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

The information contained in the attached report is the property of Celgene and should not be shared or used for any purpose other than that for which it was provided.

Celgene is committed to providing information about its clinical trials to researchers and patients with the goal of furthering science and enhancing healthcare worldwide. Laws and regulations require, however, that Celgene protects patient privacy. The company may further have legal or contractual obligations not to disclose commercial or technical information provided by or related to certain partner companies or vendors.

The attached report is presented in its original format, but certain information has been redacted in order to comply with the aforementioned obligations or to protect Celgene's confidential commercial information. The redactions are based on the following principles:

- Redacted information has been replaced by grey space, maintaining original spacing and pagination.
- Any information that might allow the identification of individuals has been redacted for anonymization.
- Attachments to this report that contain confidential information are not made available. Such attachments include those that contain identifiable patient information, such as subject listings, narratives, and profiles. They also may contain confidential commercial information such as methodologies, and hypothesis generating and exploratory analyses.
- Cross-references to these attachments (such as links to subject listings in Section 16.2) are not redacted from the body of the report. However, the hyperlinks in the electronic document are no longer functional.
- Information about Celgene vendors and their services are redacted because many contracts prohibit disclosure of that information. Further, laws and regulations prevent us from disclosing certain information about our vendors or their services because it is protected by copyright.

Information about Celgene's redaction policies and the availability of additional data from this report may be found at http://www.celgene.com/research-development/clinical-trials/clinical-trials-data-sharing/.

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:

26JUL2010

Prepared by:

Celgene International

Route de Perreux, 1

2017 Boudry, Switzerland

CONFIDENTIAL

The information contained in this document is regarded as confidential and, except to the extent necessary to obtain informed consent, may not be disclosed to another party unless such disclosure is required by law or regulations. Persons to whom the information is disclosed must be informed that the information is confidential and may not be further disclosed by them.

TABLE OF CONTENTS

SIGNATU	RE PAGE	6
1.	LIST OF ABBREVIATIONS	7
2.	INTRODUCTION	9
3.	OBJECTIVES	10
4.	INVESTIGATIONAL PLAN	11
4.1.	Overall Study Design and Plan	11
4.1.1.	Discussion of Study Design	
4.2.	Study Endpoints	12
4.3.	Stratification, Randomization and Blinding	12
4.4.	Sample Size	13
4.5.		
5.	GENERAL STATISTICAL CONSIDERATIONS	
5.1.	Reporting Conventions	15
5.1.1.	Dates and partial dates imputation	15
5.1.2.	Calculations Using Dates	16
5.1.3.	Calculation of Cycles	16
5.2.	Analysis Populations	17
5.2.1.	Intent-to-Treat Population	17
5.2.2.	Full Analysis Set Population	17
5.2.3.	Per Protocol Population	17
5.2.4.	Safety Population	17
6.	PATIENT DISPOSITION	18
7.	DEMOGRAPHICS AND BASELINE CHARACTERISTICS	19
7.1.	Demographics	19
7.2.	Baseline Clinical Characteristics	19
7.3.	Medical History	19
7.4.	Prior Therapy	19
7.5.	Prior Medications	20
8.	STUDY TREATMENTS AND EXTENT OF EXPOSURE	21
8.1.	Treatment Duration	21

8.2.	Cumulative Dose	21
8.3.	Dose Intensity	21
8.4.	Relative Dose Intensity	21
8.5.	Dose Modification	22
9.	CONCOMITANT MEDICATIONS	24
10.	EFFICACY ANALYSIS	25
10.1.	General Statistical Methods	25
10.1.1.	Time to event endpoints	25
10.1.2.	Categorical endpoints	26
10.1.3.	Quality of Life endpoints	
10.2.	Expert Review of Disease Response	26
10.3.	Analysis of Primary Efficacy Endpoint	26
10.4.	Analyses of Secondary Efficacy Endpoints	29
10.4.1.	Overall response rate	29
10.4.2.	Duration of Response	29
10.4.3.	Tumor control rate	30
10.4.4.	Duration of Stable Disease	30
10.4.5.	Time to progression (TTP)	30
10.4.6.	Time to treatment failure (TTF)	30
10.4.7.	Time to tumor response (TTR)	30
10.4.8.	Overall Survival (OS)	30
10.5.	Subgroup Analysis	30
11.	SAFETY ANALYSIS	32
11.1.	Adverse Events	32
11.2.	Clinical Laboratory Evaluations	32
11.3.	Vital Sign Measurements	32
11.4.	Physical Examination	33
11.5.	Electrocardiogram	33
12.	QUALITY OF LIFE ANALYSIS	34
12.1.	EORTC QLQ-C30	34
12.2.	Analysis of Quality of Life Scales	36
13.	INTERIM ANALYSIS	37
13.1.	General Information	37

Statistical Annuals a for Control of Aluba	Celgene International
Statistical Approaches for Control of Alpha	
REFERENCES	
APPENDICES	40
Date Imputation Guideline	40
Impute Missing AE/ Prior or Concomitant Medications Start	Dates40
Cycle derivation Guideline	41
Endpoints derivation	44
Laboratory Values	45
Tables and listings shells	
E PROPRIE	
	Date Imputation Guideline Impute Missing AE/ Prior or Concomitant Medications Start Cycle derivation Guideline Endpoints derivation

LIST OF TABLES

Table 1:	Abbreviations and Specialist Terms	7
Table 2:	Confidence Intervals	13
Table 3:	InvC drug recommended dose	22
Table 4:	Censoring Rules for Time to event (Progression and/or Death) Endpoints	27
Table 5:	Method b: Censoring Rules for Time to event (Progression and/or Death) Endpoints sensitivity analysis	
Table 6:	Method c: Censoring Rules for Time to event (Progression and/or Death) Endpoints sensitivity analysis	29
Table 7:	EORTC QLQ-C30 scores	
Table 8:	Response percentage and 95% exact confidence interval	
CF)		

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol (CC-5013-MCL-002	C	lgene International	
	SIGNATURE PAGE		11	
Project Statistician			<u>, , , , , , , , , , , , , , , , , , , </u>	
Signature		15		1 ⁰
Printed Name		Date		
Head of Statistics				
Signature		1		
Printed Name		87		
Clinical Research Physician			5	
Signature	0R1Fr.			1
Printed Name	0 [×]			
Medical Writer		11		
Signature Printed Name				
		-		
Confidential and Proprietary	6			,

Confidential and Proprietary

,

6

Lenalidomide/C	CC-5013
Statistical Analy	ysis Plan. Protocol CC-5013-MCL-002

Celgene International

SIGNATURE PAGE

Project Statistician		
		5
Signature		$\mathbf{\nabla}$
Printed Name	Date	
Head of Statistics	.0	
Signature		
	24	
Printed Name		
Clinical Research Physician		
R		
Signature		
Printed Name	Date	
Medical Writer		
Signature		
Printed Name	Date	

>

LIST OF ABBREVIATIONS 1.

Table 1: **Abbreviations and Specialist Terms**

Abbreviation or Specialist Term	Explanation
AE	Adverse event
BSA	Body surface area
CR	Complete response
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
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
КМ	Kaplan Meier
Len	Lenalidomide
MCL	Mantle Cell Lymphoma
MedDRA	Medical Dictionary for Drug Regulatory Activities
NCI-CTC	National Cancer Institute Common Toxicity Criteria
ORR	Objective response rate
OS	Overall survival
PD	Progressive disease

Abbreviation or Specialist Term	Explanation
PFS	Progression-free survival
PI	Principal InvestigatorThe investigator who leads the study conduct at an individual study center.Every study center has a principal investigator.
PP	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
TEAE	Treatment emergent adverse event
TTF	Time to treatment failure
ТТР	Time to tumor progression
TTR	Time to response
WHO	World Health Organization

2. 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 $SAS^{\ensuremath{\mathbb{R}}}$ *Version 9.1*.

GENEPR

3. 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 have relapsed after or are refractory to at least 1 and up to 3 prior chemotherapy regimens.

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 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.
- To investigate the health-related quality of life (QoL) of patients treated with lenalidomide or investigator's choice single agent treatment.

Confidential and Proprietary

FIL

4. INVESTIGATIONAL PLAN

4.1. 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 have relapsed after or are refractory to at least 1 and up to 3 prior lines of therapy.

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 \geq 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.

4.1.1. Discussion of Study Design

• Duration of Treatment

Patients will be treated until progression in this study.

• Study Population

Patients with MCL who have relapsed after and up to 3 relapses 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.

4.2. 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 progression (TTP)
- Time to treatment failure (TTF)
- Time to tumor response (TTR)
- Overall survival (OS)
- Safety
- Quality of Life (EORTC QLQ-C30 questionnaire)

4.3. 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).

4.4. 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 Confid	ence 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.

FLGENTE PROPRIETARY INFORMATION **Changes to the Planned Protocol Analysis** 4.5.

Confidential and Proprietary

5. GENERAL STATISTICAL CONSIDERATIONS

5.1. 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.

5.1.1. 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.

5.1.2. 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.

5.1.3. 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 15.2. 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.

5.2. 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.

5.2.1. 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.

5.2.2. 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.

5.2.3. 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.

5.2.4. 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).

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.

6. **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.

FILSEN

7. 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.

7.1. 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)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.

7.2. 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.

7.3. 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).

7.4. **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.

FIL CHARDER

MFC

7.5. **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.

2111

8. STUDY TREATMENTS AND EXTENT OF EXPOSURE

8.1. 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.

8.2. 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.

8.3. 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.

8.4. **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	1 -2 g/m ² 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:InvC drug recommended dos

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.

8.5. 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.

GENEPROR

Celgene International

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.

9. 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.

CENEPR

10. 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.

10.1. General Statistical Methods

10.1.1. Time to event endpoints

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.

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>).

10.1.2. 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.

10.1.3. 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.

10.2. 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.

10.3. 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.

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
	Q	

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

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	n of clinical progression Scheduled visit (or next scheduled visit if between visits)		
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	

 $P\overline{D} = progressive disease.$

10.4. Analyses of Secondary Efficacy Endpoints

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

10.4.1. 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.

10.4.2. 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.

10.4.3. Tumor control rate

Rates for CR, CRu, PR, and SD.

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

10.4.4. 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.

10.4.5. 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.

10.4.6. 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.

10.4.7. 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.

10.4.8. 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.

10.5. Subgroup Analysis

Subgroup analyses will be conducted in an exploratory manner 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)
- 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.

EL-

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.

C

11. 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.

11.1. 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.

11.2. 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.

11.3. 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.

11.4. 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.

11.5. 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.

FL

12. QUALITY OF LIFE ANALYSIS

12.1. EORTC QLQ-C30

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	Fatigue	Constipation	Global QoL
(items 1 to 5)	(items 10, 12, 18)	(item 16)	(items 29, 30)
Role	Pain	Diarrhea	
(items 6, 7)	(items 9, 19)	(item 17)	
Cognitive	Nausea / Vomiting	Sleep	
(items 20,25)	(items 14, 15)	(item 11)	
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.

12.2. 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.

official and a second second

13. INTERIM ANALYSIS

13.1. 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.

Statistical Approaches for Control of Alpha 13.2.

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

14. **REFERENCES**

Cheson 1999 - please add complete reference

Collett, D. Modelling Binary Data. 1991; London: Chapman & Hall.

Collett, D. *Modelling Survival Data in Medical Research Second Edition*. 2003; London: Chapman & Hall.

Determann O et al.; European Mantle Cell Lymphoma Network and the German Low Grade Lymphoma Study Group.Ki-67 predicts outcome in advanced-stage mantle cell lymphoma patients treated with anti-CD20 immunochemotherapy: results from randomized trials of the European MCL Network and the German Low Grade Lymphoma Study Group. Blood. 2008 Feb 15; 111(4):2385-7.

Fayers PM, Weeden S, Curran D on behalf of the EORTC Quality of Life Study Group. EORTC QLQ-C30 Reference Values. In: EORTC, 1998. ISBN: 2-930064-11-0.

Guidance for Industry Clinical Trial Endpoints for the Approval of Cancer Drugs and Biologics. FDA, May2007

Hess G, et al., Phase III Study to Evaluate Temsirolimus Compared With Investigator's Choice Therapy for the Treatment of Relapsed or Refractory Mantle Cell Lymphoma. J Clin Oncol 27:3822-3829.

Klein J.P, Moeschberger ML. Survival Analysis: Techniques for Censored and Truncated Data, 1997; New York: Springer-Verlag.

Mosteller RD: Simplified Calculation of Body Surface Area. N Engl J Med 1987 Oct 22;317(17):1098 (letter)

Osoba D, Rodrigues G, Myles J, Zee B, Pater J. Interpreting the significance of changes in health-related quality-of-life scores. J Clin Oncol 1998;16(1):139-44.

Stead ML, Brown JM, Velikova G, Kaasa S, Wisloff F, Child JA, et al. Development of an EORTC questionnaire module to be used in health-related quality-of-life assessment for patients with multiple lymphoma. European Organization for Research and Treatment of Cancer Study Group on Quality of Life. Br J Haematol 1999 Mar;104(3):605-11.

Witzig TE, Reeder CB, Polikoff J, et al. Initial Results from an International Study in Relapsed/Refractory Aggressive Non-Hodgkin s Lymphoma to Confirm the Activity, Safety and Criteria for Predicting Response to Lenalidomide Monotherapy. Blood (ASH Annual Meeting Abstracts), Nov 2007; 110: 2572.

NATION

15. APPENDICES

15.1. Date Imputation Guideline

15.1.1. 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

Celgene International

- 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.

15.2. 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

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;

Celgene International

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>

Confidential and Proprietary

42

Lenalidomide/CC-5013 Celgene International Statistical Analysis Plan. Protocol CC-5013-MCL-002 -ORMATIC cumdur=0;prevcum=0; goto skip; end; run; , AF TARY OPRIFE GENEPR Confidential and Proprietary 43

Celgene International

TION

15.3. 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 44

AIION

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

15.4. 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..

45

Celgene International

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	SI Unit	Ferr	ales	Male	
Test	Range Unit	Factor	SI UNIT	Low	High	Low	High
	10^6/uL	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
	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
Red Blood Cell	10^12/L	X 1	10 ¹² /L	3.9	5.2	4.4	5.8
Count (RBC)	k/uL	÷ 1000	10 ¹² /L	3.9	5.2	4.4	5.8
	10^6/mm^3	x 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
	M/mL	÷ 1000	10 ¹² /L	3.9	5.2	4.4	5.8
	g/dL	x 0.62058	mmol/liter	7.4	9.9	8.1	11.2
Hemoglobin	g/L	x 0.062058	mmol/liter	7.4	9.9	8.1	11.2
	mmol/L	X 1	mmol/liter	7.4	9.9	8.1	11.2
	G		18-44 years				
Hematocrit	%	X 0.01	fraction of red blood cells	0.35	0.45	0.39	0.49

Lenalidomide/CC-5 Statistical Analysis	013 Plan. Protocol CC-5013	8-MCL-002	Celgene Interna	tional			2					
	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					
	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					
	Proportion of 1.0	X 1	fraction of red blood cells	0.35	0.45	0.39	0.49					
	10^3/uL	X 1	10 ⁹ /L	130	400	130	400					
	10^9/L	X 1	10 ⁹ /L	130	400	130	400					
	k/uL	X 1	10 ⁹ /L	130	400	130	400					
Platelets	cells/mcL	÷ 1000	10 ⁹ /L	130	400	130	400					
i latelets	10^3/mm^3	X 1	10 ⁹ /L	130	400	130	400					
	thous/mm^3	X1	10 ⁹ /L	130	400	130	400					
	1000cumm	X 1	10 ⁹ /L	130	400	130	400					
	k/mL	÷ 1000	10 ⁹ /L	130	400	130	400					
White Blood Cells	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					

Lenalidomide/CC-50 Statistical Analysis	013 Plan. Protocol CC-5013	-MCL-002	Celgene Interna	tional			2
	k/uL	X 1	10 ⁹ /L	4.5	11.0	4.5	11.0
	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
	k/mL	÷1000	10 ⁹ /L	4.5	11.0	4.5	11.0
	10^3/uL	X 1	10 ⁹ /L	0.0	0.03	0.0	0.03
	10^9/L	X 1	10 ⁹ /L	0.0	0.03	0.0	0.03
	k/uL	X 1	10 ⁹ /L	0.0	0.03	0.0	0.03
Absolute basophils	cells/mcL	÷1000	10 ⁹ /L	0.0	0.03	0.0	0.03
Absolute basophils	10^3/mm^3	X 1	10 ⁹ /L	0.0	0.03	0.0	0.03
	thous/mm^3	X1	10 ⁹ /L	0.0	0.03	0.0	0.03
	1000cumm	X 1	10 ⁹ /L	0.0	0.03	0.0	0.03
	k/mL	÷ 1000	10 ⁹ /L	0.0	0.03	0.0	0.03
Absolute	10 ^3/u L	X 1	10 ⁹ /L	0.0	0.8	0.0	0.8
eosinophils	10^9/L	X 1	10 ⁹ /L	0.0	0.8	0.0	0.8

Lenalidomide/CC-5 Statistical Analysis	5013 Plan. Protocol CC-5013	-MCL-002	Celgene Interna	tional		4		
<u></u>	k/uL	X 1	10 ⁹ /L	0.0	0.8	0.0	0.8	
	cells/mcL	÷1000	10 ⁹ /L	0.0	0.8	0.0	0.8	
	10^3/mm^3	X 1	10 ⁹ /L	0.0	0.8	0.0	0.8	
	thous/mm^3	X 1	10 ⁹ /L	0.0	0.8	0.0	0.8	
	1000cumm	X 1	10 ⁹ /L	0.0	0.8	0.0	0.8	
	k/mL	÷1000	10 ⁹ /L	0.0	0.8	0.0	0.8	
	10^3/uL	X 1	10 ⁹ /L	0.16	0.46	0.16	0.46	
	10^9/L	X 1	10 ⁹ /L	0.16	0.46	0.16	0.46	
	k/uL	X 1	10 ⁹ /L	0.16	0.46	0.16	0.46	
Absolute	cells/mcL	÷1000	10 ⁹ /L	0.16	0.46	0.16	0.46	
lymphocytes	10^3/mm^3	X 1	10 ⁹ /L	0.16	0.46	0.16	0.46	
	thous/mm^3	X 1	10 ⁹ /L	0.16	0.46	0.16	0.46	
	1000cumm	X1	10 ⁹ /L	0.16	0.46	0.16	0.46	
	k/mL	÷1000	10 ⁹ /L	0.16	0.46	0.16	0.46	
	10^3/uL	X 1	10 ⁹ /L	0.04	0.11	0.04	0.11	
	10^9/L	X 1	10 ⁹ /L	0.04	0.11	0.04	0.11	
Absolute monocytes	k/uL	X 1	10 ⁹ /L	0.04	0.11	0.04	0.11	
	cells/mcL	÷ 1000	10 ⁹ /L	0.04	0.11	0.04	0.11	
	10^3/mm^3	X 1	10 ⁹ /L	0.04	0.11	0.04	0.11	

Lenalidomide/CC-5 Statistical Analysis	013 Plan. Protocol CC-501	3-MCL-002	Celgene Interna	ational			
	thous/mm^3	X 1	10 ⁹ /L	0.04	0.11	0.04	0.11
	1000cumm	X 1	10 ⁹ /L	0.04	0.11	0.04	0.11
	k/mL	÷ 1000	10 ⁹ /L	0.04	0.11	0.04	0.11
	10^3/uL	X 1	10 ⁹ /L	0.45	0.75	0.45	0.75
	10^9/L	X 1	10 ⁹ /L	0.45	0.75	0.45	0.75
	k/uL	X 1	10 ⁹ /L	0.45	0.75	0.45	0.75
Absolute	cells/mcL	÷ 1000	10 ⁹ /L	0.45	0.75	0.45	0.75
neutrophils	10^3/mm^3	X 1	10 ⁹ /L	0.45	0.75	0.45	0.75
	thous/mm^3	X 1	10 ⁹ /L	0.45	0.75	0.45	0.75
	1000cumm	X 1	10 ⁹ /L	0.45	0.75	0.45	0.75
	k/mL	÷ 1000	10 ⁹ /L	0.45	0.75	0.45	0.75
MCV	μm^3	X 1.00	fl	78	102	78	100
IVICV	fl	X 1.00	fl	78	102	78	100
Chemistry							

<u>Chemistry</u>

Test	Test Normal Conversion		SI Unit	Females		Male	
Range U	Range Unit	Factor	SI OMI	Low	High	Low	High
Sodium	mmol/L	X 1.00	mmol/liter	135	145	135	145

Lenalidomide/CO Statistical Analys	C-5013 sis Plan. Protocol CC-3	5013-MCL-002		Celgene Inte	rnational		4
	mEq/L	X 1.0	mmol/liter	135	145	135	145
Deterior	mmol/L	X 1.00	mmol/liter	3.5	5.1	3.5	5.1
Potassium	mEq/L	X 1.0	mmol/liter	3.5	5.1	3.5	5.1
	mmol/L	X 1.00	mmol/L	95	108	95	108
Chloride	mEq/L	X 1.0	mmol/L	95	108	95	108
Creatinine	mg/dL	X 88.4	umol/liter	53	97	62	105
Creatinine	umol/L	X 1	umol/liter	53	97	62	105
	mg/dL	x 0.05551	mmol/liter	3.9	6.1	3.9	6.1
Glucose	mmol/L	X 1	mm ol/liter	3.9	6.1	3.9	6.1
	g/dL	X 55.51	mmol/liter	3.9	6.1	3.9	6.1
DUN	mg/dL	x 0.357	mmol/liter	2.9	8.9	2.9	8.9
BUN	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
	mg/dL	X 0.01	g/liter	31	43	31	43
Calcium (serum)	mg/dL	x 0.25	mmol/liter	2.1	2.6	2.1	2.6

Lenalidomide/CC-5013

Statistical Analys	sis Plan. Protocol CC-	5013-MCL-002		Celgene International			4
	mmol/L	X 1	mmol/liter	2.1	2.6	2.1	2.6
Dhaanhaana	mg/dL	X 0.323	mmol/L	0.81	1.45	0.81	1.45
Phosphorus	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
	U/L	X0.01667	ukat/L	0.17	0.68	0.17	0.68
ALT (SGPT)	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
Total Bilirubin	mg/dL	17.1	umol/liter	0	17	0	17

 \mathbf{i}

Lenalidomide/CO Statistical Analys	C-5013 sis Plan. Protocol CC-:	5013-MCL-002		Celgene Inte	rnational		2			
	umol/L	X 1	umol/liter	0	17	0	17			
	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			
Lactate Dehydrogenase (LDH)	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			
	IU/L	X0.01667	ukat/L	1.8	3.4	1.8	3.4			
	> 60 years									
	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 protein	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	÷1000	mmol/L	0.13	0.39	0.26	0.45			
Uric acid	mg/dL	X 0.0595	mmol/L	0.13	0.39	0.26	0.45			
			>	60 years						
	umol/L	÷ 1000	mmol/L	0.2	0.43	0.25	0.47			

Lenalidomide/C Statistical Analy	C-5013 sis Plan. Protocol CC-	5013-MCL-002		Celgene Inte	rnational	4
	mg/dL	X 0.0595	mmol/L	0.2	0.43	0.25 0.47
<u>TSH</u>						MAT

Test	Normal	Conversion	SI Unit	Females		Ma	ale			
	Range Unit	Factor		Low	High	Low	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			
TOU	mIU/L	X 1	mU/L	0.32	5	0.32	5			
TSH	MIU/mL	X 1	mU/L	0.32	5	0.32	5			
	uUI/ML or μUI/ML	X 1	mU/L	0.32	5	0.32	5			
	mME/L									
	UIU/mL	X 1	mU/L	0.32	5	0.32	5			
Free T3	ng/dL	X 15.4	pmol/L	4.0	7.4	4.0	7.4			

Lenalidomide/C	CC-5013 <u>ysis Plan. Protocol CC-</u>	5013-MCL-002		Celgene Inte	rnational		4
	nmol/L	X 1000	pmol/L	4.0	7.4	4.0	7.4
	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	35.0	10.3	35.0
	nmol/L	X 1000	pmol/L	10.3	35.0	10.3	35.0
Free T4	pg/mL	X 1.287	pmol/L	10.3	35.0	10.3	35.0
	ng/dL	X 12.87	pmol/L	10.3	35.0	10.3	35.0
	pmol/L	X 1	pmol/L	10.3	35.0	10.3	35.0

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)

Lenalidomide/CC-5013 <u>Statistical Analysis Plan. Protocol CC-5013-MCL-002</u> 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

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

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.Confidential and Proprietary56

Celgene International

Celgene International

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:

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

Confidential and Proprietary

57

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-MCL-002 Step 4: Calculate p for 22 U/L based on formula a):

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

Celgene International

RMATH

Step 6: NCI-CTC grade = 0, since the value is within normal limits.

15.5. Tables and listings shells

The presented shells are not exhaustive.

Non efficacy Tables

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

Celgene International



Page xx of xx DB (Interim) Lock Date:

Table 14.1.2 Demographic and Baseline Characteristics - (Safety Population)

ge (years)	(N=XX)	(N=XX)	(N=XX)
e (years)			
		0	
n	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median	XX	XX	XX
Min, Max	XX, XX	xx, xx	XX, XX
ge 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)
EX	n (%)	n (%)	n (%)
Male	XX (XX)	XX (XX)	XX (XX)
Female	XX (XX)	xx (xx)	XX (XX)
Missing	XX (XX)	XX (XX)	XX (XX)
ace [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)
BMI (units)[b]			
N	XX	XX	XX
Mean	XX	XX	XX
SD	XX	XX	XX
Median Min, Max	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

Celgene International

Page xx of **xx** DB (**Interim**) Lock Date:

Celgene Corporation Protocol:

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

	Treatment A	Treatment B	Total	1
	(N=XX)	(N=XX)	(N=X	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	(X>
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	(X)
Gout	xx (xx)	XX (XX)	XX	(X)
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	(X)
Hypertriglyceridaemia	XX (XX)	XX (XX)	XX	(X2
Hyponatraemia	XX (XX)	XX (XX)	XX	(X)
Lactose intolerance	XX (XX)	XX (XX)	XX	(X2
Obesity	XX (XX)	XX (XX)	XX	(X)
Vitamin B12 deficiency	XX (XX)	XX (XX)	XX	(X2
Anorexia	XX (XX)	XX (XX)	XX	(X)
Appetite decreased NOS	XX (XX)	XX (XX)	XX	(X)
Dehydration	XX (XX)	XX (XX)	XX	(X3
Dyslipidaemia Fluid retention		XX (XX)	XX	(X2
	XX (XX)	XX (XX)	XX	(X)
Hyperkalaemia	XX (XX)	XX (XX)	XX	(X2
Hyperproteinaemia	XX (XX)	XX (XX)	XX	(xx)
Hypoalbuminaemia	XX (XX)	XX (XX)	XX	(X2
Hypomagnesaemia	XX (XX)	XX (XX)	XX	(X2
Impaired fasting glucose Metabolic acidosis NOS	xx (xx) xx (xx)	XX (XX) XX (XX)	XX XX	(X) (X)
				(X.

[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

Celgene International

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)

ATC3 Classification/	Treatme (N=XX)		Treatment B	Tot (N=XX)	al
Preferred Name[a]	(N=XX) n) (응)	(N=XX) n (%)	(N=XX) n	(응)
		(0)			
Subjects with at least one prior medication	XX	(XX)	XX (XX)	XX	(xx)
PLATELET AGGREGATION INHIBITORS EXCL. HEPARIN	XX	(XX)	XX (XX)	XX	(xx)
ACETYLSALICYLIC ACID	XX	(xx)	XX (XX)	XX	(xx)
CLOPIDOGREL SULFATE	XX	(XX)	XX (XX)	XX	(XX)
ASPIRINE	XX	(xx)	XX (XX)	XX	(xx)
ANAGRELIDE	XX	(XX)	XX (XX)	XX	(XX)
CLOPIDOGREL	XX	(xx)	XX (XX)	XX	(xx)
AGGRENOX	XX	(xx)	XX (XX)	XX	(xx)
ASA	XX	(xx)	XX (XX)	XX	(xx)
ASPIRIN PROTECT	XX	(xx)	XX (XX)	XX	(xx)
IRON CHELATING AGENTS	XX	(XX)	XX (XX)	XX	(XX)
DEFEROXAMINE	XX	(XX)	XX (XX)	XX	(xx)
DEFEROXAMINE MESILATE	xx	(XX)	XX (XX)	XX	(xx)
DEFERIPRONE	XX	(XX)	XX (XX)	XX	(xx)
DESFERAL	XX	(xx)	XX (XX)	XX	(xx)
OTHER PLAIN VITAMIN PREPARATIONS	XX	(XX)	XX (XX)	XX	(XX)
VITAMIN E	XX	(xx)	XX (XX)	XX	(xx)
PYRIDOXINE	XX	(XX)	XX (XX)	XX	(XX)
VITAMIN B	XX	(XX)	XX (XX)	XX	(xx)
TOCOPHEROL	XX	(xx)	XX (XX)	XX	(xx)
VITAMIN B6	XX	(XX)	XX (XX)	XX	(XX)
OPTOVIT	XX	(XX)	XX (XX)	XX	(XX)
PROTON PUMP INHIBITORS	XX	(XX)	XX (XX)	XX	(XX)
OMEPRAZOLE	XX	(XX)	XX (XX)	XX	(XX)
PANTOPRAZOLE	XX	(XX)	XX (XX)	XX	(XX)
ESOMEPRAZOLE	XX	(xx)	XX (XX)	XX	(XX)
LANSOPRAZOLE	XX	(XX)	XX (XX)	XX	(xx)
ACIPHEX	XX	(XX)	XX (XX)	XX	(XX)
PREVACID	XX	(XX)	XX (XX)	XX	(XX)
NEXIUM	XX	(XX)	XX (XX)	XX	(XX)
RABEPRAZOLE SODIUM	XX	(XX)	XX (XX)	XX	(XX)

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

Celgene International

Page xx of xx DB (Interim) Lock Date:

Celgene Corporation Protocol:

Table 14.1.5 Concomitant Medications - Number (%) of Subjects by Treatment Group (Safety Population)

	Treatment	A	Treatr		Total		
ATC3 Classification/	(N=XX)		(N=XX)		(N=XX	,	
Preferred Name[a]	n (%)	n	(응)	n	(%)	
)			
Subjects with at least one concomitant medication	XX (XX	x)	XX	(xx)	XX	(xx)	
ANILIDES	XX (X	x)	XX	(xx)	XX	(xx)	
ACETAMINOPHEN	XX (XX	x)	XX	(XX)	XX	(XX)	
TYLENOL	XX (XX	x)	XX	(XX)	XX	(XX)	
PARACETAMOL	XX (X	x)	XX	(XX)	XX	(xx)	
ACETAMINOPHEN W/HYDROCODONE BITARTRATE	XX (XX	x)	XX	(XX)	XX	(XX)	
NYQUIL	XX (X	x)	XX	(XX)	XX	(XX)	
EXCEDRIN /USA/	XX (X	x)	XX	(XX)	XX	(XX)	
GALENIC /ACETYLSAL.ACID/CAFFEINE/PARACET	XX (X	x)	XX	(XX)	XX	(XX)	
VICODIN	XX (X	x)	XX	(XX)	XX	(XX)	
ACETAMINOPHEN W/OXYCODONE	XX (X	x)	XX	(XX)	XX	(xx)	
GOODYS POWDERS	XX (X:	x)	XX	(XX)	XX	(XX)	
HYDROCODONE W/ACETAMINOPHEN	xx (x:	x)	XX	(XX)	XX	(xx)	
THOMAPYRIN	XX (X	x)	XX	(XX)	XX	(XX)	
TYLENOL ALLERGY SINUS	XX (XX	x)	XX	(XX)	XX	(xx)	
VICKS DAYQUIL	XX (X:	x)	XX	(XX)	XX	(xx)	
FLUOROQUINOLONES	XX (X	x)	XX	(XX)	XX	(XX)	
CIPROFLOXACIN	XX (X	,	XX	(XX)	XX	(xx)	
LEVOFLOXACIN	XX (X	,	XX	(XX)	XX	(xx)	
LEVAQUIN	XX (X		XX	(xx)	XX	(xx)	
GATIFLOXACIN	XX (X	,	XX	(XX)	XX	(xx)	
MOXIFLOXACIN	XX (X	,	XX	(XX)	XX	(xx)	
TAVANIC	xx (x:	,	XX	(xx)	XX	(xx)	
TEQUIN	xx (x:	,	XX	(XX)	XX	(xx)	
AVALOX	xx (x:	,	XX	(xx)	XX	(xx)	
NORFLOXACIN	XX (X	,	XX	(XX)	XX	(xx)	
AMINOALKYL ETHERS	XX (X	x)	XX	(XX)	XX	(XX)	
DIPHENHYDRAMINE	XX (X	,	XX	(XX)	XX	(XX)	
DIPHENHIDRAMINE HYDROCHLORIDE	xx (x: xx (x:	,	XX	(XX) (XX)	XX XX	(XX) (XX)	
TAVEGIL	XX (X. XX (X.	,	XX	(XX) (XX)	XX XX	(XX) (XX)	
DIMENHYDRINATE	xx (x: xx (x:	,	XX	(XX) (XX)	XX XX	(XX) (XX)	
VERTIGO-VOMEX	xx (x. xx (x:	,	XX XX	(XX) (XX)	XX XX	(XX) (XX)	
VERTICO VOMER	AA (A.	<u>~</u>]	***	(^^)	**	(^^)	

[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 FMF C/G Confidential and Proprietary 64

Celgene International

Page X of X

DB (Interim) Lock Date:

Celgene Corporation Protocol:

Treatment A Treatment B Treatment C (N=XX) (N=XX) (N=XX) Total Duration (days) [a] n XX XX XX Mean XX ΧХ XX SD XX 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 XI Total completed cycles [a] xx n xx xx Mean xx xx xx SD xx xx xx Median xx xx xx 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

Celgene International

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)		
		U			
ad at least one dose reduction due to AE					
Yes	XX (XX)	XX (XX)	XX (XX)		
No	xx (xx)	XX (XX)	XX (XX)		
ime to first dose reduction (days) due to AE[a]					
n	xx	xx	xx		
Mean	xx	xx	xx		
SD	xx	xx	xx		
	xx	xx	xx		
Min, Max	XX, XX	xx, xx	xx, xx		
ad second dose reduction due to AE			,		
		<i>(</i>)			
Yes	XX (XX)	XX (XX)	XX (XX)		
No	XX (XX)	XX (XX)	XX (XX)		
nterval 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		
AF PR					
a] Time to dose reduction is the time from first dose of study medication b] Time from the start of the first dose reduction to the start of the sec rogram path: ata source: D_SDSUMM	to the start of first cond dose reduction.	reduction.			
and Proprietary 66					

Celgene International

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 Populatio

	Treatment A (N=XX)	Treatment B (N=XX)	Treatment (N=XX)			
ad at least one dose interruption due to AE						
Yes	XX (XX)	XX (XX)	XX (XX)			
No	XX (XX)	XX (XX)	XX (XX)			
ime to first dose interruption (days) due to AE[a]						
n	ХХ	xx	XX			
Mean	xx	xx	XX			
SD	xx	xx	xx			
Median	жх	xx	xx			
Min, Max	xx, xx	xx, xx	xx, xx			
uration of first dose interruption (days) due to AE[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			
ad second dose interruption due to AE						
Yes	XX (XX)	XX (XX)	XX (XX)			
No	XX (XX)	XX (XX)	XX (XX)			
nterval 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

Celgene International

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)

EAE Category[a]	(N=	ment A XX) (%)	Treatm (N=X n		(N=X)	tment X) (%)
	\sim					
ubjects with at least one TEAE	XX	(xx)	XX	(xx)	XX	(xx)
ubjects with at least one TEAE related to study drug	xx	(xx)	XX	(xx)	XX	(xx)
ubjects with at least one CTC AE grade 3-4 (or severe) TEAE	XX	(xx)	XX	(xx)	XX	(xx)
ubjects with at least one CTC AE grade 3-4 (or severe) TEAE related to study drug	XX	(xx)	XX	(xx)	XX	(xx)
ubjects with at least one serious TEAE [b]	XX	(xx)	XX	(xx)	XX	(xx)
ubjects with at least one serious TEAE related to study drug	XX	(xx)	XX	(xx)	XX	(xx)
ubjects who discontinued due to TEAE	XX	(xx)	XX	(xx)	XX	(xx)
ubjects who discontinued due to TEAE adverse event related to study drug	XX	(xx)	XX	(xx)	XX	(xx)
ubjects with TEAE leading to a dose reduction	XX	(xx)	XX	(xx)	XX	(xx)
ubjects with TEAE leading to a dose interruption	XX	(xx)	XX	(xx)	XX	(xx)
ubjects who died[c] due to TEAE	XX	(xx)	XX	(xx)	XX	(xx)

[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		tment B =xx)		eatment =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)	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	XX (XX)	XX	(XX)	XX	(XX)
Lymphadenopathy	XX (XX)	XX	(XX)	XX	(XX)
Polycythaemia NOS	XX (XX)	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)
Kin 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)
Erytĥema	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)

	Treatment A (N=xx)		cment B =xx)		eatment =xx)
System organ class/ Preferred term [a]	(N-XX) n (%)	n	-xx) (%)	(N-	-xx) (%)
Subjects with at least one TEAE	xx (xx)	XX	(xx)	XX	(xx)
Blood and lymphatic system disorders	xx (x x)	XX	(xx)	XX	(xx)
Thrombocytopenia	XX (XX)	XX	(XX)	XX	(XX)
Neutropenia	XX (XX)	XX	(XX)	XX	(XX)
Anaemia NOS	XX (XX)	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	XX (XX)	XX	(XX)	XX	(XX)
Lymphadenopathy	XX (XX)	XX	(XX)	XX	(XX)
Polycythaemia NOS	XX (XX)	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

Page xx

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 (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 related to study drug	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)
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 erythematous	XX (XX)	XX (XX)	XX (XX)
Rash macular	xx (xx)	XX (XX)	XX (XX)
Rosacea	xx (xx)	XX (XX)	XX (XX)
Skin lesion NOS	xx (xx)	XX (XX)	XX (XX)
Sweating increased	xx (xx)	XX (XX)	XX (XX)
Urticaria NOS	xx (xx)	XX (XX)	XX (XX)
Acute febrile neutrophilic dermatosis	XX (XX)	XX (XX)	XX (XX)
Alopecia	XX (XX)	XX (XX)	XX (XX)
Contusion	XX (XX)	XX (XX)	XX (XX)
Exanthem	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 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.

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)

ystem organ class/ Preferred term / Intensity [a] ubjects with at least one adverse event by maximum grade (severity	Treatment A (N=xx) n (%)	Treatment B (N=xx) n (%)	Treatment C (N=xx) n (%)	Treatment D (N=xx)
	n (%)	n (%)	- n (2)	· ·
ubjects with at least one adverse event by maximum grade (severity			11 (0)	n (%)
ubjects with at least one adverse event by maximum grade (severity				
	y) 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)	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)
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 labyrinth 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)

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

Celgene Corporation Protocol:

Page xx of xx 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	Treatment B	Treatment C	Treatment I
	(N=xx)	(N=xx)	(N=xx)	(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)
	4	4		
Blood and lymphatic system 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)
Cardiac 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)
Ear and labyrinth disorders	ww (ww)	ww (ww)	<u></u>	ww (ww)
Grade 1/Mild	XX (XX) XX (XX)			
Grade 2/Moderate	XX (XX) XX (XX)	XX (XX) XX (XX)	XX (XX) XX (XX)	XX (XX) XX (XX)
Grade 3/Severe	, ,	, ,	, ,	, ,
	XX (XX)	XX (XX)	XX (XX)	XX (XX)
Grade 4/Life-threatening Missing Grade	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. 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

grades

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

Program path: Data source: AE

Celgene International

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) (N=xx) (N=xx)
ystem organ class/ Preferred term [a]	n (%) n (%) n (%)
ubjects with at least one NCI CTC Grade 5 adverse event	XX (XX) XX (XX) XX (XX)
nfections and infestations	XX (XX) XX (XX) XX (XX)
Pneumonia NOS	xx (xx)
Sepsis NOS	*** (**) *** (**) *** (**)
Bacteraemia	XX (XX) XX (XX) XX (XX)
Cellulitis	XX (XX) XX (XX) XX (XX)
Infection NOS	X X (XX) XX (XX) XX (XX)
Central line infection	
Clostridial infection NOS	
Enterobacter sepsis	
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)
lood and lymphatic system disorders	
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?)

Celgene International

Celgene Corporation Protocol:

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
	(N=XX)	(N=xx)	(N=XX)
System organ class/ Preferred term [a]	n (%)	n (%)	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)
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.

-ORMATIC **Celgene International**

R

Celgene International

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

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

	Treatment A Treatment B	Treatment C
System organ class/ Preferred term [a]	(N=xx) (N=xx) n (%) n (%) n	(N=xx) (%)
System ofgan class, fielefied term [a]		('0)
Subjects with at least one TESAE related to study drug	XX (X X) X X (XX) X	x (xx)
Blood and lymphatic system disorders	XX (XX) XX (XX) X	x (xx)
Neutropenia		x (xx)
Febrile neutropenia	XX (XX) XX (XX) X	x (xx)
Thrombocytopenia	XX (XX) XX (XX) X	x (xx)
Leukopenia NOS	XX (XX) XX (XX) X	x (xx)
Anaemia NOS	XX (XX) XX (XX) X	x (xx)
Pancytopenia	XX (XX) XX (XX) X	x (xx)
Infections and infestations	XX (XX) XX (XX) X	x (xx)
Pneumonia NOS	XX (XX) XX (XX) X	x (xx)
Cellulitis	XX (XX) XX (XX) X	x (xx)
Clostridial infection NOS	xx (xx) xx (xx) x	x (xx)
Infection NOS	XX (XX) XX (XX) X	x (xx)
Klebsiella sepsis	XX (XX) XX (XX) X	x (xx)
Lobar pneumonia NOS	XX (XX) XX (XX) X	x (xx)
General disorders and administration site conditions	XX (XX) XX (XX) X	x (xx)
Pyrexia	XX (XX) XX (XX) X	x (xx)
Asthenia	XX (XX) XX (XX) X	x (xx)
Fatigue	XX (XX) XX (XX) X	x (xx)
Respiratory, thoracic and mediastinal disorders		x (xx)
Pulmonary embolism		x (xx)
Pulmonary hypertension NOS		x (xx)
Pleural effusion		x (xx)
Respiratory distress	xx (xx)	x (xx)
Skin and subcutaneous tissue disorders		x (xx)
Rash NOS		x (xx)
Acute febrile neutrophilic dermatosis	XX (XX) XX (XX) X	x (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.

FORMATIC **Celgene International**

R

Celgene International

Celgene Corporation Protocol:

Page xx of xx DB (Interim) Lock Date:

								Le 14.3.2.10								
Number	(응)	of	Subjects	With	TEAE	Leading t	0	Discontinuation	of	Study	Drug	by	System	Organ	Class	Ξ
						(Sa	IE	ety Population)								

System organ class/ Preferred term [a] n Subjects with at least one TEAE leading to discontinuation of study drug xx Blood and lymphatic system disorders xx Neutropenia xx Febrile neutropenia xx Leukopenia NOS xx Anaemia NOS xx Pneumonia NOS xx Cellulitis xx Clostridial infection NOS xx Xx xx	J=xx) (%)	reatment B (N=xx) n (%)	Treatment C (N=xx) n (%)
Subjects with at least one TEAE leading to discontinuation of study drug xx Blood and lymphatic system disorders xx Neutropenia Febrile neutropenia Leukopenia NOS Anaemia NOS Pancytopenia Infections and infestations Pneumonia NOS Cellulitis Clostridial infection NOS xx			n (%)
Blood and lymphatic system disorders xx Neutropenia xx Febrile neutropenia xx Thrombocytopenia XX Leukopenia NOS Anaemia NOS Pancytopenia XX Infections and infestations xx Pneumonia NOS Cellulitis Clostridial infection NOS xx	(xx)	vv (vv)	
Blood and lymphatic system disorders xx Neutropenia xx Febrile neutropenia xx Thrombocytopenia XX Leukopenia NOS Anaemia NOS Pancytopenia XX Infections and infestations xx Pneumonia NOS Cellulitis Clostridial infection NOS xx	(xx)	WW (WW)	
Neutropenia xx Febrile neutropenia xx Thrombocytopenia xx Leukopenia NOS Anaemia NOS Pancytopenia xx Infections and infestations xx Pneumonia NOS Cellulitis Clostridial infection NOS xx		AA (XX)	XX (XX)
Febrile neutropeniaxxThrombocytopeniaxxLeukopenia NOSxxAnaemia NOSxxPancytopeniaxxInfections and infestationsxxPneumonia NOSxxCellulitisxxClostridial infection NOSxxInfection NOSxx	(xx)	xx (xx)	XX (XX)
Thrombocytopenia xx Leukopenia NOS Anaemia NOS Pancytopenia XX Infections and infestations xx Pneumonia NOS Cellulitis Xx Clostridial infection NOS XX	(XX)	XX (XX)	XX (XX)
Leukopenia NOS Anaemia NOS Pancytopenia Infections and infestations Pneumonia NOS Cellulitis Clostridial infection NOS Infection NOS	(xx)	XX (XX)	XX (XX)
Anaemia NOS Pancytopenia Infections and infestations Pneumonia NOS Cellulitis Clostridial infection NOS Infection NOS	(xx)	XX (XX)	XX (XX)
Pancytopenia Infections and infestations Pneumonia NOS Cellulitis Clostridial infection NOS Infection NOS	(XX)	XX (XX)	XX (XX)
Infections and infestations xx Pneumonia NOS xx Cellulitis Clostridial infection NOS xx Infection NOS xx	(XX)	XX (XX)	XX (XX)
Pneumonia NOS xx Cellulitis xx Clostridial infection NOS xx Infection NOS xx	(XX)	XX (XX)	XX (XX)
Cellulitis xx Clostridial infection NOS xx Infection NOS xx	(xx)	XX (XX)	XX (XX)
Clostridial infection NOS xx Infection NOS xx	(xx)	XX (XX)	XX (XX)
Infection NOS xx	(xx)	XX (XX)	XX (XX)
	(xx)	XX (XX)	XX (XX)
Wisheislis sensis	(xx)	XX (XX)	XX (XX)
Klebsiella sepsis xx	(xx)	XX (XX)	XX (XX)
Lobar pneumonia NOS xx	(XX)	XX (XX)	XX (XX)
General disorders and administration site conditions	(xx)	XX (XX)	XX (XX)
	,	XX (XX)	XX (XX)
	. ,	xx (xx)	XX (XX)
	,	XX (XX)	xx (xx)
Respiratory, thoracic and mediastinal disorders	(xx)	XX (XX)	XX (XX)
	· /	XX (XX)	XX (XX)
	,	XX (XX)	XX (XX)
	,	XX (XX)	XX (XX)
	. ,	XX (XX)	xx (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.

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)

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

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

				Le 14.				
Change	from	Baseline			QLQ-30 ation)	Questionnaire	by	Visit

Subscale			Actual Values		Char	nge from Basel	ine
		Group A	Group B	Group C	Group A	Group B	Group C
inctional Scale [a]							
Physical Functioning	Baseline N	××	XX	××	NA.	NA	ND
	Mean SD	XX.XX	XX-X XX.XX	XX - X XX - XX	NA NA	NA	NA NA
	Median Min, Max	XX XX, XX	XX XX, XX	XX XX, XX	NA NA	NA	NA NA
	Week 24 (Cycle 6)			and an	111	195	20
	N Mean	XX XX . X	XX X.XX	XX XX.XX	XX XX.X	XX XX.X	XX XX.X
	SD Median	XX.XX	XX.XX XX	XX.XX XX	XX.XX	XX.XX	XX.XX
	Min, Nex	xx, :xx	XX, XX	XX, XX	xx, xx	xx, xx	XX XX, XX
Role Functioning	Baseline	XX	XX	XX	NA.	NA	NA
	Mean SD	XX, XX XX, XX	X, XX XX, XX	XX, XX XX, XX	INA.	NA NA	NR_
	Median Min, Max	XX XX, XX	XX, XX	XX, XX	NA.	NA NA	NA, NA,
	Week 24 (Cycle 6)	any the	007.00	061 84	1.11	110	194
	N Mean	XX XX_X	XX XX, XX	XX X, XX	XX XX,X	XX x, xx	XX XX,X
	SD Medi.an	XX.XX XX	XX XX	XXXX	XX.XX XX	XX+XX	XX.XX
	Mi.n.e. Max	82	XX (XX	XX, XX	XX, XX	XX XX+ XX	XX XX; XX
(continue for all functional patameters)							
				X			
	RR.O	R					
GENE	RRO	22					
GENE	RRO	R					

n (%) n (%) <th< th=""><th>Improvement Improvement Improvement hangs in Physical XX (4XX) XX (4XX)<!--</th--><th>Improvement Improvement cole Group A Group B Group C n.(9) Group C Group C n.(9) Group C n.(9) Group C Group C n.(9) Group C Group C</th><th></th><th></th><th>(FAS Popula</th><th></th><th></th><th></th><th></th></th></th<>	Improvement Improvement Improvement hangs in Physical XX (4XX) XX (4XX) </th <th>Improvement Improvement cole Group A Group B Group C n.(9) Group C Group C n.(9) Group C n.(9) Group C Group C n.(9) Group C Group C</th> <th></th> <th></th> <th>(FAS Popula</th> <th></th> <th></th> <th></th> <th></th>	Improvement Improvement cole Group A Group B Group C n.(9) Group C Group C n.(9) Group C n.(9) Group C Group C n.(9) Group C			(FAS Popula				
Scale Group A Group B Group C Group C Group A Group C Group C Group C Group A Group C Group A Group C Group C Group C Group A Group C Group A Group C Group C Group C Group A Group A Group C	Cole Group A Group B Group C Group A Group C Group A Group C Group C Group A Group C Group C Group A Group C Group C <thgroup c<="" th=""> <thgroup c<="" th=""> <thgrou< th=""><th>Cale Group A Group B Group C <thgroup c<="" th=""> <thgroup c<="" th=""> <thgrou< th=""><th></th><th></th><th></th><th>8</th><th>, <u> </u></th><th></th><th>5</th></thgrou<></thgroup></thgroup></th></thgrou<></thgroup></thgroup>	Cale Group A Group B Group C Group C <thgroup c<="" th=""> <thgroup c<="" th=""> <thgrou< th=""><th></th><th></th><th></th><th>8</th><th>, <u> </u></th><th></th><th>5</th></thgrou<></thgroup></thgroup>				8	, <u> </u>		5
change in Physical XX (600)	hangs in FRysical XX (600) XX	hangs in Ffydial XX (4000)	Scale	Group A	Group B	Group C			Group C
<pre>httpp://www.intermail.com// comp is not included in the comp is not included inclu</pre>	henge in Constipue XX (NXX) XX	henge in Exciting In Exciting IX (4000) XC (40	Change in Physical						
Thonge in Emericanal XX (1923) XX (1	henge in BecLonal XC (1953) XZ (1953) XZ (1953) XX (1953	henge in BecLonal XC (NSC) XC	Change in Role	XX (%XX)	XX (NXX)	XX (%XX)	XX (%XX)	XX (9XX)	XX (9XX)
Thinge in Descloral XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) Thinge in Social XX (1020) Thinge in Failigue XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) Thinge in Failigue XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) Thinge in Constipation XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) XX (1020) Tomps in Constipation XX (1020) XX (1020)<	hange in Exectional XX (402) X	hange in Exectional XX (1020) XX (10	Change in Cognitive	XX (8XX)	XX (%XX)	XX (%XX)		XX (BXX)	XX (9XX)
Amage in Sacial XX (4XX)	henge in Social XX (NXC) XX (N	henge in Social XX (4X2) XX (4	Thange in Emotional	XX (8XX)	XX (\$XX)	XX (%XX)			
Annga In Fatigua XX (4000) XX (4000	hange in Fatigue XX (450) XX (hange in Fatigue XX (4XX) XX (Change in Social	XX (9XX)	(XX#) XX	XX (9XX)			
Amge in Pein XX (4003) XX	henge in Pain XX (4000) XX	henge in Pain XX (4XX) XX (4XX	Change in Fatigue	XX (9XX)	XX (%XX)	XX (9XX)	XX (\$XX)	XX (%XX)	
Annge in Neusee/Vonting XX (4003) X	hange in Neusee/Voniting XX (403) XX (4	hange in Neusee/Voniting XX (40X) XX (4	Change in Pain	XX (9XK)	XX (%XX)	XX (%XX)	XX (93X)		
Things in Constipution XX (NX)	hange in Constigation XX (MXX)	hampe in Constipation XX (%XX)	Change in Nausea/Voniting	XX (8XX)	XX (%XX)	XX (\$XX)	XX (9XX)		
tontine for all parameters) XX (NX) XX	continue for all parameters) XX (NX) X	zonzine for all parameters) XX (BXX) XX	Change in Constipation	XX (8XX)	XX (8XX)	XX (%XX)	XX (93X)	XX (%XX)	XX (\$XX)
oup A = Austria and Australia: Group B = UK and Ireland; Group C = Spain.	up A = Austria and Australia: Group B = UK and Ireland; Group C = Spain.	NP A = Australia: Group B = UK and Ireland; Group C = Spain.	(continue for all parameters)	XX (%XX)	XX (%XX)	XX (\$0XX)	XX (%XX)		
CHWE PROPRIE	CHME PROPRIE	GENE PROPRIE				6	87		
CHME PROPRIE	CHARDER CHARTER	CHME PROPRIE							
CENE PROF	CENEPROY	CEMERON			R				
CHME PRO	CHME PRO	CEMER		(×.				
				R					
				X					
	Ť	*							
			Ť						

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

-	rotocol CC-5013-MCL-002		gene Corporation	\sim
Efficacy Tables				
		Summary of TTE Population		
		ropulation	2	7.
	Statistics	Arm A	Arm B	Total
		(N = xxx)	(N = xxx)	(N = xxx)
Subjects included	Ν	XXX	XXX	XXX
Died	n(%)	XX (%)	XX (%)	XX (%)
Censored	n(%)	XX (%)	xx (%)	XX (%)
TTE since	Median	XX	XX	XX
randomization (weeks)				
	95% CI	(xx , xx)	(xx , xx)	(xx , xx)
Hazard Ratio (A:B)	HR (95 CI)		xx , x.xxx)	()
Log rank	Two sided P - value		XXX	
xyz Test	Two sided P - value		XXX	
uvw Test	Two sided P - value		XXX	
0.11				
TTE follow up	n(%)	xx (%)	XX (%)	xx (%)
	Median (min, max)	xx (xx , xx)	xx (xx , xx)xx	xx (xx , xx)xx
		O		
Footnote: Source: sas code location				
Source. sas code location	\circ			
	()			
	V			

	Su	mmary of TTE Survival Ra Population	tes	AID
	Arm A	Arm B	Arm A - B	
	(N = xxx)	(N = xxx)	(N = xxx)	
Endpoint / Time Points	Estimate (95% CI)	Estimate (95% CI)	Estimate (95% CI)	P - value
Endpoint #1				
Interval 1	xx (%)	xx (%)	xx (%)	0.xxx
Interval 2	xx (%)	xx (%)	xx (%)	0.xxx
Interval 3	xx (%)	xx (%)	xx (%)	0.xxx
Endpoint #2			A	
Interval 1	xx (%)	XX (%)	xx (%)	0.xxx
Interval 2	XX (%)	xx (%)	xx (%)	0.xxx
Interval 3	XX (%)	XX (%)	xx (%)	0.xxx
Endpoint #3				
Interval 1	xx (%)	xx (%)	XX (%)	0.xxx
Interval 2	XX (%)	xx (%)	xx (%)	0.xxx
Interval 3	XX (%)	XX (%)	XX (%)	0.xxx
		20,		
	GENI			

Lenalidomide/CC-5013 Statistical Analysis Plan. Protocol CC-5013-Mo	CL-002 Celgene Corporation	52
	Summary of Response Rates Population	
	len/D len/d Overa. n (%) n (%) n (%)	
<pre>Number of Patients: (N (%)) 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]</pre>	RAMEO	
Dichotomized response (Response not incl. MR) CR or N-CR or PR MR or SD or PD or NE 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	R	
p-value [c] Odds ratio (len/D:len/d) (95% CI)[d]	R	
Note: Response in this table is based on the re IRAC=Independent Response Assessment Committee [a] Response is the best assessment of response	view of all lymphoma assessment data using modified EBMT criteria. during the treatment phase of the study.	

[a] Kesponse is the best assessment of response during the treatment phase of the study.
[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