	10^6/mm^3 or 10^6mm^3	*1	10 ¹² /L	3.9	5.2	4.4	5.8
	10^6/cumm	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
	10^12/L	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
	M/uL or M/micL	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
	M/mL	÷1000	10 ¹² /L	3.9	5.2	4.4	5.8
Hemoglobin	g/dL	x 0.62058	mmol/liter	7.4	9.9	8.1	11.2

Lenalidomide/CC-5013												
Statistical Analysis	Plan. Protocol CC-5013-	-MCL-002	Celgene Internat	<u>tional</u>								
	g/L	x 0.062058	mmol/liter	7.4	9.9	8.1	11.2					
	mmol/liter	X 1	mmol/liter	7.4	9.9	8.1	11.2					
	mmol/L	X 1	mmol/liter	7.4	9.9	8.1	11.2					
	%	X 0.01	fraction of red blood cells	0.35	0.45	0.39	0.49					
	L/L	X1	fraction of red blood cells	0.35	0.45	0.39	0.49					
	Proportion of 1.0	X 1	fraction of red blood cells	0.35	0.45	0.39	0.49					
		45-64 years										
	%	X 0.01	fraction of red blood cells	0.35	0.47	0.39	0.5					
Hematocrit	L/L	X1	fraction of red blood cells	0.35	0.47	0.39	0.5					
	Proportion of 1.0	X 1	fraction of red blood cells	0.35	0.45	0.39	0.49					
			65-74 years									
	%	X 0.01	fraction of red blood cells	0.35	0.47	0.37	0.51					
	L/L	X1	fraction of red blood cells	0.35	0.47	0.37	0.51					
	Proportion of 1.0	X 1	fraction of red blood cells	0.35	0.45	0.39	0.49					
Districts	10^3/uL	X 1	10 ⁹ /L	130	400	130	400					
Platelets	10^9/L	X 1	10 ⁹ /L	130	400	130	400					

	400
k/uL or k/micL X 1 10 [°] /L 130 400 130	400
cells/mcL ÷ 1000 10 ⁹ /L 130 400 130	400
10^3/mm^3 X1 10 ⁹ /L 130 400 130	400
thous/mm^3 X 1 10 ⁹ /L 130 400 130	400
1000cumm X 1 10 ⁹ /L 130 400 130	400
10^9/L X 2 10 ⁹ /L 130 400 130	400
mm^3 0.001 10°/4 130 400 130	400
k/mL ÷ 1000 10 ⁹ /L 130 400 130	400
10^3/uL X 1 10 ⁹ /L 4.5 11.0 4.5	11.0
10^9/L X 1 10 ⁹ /L 4.5 11.0 4.5	11.0
k/uL or k/micL X1 10 ⁹ /L 4.5 11.0 4.5	11.0
White Blood Cells cells/mcL ÷ 1000 10 ⁹ /L 4.5 11.0 4.5	11.0
10^3/mm^3 X 1 10 ⁹ /L 4.5 11.0 4.5	11.0
thous/mm^3 X 1 10 ⁹ /L 4.5 11.0 4.5	11.0
1000cumm X 1 10 ⁹ /L 4.5 11.0 4.5	11.0

Lenalidomide/CC-5	013 Plan Protocol CC-5013.	-MCI -002	Celgene International				
Statistical 7 marysis	mm^3	0.001	10°4	4.5	11.0	4.5	11.0
	k/mL	÷ 1000	10 ⁹ /L	4.5	11.0	4.5	11.0
	10^3/uL	X 1	10 ⁹ /L	0.0	0.2	0.0	0.2
	10^9/L	X 1	10 ⁹ /L	0.0	0.2	0.0	0.2
Absolute basophils	k/uL <mark>or k/micL</mark>	X 1	10 ⁹ /L	0.0	0.2	0.0	0.2
	cells/mcL	÷ 1000	10 ⁹ /L	0.0	0.2	0.0	0.2
	10^3/mm^3	X 1	10 ⁹ /L	0.0	0.2	0.0	0.2
	thous/mm^3	X 1	10 ⁹ /L	0.0	0.2	0.0	0.2
	1000cumm	X 1	10 ⁹ /L	0.0	0.2	0.0	0.2
	mm^3	0.001	10°/4	0.0	0.2	0.0	0.2
	k/mL	÷ 1000	10 ⁹ /L	0.0	0.2	0.0	0.2
	10^3/uL	X 1	10 ⁹ /L	0.0	0.44	0.0	0.44
	10^9/L	X 1	10 ⁹ /L	0.0	0.44	0.0	0.44
Absolute	k/uL or k/micL	X 1	10 ⁹ /L	0.0	0.44	0.0	0.44
eosinophils	cells/mcL	÷1000	10 ⁹ /L	0.0	0.44	0.0	0.44
	10^3/mm^3	X 1	10 ⁹ /L	0.0	0.44	0.0	0.44
	thous/mm^3	X 1	10 ⁹ /L	0.0	0.44	0.0	0.44

Lenalidomide/CC-5013									
Statistical Analysis	Plan. Protocol CC-5013-	-MCL-002	Celgene Internat	<u>tional</u>					
	1000cumm	X 1	10 ⁹ /L	0.0	0.44	0.0	0.44		
	mm^3	0.001	10°/L	0.0	0.44	0.0	0. 44		
	k/mL	÷ 1000	10 ⁹ /L	0.0	0.44	0.0	0.44		
	10^3/uL	X 1	10 ⁹ /L	1	4.8	1	4.8		
	10^9/L	X 1	10 ⁹ /L	1	4.8	1	4.8		
	k/uL <mark>or k/micL</mark>	X 1	10 ⁹ /L	1	4.8	1	4.8		
	cells/mcL	÷1000	10 ⁹ /L	1	4.8	1	4.8		
Absolute	10^3/mm^3	X 1	10 ⁹ /L	1	4.8	1	4.8		
lymphocytes	thous/mm^3	X 1	10 ⁹ /L	1	4.8	1	4.8		
	1000cumm	X 1	10 ⁹ /L	1	4.8	1	4.8		
	mm^3	0.001	10°/L	4	4 .8	ŧ	4 .8		
	k/mL	÷ 1000	10 ⁹ /L	1	4.8	1	4.8		
	10^3/uL	X 1	10 ⁹ /L	0	0.8	0	0.8		
	10^9/L	X 1	10 ⁹ /L	0	0.8	0	0.8		
monocytes	k/uL <mark>or k/micL</mark>	X 1	10 ⁹ /L	0	0.8	0	0.8		
	cells/mcL	÷ 1000	10 ⁹ /L	0	0.8	0	0.8		
	10^3/mm^3	X 1	10 ⁹ /L	0	0.8	0	0.8		

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Celgene International 10⁹/L 0 0.8 0.8 thous/mm^3 X 1 0 10⁹/L 0 1000cumm Χ1 0 0.8 0.8 10⁹/L 0.8 mm^3 0.001 0 θ 0.8 0 10⁹/L k/mL 0.8 0 ÷1000 0.8 10⁹/L 10^3/uL X 1 7 7 1.8 1.8 10^9/L Χ1 10⁹/L 1.8 7 1.8 7 10⁹/L k/uL or k/micL Χ1 1.8 7 1.8 7 10⁹/L cells/mcL ÷1000 7 7 1.8 1.8 10⁹/L 10^3/mm^3 Χ1 1.8 7 1.8 7 Absolute neutrophils thous/mm^3 10⁹/L Χ1 1.8 1.8 7 7 $10^{9}/L$ 1000cumm 7 7 X 1 1.8 1.8 10⁹/L mm^3 0.001 1.8 7 1.8 7 k/mL ÷1000 10⁹/L 7 1.8 7 1.8 μm^3 fl X 1.00 78 102 78 100 MCV fl X 1.00 fl 78 102 78 100

Chemistry

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Celgene International								
<u>Chemistry</u>						MAT		
Test	Normal	Conversion	ST Unit	Fem	ales	2 Ma	ale	
1651	Range Unit	Factor		Low	High	Low	High	
Sodium	mmol/L	X 1.00	mmol/liter	135	145	135	145	
Soaium	mEq/L	X 1.0	mmol/liter	135	145	135	145	
Potassium	mmol/L	X 1.00	mmol/liter	3.5	5.1	3.5	5.1	
rotassium	mEq/L	X 1.0	mmol/liter	3.5	5.1	3.5	5.1	
Chloride	mmol/L	X 1.00	mmol/L	95	108	95	108	
chiorac	mEq/L	X 1.0	mmol/L	95	108	95	108	
	mg/dL	X 88.4	umol/liter	53	97	62	105	
Creatining	mg/L	X 8.84	umol/liter	53	97	62	105	
Creatinine	mmol/L	X 1085.409	umol/liter	53	97	62	105	
	umol/L	X 1	umol/liter	53	97	62	105	
Glucose	mg/dL	x 0.05551	mmol/liter	3.9	6.1	3.9	6.1	

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Celgene International								
	mmol/L	X 1	mmol/liter	3.9	6.1	3.9	6.1	
	g/L	x 5.551	mmol/liter	3.9	6.1	3.9	6.1	
	g/dL	X 55.51	mmol/liter	3.9	6.1	3.9	6.1	
	mg/dL	x 0.357	mmol/liter	2.9	8.9	2.9	8.9	
BUN	g/L	x 35.7	mmol/liter	2.9	8.9	2.9	8.9	
	mmol/L	1	mmol/liter	2.9	8.9	2.9	8.9	
	g/dL	x 10	g/liter	31	43	31	43	
Albumin	g/L	1	g/liter	31	43	31	43	
Albumin	g/%	X 10	g/liter	31	43	31	43	
	mg/dL	X 0.01	g/liter	31	43	31	43	
	mg/dL	x 0.25	mmol/liter	2.1	2.6	2.1	2.6	
Colsium (comm)	mg/L	x 0.025	mmol/liter	2.1	2.6	2.1	2.6	
Calcium (serum)	mEq/l	0.5	mmol/liter	2.1	2.6	2.1	2.6	
	mmol/L	X 1	mmol/liter	2.1	2.6	2.1	2.6	
Phosphorus	mg/dL	X 0.323	mmol/L	0.81	1.45	0.81	1.45	
Filosphorus	mg/L	x 0.0323	mmol/L	0.81	1.45	0.81	1.45	

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Celgene International							
	mmol/L	1	mmol/L	0.81	1.45	0.81	1.45
	units/L	X0.01667	ukat/L	0.50	2.00	0.50	2.00
	U/L	X0.01667	ukat/L	0.50	2.00	0.50	2.00
Alkaline Phosphatase	IU/L	X0.01667	ukat/L	0.50	2.00	0.50	2.00
	mU/ml or mU/mL	X0.01667	ukat/L	0.50	2.00	0.50	2.00
	ukat/L	X 1	ukat/L	0.50	2.00	0.50	2.00
	units/L	X0.01667	ukat/L	0.17	0.68	0.17	0.68
ALT (SGPT)	U/L	X0.01667	ukat/L	0.17	0.68	0.17	0.68
	IU/L	X0.01667	ukat/L	0.17	0.68	0.17	0.68
	mU/ml or mU/mL	X0.01667	ukat/L	0.17	0.68	0.17	0.68
	ukat/L	X 1	ukat/L	0.17	0.68	0.17	0.68
	units/L	X0.01667	ukat/L	0.17	0.51	0.17	0.51
	U/L	X0.01667	ukat/L	0.17	0.51	0.17	0.51
AST (SGOT)	IU/L	X0.01667	ukat/L	0.17	0.51	0.17	0.51
	mU/ml or mU/mL	X0.01667	ukat/L	0.17	0.51	0.17	0.51
	ukat/L	X 1	ukat/L	0.17	0.51	0.17	0.51
	mg/dL	x 17.1	umol/liter	0	17	0	17
Total Bilirubin	mg/L	x 1.71	umol/liter	0	17	0	17
	umol/L or mkmol/L	X 1	umol/liter	0	17	0	17

Lenalidomide/CC-5013 Statistical Analysis Plan Protocol CC-5013-MCL-002 Celgene International									
Statistical Tilling	g/dL	X17100	umol/liter	0	17	0	17		
		12-60 years							
	units/L	X0.01667	ukat/L	1.8	3.4	1.8	3.4		
	U/L	X0.01667	ukat/L	1.8	3.4	1.8	3.4		
	ukat/L	x1	ukat/L	1.8	3.4	1.8	3.4		
	mU/ml or mU/mL	X0.01667	ukat/L	1.8	3.4	1.8	3.4		
Lactate	IU/L	X0.01667	ukat/L	1.8	3.4	1.8	3.4		
Dehydrogenase (LDH)	> 60 years								
(2011)	units/L	X0.01667	ukat/L	1.8	3.5	1.8	3.5		
	U/L	X0.01667	ukat/L	1.8	3.5	1.8	3.5		
	ukat/L	x1	ukat/L	1.8	3.5	1.8	3.5		
	mU/ml or mU/mL	X0.01667	ukat/L	1.8	3.5	1.8	3.5		
	IU/L	X0.01667	ukat/L	1.8	3.5	1.8	3.5		
Total protain	g/dL	X 10	g/liter	64	83	64	83		
rotal protein	g/L	X 1	g/liter	64	83	64	83		
			18	-60 years					
	umol/L or mkmol/L	÷ 1000	mmol/L	0.13	0.39	0.26	0.45		
Uric acid	mg/L	x 0.00595	mmol/L	0.13	0.39	0.26	0.45		
	mmol/L	1	mmol/L	0.13	0.39	0.26	0.45		
	mg/dL	X 0.0595	mmol/L	0.13	0.39	0.26	0.45		
			>	60 years					

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Celgene International umol/L or mkmol/L ÷ 1000 mmol/L 0.2 0.43 0.25 mg/L x 0.00595 mmol/L 0.2 0.43 0.25								
	umol/L or mkmol/L	÷1000	mmol/L	0.2	0.43	0.25	0.47	
	mg/L	x 0.00595	mmol/L	0.2	0.43	0.25	0.47	
	mmol/L	1	mmol/L	0.2	0.43	0.25	0.47	
	mg/dL	X 0.0595	mmol/L	0.2	0.43	0.25	0.47	
<u>TSH</u>					, JFO			

<u>TSH</u>

Test	Normal	Conversion	SI Unit	Fem	ales	Ma	ale
	Range Unit	Factor		Low	High	Low 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32	High
	uU/mL	X 1	mU/L	0.32	5	0.32	5
	uU/L	÷ 1000	mU/L	0.32	5	0.32	5
	mU/L	X 1	mU/L	0.32	5	0.32	5
тѕн	mIU/L	X 1	mU/L	0.32	5	0.32	5
	MIU/mL	X 1	mU/L	0.32	5	0.32	5
	uUI/ML or μUI/ML or microUI/ML	X 1	mU/L	0.32	5	0.32	5
	mME/L		mU/L	0.32	5	0.32	5
	MU/ML	X 1	mU/L	0.32	5	0.32	5

Lenalidomide/(CC-5013	5012 MCI 002		Calgana Inta	rnational		
Statistical Alla	MCU/ml	X1	mU/L	0.32	5	0.32	5
	mIE/L	X1	mU/L	0.32	5	0.32	5
	UIU/mL	X 1	mU/L	0.32	5	0.32	5
	ng/dL	X 15.4	pmol/L	4.0	7.4	4.0	7.4
	ng/L	X 1.54	pmol/L	4.0	7.4	4.0	7.4
Eroo T2	nmol/L	X 1000	pmol/L	4.0	7.4	4.0	7.4
FIEE 15	pg/mL	X1.54	pmol/L	4.0	7.4	4.0	7.4
	pg/dL	X 0.0154	pmol/L	4.0	7.4	4.0	7.4
	pmol/L	X 1	pmol/L	4.0	7.4	4.0	7.4
	ug/dL	X 12870	pmol/L	10.3	23.0	10.3	23.0
	nmol/L	X 1000	pmol/L	10.3	23.0	10.3	23.0
Free T4	pg/mL	X 1.287	pmol/L	10.3	23.0	10.3	23.0
Fiee 14	ng/dL	X 12.87	pmol/L	10.3	23.0	10.3	23.0
	ng/L	X 1.287	pmol/L	10.3	23.0	10.3	23.0
	pmol/L	X 1	pmol/L	10.3	ne International25 0.32 25 0.32 25 0.32 25 0.32 27.4 4.0 07.4 4.0 07.4 4.0 07.4 4.0 07.4 4.0 07.4 4.0 07.4 4.0 07.4 4.0 107.4 4.0 107.4 4.0 1110.310.31223.0 10.3 1323.0 10.3 1323.0 10.3 1423.0 10.3	23.0	

Step 3: Determine, for each (converted) lab value, if it is within the (converted) normal range and assign a flag indicating where the value falls relative to the upper and lower limits of normal (eg, low (below lower limit normal), normal, or high (above upper limit normal).

Step 4: Determine p, the value to be used for mapping the converted lab value to a standardized value as follows:

a) If the converted lab value is within converted normal range then

p = (lab value – LLN value) / (ULN value – LLN value)

b) If the converted lab value is less than converted LLN then

p = lab value / LLN value

c) If the converted lab value is greater than converted ULN then

p = lab value / ULN value

Step 5: Use the value of p calculated in Step 4 and the standardized ULN and LLN values

62

a) If the converted lab value is within normal range then

Lenalidomide/CC-5013 <u>Statistical Analysis Plan. Protocol CC-5013-MCL-002</u> SLV = p(sULN value – sLLN value) + sLLN

b) If the converted lab value is less than LLN then

SLV = p(sLLN value)

c) If the converted lab value is greater than ULN then

SLV = p(sULN value)

Step 6: Use the SLV and the sLLN and sULN to assign the NCI-CTC grade and for summary statistics in all tables.

Example calculations for standardizing lab values to the standard normal ranges

Patient X at CxD1 visit:

SGPT = 22 UI/L

Step 1: normal range

LLN = 7 UI/L

ULN = 40 UI/L

Step 2:

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63

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2MATH

Lenalidomide/CC-5013 <u>Statistical Analysis Plan. Protocol CC-5013-MCL-002</u> Since the conversion factor for converting UI/L to U/L is 1.0, the converted values associated with unit=U/L remain the same as the original values.

converted SGPT = 22 U/L converted LLN = 7 U/L converted ULN = 40 U/L

Step 3:

Value of 22 U/L is within the normal range.

Normal range flag = N

Step 4: Calculate p for 22 U/L based on formula a):

p = (lab value - LLN value) / (ULN value - LLN value)

= (22 - 7) / (40 - 7)

= 15 / 33

= 0.45

Step 5: Calculate SLV for p = 0.45 and sLLN = 6 U/L and sULN = 35 U/L. SLV = p(sULN value - sLLN value) + sLLN

$$= 0.45(35 - 6) + 6$$

= 19.2 U/L

Lenalidomide/CC-5013 <u>Statistical Analysis Plan. Protocol CC-5013-MCL-002</u> Step 6: NCI-CTC grade = 0, since the value is within normal limits.

16.5. Tables and listings shells

The presented shells are not exhaustive.

Non efficacy Tables

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OPRIFIAR

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 **Celgene International** Celgene Corporation Page xx of xx Protocol: DB (Interim) Lock Date: Table 14.1.1 Subject Disposition Treatment A Total Treatment B n (%)[a] n (%)[a] n (%)[a] Analysis Populations Safety [b] XX (XX) XX (XX) xx (xx Intent-to-treat (ITT)[c] xx (xx) xx (xx) xx (xx) Subjects discontinued from study XX (XX) XX (XX) XX (XX) Primary reason for discontinuation from the study Adverse event XX (XX) XX (XX) XX (XX) Lack of therapeutic effect/PD XX (XX) XX (XX) XX (XX) Subject withdrew consent XX (XX) XX (XX) XX (XX) Subject lost to follow-up XX (XX) XX (XX) XX (XX) Death xx (xx) XX (XX) XX (XX) Protocol violation XX (XX) XX (XX) XX (XX) Other XX (XX) XX (XX) XX (XX) Total number of subjects who completed study xx (xx) XX (XX) XX (XX) [a] Percents are based on the safety population. [b] Define the safety population. [c] Define the ITT population. Order of appearance of treatment groups: Lowest dose of Celgene drug to Highest dose, active control and placebo. Bolded sections are optional. Program path: Data source: DISPO

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Page xx of xx DB (Interim) Lock Date:

Table 14.1.2 Demographic and Baseline Characteristics - (Safety Population)

	Musset a	Decostruct D	0
	(N=XX)	(N=XX)	(N=XX)
			Θ .
e (years)			
n	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median	XX	XX	XX
Min, Max	XX, XX	XX, XX	XX, XX
e category	n (%)	n (%)	n (%)
<65	xx (xx)	xx (xx)	xx (xx)
>=65	xx (xx)	xx (xx)	xx (xx)
Missing	xx (xx)	xx (xx)	xx (xx)
x	n (%)	n (%)	n (%)
Male	XX (XX)	XX (XX)	XX (XX)
Female	XX (XX)	XX (XX)	XX (XX)
Missing	xx (xx)	XX (XX)	XX (XX)
ce [a]	n (%)	n (%)	n (%)
White	XX (XX)	XX (XX)	XX (XX)
Black	XX (XX)	XX (XX)	XX (XX)
Asian/Pacific Islander	XX (XX)	XX (XX)	XX (XX)
Other	XX (XX)	XX (XX)	XX (XX)
Missing	XX (XX)	XX (XX)	XX (XX)
/I (units)[b]			
N	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median	XX	XX	XX
Min, Max	xx, xx	XX, XX	XX, XX

[b]

Order of appearance of treatment groups: Lowest dose of Celgene drug to Highest dose, active control and placebo. Bolded sections are optional. Program path: Data source: DEMO

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Celgene Corporation Protocol:

Page xx of xx DB (Interim) Lock Date:

Table 14.1.3 Medical History - Number (%) of Subjects by Treatment Group - (Safety Population)

	Treatment A	Treatment B	Total
	(N=XX)	(N=XX)	(N=XX)
System organ class/Preferred term [a]	n (%)	n (%)	n (%)[b]
Metabolism and nutrition disorders	XX (XX)	XX (XX)	XX (XX)
Haemochromatosis	XX (XX)	XX (XX)	XX (XX)
Diabetes mellitus NOS	XX (XX)	XX (XX)	XX (XX)
Hyperlipidaemia NOS	XX (XX)	XX (XX)	XX (XX)
Hypercholesterolaemia	XX (XX)	XX (XX)	XX (XX)
Diabetes mellitus non-insulin-dependent	XX (XX)	XX (XX)	XX (XX)
Hyperuricaemia	XX (XX)	XX (XX)	XX (XX)
Gout	xx (xx)	XX (XX)	XX (XX)
Haemosiderosis	xx (xx)	XX (XX)	XX (XX)
Hypokalaemia	XX (XX)	XX (XX)	XX (XX)
Glucose tolerance impaired	XX (XX)	XX (XX)	XX (XX)
Hyperglycaemia NOS	XX (XX)	XX (XX)	XX (XX)
Hypertriglyceridaemia	XX (XX)	XX (XX)	XX (XX)
Hyponatraemia	XX (XX)	XX (XX)	XX (XX)
Lactose intolerance	XX (XX)	XX (XX)	XX (XX)
Obesity	XX (XX)	XX (XX)	XX (XX)
Vitamin Bl2 deficiency	XX (XX)	XX (XX)	XX (XX)
Anorexia	XX (XX)	XX (XX)	XX (XX)
Appetite decreased NOS	XX (XX)	XX (XX)	XX (XX)
Dehydration	XX (XX)	XX (XX)	XX (XX)
Dyslipidaemia	XX (XX)	XX (XX)	XX (XX)
Fluid retention	XX (XX)	XX (XX)	XX (XX)
Hyperkalaemia	XX (XX)	XX (XX)	XX (XX)
Hyperproteinaemia	XX (XX)	XX (XX)	XX (XX)
Hypoalbuminaemia	XX (XX)	XX (XX)	XX (XX)
Hypomagnesaemia	XX (XX)	XX (XX)	XX (XX)
Impaired fasting glucose	XX (XX)	XX (XX)	XX (XX)
Metabolic acidosis NOS	XX (XX)	XX (XX)	XX (XX)

[a] Medical History terms are coded using the MedDRA dictionary (*indicate the version of the dictionary used*). System organ classes and preferred terms are listed in (*specify order of appearance, e.g., alphabetical*). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group. Order of appearance of treatment groups: Lowest dose of Celgene drug to Highest dose, active control and placebo.

Program path:

Data source: MEDHIST

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Page xx of xx DB (Interim) Lock Date:

Celgene Corporation Protocol:

Table 14.1.4 Prior Medications - Number (%) of Subjects by Treatment Group (Safety Population)

	Treatme	ent A	Treatmen	t В То	tal
TC3 Classification/	(N=XX))	(N=XX)	(N=X))
Preferred Name[a]	n	(%)	n (%	n	(%)
ubjects with at least one prior medication	XX	(XX)	XX (X	K) X2	(XX
LATELET AGGREGATION INHIBITORS EXCL. HEPARIN	XX	(xx)	xx (x:	x) xx	(xx)
ACETYLSALICYLIC ACID	XX	(XX)	XX (X	<) x2	(XX
CLOPIDOGREL SULFATE	XX	(XX)	XX (X	<) X2	(XX
ASPIRINE	XX	(XX)	XX (X	<) X2	(XX
ANAGRELIDE	XX	(XX)	XX (X	x) X2	(XX
CLOPIDOGREL	XX	(XX)	XX (X	<) X2	(XX
AGGRENOX	XX	(XX)	×x (x:	<) X2	(XX
ASA	XX	(xx)	×x (x:	<) x>	(xx
ASPIRIN PROTECT	XX	(xx)	XX (X	x) xx	(XX
RON CHELATING AGENTS	XX	(xx)	XX (X	<) x2	(XX
DEFEROXAMINE	XX	(xx)	XX (X	<) xx	(xx
DEFEROXAMINE MESILATE	XX	(XX)	XX (X	<) x2	(xx
DEFERIPRONE	XX	(xx)	XX (X	x) xx	(xx
DESFERAL	XX	(xx)	XX (X	x) x2	(XX
THER PLAIN VITAMIN PREPARATIONS	XX	(xx)	xx (x:	<) x2	(XX
VITAMIN E	XX	(XX)	XX (X	<) x2	(XX
PYRIDOXINE	XX	(XX)	XX (X	x) xx	(xx
VITAMIN B	XX	(xx)	xx (x	x) X2	(xx
TOCOPHEROL	XX	(xx)	xx (x	x) xx	(xx
VITAMIN B6	XX	(xx)	xx (x	() X2	(xx
OPTOVIT	XX	(xx)	XX (X	x) x2	(xx)
ROTON PUMP INHIBITORS	XX	(XX)	XX (X	<) x2	(xx
OMEPRAZOLE	XX	(xx)	xx (x	x) xx	(xx
PANTOPRAZOLE	XX	(xx)	xx (x	() XX	(xx
ESOMEPRAZOLE	××	(xx)	xx (x	() X3	(xx
LANSOPRAZOLE	 ××	(XX)	xx (x	<) x>	(xx
ACTPHEX	***	(xx)	xx (x	<) x3	(xx
PREVACID	***	(xx)	xx (x	<) x3	(xx
		()		-, 11	(xx
N P. X I U M	X X	1 X X I	X X X X		

[a] ATC3 classification and preferred name are based on WHODD (coding dictionary) (indicate the version of the dictionary used).
Program path:
Data source: CONMEDS

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Page xx of xx DB (Interim) Lock Date:

Celgene Corporation Protocol:

	Т	able	e 14.1.5					
Concomitant Medications - Num	nber (%)	of	Subjects	by	Treatment	Group	(Safety	Population)

					V	
	Treatme	nt A	Treat	nent B	Tot	al
ATC3 Classification/	(N=XX)		(N=XX		(N=XX)
Preferred Name[a]	n	(%)	n	(%)	n	(%)
)		
Subjects with at least one concomitant medication	XX	(XX)	XX	(XX)	XX	(xx)
ANILIDES	XX	(XX)	XX	(XX)	XX	(xx)
ACETAMINOPHEN	XX	(XX)	XX	(XX)	XX	(xx)
TYLENOL	XX	(XX)	XX	(XX)	XX	(xx)
PARACETAMOL	XX	(XX)	XX	(XX)	XX	(XX)
ACETAMINOPHEN W/HYDROCODONE BITARTRATE	XX	(XX)	XX	(XX)	XX	(XX)
NYQUIL	XX	(XX)	XX	(XX)	XX	(XX)
EXCEDRIN /USA/	XX	(xx)	XX	(XX)	XX	(XX)
GALENIC /ACETYLSAL.ACID/CAFFEINE/PARACET	XX	(xx)	XX	(XX)	XX	(XX)
VICODIN	XX 🕻	(xx)	XX	(XX)	XX	(XX)
ACETAMINOPHEN W/OXYCODONE	XX	(xx)	XX	(XX)	XX	(xx)
GOODYS POWDERS	xx	(xx)	XX	(XX)	XX	(xx)
HYDROCODONE W/ACETAMINOPHEN	XX	(XX)	XX	(XX)	XX	(XX)
THOMAPYRIN	XX	(XX)	XX	(XX)	XX	(XX)
TYLENOL ALLERGY SINUS	XX	(XX)	XX	(XX)	XX	(XX)
VICKS DAYQUIL	XX	(XX)	XX	(XX)	XX	(XX)
FLUOROOUINOLONES	XX	(XX)	XX	(XX)	XX	(XX)
CIPROFLOXACIN	XX	(xx)	XX	(XX)	XX	(XX)
LEVOFLOXACIN	XX	(xx)	XX	(XX)	XX	(xx)
LEVAOUIN	XX	(xx)	XX	(XX)	XX	(XX)
GATIFLOXACIN	××	(xx)	XX	(XX)	XX	(xx)
MOXIFLOXACIN	XX	(XX)	XX	(XX)	XX	(XX)
TAVANIC	XX	(xx)	XX	(xx)	XX	(xx)
TEOUIN	XX	(xx)	XX	(xx)	XX	(xx)
AVALOX	 ××	(xx)	XX	(xx)	XX	(xx)
NORFLOXACIN	XX	(xx)	XX	(xx)	XX	(xx)
AMINOALKYL ETHERS	XX	(XX)	XX	(XX)	XX	(XX)
DIPHENHYDRAMINE	XX	(XX)	XX	(XX)	XX	(XX)
DIPHENHYDRAMINE HYDROCHLORIDE	XX	(XX)	XX	(xx)	XX	(XX)
TAVEGIL	XX	(XX)	XX	(XX)	XX	(xx)
DIMENHYDRINATE	XX	(xx)	XX	(XX)	XX	(xx)
VERTIGO-VOMEX	XX	(xx)	XX	(XX)	XX	(xx)
\sim						

[a] ATC3 classification and preferred name are based on WHODD (coding dictionary) (indicate version of the dictionary used).
Program path:
Data source: CONMEDS
Celgene International

Table 14.2.1

Duration of Exposure by Cycle - Safety Population Number (%) of Patients Treatment A Treatment B Treatment C Exposure by Cycle Category N= XX N=XX N=XX n(%) n(%) n(%) Cycles 1 or more XX (XX) XX (XX) XX (XX) XX (XX) Cycles 2 or more XX (XX) XX (XX) Cycles 3 or more XX (XX) XX (XX) XX (XX) Cycles 4 or more XX (XX) XX (XX) XX (XX) Cycles 5 or more XX (XX) XX (XX) XX (XX) Cycles 6 or more XX (XX) XX (XX) XX (XX) Cycles 12 or more XX (XX) XX (XX) XX (XX) XX (XX) Cycles 24 or more XX (XX) XX (XX) Cycles 30 or more XX (XX) XX (XX) XX (XX) Duration of Exposure by Cycle: Duration of the start of the cycle. Program path: Data source: SDR D SDSUMM ENE Confidential and Proprietary 71

Celgene International

Celgene Corporation Protocol:

Treatment A Treatment B Treatment C (N=XX) (N=XX) (N=XX) Total Duration (days) [a] n ΧХ XX XX Mean XX ΧХ XX SD ΧХ XX XX Median XX XX XX Min, Max xx, xx xx, xx xx, xx Daily dose (Units) n XX XX XX Mean XX XX XX SD XX XX XX Median XX XX XX Min, Max XX, XX, XX XX, XX X Total completed cycles [a] xx n xx xx Mean xx xx xx SD xx xx xx Median xx xx xх Min, Max xx, xx xx, xx XX, XX Average durations of cycles (days) n xx xх xx Mean xx xx xx SD xx xx xx Median xx xx xx Min, Max xx, xx xx, xx xx, xx

Table 14.2.2

Exposure to Study Medication by Treatment Group - (Safety Population

[a] Give definition of how duration was calculated (e.g., Duration (days) = [date of last dose - date of first dose + 1]). Define the end of the cycle as the day before the onset date of next cycle.

Bolded sections are optional.

Program path: Data source: SDR D SDSUMM

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Page X of X DB (Interim) Lock Date:

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Celgene Corporation Protocol: Page xx of xx DB (**Interim**) Lock Date:

Table 14.2.3

Study Drug Dose Reduction Due to Adverse Events by Treatment Group - (Safety Population)

		`	
	Treatment A (N=XX)	Treatment B (N=XX)	Treatment ((N=XX)
Had at least one dose reduction due to AE			
Yes	XX (XX)	XX (XX)	XX (XX)
No	XX (XX)	XX (XX)	XX (XX)
Time to first dose reduction (days) due to AE[a]			
n	xx	xx	xx
Mean	XX	xx	xx
SD	xx	xx	xx
Median	xx	xx	xx
Min. Max	XX, XX	XX. XX	xx. xx
	,	,	,
Had accord door reduction due to NE	Y		
Vac			
ies Na	XX (XX)	XX (XX)	XX (XX)
NO	XX (XX)	XX (XX)	XX (XX)
Interval between first and second reduction (days)[b] due to AE			
n	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median	XX	XX	XX
Min, Max	XX, XX	XX, XX	XX, XX
[a] Time to dose reduction is the time from first dose of study medication t	to the start of first	reduction.	
[b] Time from the start of the first dose reduction to the start of the seco	ond dose reduction.		
Program path:			
Data source: D SDSUMM			
-			
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and Proprietary 73			

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Celgene Corporation Protocol:

Page xx of xx DB (Interim) Lock Date:

Table 14.2.4

Study Drug Dose Interruption Due to Adverse Events by Treatment Group - (Safety Population)

	Treatment A	Treatment B	Treatment
	(N=XX)	(N=XX)	(N=XX)
ad at least one dose interruption due to AE		\mathbf{O}	
Yes	XX (XX)	XX (XX)	XX (XX)
No	xx (xx)	XX (XX)	XX (XX)
me to first dose interruption (days) due to AE[a]			
n Maar	xx	**	XX
Mean	xx	**	XX
	xx	**	XX
Meqian	xx	xx	xx
Min, Max	xx, xx	xx, xx	xx, xx
ration of first dose interruption (days) due to AE[b]	\sim		
n	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median	XX	XX	XX
Min, Max	XX, XX	XX, XX	XX, XX
d second dose interruption due to AE			
Yes	XX (XX)	XX (XX)	XX (XX)
No	XX (XX)	XX (XX)	XX (XX)
terval between first and second interruption (days)[c] due to AE			
n	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median	XX	XX	XX
Min, Max	XX, XX	XX, XX	XX, XX

[a] Time to dose interruption is the time from first dose of study medication to the start of first interruption.

[b] Duration of dose interruption is the time from last dose of one dosing regimen to first dose of the next dosing regimen. A dosing change is considered an interruption if the start of the new dosing record is greater than 1 day after the end of the previous dosing record.

[c] Time from the start of the first dose interruption to the start of the second dose interruption.

Program path:

Data source: D SDSUMM

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Celgene Corporation Protocol: Page xx of xx DB (Interim) Lock Date:

Table 14.3.2.1 Summary of Adverse Events - Number (%) of Subjects by Treatment Group - (Safety Population)

TEAE Category[a]	Treatment (N=XX)	A Treatment B (N=XX)	Treatment C (N=XX)
	11 (**	/ 11 (**)	11 (***)
Subjects with at least one TEAE	XX (XX	:) XX (XX)	xx (xx)
Subjects with at least one TEAE related to study drug	XX (XX	.) XX (XX)	XX (XX)
Subjects with at least one CTC AE grade 3-4 (or severe) TEAE	XX (XX	xx (xx)	XX (XX)
Subjects with at least one CTC AE grade 3-4 (or severe) TEAE related to study drug	XX (XX	i) xx (xx)	XX (XX)
Subjects with at least one serious TEAE [b]	XX (XX	.) xx (xx)	XX (XX)
Subjects with at least one serious TEAE related to study drug	XX (XX) xx (xx)	XX (XX)
Subjects who discontinued due to TEAE	XX (XX) xx (xx)	XX (XX)
Subjects who discontinued due to TEAE adverse event related to study drug	XX (XX	i) xx (xx)	XX (XX)
Subjects with TEAE leading to a dose reduction	XX (XX) xx (xx)	XX (XX)
Subjects with TEAE leading to a dose interruption	XX (XX	.) xx (xx)	XX (XX)
Subjects who died[c] due to TEAE	xx (xx	xx (xx)	XX (XX)

Additional categories can be specified under "Subjects who died" (e.g., Disease progression).

[a] A subject with multiple occurrences of an AE is counted only once in the AE category.

[b] Specify how long serious adverse events were collected following the last dose of study medication. This should be specified in the protocol. [c] Specify how long deaths were collected following the last dose of study medication. This should be specified in the protocol. Program path:

Data source: AE

Celgene International

Celgene Corporation Protocol:

Page xx of xx DB (Interim) Lock Date:

Table 14.3.2.2

Number (%) of Subjects With **Treatment-Emergent** Adverse Events by System Organ Class- (Safety Population)

	Treatment A (N=xx)	Treatment B (N=xx)	Treatment C (N=xx)		
System organ class/ Preferred term [a]	n. (%)	n (%)	n (%)		
Subjects with at least one TEAE	xx (xx)	XX (XX)	XX (XX)		
Blood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)		
Thrombocytopenia	XX (XX)	XX (XX)	XX (XX)		
Neutropenia	XX (XX)	XX (XX)	XX (XX)		
Anaemia NOS		XX (XX)	XX (XX)		
Leukopenia NOS	XX (XX)	XX (XX)	XX (XX)		
Febrile neutropenia	XX (XX)	XX (XX)	XX (XX)		
Pancytopenia	XX (XX)	XX (XX)	XX (XX)		
Granulocytopenia	хх (хх)	XX (XX)	XX (XX)		
Lymphadenopathy	XX (XX)	XX (XX)	XX (XX)		
Polycythaemia NOS	хх (хх)	XX (XX)	XX (XX)		
Splenomegaly	XX (XX)	XX (XX)	XX (XX)		
Coagulopathy	XX (XX)	XX (XX)	XX (XX)		
Haemolytic anaemia NOS	XX (XX)	XX (XX)	XX (XX)		
Leukocytosis	XX (XX)	XX (XX)	XX (XX)		
Lymphocytosis	XX (XX)	XX (XX)	XX (XX)		
Skin and subcutaneous tissue disorders	XX (XX)	XX (XX)	XX (XX)		
Pruritus	XX (XX)	XX (XX)	XX (XX)		
Rash NOS	XX (XX)	XX (XX)	XX (XX)		
Dry skin	XX (XX)	XX (XX)	XX (XX)		
Contusion	XX (XX)	XX (XX)	XX (XX)		
Night sweats	XX (XX)	XX (XX)	XX (XX)		
Sweating increased	XX (XX)	XX (XX)	XX (XX)		
Ecchymosis	XX (XX)	XX (XX)	XX (XX)		
Erythema	XX (XX)	XX (XX)	XX (XX)		
Rash pruritic	XX (XX)	XX (XX)	XX (XX)		
Skin lesion NOS	XX (XX)	XX (XX)	XX (XX)		
Alopecia	XX (XX)	XX (XX)	XX (XX)		
Face oedema	XX (XX)	XX (XX)	XX (XX)		
			. ,		

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,

). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.

Program path: Data source: AE

Celgene International

Celgene Corporation Protocol:

Page xx of xx DB (Interim) Lock Date:

Table 14.3.2.3

Number (%) of Subjects With Common (>= XX%) **Treatment-Emergent** Adverse Events by SOC - (Safety Population)

	Treatmen (N=xx	nt A Tr k)	eatment B (N=xx)	Tre (N	eatment (=xx)	
System organ class/ Preferred term [a]	n	(%)	n (%)	n	(%)	
Subjects with at least one TEAE	XX (1	xx) >	XX (XX)	XX	(XX)	
Blood and lymphatic system disorders	XX ()	xx) x	x (xx)	XX	(xx)	
Thrombocytopenia	XX (X	xx) >	xx (xx)	XX	(XX)	
Neutropenia	XX ()	xx) x	x (xx)	XX	(xx)	
Anaemia NOS	XX (X	xx) >	xx (xx)	XX	(XX)	
Leukopenia NOS	XX (X	xx) x	x (xx)	XX	(XX)	
Febrile neutropenia	XX (X	xx) x	x (xx)	XX	(XX)	
Pancytopenia	XX ()	XX) >	XX (XX)	XX	(XX)	
Granulocytopenia	XX ()	XX) X	x (xx)	XX	(XX)	
Lymphadenopathy	XX (X	xx) >	XX (XX)	XX	(xx)	
Polycythaemia NOS	XX (X	XX) X	XX (XX)	XX	(xx)	
Splenomegaly	XX (X	xx) >	XX (XX)	XX	(xx)	
Coagulopathy	XX (X	XX) X	XX (XX)	XX	(xx)	
Haemolytic anaemia NOS	XX (X	XX) X	XX (XX)	XX	(XX)	
Leukocytosis	XX (X	XX) X	XX (XX)	XX	(XX)	
Lymphocytosis	XX (X	XX) X	XX (XX)	XX	(xx)	
Skin and subcutaneous tissue disorders	XX (X	xx) >	x (xx)	XX	(xx)	
Pruritus	XX ()	xx) x	x (xx)	XX	(xx)	
Rash NOS	XX (X	xx) >	xx (xx)	XX	(XX)	
Dry skin	XX (X	xx) x	x (xx)	XX	(xx)	
Contusion	XX ()	xx) x	x (xx)	XX	(xx)	
Night sweats	XX (X	(X) X	x (xx)	XX	(xx)	
Sweating increased	XX (X	xx) x	x (xx)	XX	(xx)	
Ecchymosis	XX (X	xx) >	x (xx)	XX	(XX)	
Erythema	XX (X	xx) x	x (xx)	XX	(xx)	
Rash pruritic	XX (X	xx) >	x (xx)	XX	(xx)	
Skin lesion NOS	XX ()	xx) x	x (xx)	XX	(xx)	
Alopecia	XX (X	xx) >	x (xx)	XX	(xx)	
Face oedema	XX ()	xx) x	x (xx)	XX	(xx)	

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,

). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group. Program path:

Data source: AE

Celgene International

Page xx DB (Interim) Lock Date:

Celgene Corporation Protocol:

> Table 14.3.2.4 Number (%) of Subjects With Treatment-Emergent Adverse Events Related to Study Drug by System Organ Class - (Safety Population)

	Treatment A	Treatment B	Treatment C
	(N=xx)	(N=XX)	(N=XX)
System organ class/ Preferred term [a]	n (%)	n (%)	n (%)
Subjects with at least one TEAE related to study drug	XX (XX)	XX (XX)	XX (XX)
			<i>.</i>
Blood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)
Thrombocytopenia	XX (XX)	XX (XX)	XX (XX)
Neutropenia	XX (XX)	XX (XX)	XX (XX)
Leukopenia NOS	XX (XX)	XX (XX)	XX (XX)
Anaemia NOS	XX (XX)	XX (XX)	XX (XX)
Febrile neutropenia	XX (XX)	XX (XX)	XX (XX)
Granulocytopenia	XX (XX)	XX (XX)	XX (XX)
Pancytopenia	XX (XX)	XX (XX)	XX (XX)
Polycythaemia NOS	XX (XX)	XX (XX)	XX (XX)
Myelosuppression	XX (XX)	XX (XX)	XX (XX)
Skin and subcutaneous tissue disorders	XX (XX)	XX (XX)	XX (XX)
Pruritus	XX (XX)	XX (XX)	XX (XX)
Rash NOS	XX (XX)	XX (XX)	XX (XX)
Dry skin	XX (XX)	XX (XX)	XX (XX)
Rash pruritic	XX (XX)	XX (XX)	XX (XX)
Ecchymosis	XX (XX)	XX (XX)	XX (XX)
Erythema	XX (XX)	XX (XX)	XX (XX)
Night sweats	XX (XX)	XX (XX)	XX (XX)
Rash ervthematous	XX (XX)	XX (XX)	XX (XX)
Rash macular	XX (XX)	XX (XX)	XX (XX)
Rosacea	×× (××)	XX (XX)	XX (XX)
Skin lesion NOS	×× (××)	XX (XX)	XX (XX)
Sweating increased	×× (××)	xx (xx)	xx (xx)
Urticaria NOS	XX (XX)	xx (xx)	xx (xx)
Acute febrile neutrophilic dermatosis		xx (xx)	xx (xx)
Alonaria	vv (vv)	vv (vv)	vv (vv)
Contusion	VA (VV)	vv (vv)	vv (vv)
Evanthem	AA (AA) VV (VV)	~~ (~~) vv (vv)	~~ (~~) vv (vv)
race Dedema	XX (XX)	AA (XX)	AA (XX)

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical, descending order of frequency for the Total *column*). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.

Program path: Data source: AE

Celgene International

Celgene Corporation Protocol:

Page xx of xx DB (Interim) Lock Date:

Table 14.3.2.5

Number (%) of Subjects With **Treatment-Emergent** Adverse Events by System Organ Class and Maximum CTC AE Grade (Maximum Severity) - (Safety Population)

	Treatment A	Treatment B	Treatment C	Treatment D
atem annes alars (Durfanned term (Interactor [a]	(N=XX)	(N=XX)	(N=XX)	(N=XX)
ystem organ class/ Preferred term / intensity [a]	11 (8)	11 (8)	11 (3)	11 (3)
ubjects with at least one adverse event by maximum grade (seve :	city) xx (xx)	XX (XX)	XX (XX)	XX (XX)
Grade 1/Mild	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 3/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Missing Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)
and and lumphatic quater disordary				()
Crade 1/Mild		XX (XX)	XX (XX)	XX (XX)
Grade 2/Maderate		XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening				
Missing Crade		XX (XX)	XX (XX)	XX (XX)
MISSING Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)
ardiac disorders	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 1/Mild	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 3/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Missing Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)
	()	()	()	
ar and rapyrinth disorders	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 1/MIId	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade J/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
MISSING Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)

Note: NCI CTC=National Cancer Institute Common Toxicity Criteria Version 2.

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of the dictionary used).

System organ classes are presented alphabetically and preferred terms are presented alphabetically within each system organ

class. Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group. and A subject with multiple NCI CTC grades (severity ratings) for an AE is only counted under the maximum grade (severity).

Program path: Data source: AE

Celgene International

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Page xx of DB (Interim) Lock Date:

Table 14.3.2.6

Number (%) Subjects With TEAE Related to Study Drug by System Organ Class, Preferred Term, Treatment Group, and Maximum NCI CTC Grade (Maximum Severity) - (Safety Population)

	Treatment A (N=xx)	Treatment B (N=xx)	Treatment C (N=xx)	Treatment D (N=xx)
System organ class/ Preferred term / Intensity [a]	n (%)	n (%)	n (%)	n (%)
Subjects with at least one related TEAE				
by maximum grade (severity)	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 1/Mild	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 3/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Missing Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)
lood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 1/Mild	XX (XX)	×× (××)	XX (XX)	XX (XX)
Grade 2/Moderate	×× (××)	XX (XX)	XX (XX)	XX (XX)
Grade 3/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Missing Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)
ardiac disorders	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 1/Mild	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 3/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Missing Grade	XX (XX)	XX (XX)	XX (XX)	XX (XX)
				(
ar and lapyrinth disorders	XX (XX)	XX (XX)	XX (XX)	XX (XX)
	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 2/Moderate	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 3/Severe	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Magazage (imado	vv (vv)	VV (VV)	VV (VV)	XX (XX)

Note: NCI CTC=National Cancer Institute Common Toxicity Criteria Version 2.

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of the dictionary used). System organ classes are presented alphabetically. Preferred terms are presented alphabetically within each system organ class.

Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group. A subject with multiple NCI CTC

(severity ratings) for an AE is only counted under the maximum grade (severity).

Program path: Data source: AE

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grades

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Page xx of xx DB (Interim) Lock Date:

Celgene Corporation Protocol:

Table 14.3.2.7

Number (%) of Subjects With Adverse Events With CTC AE Grade 5 by System Organ Class - (Safety Population)

	Treatment A	Treatment B	Treatment C (N=xx)
System organ class/ Preferred term [a]	n (%)	n (%)	n (%)
Subjects with at least one NCI CTC Grade 5 adverse event	XX (XX)	X X (XX)	XX (XX)
Infections and infestations	XX (XX)	XX (XX)	XX (XX)
Pneumonia NOS	XX (XX)	XX (XX)	XX (XX)
Sepsis NOS	XX (XX)	XX (XX)	XX (XX)
Bacteraemia	XX (XX)	XX (XX)	XX (XX)
Cellulitis	XX (XX)	XX (XX)	XX (XX)
Infection NOS	XX (XX)	XX (XX)	XX (XX)
Central line infection	XX (XX)	XX (XX)	XX (XX)
Clostridial infection NOS	XX (XX)	XX (XX)	XX (XX)
Enterobacter sepsis	XX (XX)	XX (XX)	XX (XX)
Fungal infection NOS	XX (XX)	XX (XX)	XX (XX)
Influenza	XX (XX)	XX (XX)	XX (XX)
Klebsiella sepsis	XX (XX)	XX (XX)	XX (XX)
Lobar pneumonia NOS	XX (XX)	XX (XX)	XX (XX)
Blood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)
Neutropenia	XX (XX)	XX (XX)	XX (XX)
Thrombocytopenia	XX (XX)	XX (XX)	XX (XX)
Anaemia NOS	XX (XX)	XX (XX)	XX (XX)
Febrile neutropenia	XX (XX)	XX (XX)	XX (XX)
Leukopenia NOS	XX (XX)	XX (XX)	XX (XX)
Pancytopenia	XX (XX)	XX (XX)	XX (XX)
Coagulopathy	XX (XX)	XX (XX)	XX (XX)

Note: NCI CTC=National Cancer Institute Common Toxicity Criteria Version 2.

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,)

Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.

Program path: Data source: AE (death page?)

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Page xx of xx DB (Interim) Lock Date:

Table 14.3.2.8 Number (%) of Subjects With **Treatment-Emergent** SAE by System Organ Class - (Safety Population)

	Treatment A	Treatment B	Treatment C
System organ class/ Preferred term [a]	(N=XX) n (多)	(N=XX) n (응)	(N=XX) n (%)
Subjects with at least one TESAE	xx (xx)	XX (XX)	XX (XX)
Infections and infestations	XX (XX)	XX (XX)	XX (XX)
Pneumonia NOS	XX (XX)	XX (XX)	XX (XX)
Sepsis NOS	xx (xx)	XX (XX)	XX (XX)
Bacteraemia	XX (XX)	XX (XX)	XX (XX)
Cellulitis	XX (XX)	XX (XX)	XX (XX)
Infection NOS	XX (XX)	XX (XX)	XX (XX)
Central line infection	XX (XX)	XX (XX)	XX (XX)
Clostridial infection NOS	XX (XX)	XX (XX)	XX (XX)
Enterobacter sepsis	XX (XX)	XX (XX)	XX (XX)
Fungal infection NOS	XX (XX)	XX (XX)	XX (XX)
Influenza	XX (XX)	XX (XX)	XX (XX)
Klebsiella sepsis	XX (XX)	XX (XX)	XX (XX)
Lobar pneumonia NOS	XX (XX)	XX (XX)	XX (XX)
Sinusitis NOS	XX (XX)	XX (XX)	XX (XX)
Sinusitis acute NOS	XX (XX)	XX (XX)	XX (XX)
Urinary tract infection NOS	XX (XX)	XX (XX)	XX (XX)
Blood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)
Neutropenia	XX (XX)	XX (XX)	XX (XX)
Thrombocytopenia	XX (XX)	XX (XX)	XX (XX)
Anaemia NOS	XX (XX)	XX (XX)	XX (XX)
Febrile neutropenia	XX (XX)	XX (XX)	XX (XX)
Leukopenia NOS	XX (XX)	XX (XX)	XX (XX)
Pancytopenia	XX (XX)	XX (XX)	XX (XX)
Coagulopathy	XX (XX)	XX (XX)	XX (XX)

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,

). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.

Program path: Data source: AE

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Table 14.3.2.9 Number (%) of Subjects With **Treatment-Emergent** SAE Related to Study Drug by System Organ Class -(Safety Population)

Custom except alace / Distanced torm [2]	Treatment A (N=xx)	Treatment B (N=xx)	Treatment C (N=xx)	
System olgan class/ Fleteried term [a]	11 (6)	11 (6)	11 (%)	
Subjects with at least one TESAE related to study drug	XX (XX)	XX (XX)	XX (XX)	
Blood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)	
Neutropenia	XX (XX)	XX (XX)	XX (XX)	
Febrile neutropenia	XX (XX)	XX (XX)	XX (XX)	
Thrombocytopenia	XX (XX)	XX (XX)	XX (XX)	
Leukopenia NOS	XX (XX)	XX (XX)	XX (XX)	
Anaemia NOS	XX (XX)	XX (XX)	XX (XX)	
Pancytopenia	XX (XX)	XX (XX)	XX (XX)	
Infections and infestations	×x (xx)	XX (XX)	XX (XX)	
Pneumonia NOS	XX (XX)	XX (XX)	XX (XX)	
Cellulitis	XX (XX)	XX (XX)	XX (XX)	
Clostridial infection NOS	xx (xx)	XX (XX)	×× (××)	
Infection NOS	XX (XX)	XX (XX)	×× (××)	
Klebsiella sepsis	XX (XX)	XX (XX)	XX (XX)	
Lobar pneumonia NOS	XX (XX)	XX (XX)	XX (XX)	
Concerci disorders and administration site conditions	()	()		
Beneral disorders and administration site conditions	XX (XX)	XX (XX)	XX (XX)	
Rotiguio				
racigue	XX (XX)	XX (XX)	XX (XX)	
Respiratory, thoracic and mediastinal disorders	XX (XX)	XX (XX)	XX (XX)	
Pulmonary embolism	XX (XX)	XX (XX)	XX (XX)	
Pulmonary hypertension NOS	XX (XX)	XX (XX)	XX (XX)	
Pleural effusion	XX (XX)	XX (XX)	XX (XX)	
Respiratory distress	XX (XX)	XX (XX)	XX (XX)	
Skin and subcutaneous tissue disorders	XX (XX)	XX (XX)	XX (XX)	
Rash NOS	XX (XX)	XX (XX)	XX (XX)	
Acute febrile neutrophilic dermatosis	XX (XX)	XX (XX)	XX (XX)	

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,

). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.

Program path: Data source: AE

FORMATIC Celgene International

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Celgene International

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Page xx of xx DB (Interim) Lock Date:

				Tab.	le 14.3.2.10							
Number (%) of Subj	ects With	TEAE	Leading to	Discontinuation	of	Study	Drug	by	System	Organ	Class ·
				(Safe	ety Population)							

	Treatment A	Treatment B	Treatment C	
	(N=XX)	(N=XX)	(N=XX)	
System organ class/ Preferred term [a]	n (%)	n (%)	n (%)	
Subjects with at least one TEAE leading to discontinuation of study drug	XX (XX)	XX (XX)	XX (XX)	
			(,	
Blood and lymphatic system disorders	XX (XX)	XX (XX)	XX (XX)	
Neutropenia	XX (XX)	XX (XX)	XX (XX)	
Febrile neutropenia	XX (XX)	XX (XX)	XX (XX)	
Thrombocytopenia	XX (XX)	XX (XX)	XX (XX)	
Leukopenia NOS	XX (XX)	XX (XX)	XX (XX)	
Anaemia NOS	XX (XX)	XX (XX)	XX (XX)	
Pancytopenia	XX (XX)	XX (XX)	XX (XX)	
Infections and infestations	XX (XX)	XX (XX)	XX (XX)	
Pneumonia NOS	XX (XX)	XX (XX)	XX (XX)	
Cellulitis	XX (XX)	XX (XX)	XX (XX)	
Clostridial infection NOS	XX (XX)	XX (XX)	XX (XX)	
Infection NOS	XX (XX)	XX (XX)	×× (××)	
Klebsiella sensis	XX (XX)	xx (xx)	×× (××)	
Lobar pneumonia NOS	XX (XX)	xx (xx)	×× (××)	
General disorders and administration site conditions	XX (XX)	XX (XX)	XX (XX)	
Pyrexia	XX (XX)	XX (XX)	XX (XX)	
Asthenia	XX (XX)	XX (XX)	XX (XX)	
Fatigue	XX (XX)	XX (XX)	XX (XX)	
Respiratory, thoracic and mediastinal disorders	XX (XX)	XX (XX)	XX (XX)	
Pulmonary embolism	XX (XX)	XX (XX)	XX (XX)	
Pulmonary hypertension NOS	XX (XX)	XX (XX)	XX (XX)	
Pleural effusion	XX (XX)	XX (XX)	XX (XX)	
Respiratory distress	XX (XX)	XX (XX)	XX (XX)	
		· · · ·		
Skin and subcutaneous tissue disorders	XX (XX)	XX (XX)	XX (XX)	
Rash NOS	XX (XX)	XX (XX)	XX (XX)	
Acute febrile neutrophilic dermatosis	XX (XX)	XX (XX)	XX (XX)	
	· · · · ·	. ,	· · ·	

[a] System organ classes and preferred terms are coded using the MedDRA dictionary (indicate version of dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,

). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.

Program path: Data source: AE Celgene International



Celgene Corporation Protocol:

Table 14.3.2.2.1

Number (%) of Subjects With **Treatment-Emergent** Adverse Events by System Organ Class and Age Group - (Safety Population)

	Т	reatment A (N=xx)	Trea (1	atment B N=xx)	Т (reatment C N=xx)
System organ class/ Preferred term [a]	<65 (N=xx n(%)	>=65) (N=xx) n(%)	<65 (N=xx) n(等)	>=65 (N=xx) n(%)	<65 (N=xx) n(%)	>=65 (N=xx) n(%)
Subjects with at least one TEAE	xx (xx) XX (XX)	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Blood and lymphatic system disorders Thrombocytopenia Neutropenia Anaemia NOS Leukopenia NOS Febrile neutropenia Pancytopenia Granulocytopenia Lymphadenopathy Polycythaemia NOS Splenomegaly Coagulopathy Haemolytic anaemia NOS Leukocytosis Lymphocytosis Monocytosis	XX (XX XX (XX X (XX XX (XX X (XX X (XX X X X (XX X X X (XX X X X X (XX X X X (XX X X X X X X X X X X X X X X X X X X) xx (xx)) xx (xx)	XX (XX) XX (XX)	XX (XX) XX (XX)	XX (XX) XX (X	XX (XX) XX (XX)
Myelosuppression Thrombocythaemia) XX (XX)) XX (XX)	xx (xx) xx (xx)	xx (xx) xx (xx)	xx (xx) xx (xx)	xx (xx) xx (xx)

 [a] System organ classes and preferred terms are coded using the MedDRA dictionary(indicate the version of the dictionary used). System organ classes and preferred terms are listed in (specify order of appearance, e.g., alphabetical,

). Multiple occurrences of the same preferred term from a patient are counted only once within each treatment group.



Qol tables

Group A Group B Group C Duesal (N=2X) (N=2X) (N=XX) (N=XX) (N=2X) (N=2X	Group A Group B Group C Owesa Owesa ctional Scale (a) hysical Functioning H XX XX <th>Summ</th> <th>Table 14 wry of the EORTC QLQ-30 (FAS Pop</th> <th>4.1.4.4 Questionnaire at Base ulation)</th> <th>alice</th> <th></th>	Summ	Table 14 wry of the EORTC QLQ-30 (FAS Pop	4.1.4.4 Questionnaire at Base ulation)	alice	
tional Scale (a) release functioning team XX, XX XX, XX, XX, XX, XX, XX, XX, XX,	ctional Scale (a) hysical functioning Han XX, X XX, XX, XX, XX, XX, XX, XX, XX,	ubscale	Group A (N=XX)	Group B (N=XX)	Group C (N=XX)	Overall [N=XX]
sates functioning the an XX, X XX, X XX, X XX, X XX, X XX, X page XX, XX XX, X XX,	yr xx <	nctional Scale [a]				
sean XX,X XX XX,X XX,X XX,X XX,X XX,XX XX,XX,	Them XX, X, XX, XX, XX, XX, XX, XX, XX, XX,	N N	XX	××	XX	××
<pre>fedian fin, Max NX NX NX NX NX NX NX, NX,</pre>	Median XX XX XX XX XX XX Diff. Max DX, XX XX XX XX XX XX N XX XX XX XX XX XX Paan XX.X XX.X XX.X XX.X XX.X XX.X SO XX.X XX.X XX.X XX.X XX.X XX.X SO XX.X XX.X XX.X XX.X XX.X XX.X SO XX.X XX XX.X XX.X XX.X XX.X Min. Max XX.X XX.X XX.X XX.X XX.X XX.X N N XX XX.X XX.X XX.X XX.X SO XX.X XX.X XX.X XX.X XX.X <td< td=""><td>SD</td><td>XX.X XX.XX</td><td>XX.X XX.XX</td><td>XX.X XX.XX</td><td>XX,XX</td></td<>	SD	XX.X XX.XX	XX.X XX.XX	XX.X XX.XX	XX,XX
<pre>Productioning Product Pro</pre>	No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Median Min, Max	208	XX XX. XX	XX	ALL
XX <	XX <	Bole Europing	icity has	001 00	0.07 0.0	AA, 8A
Hean XX,X XX,X XX,X XX,X YX,X YX,X Headian XX XX,X YX,X YX,X YX,X Headian XX XX XX XX XX XX XX XX Headian XX	Theal XX X	N	XX	XX	XX	23
Median (XX XX XX XX XX XX XX XX XX XX, XX XX, XX XX	Median XX XX XX XX XX XX XX XX, XX XX, XX XX, XX XX	Mean SD	XX.XX XX.XX	XX.X XX.XX	XX.X XX.XX	X26X
in the first for all functional parameters) in Scale [b] in Scale [b]	ntinue for all functional parametars) prom Scale [b] stinue N Mean XX X XX XX XX XX XX Mean XX X XX XX XX XX XX SD Mean XX X XX XX XX XX XX Min, Max XX XX XX XX XX SD N Nean XX X XX XX XX XX SD N Nean XX X XX XX XX XX Nean XX XX XX XX XX N N Nean XX XX XX XX XX XX N N Nean XX XX XX XX XX XX N N N N N N N N N N N N N	Median Min- Max	XX	XX	XX	XX
<pre>com Scale [b] igue k k k deam k k k deam k k k k k k b k k k k k k k k k k k k</pre>	ptom Scale [b] stigue N N XX XX XX XX XX XX XX XX XX XX Bedian XX	continue for all functional parameters)	0.01 0.0	00, 00.	AA, AA	××, ××
Igue XX	stigue N XX XX XX XX XX XX XX XX SD XX.X XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX http://war for all symptom parameters) sal Quality of Life (b) N XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX Hole an XX XX XX XX XX XX XX XX Hole an XX XX XX XX XX XX XX, XX XX Hole an XX XX XX XX XX XX XX, XX Helian XX XX XX XX XX XX, XX, XX, XX Helian XX XX XX XX XX XX, XX, XX, XX Helian XX XX XX XX XX XX, XX, XX, XX Helian XX XX XX XX XX XX, XX, XX, XX Helian XX XX XX XX XX XX, XX, XX Helian XX XX XX XX XX XX, XX, XX, XX, XX, XX,	ptom Scale [b]				
team XX X XX	Mean XX X XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX Min, Max XX XX XX XX XX XX XX XX XX XX Mine for all symptom parameters) sal Quality of Life (b) N XX XX XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX Ho, Max XX XX XX XX XX XX XX XX Ho, Max XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX Ho, Max XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX Mine Max XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX XX Median XX XX Median XX	N N	xx	XX	XX	XX
Setien XXX XX X	Median XX XX XX XX XX XX XX XX XX XX Min, Max XX, XX XX XX XX XX XX XX, XX Mainue for all symptom parameters) bal Quality of Life (b) N Mean XX XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX Median XX XX XX XX XX XX XX XX XX Man XX, XX XX XX XX XX XX, XX Man XX, XX XX XX XX XX XX, XX, XX Man XX, XX XX XX XX XX XX, XX, XX Man XX, XX XX XX XX XX, XX, XX, XX, XX Man XX, XX XX XX XX XX, XX, XX, XX, XX Man XX, XX XX XX XX, XX, XX, XX, XX, XX, X	Mean sn	XX.X	XX.X	XX.X	XX . X
LL, MAX LL,	MLD, MAX minue for all symptom parameters) sal Quality of Life [b] N Mean Max Median N Man Max Mean N Mean Mea	Median	28	XX	XX	XX - XX XX
Al Quality of Life [b] Note and Note and Control of Co	bal Quality of Life [b] N Mean SD NX, X Median Min, Max N Mean N N Mean N N Mean N N Mean N N N N N N N N N N N N N	MLn, Max continue for all symptom parameters)	XX, XX	XX, XX	XX 4XX	XX, XX
XX XX XX XX XX XX Disen XX.XX XX.XX XX.XX XX.XX XX.XX XX.XX Distribution XX XX XX XX XX XX e Items [b] stipation Image: Stipation Image: Stipation Image: Stipation Image: Stipation Image: Stipation Image: Stipation XX XX XX XX XX XX Image: Stipation XX XX.XX XX.XX XX XX Isan XX.XX XX.XX XX.XX XX.XX Isan XX.XX XX.XX XX	N XX XX XX XX XX XX XX Median XX, XX XX XX XX, XX, XX, XX, XX, XX, X	obal Quality of Life [b]				
D NX.XX XX XX XX XX XX XX.XX XX.XX XX.XX XX.XX XX.XX XX	SD XX.XX XX	N Mean	XX XX - X	XX	XX	XX.
<pre>idean XX XX XX XX XX XX XX Lin, Max XX, XX XX XX XX, XX XX, XX XX, XX e Items [b] stipation XX XX XX XX XX XX XX Bean XX, XX XX XX XX XX D XX, XX XX XX XX XX (bodian XX, XX XX XX, XX XX, XX XX, XX ince for all single item parameters) XX, XX XX XX XX XX, XX XX, XX XX, XX ince for all single item parameters) A = Austria and Australia: Group B = UK and Irelegic Group C = Spain.</pre>	Hecken Hin, Max N Nean N N N N N N N N N N N N N	SD	XX.XX	XXX	XX.XX	XX.XX
e Itens [b] istipation lean Stan lean NX, XX SX,	ple Itens [b] matipation N Mean SD SD Median Min, Max Win, Max VX, XX Min, Max VX, XX XX, XX, XX, XX XX, XX, XX, XX, XX, XX, XX, XX, XX, XX,	Min, Max	XX XX, XX	XX, XX	XX XX, XX	XX, XX
stipation lean XX, XX XX, XX, XX, XX, XX, XX, XX, XX,	Instipution N Hean SD SD N Hean N N N N N N N N N N N N N	igle Itans [b]				
iean XX,X XX,X XX,X XX,X XX,X XX,X XX,X XX	Hean XX,X XX,X XX,X XX,X XX,X XX,X XX,X XX	Constipation	xx	Av.	~~	
A.XX XX XX XX.XX XX.XX XX.XX XX.XX XX.XX XX.XX XX	Median XX, XX XX, XX, XX, XX, XX, XX, XX, XX,	Hean	XX.X	XX.X	xx.x	x.x
<pre>inp Max XX, XX XX, XX XX, XX XX, XX XX, XX XX, XX XX</pre>	Min, Max ncinue for all single item parameters) 2 A - Austria and Australia: Group B - UK and Ireland: Group Grain. XX, XX XX, XX XX, XX, XX, XX, XX, XX, X	Median	XX	XX-XX XX	XX.XX	XX.XX XX
A = Austria and Australia: Group B = UK and Ireland: Group B = Seain.	5 A = Austria and Australia: Groun B = UK and Ireland, comin the Smath.	Min, Max antinue for all single item parameters)	XX, XX	XX, XX	XX, XX	XX, XX
		GV				

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				Tab	Le 14.	3.3.1			
Change	from	Baseline	oſ	the (FAS	EORTC Popul	QLQ-30 ation)	Questionnaire	by	Visit

Bits Date Date <thdate< th=""> Date Date <thd< th=""><th>Access A Coupe D <</th><th>Lithonal Social (4) hysical Functioning Baseline Mask Mark Mark XX XX XX XX XX Mark Mark XX XX XX XX XX XX XX XX XX XX XX XX XX</th><th>ubscale</th><th>-</th><th>Group A</th><th>Group B</th><th>Oncore C.</th><th>- Crosse h</th><th></th><th></th></thd<></thdate<>	Access A Coupe D <	Lithonal Social (4) hysical Functioning Baseline Mask Mark Mark XX XX XX XX XX Mark Mark XX XX XX XX XX XX XX XX XX XX XX XX XX	ubscale	-	Group A	Group B	Oncore C.	- Crosse h		
Physical Functioning Physical Functioning Name XX, X XX, XX, XX, XX, XX, XX, XX, XX,	Physical Functioning Physical Functioning	Information of a second	unctional Scale (a)		oroth N	araab p	and b. c.	readp A	Group B	ecoup C
H XX XX </td <td>No. XX XX</td> <td>Heat XX, X XX, X</td> <td>Physical Functioning</td> <td>Baseline</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	No. XX	Heat XX, X	Physical Functioning	Baseline						
ID XX.XX XX	BD XX, XX XX <th< td=""><td>ide XX, X X</td><td>injoine concerning</td><td>N</td><td>XX</td><td>XX</td><td>XX</td><td>NA</td><td>NDA</td><td>ND.</td></th<>	ide XX, X X	injoine concerning	N	XX	XX	XX	NA	NDA	ND.
Min, Max XX, XX XX, X	Min, Nor. XL, XX	Hits, Text KZ, XZ XZ, X		SD Medien	XX.XX	XX.XX	XX.XX	NA.	NA	NA NA
Meek 24 (Cycle 6) XX	Neek 22 (Cycle 6) XX	Heat 2 (Cycle 6) Heat 2 (Cycl		Min, Max	xx, xx	xx, xx	жх, жх	NA. NA	NA NA	NA NA
<pre>hean XX.X XX.X XX.X XX.X XX.X XX.X XX.X XX</pre>	Heat XX X	Meson XX		Week 24 (Cycle 6)						
<pre>30 XX.XX XX</pre>	BD DX.XX XX.XX XX	Bit man XX, XX		N Mean	XX XX . X	XX XX -X	XXX XX.X	XX XX.X	XX XX.X	XX XX-X
Min. Max XX, XX, <td>Mis. Mis. XX, XX,<!--</td--><td>His, Hea X0, 100 <</td><td></td><td>SD Median</td><td>XX.XX XX</td><td>XX.XX XX</td><td>XX.XX XX</td><td>XX.XX XX</td><td>XX.XX XX</td><td>XX.XX</td></td>	Mis. Mis. XX, XX, </td <td>His, Hea X0, 100 <</td> <td></td> <td>SD Median</td> <td>XX.XX XX</td> <td>XX.XX XX</td> <td>XX.XX XX</td> <td>XX.XX XX</td> <td>XX.XX XX</td> <td>XX.XX</td>	His, Hea X0, 100 <		SD Median	XX.XX XX	XX.XX XX	XX.XX XX	XX.XX XX	XX.XX XX	XX.XX
Role Functioning Beschine N Mean XX, XX XX, XX, XX, BA, MA, MA SD XX, XX XX, XX, XX, XX, BA, MA, MA Mean XX, XX XX, XX, XX, XX, BA, MA, MA Mean XX, XX XX, XX, XX, XX, BA, MA, MA Mean XX, XX XX, XX, XX, XX, XX, XX, XX, XX,	Rele Punctioning Baseline XX XX XX XX BA HA HA HA HA Man XXX XX XX XX XX HA HA HA HA HA Headan XXX XX XX XX XX HA HA HA HA Headan XXX XX XX XX HA HA HA HA Headan XXX XX XX XX HA HA HA HA Headan XXX XX XX XX XX HA HA HA HA Headan XXX XX XX XX XX XX HA HA HA HA Headan XXX XX XX XX XX XX XX XX XX XX XX Headan XXX XX XX Headan XXX XX X	lie Punctiening Basiline XX XX XX XX HA		Min, Mex	XX' :XX -	XX, XX	XX, XX	XX, XX	XX, XX	XX, XX
Mean 30, X, X XX, X XX, X XX, X HA 34A 94 30 XX, X XX XX XX 95, NX HA 34A 94 Median XX XX XX XX 95, NX HA 34A 96 Median XX XX XX XX 75, XX HA 36 Median XX, XX XX 75,	Mean XX,XX XXXX XXX XXX HA 344 HA	Mean XX, XX, XX, XX, XX, MA, MA, MA, MA, MA, MA, MA, MA, MA, MA	Role Functioning	Baseline	XX	XX	XX	NA	NA	NA
Median XX, XX XX XX XX NX NX NX NX NX NX NX NX NX	Median XX, XX XX, XX XX, XX NA NA DA Neek 24 (Cycle 6) Week 24 (Cycle 6) NA DB XX, XX XX, XX XX, XX XX, XX XX BD XX, XX XX XX, XX XX, XX XX, XX XX DB XX, XX	Heddan XX, XX, XX, XX, XX, XX, XX, XX, XX, XX		Mean SD	X, XX XX, XX	X, XX XX, XX	XX.XX	NA.	NA NA) (R. 116
Week 24 (Cycle 6) N Meen XX, X XX, XX, XX, XX, XX, XX, XX, XX,	nonclave for sli meeting parmeters)	Here 24 (cycle 6) New York XX, XX, XX, XX, XX, XX, XX, XX, XX, XX		Median Nin, Max	XX XX. XX	XX XX XX	XX. XX	NA.	NA NA	NAU NAU
Nesn XX	Meen XX, XX, XX, XX, XX, XX, XX, XX, XX, XX			Week 24 (Cycle 6)		any ma	nay aa	1.57	193	
BD XXXXX XXX XXX XXX XXX XXX XXX XXX XXX	Beclan XXX XXX XXX XXX XXX XXX XXX XXX XXX X	No		N Mean	XX XX X	XX	XX XX ×	XX XX ×	XX	XX
Nine, Max NA XX	Nin, Max XX XX XX, XX XX, XX XX, XX XX, XX XX, XX XX	NETWOR TOT BILL NETWOR		SD Medi an	XX.XX	XX XX	XXXX	XX.XX	XX+XX	xx.xx
portione for all nectional parameters	ontious for all netional patageters)	ition for all established by the search of t		Mi.n. ₆ . Masc	XX XX	XX (XX	XX, XX	XX, XX	XX XX	XX XXF XX
	Reliand palameters)	HIME PROPRIE	ontinue for all							
OPRIFIN	EPROPRIE	SEME PROPRIE MR	nctional pasameters)							
OPRIFIN	E PROPRIE AR	SEME PROPRIE								
	L P C	JENE PR					X			

		inprovemente			Improvement	
Scale	Group A n. (%)	Group B n (%)	Group C n (%)	Group A	Group B	Group C n. (%)
Change in Physical	XX (%XX)	XX (9XX)	XX (8XX)	XX (%XX)	XX (%XX)	XX (93X)
Change in Role	XX (%XX)	XX (\$XX)	XX (%XX)	30X (92X)	XX (9XX)	XX (9XX)
Change in Cognitive	XX (8XX)	XX (%XX)	XX (%XX)	20X (\$2XX)	XX (6XX)	XX (93X)
Change in Emotional	XX (820X)	XX (9XX)	XX (%XX)	XX (\$XX)	XX (5XX)	XX (%XX)
Thange in Social	XX (\$XX)	(3XX#) 3X	XX (%XX)	20X (%0XX)	XX (%XX)	XX (\$XX)
Thange in Fatigue	XX (9XR)	XX (9XX)	XX (9XX)	20X [%35X3	XX (%XX)	XX (%XX)
Change in Pain	XX (8XX)	XX (%XX)	XX (9XX)	XX (83X)	XX (%XX)	XXX (&XX)
hange in Nausea/Voniting	XX (8XX)	XX (%XX)	XX (%XX)	XX (93X)	XX (%XX)	NX (992X)
Change in Constipation	XX (8XX)	XX (8XX)	XX (%XX)	XX (930X)	XX (%XX)	XX (\$XX)
(continue for all parameters)	XX (9XX)	XX (%XX)	XXX (%XXX)	XX (%XX)	XX (8XX)	200 (4000)
oup A = Austria and Australia; Group	B = UK and Ire	aland; Group C =	Spaink			
				X		
	PR ^C	SRR				

Table 14.3.3.4 Quality of life improvement (change from baseline) - Humber (%) of Subjects -(FAS Population)

Efficacy Tables				×0.
		Summary of TTE Population		AR
	Statistics	Arm A (N = xxx)	$\begin{array}{c} \text{Arm B} \\ \text{(N = xxx)} \end{array}$	Total $(N = xxx)$
Subjects included	Ν	XXX	XXX	XXX
Died	n(%)	xx (%)	xx (%)	xx (%)
Censored	n(%)	XX (%)	xx (%)	XX (%)
TTE since randomization (weeks)	Median	XX	XX	XX
	95% CI	(xx, xx)	(xx , xx)	(xx, xx)
Hazard Ratio (A:B)	HR (95 CI)	x.xxx (x.x	(XXX, X.XXX)	
Log rank	Two sided P - value	0.	XXX	
xyz Test	Two sided P - value	0.	XXX	
uvw Test	Two sided P - value	0.:	XXX	
TTE follow up	n(%)	XX (%)	XX (%)	XX (%)
	Median (min, max)	xx (xx , xx)	xx (xx , xx)xx	xx (xx , xx)x
Footnote: Source: sas code location	8	0		
	GENE			

Sun Arm A (N = xxx) mate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	nmary of TTE Survival Ra Population Arm B (N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Arm A - B (N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	P - value 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
Arm A (N = xxx) mate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Population Arm B (N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Arm A - B (N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	P - value 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
Arm A (N = xxx) mate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Arm B (N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Arm A - B (N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	P - value 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
(N = xxx) mate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	(N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	(N = xxx) Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	P - value 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
mate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Estimate (95% CI) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	Estimate (95% CI) XX (%) XX (%) XX (%) XX (%) XX (%) XX (%)	P - value 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%) xx (%) xx (%)	0.xxx 0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
xx (%) xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%) xx (%)	0.xxx 0.xxx 0.xxx 0.xxx 0.xxx
xx (%) xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%) xx (%)	XX (%) XX (%) XX (%) XX (%)	0.xxx 0.xxx 0.xxx 0.xxx
xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%)	XX (%) XX (%) XX (%)	0.xxx 0.xxx 0.xxx
xx (%) xx (%) xx (%)	xx (%) xx (%) xx (%)	XX (%) XX (%) XX (%)	0.xxx 0.xxx 0.xxx
XX (%) XX (%) XX (%)	XX (%) XX (%) XX (%)	XX (%) XX (%) XX (%)	0.xxx 0.xxx 0.xxx
xx (%)	XX (%)	XX (%)	0.xxx 0.xxx
XX (70)	XX (70)	× XX (70)	0.XXX
XX (%)	XX (%)	xx (%)	0.xxx
XX (%)	XX (%)	XX (%)	0.xxx
XX (%)	XX (%)	XX (%)	0.xxx
SENE PE			
	SCARE PF	92	92

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5	Summary of Response Rates Population		
	len/D n (%)	len/d n (%)	Overall n (%)
Number of Patients: (N (%))		10°	
Response [a] Complete Response (CR) Near Complete Response (N-CR) Partial Response (PR) Minimal Response (MR) Stable Disease (SD) Progressive Disease (PD) Response Not Evaluable (NE)[b]		2 M	
Dichotomized response (Response not incl. MR) CR or N-CR or PR MR or SD or PD or NE		ý.	
p-value [c]			
Odds ratio (len/D:len/d) (95% CI)[d]			
Dichotomized response (Response incl. MR) CR or N-CR or PR or MR SD or PD or NE	N.		
p-value [c]			
Odds ratio (len/D:len/d) (95% CI)[d]			
Note: Response in this table is based on the review of IRAC=Independent Response Assessment Committee [a] Response is the best assessment of response during	all lymphoma assessment data the treatment phase of the s	a using modified EBMT criteria.	

- [b] Including patients who did not have adequate data for response assessment at baseline and/or post-baseline prior to the use of any non-protocol anti-lymphoma therapy. [c] Probability from Fisher's Exact test. [d] CI=Confidence Interval