The GlaxoSmithKline group of companies

Division	:	Worldwide Development
Information Type	:	Reporting and Analysis Plan (RAP)
Title	:	Reporting and Analysis Plan for A Phase I, Open-Label, Single-Dose, Two-Part Study to Assess the Pharmacokinetics of Gepotidacin (GSK2140944) in Male and Female Adult Participants with Varying Degrees of Hepatic Impairment and in Matched Control Participants with Normal Hepatic Function
Compound Number	:	GSK2140944
Effective Date	:	29-JUN-2018

### **Description:**

- The purpose of this RAP is to describe the planned analyses and output to be included in the Clinical Study Report for Protocol BTZ117352.
- This RAP is intended to describe the safety, tolerability, and pharmacokinetic (PK) analyses required for the study.
- This RAP will be provided to the study team members to convey the content of the Statistical Analysis Complete (SAC) and Interim Analysis (IA) deliverable.

### **RAP Author(s):**

PPD		20 11 11 2010
Biostatistician II (Biostatistics, Early Development Services, PPD)		29-JUN-2018
PPD		20 IUN 2019
Pharmacokineti	cist (Biostatistics, PPD)	29-JUIN-2018

Copyright 2018 the GlaxoSmithKline group of companies. All rights reserved. Unauthorised copying or use of this information is prohibited.

# **RAP Team Approvals:**

Approver	Date	Approval Method
PPD		
Principal Statistician (Infectious Disease, Clinical Statistics)	29-JUN-2018	Email
PPD		
Principal Programmer/ Analyst (Infectious Disease, Clinical Statistics)	27-JUN-2018	Email
PPD		
SM Executive Medical Director (Infectious Disease, RD ID)	27-JUN-2018	Email
PPD		
Clinical Development Director (Infectious Disease, RD PCPS Therapy Area Delivery ID)	27-JUN-2018	Email
PPD	20 IUN 2018	Email
Manager (Clinical Data Management)	29-JUN-2018	Eman
PPD	27-IUN-2018	Fmail
Director (Clinical Pharmacology)	27 9011 2010	Linun
PPD Director (GCSP Medical SERM US)	27-JUN-2018	Email

# **Clinical Statistics and Clinical Programming Line Approvals:**

Approver	Date	Approval Method
PPD Director (Infectious Disease, Clinical Statistics)	27-JUN-2018	Email
PPD Programming Manager (Infectious Disease, Clinical Programming)	28-JUN-2018	Email

# TABLE OF CONTENTS

### PAGE

1.	INTRODUCTION				
2.	SUMM 2.1. 2.2. 2.3. 2.4.	ARY OF Changes Study Ot Study De Statistica	KEY PROTO to the Proto ojective(s) ar esign I Analyses	DCOL INFORMATION Docol Defined Statistical Analysis Plan nd Endpoint(s)	5 5 7 9
3.	PLANN 3.1. 3.2.	NED ANA Interim A Final Ana	LYSES nalyses alyses		10 10 10
4.	ANALY 4.1.	(SIS POP Protocol	ULATIONS Deviations		11 11
5.	CONS CONV 5.1. 5.2. 5.3.	IDERATIO ENTIONS Study Tro Baseline Other Co Conventi	DNS FOR D. eatment & S Definitions . onsiderations ons.	ATA ANALYSES AND DATA HANDLING Sub-group Display Descriptors	12 12 12 13
6.	STUD` 6.1.	Y POPULATION ANALYSES			
7.	PHARI 7.1.	VACOKIN Primary I 7.1.1. 7.1.2. 7.1.3. 7.1.4.	IETIC ANAL Pharmacokir Endpoint / V 7.1.1.1. 7.1.1.2. Summary N Population Statistical A 7.1.4.1.	YSES netic Analyses Variables Drug Concentration Measures Derived Pharmacokinetic Parameters Measure of Interest Analyses / Methods Statistical Methodology Specification	15 15 15 15 15 15 15 15 15 15
	7.2.	Seconda 7.2.1. 7.2.2. 7.2.3. 7.2.4.	ry Pharmaco Endpoint / V 7.2.1.1. 7.2.1.2. Summary N Population Statistical A 7.2.4.1.	okinetic Analyses Variables Drug Concentration Measures Derived Pharmacokinetic Parameters Measure of Interest Analyses / Methods Statistical Methodology Specification	
	7.3.	Explorate 7.3.1. 7.3.2. 7.3.3.	ory Pharmac Endpoint / V 7.3.1.1. 7.3.1.2. Summary N Population	cokinetic Analyses Variables Drug Concentration Measures Derived Pharmacokinetic Parameters Measure of Interest	19 19 19 19 20 20

		7.3.4.	Statistical A	nalyses / Methods	.20
			7.3.4.1.	Statistical Methodology Specification	.20
0	ол <b>г</b> гт		000		22
0.	8 1		SES Events Δnal		.22
	8.2	Adverse	Events of Sr	pecial Interest Analyses	.22
	8.3	Clinical	aboratory A	nalvses	22
	8.4.	Other Sa	fety Analyse	2S	.22
9.	REFE	RENCES.			.23
10.	APPE	NDICES			.24
	10.1.	Appendix	(1: Schedul	e of Activities	.24
		10.1.1.	Protocol De	efined Time and Events Table	.24
		10.1.2.	Protocol De	efined Safety and PK Assessments	.27
	10.2.	Appendix	c 2: Study Pł	nases and Treatment Emergent Adverse	
		Events			.28
		10.2.1.	Study Phas	es	.28
			10.2.1.1.	Study Phases for Concomitant Medication	.28
	40.0	10.2.2.	Treatment I	Emergent Flag for Adverse Events	.28
	10.3.	Appendix	3: Data Dis	play Standards & Handling Conventions	.29
		10.3.1.	Reporting F	Process	.29
		10.3.2.	Reporting C	Standarda for Dharmaaakinatia	.29
	10 /	Annendi		and Transformed Data	.30
	10.4.		General		31
		10.4.1.	Study Popu	Ilation	31
		10.4.3	Safety		31
	10.5.	Appendix	5: Reportin	g Standards for Missing Data	.33
		10.5.1.	Premature	Withdrawals	.33
		10.5.2.	Handling of	Missing Data	.33
			10.5.2.1.	Handling of Missing and Partial Dates	.33
	10.6.	Appendix	6: Values c	of Potential Clinical Importance	.34
		10.6.1.	ECG		.34
		10.6.2.	Vital Signs.		.34
	10.7.	Appendix	7: Abbrevia	ations & Trade Marks	.35
		10.7.1.	Abbreviatio	ns	.35
		10.7.2.	Trademarks	S	.36
	10.8.	Appendix	(8: List of D	ata Displays	.37
		10.8.1.	Data Displa	iy Numbering	.37
		10.8.2.	NOCK Exam		.31
		10.8.3.	Study Dopu	S	.37
		10.0.4.	Siduy Popu		. 30
		10.0.0.	Dharmacok	inetic Tables	.59
		10.0.0.	Pharmacok	inetic Figures	. <del>-</del> 0 42
		10.8.8	ICH Listing	S	44
		10.8.9	Non-ICH Li	stinas	47
					· · · ·

# 1. INTRODUCTION

The purpose of this reporting and analysis plan (RAP) is to describe the analyses to be included in the Clinical Study Report for Protocol BTZ117352

# 2. SUMMARY OF KEY PROTOCOL INFORMATION

# 2.1. Changes to the Protocol Defined Statistical Analysis Plan

Changes from the originally planned statistical analysis specified in the protocol are outlined in Table 1.

### Table 1 Changes to Protocol Defined Analysis Plan

Protocol		Reporting & Analysis Plan	
Statistical Analysis Plan		Statistical Analysis Plan Rationale for Changes	
•	Listings for hypersensitivity AEs	Such listings will not be produced regardless of	Tracking of hypersensitivity     AFs is not necessary for
	has occurred	event occurrence	this compound
	has occurred	event occurrence	this compound.

# 2.2. Study Objective(s) and Endpoint(s)

Objectives	Endpoints
Primary Objectives	Primary Endpoints
<ul> <li>To compare the plasma PK parameters of a 1500 mg oral of gepotidacin in normal healt participants to participants wit mild, moderate, and severe he impairment</li> </ul>	<ul> <li>Plasma gepotidacin AUC(0-∞) and Cmax, as data permit.</li> <li>hy</li> <li>h</li> <li>epatic</li> </ul>
Secondary Objectives	Secondary Endpoints
<ul> <li>To assess the safety and tolerability of gepotidacin administered as a 1500 mg or dose in normal healthy particip compared with participants wi mild, moderate, and severe he impairment</li> <li>To compare the secondary pla PK parameters of 1500 mg or dose of gepotidacin in normal healthy participants with participants with mild, moderate and severe hepatic impairmer</li> <li>To compare the urine PK parameters of a 1500 mg oral of gepotidacin in normal healthy participants with participants with mild, moderate and severe hepatic impairmer</li> </ul>	<ul> <li>12-lead safety ECG readings, change from baseline in vital sign measurements (blood pressure and heart rate), monitoring of AEs, toxicity grading of clinical laboratory test results, and physical examinations</li> <li>Plasma gepotidacin AUC(0-t), Tmax, tlag, CL/F, Vz/F, λz, and t1/2, as data permit</li> <li>Urine gepotidacin PK endpoints:         <ul> <li>Primary: Ae total, fe %, and CLr, as data permit</li> <li>Secondary: Ae(t1-t2), AUC(0-12), AUC(0-24), and AUC(0-48), as data permit</li> </ul> </li> </ul>

Objectives	Endpoints
mild, moderate, and severe hepatic	
impairment	
Exploratory Objectives	Exploratory Endpoints
To evaluate the saliva PK parameters of a 1500 mg oral dose of gepotidacin in normal healthy participants compared with participants with mild, moderate, and severe hepatic impairment	<ul> <li>Saliva gepotidacin PK endpoints:         <ul> <li>Primary: AUC(0-∞) and Cmax, as data permit</li> <li>Secondary: AUC(0-t), Tmax, λz, t1/2, CL/F, Vz/F, and saliva to unbound plasma AUC(0-t) and AUC(0-∞) ratios (RAUC) of gepotidacin, as data permit.</li> </ul> </li> </ul>

# 2.3. Study Design

# Overview of Study Design and Key Features

# Part 1

Group B: Participants with moderate hepatic impairment Group D: Participants with normal hepatic function

# PK requirements to continue to Part 2 Observed Mean Values: AUC <48 µg•hr/mL

Cmax <14 µg/mL

(Based on emerging data, and/or data that are not expected to exceed these requirements in participants with severe hepatic impairment or may require dose adjustment, participants in Part 2 will be enrolled.)

# Part 2

Group A: Participants with mild hepatic impairment (optional)<sup>1</sup> Group C: Participants with severe hepatic impairment<sup>2</sup> Group E: Participants with normal hepatic function (optional)<sup>3</sup>

- Based on emergent data from Part 1, participants with mild hepatic impairment (Group A) may not be enrolled in Part 2 if there is not a significant difference between participants with moderate hepatic impairment and participants with normal hepatic function.
- If AUC and/or Cmax are predicted to exceed the threshold, the dose may be adjusted for participants with severe hepatic impairment (Group C). Due to the potential difficulty in identifying eligible participants with severe hepatic impairment, the sponsor may stop the study prior to full enrollment in Part 2 provided that a minimum of 6 evaluable participants with severe hepatic impairment have been enrolled.
- <sup>3.</sup> Based on emergent data from Part 1, matching participants with normal hepatic function in Part 2 (Group E) may be enrolled (e.g. if a change in dose is needed or if the demographic data of the mild and/or severe hepatic impairment groups is not well matched to the moderate control data [Group D]).

Overview of Study Design and Key Features				
Design	Phase I, nonrandomized, open-label, parallel-group, multi-center, two-			
Features	Part study.			
	• <b>Part 1</b> : Approximately 16 participants, 8 with moderate hepatic impairment			
	(Group B) and 8 matched controls with normal nepatic function (Group D) will receive a single 1500 mg and does of genetidesin. Controls will be matched on			
	receive a single 1500 mg oral dose of gepolidacin. Controls will be matched on gepolidacin. Controls will be matched on			
	gender distribution, age (approximately $\pm$ to years), and bivit (approximately $\pm$ 20%).			
	• Part 2: Approximately 8 to 32 participants will receive a single oral dose of			
	gepotidacin. The dose is expected to be 1500 mg, but may be adjusted for			
	participants with severe hepatic impairment if AUC and/or Cmax are predicted to exceed the threshold.			
	Based on emergent data from Part 1, particpants with mild hepatic impairment			
	(Group A) may not be enrolled in Part 2 if there is not a significant difference			
	between participants with moderate hepatic impairment and participants with normal hepatic function.			
	Due to the potential difficulty in identifying eligible participants with severe			
	hepatic impairment, the sponsor may stop the study prior to full enrollment in			
	Part 2 provided that a minimum of 6 evaluable participants with severe hepatic			
	impairment have been enrolled.			
	Based on emergent data from Part 1, matching participants with normal			
	hepatic function in Part 2 (Group E) may be enrolled (e.g. if a change in dose is			
	needed or if the demographic data of the mild and/or severe hepatic			
	Impairment groups is not well matched to the moderate control data			
Dosing	<ul> <li>Participants will receive a single 1500 mg oral does of genetidasin delivered as</li> </ul>			
Dosing	<ul> <li>Failucipants will receive a single 1500 mg of uose of gepolidacin delivered as two 750 mg tablets. The dose may be adjusted in Part 2 for participants with</li> </ul>			
	severe hepatic impairment if AUC and/or Cmax are predicted to exceed the			
	threshold, based on emergent data from Part 1.			
Time and	See Appendix 1: Schedule of Activities			
Events				
Treatment	At Screening, participants will be enrolled to the appropriate groups based on			
Assignment	the classification as defined in the Food and Drug Administration (FDA)			
	Guidance for Industry, Pharmacokinetics in Patients with Impaired Hepatic			
	Function: Study Design, Data Analysis, and Impact on Dosing and Labeling			
	[DHHS, 2003]. Participants with hepatic impairment will be classified using the			
Intorim	Child-Pugn system. For more details, see Section 7.3 of the protocol.			
Δnalveie	<ul> <li>Formal interim analyses of the primary and secondary PK endpoints, Will be conducted following completion of Part 1 of the study: with possible</li> </ul>			
711013313	progression to Part 2 based on the following criteria:			
	Participants with mild henatic impairment may be enrolled in Part 2 if there			
	is a significant difference in pharmacokinetics between participants with			
	moderate hepatic impairment compared with participants with normal			
	hepatic function.			
	<ul> <li>Participants with severe hepatic impairment will be enrolled in Part 2</li> </ul>			
	provided that the PK requirements are met (observed mean values in			
	participants with moderate impairment do not exceed the threshold:			

Overview of Study Design and Key Features		
	AUC < 48 $\mu$ g•hr/mL and Cmax < 14 $\mu$ g/mL). The dose may be adjusted	
	for participants with severe hepatic impairment if either PK parameter is	
	predicted to exceed the threshold.	
	• No formal interim analyses of the safety endpoints will be done, but GSK will	
	review the safety data from Part 1 prior to proceeding to Part 2.	

# 2.4. Statistical Analyses

An estimation approach will be taken to characterize the PK of gepotidacin in subjects with mild, moderate, and severe hepatic impairment compared with matched subjects with normal hepatic function.

# 3. PLANNED ANALYSES

# 3.1. Interim Analyses

Formal interim analyses of the primary and secondary PK endpoints (as detailed in Section 7.1 and Section 7.2 of this document) will be conducted following completion of Part 1 of the study; with possible progression to Part 2 based on the following criteria:

- Participants with mild hepatic impairment may be enrolled in Part 2 if there is a significant difference in pharmacokinetics between participants with moderate hepatic impairment compared with participants with normal hepatic function.
- Participants with severe hepatic impairment will be enrolled in Part 2 provided that the PK requirements are met (observed mean values in participants with moderate impairment do not exceed the threshold: AUC < 48  $\mu$ g•hr/mL and Cmax < 14  $\mu$ g/mL). The dose may be adjusted for participants with severe hepatic impairment if either PK parameter is predicted to exceed the threshold.

No formal interim analyses of the safety endpoints will be done, but GSK will review the safety data from Part 1 prior to proceeding to Part 2.

# 3.2. Final Analyses

The final planned primary analyses will be performed after the completion of the following sequential steps:

- 1. All participants have completed the study as defined in the protocol
- 2. All required database cleaning activities have been completed and final database release and database freeze has been declared by Data Management.

Population	Definition / Criteria	Analyses Evaluated
Safety	<ul> <li>Consists of all subjects who receive at least 1 dose of study drug and have at least one postdose safety assessment.</li> </ul>	<ul> <li>Study Population</li> <li>Safety</li> </ul>
PK Population	<ul> <li>Consists of all subjects who received at least 1 dose of gepotidacin and have evaluable PK data for gepotidacin. A subject is considered to have evaluable PK data for gepotidacin if the subject has at least 1 measurable post-dose PK concentration value for gepotidacin that was not excluded from the analysis due to a protocol deviation.</li> </ul>	PK Concentration
PK Parameter	• Consist of all subjects in the PK Population, for whom valid and evaluable PK parameters were derived. This population will be used in the assessment and characterization of PK parameters.	<ul> <li>PK parameter</li> <li>PK statistical analysis</li> </ul>

# 4. ANALYSIS POPULATIONS

NOTES:

 Please refer to Appendix 8: List of Data Displays which details the population to be used for each display being generated.

# 4.1. **Protocol Deviations**

Important protocol deviations (including deviations related to study inclusion/exclusion criteria, conduct of the trial, patient management or patient assessment) will be summarized and listed.

Protocol deviations will be tracked by the study team throughout the conduct of the study in accordance with the Protocol Deviation Management Plan.

- Data will be reviewed prior to freezing the database to ensure all important deviations and deviations which may lead to exclusion from the analysis are captured and categorized on the protocol deviations dataset.
- This dataset will be the basis for the summaries and listings of protocol deviations.

A separate summary and listing of all inclusion/exclusion criteria deviations will also be provided. This summary will be based on data as recorded on the inclusion/exclusion page of the electronic case report form (eCRF).

# 5. CONSIDERATIONS FOR DATA ANALYSES AND DATA HANDLING CONVENTIONS

Treatment Group Descriptions <sup>[1]</sup>											
Study		Hepatic Impairment Group	Data Displays for Reporting								
Part	Code	Description	Description	Order <sup>[2]</sup>							
1, 2	D, E <sup>[3]</sup>	Normal Hepatic Function	Normal	1							
1	В	Moderate Hepatic Impairment	Moderate	3							
2	A <sup>[4]</sup>	Mild Hepatic Impairment (optional)	Mild	2							
2	C <sup>[5]</sup>	Severe Hepatic Impairment	Severe	4							

# 5.1. Study Treatment & Sub-group Display Descriptors

### NOTES:

- 1. Only groups that are present in the data will actually be presented.
- 2. Order represents treatments being presented in TFL, as appropriate.
- 3. Based on emergent data from Part 1, matching participants with normal hepatic function in Part 2 (Group E) may be enrolled (e.g., if a change in dose is needed or if the demographic data of the mild and/or severe hepatic impairment groups is not well matched to the moderate control data [Group D]). If there is no change in dose, then these two groups will be combined for presentation in the outputs.
- 4. Based on emergent data from Part 1, participants with mild hepatic impairment (Group A) may not be enrolled in Part 2 if there is not a significant difference between participants with moderate hepatic impairment and participants with normal hepatic function.
- 5. If AUC and/or Cmax are predicted to exceed the threshold, the dose may be adjusted for participants with severe hepatic impairment (Group C). Due to the potential difficulty in identifying eligible participants with severe hepatic impairment, the sponsor may stop the study prior to full enrollment in Part 2 provided that a minimum of 6 evaluable participants with severe hepatic impairment have been enrolled.

# 5.2. Baseline Definitions

For all endpoints (except as noted in baseline definitions) the baseline value will be the last available assessment prior to time of study drug administration, unless noted otherwise.

Parameter	Study Asses	Baseline Used in				
	Screening	Day -1	Day 1 (Pre-Dose)	Data Display		
Safety						
Hematology	Х	Х		Day -1		
Clinical Chemistry	Х	Х		Day -1		
12-Lead ECG	Х	Х	Х	Day 1 (Pre-Dose)		
Vital Signs	Х	Х	Х	Day 1 (Pre-Dose)		

NOTES:

 Unless otherwise stated, the mean of replicate assessments at any given time point will be used as the value for that time point.

Unless otherwise stated, if baseline data is missing no derivation will be performed and baseline will be set to missing.

# 5.3. Other Considerations for Data Analyses and Data Handling Conventions

Other considerations for data analyses and data handling conventions are outlined in the appendices:

Section	Component
10.2	Appendix 2: Study Phases and Treatment Emergent Adverse Events
10.3	Appendix 3: Data Display Standards & Handling Conventions
10.4	Appendix 4: Derived and Transformed Data
10.5	Appendix 5: Reporting Standards for Missing Data
10.6	Appendix 6: Values of Potential Clinical Importance

# 6. STUDY POPULATION ANALYSES

# 6.1. Overview of Planned Study Population Analyses

The study population analyses will be based on the Safety population, unless otherwise specified.

Study population analyses including analyses of subject's disposition, protocol deviations, demographic and baseline characteristics, prior and concomitant medications, and exposure and treatment compliance will be based on GSK Core Data Standards. Details of the planned displays are presented in Appendix 8: List of Data Displays.

#### PHARMACOKINETIC ANALYSES 7.

#### 7.1. **Primary Pharmacokinetic Analyses**

#### 7.1.1. Endpoint / Variables

#### 7.1.1.1. **Drug Concentration Measures**

Refer to Appendix 3: Data Display Standards & Handling Conventions (Section 10.3.3 Reporting Standards for Pharmacokinetic). Only total gepotidacin plasma PK concentrations will be measured and reported. Therefore, unbound plasma PK concentrations will be derived by multiplying the total plasma PK concentrations by 0.67, to correct for the low plasma protein binding of gepotidacin (33%) observed in previous studies.

#### 7.1.1.2. **Derived Pharmacokinetic Parameters**

Pharmacokinetic parameters will be calculated by standard non-compartmental analysis according to current working practices and using the currently supported version of WinNonlin. All calculations of non-compartmental parameters will be based on actual sampling times. Pharmacokinetic parameters listed will be determined from the plasma concentration-time data, as data permits.

Parameter	Parameter Description							
AUC(0-∞)	Area under the concentration-time curve from time 0 (predose) extrapolated to infinite time, calculated as:							
	$AUC = AUC(0-t) + C(t) / \lambda z$							
	where C(t) is the last quantifiable concentration							
Cmax	Maximum observed concentration, determined directly from the concentration-time data							
NOTES:								

Additional parameters may be included as required.

For the derivation of unbound plasma PK parameters; the total plasma PK parameters AUC(0-∞), and Cmax will be multiplied by 0.67, to correct for the low plasma protein binding of gepotidacin (33%) observed in previous studies.

#### 7.1.2. Summary Measure

Area under concentration-time curve (AUC $[0-\infty]$ ) and Cmax following single doses of gepotidacin in subjects with normal hepatic function and hepatically impaired subjects.

#### 7.1.3. Population of Interest

The primary pharmacokinetic analyses will be based on the PK population for plasma PK concentrations and the PK parameter population for plasma PK parameters and statistical analysis, unless otherwise specified.

#### 7.1.4. Statistical Analyses / Methods

Details of the planned displays are provided in Appendix 8: List of Data Displays and will be based on GSK Data Standards and statistical principles.

Unless otherwise specified, endpoints/variables defined in Section 7.1.1 will be summarized using descriptive statistics, graphically presented (where appropriate) and listed.

# 7.1.4.1. Statistical Methodology Specification

The following pharmacokinetic statistical analyses will only be performed if sufficient data is available (i.e. if participants have well defined plasma profiles).

## Endpoint / Variables

• Plasma primary pharmacokinetic (PK) endpoints include AUC(0-∞) and Cmax of gepotidacin, as data permit.

### Model Specification

 The plasma In-transformed AUC(0-∞) and Cmax values for gepotidacin in the hepatic impairment groups and the normal hepatic function group will be compared using an analysis of variance (ANOVA).

### Model Checking & Diagnostics

 Model assumptions will be applied, but appropriate adjustments may be made based on the data.

### Model Results Presentation

 Statistical analysis by ANOVA will be presented in tabular format with geometric mean ratios between hepatic impairment groups and normal hepatic function group, and 90% CIs for the ratios of AUC(0-∞) and Cmax for gepotidacin.

# 7.2. Secondary Pharmacokinetic Analyses

# 7.2.1. Endpoint / Variables

# 7.2.1.1. Drug Concentration Measures

Refer to Appendix 3: Data Display Standards & Handling Conventions (Section 10.3.3 Reporting Standards for Pharmacokinetic)

# 7.2.1.2. Derived Pharmacokinetic Parameters

Pharmacokinetic parameters will be calculated by standard non-compartmental analysis according to current working practices and using the currently supported version of WinNonlin. All calculations of non-compartmental parameters will be based on actual sampling times.

Plasma pharmacokinetic parameters listed below will be determined from the total plasma concentration-time data, as data permits.

Parameter	Parameter Description
AUC(0-t)	Area under the concentration-time curve from time 0 (predose) to time of last quantifiable
	concentration, to be calculated using the linear trapezoidal rule for each incremental
	trapezoid and the log trapezoidal rule for each decremental trapezoid
Tmax	Time to first occurrence of Cmax
tlag	Lag time before observation of drug concentrations in sampled matrix
t1/2	Terminal half-life will be calculated as:
	$t\frac{1}{2} = \ln 2 / \lambda z$
λz	Terminal-phase rate constant
CL/F	The apparent oral clearance, calculated as:
	$CL/F = Dose / AUC(0-\infty)$
Vz/F	The apparent volume of distribution during the terminal phase, calculated as:
	$Vz/F = CL / \lambda z$

NOTES:

- Additional parameters may be included as required.
- For the derivation of unbound plasma PK parameters; the total plasma PK parameters AUC(0-t) will be multiplied by 0.67, and the total plasma PK parameter CL/F will be divided by 0.67, to correct for the low plasma protein binding of gepotidacin (33%) observed in previous studies.

Pharmacokinetic parameters listed will be determined from the urine concentration-time data, as data permits.

Parameter	Parameter Description
Ae total	Total unchanged drug (total amount of drug excreted in urine), calculated by adding all the fractions of drug collected over all the allotted time intervals
Ae(t1-t2)	Amount of drug excreted in urine in time intervals for predose, 0 to 6, 6 to 12, 12 to 24, 24 to 36, and 36 to 48 hours after dosing for subjects with hepatic impairment; and predose, 0 to 2 hours, 2 to 4 hours, 4 to 6 hours, 6 to 8 hours, 8 to 12 hours, 12 to 24 hours, 24 to 36 hours, and 36 to 48 hours for subjects with normal hepatic function; calculated by multiplication of the urine concentration for a time interval and the length of this time interval.
AUC(0-t)	Area under the urine concentration-time curve over t hours where t = 12, 24, and 48 hours. The AUC(0-t) will be calculated by the linear trapezoidal rule based on the urine concentration data from each collection interval versus the corresponding urine collection interval.
Fe%	Percentage of the given dose of drug excreted in urine, calculated as:
	fe% = (Ae total/Dose) × 100
CLr	Renal clearance of drug, calculated as:
	CLr = Ae total/AUC(0-t)
	where AUC(0-t) is the area under the plasma concentration-time curve over all the allotted time intervals of urine collections.

NOTES:

• Additional parameters may be included as required.

# 7.2.2. Summary Measure

Area under concentration-time curve (AUC[0-48]) and CLr following single doses of gepotidacin in subjects with normal hepatic function and hepatically impaired subjects.

# 7.2.3. Population of Interest

The secondary pharmacokinetic analyses will be based on the PK population for plasma and urine PK concentrations, and the PK parameter population for plasma and urine PK parameters and statistical analysis, unless otherwise specified.

# 7.2.4. Statistical Analyses / Methods

Details of the planned displays are provided in Appendix 8: List of Data Displays and will be based on GSK Data Standards and statistical principles.

Unless otherwise specified, endpoints/variables defined in Section 7.2.1 will be summarized using descriptive statistics, graphically presented (where appropriate) and listed.

# 7.2.4.1. Statistical Methodology Specification

### Endpoint / Variables

- Plasma secondary PK endpoints include AUC(0-t), Tmax, tlag, CL/F, λz, and t1/2, as data permit.
- Urine primary PK endpoints include AUC(0-48) and CLr of gepotidacin, as data permit. Urine secondary PK endpoints include Ae(t1-t2), AUC(0-12), AUC(0-24), and AUC(0-48) of gepotidacin, as data permit

### Model Specification

- The plasma Tmax will be analyzed non-parametrically using the Mann Whitney U test (Wilcoxon rank sum test). The point estimates and 90% CI for the median differences will be derived for hepatic impairment and healthy participants based on Hodges-Lehmann estimation.
- The urine In-transformed AUC(0-48) and non-transformed CLr values for gepotidacin in the hepatic impairment groups and the normal hepatic function group will be compared using an analysis of variance (ANOVA).

# Model Checking & Diagnostics

 Model assumptions will be applied, but appropriate adjustments may be made based on the data.

# Model Results Presentation

- The point estimates and 90% confidence intervals for the median differences in plasma Tmax will be calculated for the cohort difference (hepatically impaired healthy participants).
- Statistical analysis by ANOVA will be presented in tabular format with geometric mean ratios between hepatic impairment groups and normal hepatic function group, and 90% CIs for the ratios of AUC(0-48) for gepotidacin. For non-transformed CLr for gepotidacin, least squares mean difference between hepatic impairment groups and normal hepatic function group, and 90% CIs for the difference will be presented.

# 7.3. Exploratory Pharmacokinetic Analyses

# 7.3.1. Endpoint / Variables

## 7.3.1.1. Drug Concentration Measures

Refer to Appendix 3: Data Display Standards & Handling Conventions (Section 10.3.3 Reporting Standards for Pharmacokinetic)

### 7.3.1.2. Derived Pharmacokinetic Parameters

Pharmacokinetic parameters will be calculated by standard non-compartmental analysis according to current working practices and using the currently supported version of WinNonlin. All calculations of non-compartmental parameters will be based on actual sampling times. Pharmacokinetic parameters listed will be determined from the saliva concentration-time data, as data permits.

Parameter	Parameter Description
AUC(0-t)	Area under the concentration-time curve from time 0 (predose) to time of last quantifiable concentration, to be calculated using the linear trapezoidal rule for each incremental trapezoid and the log trapezoidal rule for each decremental trapezoid.
AUC(0-∞)	Area under the concentration-time curve from time 0 (predose) extrapolated to infinite time, calculated as:
	$AUC(0-\infty) = AUC(0-t) + C(t) / \lambda z$
Cmax	Maximum observed concentration, determined directly from the concentration-time data.
Tmax	Time to first occurrence of Cmax
t1/2	Terminal phase half-life will be calculated as:
	$t^{1/2} = \ln 2 / \lambda z$
λz	Terminal-phase rate constant
CL/F	The apparent oral clearance, calculated as:
	$CL/F = Dose / AUC(0-\infty)$
Vz/F	The apparent volume of distribution during the terminal phase, calculated as: $Vz/F = CL / \lambda z$
	The ratio of the $\Lambda I I C (0, t)$ observed in caliva relative to the unbound $\Lambda I I C (0, t)$ in plasma
	calculated as:
	RAUC(0-t) = AUC(0-t) saliva / AUC(0-t) plasma
RAUC(0-∞)	The ratio of the AUC(0- $\infty$ ) observed in saliva relative to the unbound AUC(0- $\infty$ ) in plasma, calculated as:
	$RAUC(0-\infty) = AUC(0-\infty)$ saliva / $AUC(0-\infty)$ plasma

NOTES:

<sup>•</sup> Additional parameters may be included as required.

Since plasma protein binding of gepotidacin is low (33%), only total plasma drug concentrations and total plasma PK parameters will be reported for the plasma PK analysis. However, to derive the saliva to unbound plasma AUC(0-t) and AUC(0-∞) ratios, a correction factor of 0.67 will be applied to the total plasma AUCs of gepotidacin to derive the unbound plasma AUCs.

# 7.3.2. Summary Measure

Area under concentration-time curve (AUC $[0-\infty]$ ) and Cmax following single doses of gepotidacin in subjects with normal hepatic function and hepatically impaired subjects.

# 7.3.3. Population of Interest

The primary pharmacokinetic analyses will be based on the PK population for saliva PK concentrations and the PK parameter population for saliva PK parameters and statistical analysis, unless otherwise specified.

# 7.3.4. Statistical Analyses / Methods

Details of the planned displays are provided in Appendix 8: List of Data Displays and will be based on GSK Data Standards and statistical principles.

Unless otherwise specified, endpoints/variables defined in Section 7.3.1 will be summarized using descriptive statistics, graphically presented (where appropriate) and listed.

# 7.3.4.1. Statistical Methodology Specification

The following pharmacokinetic statistical analyses will only be performed if sufficient data is available (i.e. if participants have well-defined saliva profiles).

En	dpoints
•	Saliva exploratory pharmacokinetic (PK) endpoints include AUC(0- $\infty$ ), Cmax, and Tmax of gepotidacin, as data permit.
Мо	del Specification
•	The plasma In-transformed AUC( $0-\infty$ ) and Cmax values for gepotidacin in the hepatic impairment groups and the normal hepatic function group will be compared using an analysis of variance (ANOVA).
•	Saliva Tmax will be analyzed non-parametrically using the Mann Whitney U test (Wilcoxon rank sum test). The point estimates and 90% CI for the median differences will be derived for hepatic impairment and healthy participants based on Hodges-Lehmann estimation.
Мо	del Checking & Diagnostics
•	Model assumptions will be applied, but appropriate adjustments may be made based on the data.
Мо	del Results Presentation
•	Statistical analysis by ANOVA will be presented in tabular format with geometric mean ratios between hepatic impairment groups and normal hepatic function group, and 90% CIs for the ratios of AUC( $0-\infty$ ), Cmax, and AUC( $0-48$ ) for gepotidacin. Scatter plots of natural In-transformed saliva gepotidacin concentrations versus the natural In-transformed unbound and total plasma gepotidacin concentrations will be plotted and a regression line will be fitted.
•	Scatter plots of natural In-transformed saliva gepotidacin PK parameters versus the natural

In-transformed unbound and total plasma gepotidacin PK parameters will also be performed for the AUC( $0-\infty$ ), AUC(0-t), Cmax, CL/F, and t1/2.

• The point estimates and 90% confidence intervals for the median differences in Tmax will be calculated for the cohort difference (hepatically impaired – healthy participants).

# 8. SAFETY ANALYSES

The safety analyses will be based on the Safety population, unless otherwise specified.

# 8.1. Adverse Events Analyses

Adverse events analyses including the analysis of adverse events (AEs), Serious (SAEs) and other significant AEs will be based on GSK Core Data Standards. The details of the planned displays are provided in Appendix 8: List of Data Displays.

# 8.2. Adverse Events of Special Interest Analyses

Liver monitoring/stopping events and cardiovascular events will be considered AEs of Special Interest (AESIs). AESIs are flagged in the eCRF and details of events are collected on special eCRF pages. The details of the planned displays are provided in Appendix 8: List of Data Displays.

# 8.3. Clinical Laboratory Analyses

Laboratory evaluations including the analyses of Chemistry laboratory tests, Hematology laboratory tests, Urinalysis, and liver function tests will be based on GSK Core Data Standards. Division of Microbiology and Infectious Diseases (DMID) grading for all parameters as specified in the protocol will be assigned programmatically by PPD in the Laboratory Analysis Dataset. DMID grading will be applied for all subjects, regardless of hepatic impairment. The details of the planned displays are in Appendix 8: List of Data Displays.

# 8.4. Other Safety Analyses

The analyses of non-laboratory safety test results including ECGs and vital signs will be based on GSK Core Data Standards, unless otherwise specified. The details of the planned displays are presented in Appendix 8: List of Data Displays.

# 9. **REFERENCES**

Department of Health and Human Services (DHHS), Food and Drug Administration, Center for Drug Evaluation and Research, Center for Biologics Evaluation and Research (US). Guidance for Industry: Pharmacokinetics in Patients with Impaired Hepatic Function: Study Design, Data Analysis, and Impact on Dosing and Labeling. May 2003. [19 screens]. Available from:

https://www.fda.gov/downloads/drugs/guidancecomplianceregulatoryinformation/guidan ces/ucm072123.pdf

GlaxoSmithKline Document Number 2017N352027\_00 (Original – 15-FEB-2018): A Phase I, Open-Label, Single-Dose, Two-Part Study to Assess the Pharmacokinetics of Gepotidacin (GSK2140944) in Male and Female Adult Participants with Varying Degrees of Hepatic Impairment and in Matched Control Participants with Normal Hepatic Function (15-FEB-2018)

# 10. APPENDICES

# **10.1.** Appendix 1: Schedule of Activities

# **10.1.1. Protocol Defined Time and Events Table**

	Screening (up to	Check- Treatment Period in (Days)				Follow-up (10 [±5]		
Procedure <sup>1</sup>	30 days prior to Day -1)	-1 1		2	3	postdose) or Early Termination	Notes	
Confined to clinic		х	х	х	х		Participants will be admitted to the clinic on Day –1 and will be discharged on Day 3. Confinement will be 4 days and 3 overnight stays	
Informed consent	Х							
Inclusion and exclusion criteria	х	Х					Recheck clinical status before enrollment and/or study drug administration	
Demographics	Х							
Complete physical examination including height and weight	х							
Abbreviated physical examination		Х			Х	Х		
Medical history (includes substance usage and history of hepatic disease)	Х						Substances: drugs, alcohol, and caffeine. Participants with hepatic impairment should be on a stable regimen of chronic medications 7 days before study drug administration on Day 1	
Past and current medical conditions (including hepatic impairment medical history, Child-Pugh score, and Clcr)	Х						Child-Pugh as defined in the FDA Guidance for Industry: Pharmacokinetics in Patients with Impaired Hepatic Function [DHHS 2003]	
Pregnancy test	Х	Х				Х	Urine (or serum) pregnancy test (if WOCBP), as appropriate (see Protocol, Table 5)	

### 2018N388749\_00 BTZ117352

	Screening (up to	Check- in	Trea	atment Per (Days)	riod	Follow-up (10 [±5] days			
Procedure <sup>1</sup>	30 days prior to Day -1)	–1	-1 1 2 3		postdose) or Early Termination	Notes			
FSH	Х						Estradiol and FSH at Screening (for women of non-childbearing potential), as appropriate (see Protocol, Table 5)		
HIV antibody, hepatitis B surface antigen, and hepatitis C antibody testing	Х						If test has otherwise been performed within 3 months before study drug administration, testing at Screening is not required		
Drug and alcohol screen	Х	Х					See Protocol, Table 5		
Laboratory assessments (include liver chemistries)	Х	Х		Х		Х	Including serum chemistry, hematology, and urinalysis. Results from 24 hours after dosing should be available before discharge on Day 3		
12-lead ECG	Х	Х	Х	Х	Х	Х	See Section 10.1.2 for timing of assessments		
Vital signs	Х	Х	Х	Х	Х	Х	Respiratory rate and body temperature collected at Screening only See Section 10.1.2 for timing of assessments		
Genetic sample		Х					Informed consent for optional substudies (e.g., genetics research) must be obtained before collecting a PGx sample. The PGx sample can be collected anytime, but Day -1 is recommended		
Study drug administration			Х						
Blood collection for pharmacokinetics			Х	Х	Х		See Section 10.1.2 for time points		

### 2018N388749\_00 BTZ117352

	Screening (up to	Check- in	Trea	atment Pe (Days)	riod	Follow-up (10 [±5]		
Procedure <sup>1</sup>	30 days prior to Day -1)	-1	1	2	3	postdose) or Early Termination	Notes	
Urine collection for pharmacokinetics			Х	x x			Participants with normal hepatic function and participants with hepatic impairment will have different collection intervals See Section 10.1.2 for time points	
Saliva collection for pharmacokinetics			Х	x x			See Section 10.1.2 for time points	
AE/SAE review	Х	Х	$\leftarrow = = = = = = \rightarrow$			X		
Concomitant medication review		Х	←=====	=======	====⇒	Х		

AE = adverse event, Clcr = estimated creatinine clearance; ECG = electrocardiogram, FDA = Food and Drug

Administration; FSH = follicle-stimulating hormone; HIV = human immunodeficiency virus; PGx = pharmacogenetic, SAE = serious AE; WOCBP = women of childbearing potential.

<sup>1</sup> When coinciding with safety and/or pharmacokinetic assessments, electrocardiograms, vital signs, and pharmacokinetic blood collections should be performed in said order.

Procedure <sup>1</sup>		Treatment Period Time point (hours)													
	Predose	0	0.5	1	1.5	2	2.5	3	4	6	8	12	<b>24</b> <sup>2</sup>	<b>36</b> <sup>2</sup>	<b>48</b> <sup>2</sup>
12-lead electrocardiogram	Х				х	Х			Х		Х	х	Х	Х	х
Vital signs	Х				Х	Х			Х		Х	Х	Х	Х	Х
Study drug administration		х													
Blood collection for pharmacokinetics	Х		Х	х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Urine collection for pharmacokinetics (participants with normal hepatic function) <sup>3</sup>	х	x		x x		х	х	Х	х	х	х	x			
Urine collection for pharmacokinetics (participants with hepatic impairment) <sup>4</sup>	Х				X				>	(	х	х	х	x	
Saliva collection	Х		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

# 10.1.2. Protocol Defined Safety and PK Assessments

<sup>1</sup> When coinciding with safety and/or pharmacokinetic assessments, electrocardiograms, vital signs, and pharmacokinetic blood collections should be performed in said order.

<sup>2</sup> The 24-, 36-, and 48-hour postdose time points correspond to time points on Day 2 and 3, respectively.

<sup>3</sup> Urine collection intervals for participants with normal hepatic function (Group D and Group E, if applicable) include 0 (pre-dose), 0 to 2 hours, 2 to 4 hours, 4 to 6 hours, 6 to 8 hours, 8 to 12 hours, 12 to 24 hours, 24 to 36 hours, and 36 to 48 hours.

<sup>4</sup> Urine collection intervals for participants with hepatic impairment (Group A, Group B, and Group C) include 0 hour (pre-dose), 0 to 6 hours, 6 to 12 hours, 12 to 24 hours, 24 to 36, and 36 to 48 hours.

# 10.2. Appendix 2: Study Phases and Treatment Emergent Adverse Events

# 10.2.1. Study Phases

For Groups A, B, C, D, and E, assessments and events will be classified according to time of occurrence relative to the date/time of the study treatment.

Study Phase	Definition
Pre-Treatment	Date/Time < Study Treatment Date/Time
On-Treatment	Study Treatment Date/Time ≤ Date/Time ≤ Study Treatment Date/Time + 2 Days
Post-Treatment	Date/Time > Study Treatment Date/Time + 2 Days

### 10.2.1.1. Study Phases for Concomitant Medication

Study Phase	Definition
Prior	If medication end date is not missing and is before enrollment date
Concomitant	Any medication that is not a prior

NOTES:

• Please refer to Appendix 5: Reporting Standards for Missing Data for handling of missing and partial dates for concomitant medication. Use the rules in this table if concomitant medication date is completely missing.

# 10.2.2. Treatment Emergent Flag for Adverse Events

Flag	Definition
Treatment Emergent	<ul> <li>If AE onset date/time is on or after treatment date/time &amp; on or before the treatment stop date/time with 2 days lag time.</li> <li>Study Treatment Date/Time ≤ AE Start Date/Time ≤ Study Treatment Date/Time + 2 days.</li> </ul>

# 10.3. Appendix 3: Data Display Standards & Handling Conventions

# 10.3.1. Reporting Process

### Software

• SAS version 9.3 or higher and WinNonlin version software (version 9.3) and WinNonlin version 6.4 or higher will be used.

#### Analysis Datasets

- Analysis datasets will be created according CDISC standards SDTM IG Version 3.2 & ADaM IG Version 1.0.
- For creation of ADaM datasets (ADCM/ADCM1/ADAE), the same version of dictionary datasets will be implemented for conversion from SI to SDTM.

### Generation of RTF Files

• RTF files will be generated for all reporting efforts described in the RAP.

# 10.3.2. Reporting Standards

### General

- The current GSK Integrated Data Standards Library (IDSL) will be applied for reporting, unless otherwise stated (IDSL Standards Location: https://spope.gsk.com/sites/IDSLLibrary/SitePages/Home.aspx):
  - 4.03 to 4.23: General Principles
  - 5.01 to 5.08: Principles Related to Data Listings
  - 6.01 to 6.11: Principles Related to Summary Tables
  - 7.01 to 7.13: Principles Related to Graphics

### Formats

- All data will be reported according to the actual treatment the participant received unless otherwise stated.
- GSK IDSL Statistical Principles (5.03 & 6.06.3) for decimal places (DP's) will be adopted for reporting of data based on the raw data collected, unless otherwise stated.
- Numeric data will be reported at the precision collected on the eCRF.
- The reported precision from non eCRF sources will follow the IDSL statistical principles but may be adjusted to a clinically interpretable number of DP's.

### Planned and Actual Time

- Reporting for tables, figures and formal statistical analyses:
  - Planned time relative to dosing will be used in figures (with the exception of individual PK concentration-time figures, where actual relative time will be used), summaries, statistical analyses and calculation of any derived parameters, unless otherwise stated.
  - The impact of any major deviation from the planned assessment times and/or scheduled visit days on the analyses and interpretation of the results will be assessed as appropriate.
- Reporting for Data Listings:
  - Planned and actual time relative to study drug dosing will be shown in listings (Refer to IDSL Statistical Principle 5.05.1).
  - Unscheduled or unplanned readings will be presented within the subject's listings.
  - Visits outside the protocol defined time-windows (i.e. recorded as protocol deviations) will be included in listings but omitted from figures (mean figures only for PK concentrations), summaries and statistical analyses (excluding statistical analyses of PK parameters).

### Unscheduled Visits

- Unscheduled visits will be considered when calculating baseline and in Table 2.9 and Table 2.10, but will not be included in any other summary tables.
- Unscheduled visits will not be included in figures.
- All unscheduled visits will be included in listings.

Descriptive Summary Statistics		
Continuous Data	Refer to IDSL Statistical Principle 6.06.1	
Categorical Data	N, n, frequency, %	
Graphical Displays		
Defende IDOL Obstickies Deinsteile 7.04 (s. 7.42)		

Refer to IDSL Statistical Principals 7.01 to 7.13.

# **10.3.3.** Reporting Standards for Pharmacokinetic

Pharmacokinetic Concentration Data			
Descriptive Summary	Refer to IDSL PK Display Standards.		
Statistics, Graphical	Refer to IDSL Statistical Principle 6.06.1.		
Displays and Listings	For continuous data:		
	<ul> <li>NQs at the beginning of a participant profile (i.e. before the first incidence of a measurable concentration) are deemed to be zero as it is assumed that in this circumstance no drug is yet measurable in the blood.</li> <li>For NQs at the end of the participant profile (i.e. after the last incidence of a measurable concentration);</li> <li>for individual plots and pharmacokinetic analyses these are dropped (set</li> </ul>		
	to missing) as they do not provide any useful information (and can		
	<ul> <li>for summary statistics, these are set to 0 (to avoid skewing of the summary statistics)</li> </ul>		
Pharmacokinetic Para	<ul> <li>Individual NQs which fall between two measurable concentrations are set to missing (individual values of this nature are assumed to be an anomaly)</li> <li>If two or more NQ values occur in succession between measurable concentrations, the profile will be deemed to have terminated at the last measurable concentration prior to these NQs. For the purpose of individual participant plots, these NQs will be set to 0, and the subsequent measurable concentrations will be retained. For the derivation of pharmacokinetic parameters, these NQs and any subsequent measurable concentration values will be imputed as per GUI_51487 for descriptive summary statistics/analysis and summarized graphical displays only.</li> </ul>		
Descriptive Summary	N, n, geometric mean, 95% CI of geometric mean, standard deviation (SD) of		
Statistics, Graphical	logged data and between geometric coefficient of variation (CVb (%)) will be		
Displays and Listings	reported.		
	$CV_{b}$ (%) = $\sqrt{(exp(SD^{2}) - 1) * 100}$		
	(SD = SD of Ln-Transformed data)		
Parameters Not	Tmax, tlag, CLr, lambda_z_lower, lambda_z_upper, and lambda_z_no. of points.		
Being Ln- Transformed			
Parameters Not Being Summarized	lambda_z_lower, lambda_z_upper, and lambda_z_no. of points.		
Listings	Include the first point, last point and number of points used in the determination of $\lambda z$ and Rsq_adjusted for listings.		

# 10.4. Appendix 4: Derived and Transformed Data

# 10.4.1. General

Multiple Measurements at One Analysis Time Point

- Mean of the measurements will be calculated and used in any derivation of summary statistics but if listed, all data will be presented.
- If there are two values within a time window the value closest to the target day for that window will be used. If values are the same distance from the target then the mean will be taken.
- Participants having both High and Low values for Normal Ranges at any post-baseline visits for safety parameters will be counted in both the High and Low categories of "Any visit post-baseline" row of related summary tables. This will also be applicable to relevant Potential Clinical Importance summary tables.

### Study Day

- Calculated as the number of days from date of study drug administration (Dose Date):
  - Ref Date = Missing  $\rightarrow$  Study Day = Missing
  - Ref Date < Dose Date  $\rightarrow$  Study Day = Ref Date Dose Date
  - Ref Data ≥ Dose Date → Study Day = Ref Date (Dose Date) + 1

# 10.4.2. Study Population

# Demographics

## Age

- GSK standard IDSL algorithms will be used for calculating age where birth date will be imputed as follows:
  - Only the year of birth will be collected. The date and month will be imputed as PPD
- Birth date will be presented in listings as 'YYYY'.

# Body Mass Index (BMI)

• Calculated as Weight (kg) / [Height (m)<sup>2</sup>]

# 10.4.3. Safety

# ECG Parameters

# **RR** Interval

- IF RR interval (msec) is not provided directly, then RR can be derived as:
  - [1] If QTcB is machine read & QTcF is not provided, then:

$$RR = \left[ \left( \frac{QT}{QTcB} \right)^2 \right] * 1000$$

[2] If QTcF is machine read and QTcB is not provided, then:

$$RR = \left[ \left( \frac{QT}{QTcF} \right)^3 \right] * 1000$$

• If ECGs are manually read, the RR value preceding the measurement QT interval should be a collected value THEN do not derive.



# 10.5. Appendix 5: Reporting Standards for Missing Data10.5.1. Premature Withdrawals

Element	Reporting Detail
General	Participant study completion (i.e. as specified in the protocol) was defined as
	completing all phases of the study including the follow-up visit.
	Withdrawn participants may be replaced in the study.
	All available data from participants who were withdrawn from the study will be listed
	and all available planned data will be included in summary tables and figures, unless
	otherwise specified.
	Early termination visits will be summarized as early termination visits.
10.5.2.	Handling of Missing Data
Element	Reporting Detail
General	<ul> <li>Missing data occurs when any requested data is not provided, leading to blank</li> </ul>
	fields on the collection instrument:
	• These data will be indicated by the use of a "blank" in participant listing
	displays. Unless all data for a specific visit are missing in which case the
	data is excluded from the table.
	<ul> <li>Answers such as "Not applicable" and "Not evaluable" are not considered to</li> </ul>
	be missing data and should be displayed as such.
Outliers	Any participants excluded from the summaries and/or statistical analyses will be
	documented along with the reason for exclusion in the clinical study report.
40504	Hendling of Missing and Particl Potes
	Handlind of Missing and Partial Lates
10.5.2.1. Element	Poporting Detail
Element	Reporting Detail
Element General	Reporting Detail     Partial dates will be displayed as captured in subject listing displays.     The aCRE allows for the possibility of partial dates (i.e., only month and year) to be
Element       General       Adverse       Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In</li> </ul>
ElementGeneralAdverseEvents	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset</li> </ul>
Element         General         Adverse         Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:</li> </ul>
Element         General         Adverse         Events	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li>Missing Start Day: First of the month will be used unless this is before the date of</li> </ul> </li> </ul>
Element         General         Adverse         Events	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the</li> </ul> </li> </ul>
Element         General         Adverse         Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and</li> </ul> </li> </ul>
Element General Adverse Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> </ul> </li> </ul>
Element         General         Adverse         Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2</li> </ul> </li> </ul>
Element General Adverse Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment date will be</li> </ul> </li> </ul>
Element General Adverse Events	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment emergent date will be used.</li> </ul> </li> </ul>
Element General Adverse Events	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment date will be used.</li> </ul> </li> </ul>
Element General Adverse Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment date will be used.</li> </ul> </li> <li>Completely missing start or end dates will remain missing, with no imputation applied. Consequently, time to onset and duration of such events will be missing.</li> </ul>
Element         General         Adverse         Events	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event:         <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment missing, with no imputation applied. Consequently, time to onset and duration of such events will be missing.</li> </ul> </li> </ul>
Element         General         Adverse         Events	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event: <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment date will be used.</li> </ul> </li> <li>Completely missing start or end dates will remain missing, with no imputation applied. Consequently, time to onset and duration of such events will be missing.</li> <li>Partial dates for any concomitant medications recorded in the CRF will be imputed using the following convention:</li> </ul>
Element         General         Adverse         Events         Concomitant         Medical         History	<ul> <li>Reporting Detail</li> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event: <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment date will be used.</li> </ul> </li> <li>Completely missing start or end dates will remain missing, with no imputation applied. Consequently, time to onset and duration of such events will be missing.</li> <li>Partial dates for any concomitant medications recorded in the CRF will be imputed using the following convention: <ul> <li>If the partial date is a start date, a '01' will be used for the day and 'Jan' will be used</li> </ul> </li> </ul>
Element         General         Adverse         Events         Concomitant         Medications/         Medical         History	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event: <ul> <li><u>Missing Start Day:</u> First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day:</u> Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment date will be used.</li> </ul> </li> <li>Completely missing start or end dates will remain missing, with no imputation applied. Consequently, time to onset and duration of such events will be missing.</li> <li>Partial dates for any concomitant medications recorded in the CRF will be imputed using the following convention: <ul> <li>If the partial date is a start date, a '01' will be used for the day and 'Jan' will be used for the month</li> </ul> </li> </ul>
Element         General         Adverse         Events         Concomitant         Medications/         Medical         History	<ul> <li>Partial dates will be displayed as captured in subject listing displays.</li> <li>The eCRF allows for the possibility of partial dates (i.e., only month and year) to be recorded for AE start and end dates; that is, the day of the month may be missing. In such a case, the following conventions will be applied for calculating the time to onset and the duration of the event: <ul> <li><u>Missing Start Day</u>: First of the month will be used unless this is before the date of study treatment; in this case the study treatment date will be used and hence the event is considered Treatment Emergent as per Appendix 2: Study Phases and Treatment Emergent Adverse Events.</li> <li><u>Missing Stop Day</u>: Last day of the month will be used, unless this is more than 2 days after the date of study treatment; in this case the study treatment missing, with no imputation applied. Consequently, time to onset and duration of such events will be missing.</li> </ul> </li> <li>Partial dates for any concomitant medications recorded in the CRF will be imputed using the following convention: <ul> <li>If the partial date is a stop date, a '28/29/30/31' will be used for the day (dependent on the month and year) and 'Dec' will be used for the month.</li> </ul> </li> </ul>

# **10.6.** Appendix 6: Values of Potential Clinical Importance

# 10.6.1. ECG

ECG Parameter	Units	Potential Clinically Important Range	
		Lower	Upper
Absolute			
	msec	> 450 <sup>[1]</sup>	
Abaaluta OTa Intarual		> 450 <sup>[2]</sup>	≤ 479 <sup>[2]</sup>
		≥ 480 <sup>[2]</sup>	≤ <b>4</b> 99 <sup>[2]</sup>
		≥ 500 <sup>[2]</sup>	
Absolute PR Interval	msec	< 110 <sup>[1]</sup>	> 220 <sup>[1]</sup>
Absolute QRS Interval	msec	< 75 <sup>[1]</sup>	> 110 <sup>[1]</sup>
Change from Baseline			
	msec	≤ 30 <sup>[2]</sup>	
Increase from Baseline QTc	msec	> 30 <sup>[1]</sup>	≤ 59 <sup>[2]</sup>
	msec	≥ 60 <sup>[2]</sup>	

### NOTES:

1. Represent standard ECG values of PCI for HV studies.

2. Represent further subdivisions of ECG values for analysis.

# 10.6.2. Vital Signs

Vital Sign Parameter	Units	Potential Clinically Important Range		
(Absolute)		Lower	Upper	
Systolic Blood Pressure	mmHg	< 85	> 160	
Diastolic Blood Pressure	mmHg	< 45	> 100	
Heart Rate	bpm	< 40	> 110	

# 10.7. Appendix 7: Abbreviations & Trade Marks

# 10.7.1. Abbreviations

Abbreviation	Description		
ADaM	Analysis Data Model		
AE	Adverse Event		
Ae(t1-t2)	Amount of drug excreted in urine in a time intervals		
Ae total	Total unchanged drug (total amount of drug excreted in urine)		
AUC(0-∞)	Area under the concentration-time curve from time 0 (predose) extrapolated to		
	infinite time		
AUC(0-t)	Area under the concentration-time curve from time 0 (predose) to time of last		
	Quantinable concentration		
AUC(0-12)	Partial area under the curve estimated from unne concentrations samples		
	Collected from predose to 12 hours post dose		
AUC(0-24)	collected from prodoco to 24 hours post doco		
	Collected from predose to 24 hours post dose		
AUC(0-40)	collected from predose to 18 hours post dose		
BMI	Body mass index		
	Clinical Data Interchange Standards Consortium		
CI			
	Apparent oral clearance		
	Renal clearance of drug		
Cmay	Maximum observed concentration		
CV/h	Waximum observed concentration		
	Decimal Places		
FCG	Electrocardiogram		
eCRF			
fe%	Percentage of the given dose of drug excreted in urine		
FDA	Food and Drug Administration		
GSK	GlaxoSmithKline		
	Interim Analysis		
ICH	International Conference on Harmonisation		
	Integrated Data Standards Library		
PCI	Potential Clinical Importance		
PK	Pharmacokinetic(s)		
QTcF	Frederica's QT Interval Corrected for Heart Rate		
QTcB	Bazett's OT Interval Corrected for Heart Rate		
RAP	Reporting & Analysis Plan		
RAUC(0-t)	The ratio of the AUC(0-t) observed in saliva relative to the AUC(0-t) in plasma		
RAUC(0-∞)	The ratio of the AUC( $0.\infty$ ) observed in saliva relative to the AUC( $0.\infty$ ) in		
	nlasma		
SAC	Statistical Analysis Complete		
SDTM	Study Data Tabulation Model		
t1/2	Terminal phase half life		

Abbreviation	Description
λz	Terminal-phase rate constant
TFL	Tables, Figures & Listings
tlag	Lag time before observation of drug concentrations in sampled matrix
Tmax	Time to first occurrence of Cmax
Vz/F	Apparent volume of distribution of the terminal phase

# 10.7.2. Trademarks

Trademarks of the GlaxoSmithKline Group of Companies	
NONE	

# Trademarks not owned by the GlaxoSmithKline Group of Companies

SAS WinNonlin

# 10.8. Appendix 8: List of Data Displays

# 10.8.1. Data Display Numbering

The following numbering will be applied for RAP generated displays:

Section	Tables	Figures
Study Population	1.1 to 1.10	NA
Safety	2.1 to 2.12	NA
Pharmacokinetic	3.1 to 3.11	3.1 to 3.11
Section	Listings	
ICH Listings	1 to 40	
Other Listings	41 to 46	

# 10.8.2. Mock Example Shell Referencing

Non IDSL specifications will be referenced as indicated.

Section	Figure	Table	Listing
Study Population	POP_Fn	POP_Tn	POP_Ln
Safety	SAFE_Fn	SAFE_Tn	SAFE_Ln
Pharmacokinetic	PK_Fn	PK_Tn	PK_Ln

NOTES:

Non-Standard displays are indicated in the 'IDSL / Example Shell' or 'Programming Notes' column as '[Non-Standard] + Reference.'

# 10.8.3. Deliverables

Delivery	Description
IA	Interim Analysis (Part 1)
SAC	Final Statistical Analysis Complete

# 10.8.4. Study Population Tables

Study Population Tables						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
Subject	Disposition ar	nd Populations				
1.1.	Enrolled	NS1	Summary of Number of Subjects Enrolled by Country and Site ID		SAC	
1.2.	Safety	ES1	Summary of Subject Disposition for the Subject Conclusion Record		SAC	
1.3.	Screened	ES6	Summary of Screening Status and Reasons for Screen Failures		SAC	
1.4.	Screened	DV1	Summary of Important Protocol Deviations		SAC	
Demog	raphics					
1.5.	Safety	DM1	Summary of Demographic Characteristics		SAC	
1.6.	Safety	DM5	Summary of Race and Racial Combinations		SAC	
1.7.	Safety	DM6	Summary of Race and Racial Combinations Details		SAC	
1.8.	Safety	DM11	Summary of Age Ranges		SAC	
1.9.	Safety	POP_T1	Summary of Child-Pugh Scores		SAC	
Medical Conditions and Concomitant Medications						
1.10.	Safety	MH4	Summary of Current Liver Disease and Cardiovascular Related Medical Conditions		SAC	

# 10.8.5. Safety Tables

Safety	Safety : Tables						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable		
Advers	e Events						
2.1.	Safety	AE1	Summary of All Adverse Events by System Organ Class and Preferred Term		SAC		
2.2.	Safety	AE1	Summary of Drug-Related Adverse Events		SAC		
2.3.	Safety	AE15	Summary of Common (>=5%) Non-serious Adverse Events by System Organ Class and Preferred Term (Number of Subjects and Occurrences)		SAC		
2.4.	Safety	AE16	Summary of Serious Adverse Events by System Organ Class and Preferred Term (Number of Subjects and Occurrences)		SAC		
Labora	tory Values						
2.5.	Safety	LB1	Summary of Clinical Chemistry Values Change from Baseline		SAC		
2.6.	Safety	LB1	Summary of Hematology Values Change from Baseline		SAC		
2.7.	Safety	UR3	Summary of Urinalysis Dipstick Results		SAC		
Electro	cardiograms						
2.8.	Safety	EG1	Summary of ECG Findings		SAC		
2.9.	Safety	SAFE_T1	Summary of Frequency of Maximum Post-Dose ECG Parameter Corrected QTc Interval		SAC		
2.10.	Safety	SAFE_T2	Summary of Frequency of Maximum Change from Baseline for ECG Parameter Corrected QTc Interval		SAC		
2.11.	Safety	EG2	Summary of Change from Baseline in ECG Values		SAC		
Vital Sig	gns						
2.12.	Safety	VS1	Summary of Change from Baseline in Vital Signs		SAC		

# 10.8.6. Pharmacokinetic Tables

Pharma	Pharmacokinetic : Tables					
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
PK Cor	centration Data					
3.1	PK Concentration	PKCT1	Summary of Gepotidacin Plasma Pharmacokinetic Concentration-Time Data (units) by Hepatic Function Group		IA, SAC	
3.2	PK Concentration	PKCT1	Summary of Gepotidacin Urine Pharmacokinetic Concentration-Time Data (units) by Hepatic Function Group		IA, SAC	
3.3	PK Concentration	PKCT1	Summary of Gepotidacin Saliva Pharmacokinetic Concentration-Time Data (units) by Hepatic Function Group		IA, SAC	
PK Para	ameters Tables					
3.4	PK Parameter	PKPT4	Summary of Derived Gepotidacin Plasma Pharmacokinetic Parameters by Hepatic Function Group	Parameters with units. If Group E are enrolled in part 2, then include a page of part 1 (Group B and D) alone in SAC deliverable as a reference for part 1 IA.	IA, SAC	
3.5	PK Parameter	PKPT4	Summary of Derived Gepotidacin Urine Pharmacokinetic Parameters by Hepatic Function Group	Parameters with units.	IA, SAC	
3.6	PK Parameter	PKPT4	Summary of Derived Gepotidacin Saliva Pharmacokinetic Parameters by Hepatic Function Group	Parameters with units.	IA, SAC	

Pharmacokinetic : Tables						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
PK Ana	Ilysis Tables					
3.7	PK Parameter	РКРТ3	Statistical Analysis of Gepotidacin Plasma Pharmacokinetic Parameters: Analysis of Variance (ANOVA)	AUC(0-∞) and Cmax only by Hepatic Function Group. If Group E are enrolled in part 2, then include a page of part 1 (Group B and D) alone in SAC deliverable as a reference for part 1 IA.	IA, SAC	
3.8	PK Parameter	PKPT3	Statistical Analysis of Gepotidacin Urine Pharmacokinetic Parameters: Analysis of Variance (ANOVA)	AUC(0-48) and CLr only by Hepatic Function Group.	IA, SAC	
3.9	PK Parameter	PKPT3	Statistical Analysis of Gepotidacin Saliva Pharmacokinetic Parameters: Analysis of Variance (ANOVA)	AUC( $0-\infty$ ) and Cmax only by Hepatic Function Group.	IA, SAC	
3.10	PK Parameter	PK T1	Statistical Analysis of Gepotidacin Plasma Tmax		IA, SAC	
3.11	PK Parameter	PK T1	Statistical Analysis of Gepotidacin Saliva Tmax		IA, SAC	

# 10.8.7. Pharmacokinetic Figures

Pharma	Pharmacokinetic : Figures					
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
Concer	tration Plots					
3.1	PK Concentration	PKCF1P	Individual Gepotidacin Plasma Concentration-Time Plots by Hepatic Function Group (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all hepatic function groups in the same plots.	IA, SAC	
3.2	PK Concentration	PKCF1P	Individual Gepotidacin Urine Concentration-Time Plots by Hepatic Function Group (Linear and Semi- Logarithmic)	Dashed line represents the LLQ. Present all hepatic function groups in the same plots. Plot concentration at the collection midpoint.	IA, SAC	
3.3	PK Concentration	PKCF1P	Individual Gepotidacin Saliva Concentration-Time Plots by Hepatic Function Group (Linear and Semi- Logarithmic)	Dashed line represents the LLQ. Present all hepatic function groups in the same plots.	IA, SAC	
3.4	PK Concentration	PKCF2	Mean Gepotidacin Plasma Concentration-Time Plots (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all treatment groups in the same plots.	IA, SAC	
3.5	PK Concentration	PKCF2	Mean Gepotidacin Urine Concentration-Time Plots (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all treatment groups in the same plots. Plot concentration at the collection midpoint.	IA, SAC	
3.6	PK Concentration	PKCF2	Mean Gepotidacin Saliva Concentration-Time Plots (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all treatment groups in the same plots.	IA, SAC	

Pharma	Pharmacokinetic : Figures					
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
3.7	PK Concentration	PKCF3	Median Gepotidacin Plasma Concentration-Time Plots (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all treatment groups in the same plots.	IA, SAC	
3.8	PK Concentration	PKCF3	Median Gepotidacin Urine Concentration-Time Plots (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all treatment groups in the same plots. Plot concentration at the collection midpoint.	IA, SAC	
3.9	PK Concentration	PKCF3	Median Gepotidacin Saliva Concentration-Time Plots (Linear and Semi-Logarithmic)	Dashed line represents the LLQ. Present all treatment groups in the same plots.	IA, SAC	
Explora	tory Objectives					
3.10	PK Concentration	PK_F4	Scatter Plot of Gepotidacin Saliva and Unbound Plasma Concentrations by Hepatic Function Group	Present all treatment groups in the same plots.	IA, SAC	
3.11	PK Parameter	PK_F5	Scatter Plot of Gepotidacin Saliva and Unbound Plasma PK Parameters by Hepatic Function Group	Present all treatment groups in the same plots. Repeat for PK parameters AUC(0-t), AUC(0-inf), Cmax, CL/F and t <sup>1</sup> / <sub>2</sub> .	IA, SAC	
3.12	PK Concentration	PK_F4	Scatter Plot of Gepotidacin Saliva and Total Plasma Concentrations by Hepatic Function Group	Present all treatment groups in the same plots.	IA, SAC	
3.13	PK Parameter	PK_F5	Scatter Plot of Gepotidacin Saliva and Total Plasma PK Parameters by Hepatic Function Group	Present all treatment groups in the same plots. Repeat for PK parameters AUC(0-t), AUC(0-inf), Cmax, CL/F and t <sup>1</sup> / <sub>2</sub> .	IA, SAC	

# 10.8.8. ICH Listings

ICH : Listings						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
Group	Assignment					
1.	Safety	TA1	Listing of Planned and Actual Group		SAC	
Subject	Disposition					
2.	Safety	ES2	Listing of Reasons for Study Withdrawal		SAC	
3.	Screened	ES7	Listing of Reasons for Screen Failure		SAC	
4.	Screened	DV2	Listing of Important Protocol Deviations		SAC	
5.	Safety	IE4	Listing of Subjects with Inclusion/Exclusion Criteria Deviations		SAC	
6.	Enrolled	SP3	Listing of Subjects Excluded from Any Population		SAC	
7.	Safety	SAFE_L1	Listing of Subjects in Previous Clinical Trial		SAC	
Demog	raphics and Ba	seline Characteri	stics			
8.	Safety	DM4	Listing of Demographic Characteristics		SAC	
9.	Safety	DM10	Listing of Race		SAC	
10.	Safety	SAFE_L2	Listing of Child-Pugh Scores		SAC	
Concor	nitant Medicati	ons				
11.	Safety	MH2	Listing of Cardiovascular and Liver Disease Related Medical Conditions		SAC	
12.	Safety	CM3	Listing of Concomitant Medications		SAC	
Exposu	ire					
13.	Safety	SAFE_L3	Listing of Exposure Data		SAC	

-

ICH : L	ICH : Listings						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable		
Advers	e Events			·			
14.	Safety	AE2	Listing of Relationship Between System Organ Class and Verbatim Text		SAC		
15.	Safety	AE7	Listing of Subject Numbers for Individual Adverse Events		SAC		
16.	Safety	AE8	Listing of All Adverse Events		SAC		
17.	Safety	AE8	Listing of Study Drug Related Adverse Events		SAC		
18.	Safety	SAFE_L4	Listing of Serious Adverse Events (Fatal and Non-Fatal)		SAC		
19.	Safety	AE8	Listing of Adverse Events Leading to Withdrawal from Study		SAC		
20.	Safety	SAFE_L5	Listing of Liver Adverse Events	Conditional Display	SAC		
21.	Safety	SAFE_L6	Listing of Cardiovascular Adverse Events	Conditional Display	SAC		
Labora	tory Values						
22.	Safety	SAFE_L7	Listing of Clostridium Difficile Testing		SAC		
23.	Safety	LB5	Listing of Clinical Chemistry Toxicities of Grade 3 or Higher		SAC		
24.	Safety	LB5	Listing of All Clinical Chemistry Data for Subjects with Toxicities of Grade 3 or Higher		SAC		
25.	Safety	LB5	Listing of Hematology Toxicities of Grade 3 or Higher		SAC		
26.	Safety	LB5	Listing of All Hematology Data for Subjects with Toxicities of Grade 3 or Higher		SAC		
27.	Safety	UR2a	Listing of Urinalysis Toxicities of Grade 3 or Higher		SAC		
28.	Safety	UR2a	Listing of All Urinalysis Data for Subjects with Toxicities of Grade 3 or Higher		SAC		

ICH : Listings						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable	
Electro	ocardiograms					
29.	Safety	EG5	Listing of Abnormal ECG Findings		SAC	
30.	Safety	EG5	Listing of All ECG Findings for Subjects with an Abnormal Finding		SAC	
31.	Safety	EG3	Listing of ECG Values of Potential Clinical Importance		SAC	
32.	Safety	EG3	Listing of All ECG Values for Subjects with any Value of Potential Clinical Importance		SAC	
Vital S	igns					
33.	Safety	VS4	Listing of Vital Signs of Potential Clinical Importance		SAC	
34.	Safety	VS4	Listing of All Vital Signs for Subjects with any Value of Potential Clinical Importance		SAC	
Liver E	vent		•		·	
35.	Safety	LIVER5	Listing of Liver Monitoring/Stopping Event Reporting	Conditional Display	SAC	
36.	Safety	MH2	Listing of Medical Conditions for Subjects with Liver Stopping Events	Conditional Display	SAC	
37.	Safety	SAFE_L8	Listing of Alcohol Intake at Onset of Liver Event	Conditional Display	SAC	
38.	Safety	PKCL1X	Listing of Plasma Concentration Data for Subjects with Liver Stopping Events	Conditional Display	SAC	
39.	Safety	LIVER7	Listing of Liver Biopsy Details	Conditional Display	SAC	
40.	Safety	LIVER8	Listing of Liver Imaging Details	Conditional Display	SAC	

# 10.8.9. Non-ICH Listings

Other (I	Other (non-ICH) : Listings						
No.	Population	IDSL / Example Shell	Title	Programming Notes	Deliverable		
Pharma	cokinetic						
41.	PK Concentration	PKCL1P	Listing of Plasma Gepotidacin Concentrations (units) by Hepatic Function Group	Please list all the concentration data including unscheduled. Repeat for all Hepatic Function Groups.	IA, SAC		
42.	PK Concentration	PKUL1P	Urine Gepotidacin Concentrations by Hepatic Function	Please list all the concentration data including unscheduled. Repeat for all Hepatic Function Groups.	IA, SAC		
43.	PK Concentration	PKCL1X	Saliva Gepotidacin Concentrations by Hepatic Function	Please list all the concentration data including unscheduled. Repeat for all Hepatic Function Groups.	IA, SAC		
44.	PK Parameter	PKPL1P	Listing of Gepotidacin Plasma Pharmacokinetic Parameters by Treatment		IA, SAC		
45.	PK Parameter	PKPL1P	Listing of Gepotidacin Urine Pharmacokinetic Parameters by Treatment		IA, SAC		
46.	PK Parameter	PKPL1P	Listing of Gepotidacin Saliva Pharmacokinetic Parameters by Treatment		IA, SAC		