

Title: An Open-Label, Single-Dose, Phase 1/2 Study to Evaluate the Pharmacokinetics, Safety, and Tolerability of Human Protein C (TAK-662) for the Treatment of Congenital Protein C Deficiency in Japanese Subjects Followed by an Extension Part

NCT Number: NCT04984889 Statistical analysis plan Approve Date: 28-Oct-2022

Certain information within this statistical analysis plan has been redacted (ie, specific content is masked irreversibly from view with a black bar) to protect either personally identifiable information or company confidential information.



STATISTICAL ANALYSIS PLAN

Study Number: TAK-662-1501

icable terms of Use Study Title: An Open-Label, Single-Dose, Phase 1/2 Study to Evaluate the Pharmacokinetic, Safety, and Tolerability of Human Protein C (TAK-662) for the Treatment of Congenital Protein

i Gotocol Version: Amendment Protocol Date: 13 April 2021 Common Comon Common Common Common C

Page 2

28 Oct 2022

REVISION HISTORY

Version	Approval Date	Primary Rationale for Revision]
4.0	28 Oct2022	Updates for the analyses of the extension part.	X
		• Section 6.1: Corrected the definitions of duration for each treatment types in the extension part.	SO
		• Section 6.4: Described the definition of calculation for each items.	
		• Section 9.2.4: Specified the type of missing to be handled	
3.0	15Sep2022	Updates for the analyses of the extension part.	
		Section 1.1.2: Added secondary objectives.	
		• Section 1.2.3: Added new section for efficacy endpoints.	
		• Section 5.4 and 5.5: Added new section for the safety analysis set in the extension part and the efficacy analysis set.	
		• Section 6.1: Described the analyses for the PK part and the extension part.	
		• Section 6.2, 6.2.1, 6.2.2, 6.2.4 and 6.3.2: Described the analyses for the extension part.	
		• Section 6.4: Described the efficacy analyses.	
		• Section 6.5, 6.5, 6.6, 6.7 and 6.9: Described the analyses for the extension part.	
		• Section 6.11.2: Added new section for the extension part.	
		• Section 6.12: Described the interim analysis for the extension part and the final analysis.	
		 Section 9.2.2: Added the definition of baseline in the extension part. 	
		Section 9.2.3: Added the tables of analysis visits in the extension part.	
	(C)	Correction of errors.	
	an	Section 9.3: WinNonlin version	
2.0	11Apr2022	Updates necessary for the interim analysis were made in accordance with the contents of Protocol amendment 2. (but does	
		not include updates for efficacy analysis.)	
		Updated the ABBREVIATIONS list. Section 2.0: Study design details undeted as non Protocol	
		Amendment 2.	
	Sog.	• Section 5.1: "Screened Population" was changed to "Screened Set".	
XOT		• Section 5.3: Updated with Protocol Amendment 2.	
		• Section 6.2.1: Added new section for the analysis of protocol deviations.	
Retty		• Section 6.2.4: Added the handling of an incomplete date in the calculation of "Duration of protein C deficiency" and the method of identifying "Previous treatment with blood products"	
		• Section 6.3.1 : Deleted an erratum in display item ("dosing frequency").	

	Version	Approval Date	Primary Rationale for Revision	
			 Section 6.3.1 and Section 6.3.2: Modified definitions of "prior" and "concomitant" mediantians 	~0
			 Section 6.4: Updated for interim analysis. 	N°
			• Section 6.6: Deleted unnecessary description ("End of	Õ
			Treatment" and "potential clinically significant data").	n n n n n n n n n n n n n n n n n n n
			 Section 6.7: Corrected the examples of analysis items. Deleted unnecessary description ("End of Treatment" and "potential" 	
			clinically significant data").	
			Section 6.10.2: Moved the description to Clinical Pharmacology Analysis Plan	
			 Section 6.12: Added the description to perform Interim 	
			Analysis.	
			• Section 9.2.3: Added tables of analysis visit.	
			 Section 9.2.4: Added new section for the handling of missing severity and relationship for AEs. 	
-	1.0	30Apr2021	[Not Applicable]	
Property	stakeda. Fo	non-commerci	Auseonwandsur	

28 Oct 2022

TABLE OF CONTENTS

REVISION	HISTORY	2
TABLE OF	CONTENTS	4
LIST OF IN	-TEXT TABLES	6
ABBREVIA	TIONS	
1.0 OBJEC	TIVES, ENDPOINTS AND ESTIMANDS	8.0.2
1.1	Objectives	8
1.1.1	Primary Objective	8
1.1.2	Secondary Objective(s)	8
1.1.3	Additional Objective(s)	8
1.2	Endpoints	8
1.2.1	Primary Endpoint(s)	8
1.2.2	Safety Endpoint(s)	8
1.2.3	Efficacy Endpoint(s)	8
1.2.4	Exploratory Endpoint(s)	9
1.3	Estimand(s)	9
2.0 STUDY	DESIGN	10
3.0 STATIS	STICAL HYPOTHESES AND DECISION RULES	12
3.1	Statistical Hypotheses	12
3.2	Statistical Decision Rules	12
3.3	Multiplicity Adjustment	12
4.0 SAMPL	E-SIZE DETERMINATION	13
5.0 ANALY	SIS SETS	14
5.1	Screened Set	14
5.2	Safety Analysis Set	14
5.3	Pharmacokinetic Analysis Set	14
5.4	Safety Analysis Set in the Extension part	14
5.5	Efficacy Analysis Set	14
6.0 STATIS	TICAL ANALYSIS	15
6.1 0	General Considerations	15
6.1.1	Analysis Approach for Continuous Variables	15
6.1.2	Analysis Approach for Categorical Variables	15
6.2	Disposition of Subjects	15
6.2.1	Protocol Deviations	16
6.2.2	Demographics	16
6.2.3	Medical History and Concurrent Medical Conditions	17
624	Baseline Characteristics	17

	1 280	Oct 2022
6.3	Medication History and Concomitant Medications	18
6.3.1	Prior Medications	18
6.3.2	2 Concomitant Medications	18
6.4	Efficacy Analysis	18
6.5	Safety Analysis	20
6.5.1	Adverse Events	
6.6	Clinical Laboratory Data	
6.7	Vital Signs, Body Weight and BMI	
6.8	Electrocardiogram	22
6.9	Extent of Exposure and Compliance	22
6.10	Pharmacokinetic Analyses	23
6.10	.1 Pharmacokinetic Parameters	23
6.10	.2 Statistical Analysis of Pharmacokinetic Data	23
6.11	Other Analyses	23
6.11	.1 Physical Examination	23
6.11	.2 Protein C activity	23
6.12	Interim Analyses	23
7.0 REFER	ENCES	24
8.0 CHAN	JES TO PROTOCOL PLANNED ANALYSES	24
9.0 APPEN	DIX	25
9.1	Changes from the Previous Version of the SAP	25
9.2	Data Handling Conventions	25
9.2.1	General Data Reporting Conventions	25
9.2.2	2 Definition of Baseline	25
9.2.3	Definition of Visit Windows	26
9.2.4	Handling of Missing Severity Assessment and Relatedness	28
9.3	Analysis Software	

LIST OF IN-TEXT TABLES

Table 1	List of Laboratory Tests	21 50
Table 2	Analysis Visit of Vital Signs in the PK part	
Table 3	Analysis Visit of Vital Signs in the Extension part (On-Demand Treatment)	
Table 4	Analysis Visit of Vital Signs in the Extension part (Short-Term Prophylaxis)	
Table 5	Analysis Visit of Clinical Laboratory Evaluations -Hematology- in the PK part	27
Table 6	Analysis Visit of Clinical Laboratory Evaluations -Hematology- in the Extension part (On-Demand Treatment)	27
Table 7	Analysis Visit of Clinical Laboratory Evaluations -Hendetology- in the Extension part (Short-Term Prophylaxis)	28
Table 8	Analysis Visit of Clinical Laboratory Evaluations -Hematology- in the Extension part (Long-Term Prophylaxis)	28
Table 9	Analysis Visit of Clinical Laboratory Evaluations - Chemistry- in the PK part	28
Property of Takeda. For	noncommercialuse on ver	

ABBREVIATIONS

	AE	adverse event
	AUC	area under the curve
	β-hCG	beta human chorionic gonadotropin
	BMI	body mass index
	CI	confidence interval
	CISN	coumarin-induced skin necrosis
	C _{max}	maximum concentration
	CPAP	Clinical Pharmacology Analysis Plan
	CV	coefficient of variation
	ECG	Electrocardiogram
	eCRF	electronic case report form
	ET	early termination
	FSH	follicle-stimulating hormone
	ICF	Informed Consent Form
	IR	incremental recovery
	IU	international unit
	IVR	in-vivo recovery
	MedDRA	Medical Dictionary for Regulatory Activities
	NCA	non-compartmental analysis
	PF	purpura fulminans
	РК	Pharmacokinetic
	РТ	Preferred Term (MedDRA)
	SAE	serious adverse event
	SAP	statistical analysis plan
	SD	standard deviation
	SI	standard international
	SOC	System Organ Class (MedDRA)
	TEAE	treatment-emergent adverse event
	t _{1/2}	half-life
	t _{max}	time to maximum concentration
	US	United States
	WHO-DD	World Health Organization Drug Dictionary
	WISN	warfarin-induced skin necrosis
	Xe	
	~~~	
	0	
ex.		
SC/		
YOY		
< 		

# 1.0 OBJECTIVES, ENDPOINTS AND ESTIMANDS

### 1.1 **Objectives**

### 1.1.1 **Primary Objective**

1 terms of USE To measure the pharmacokinetic (PK) parameters of TAK-662 in asymptomatic subjects with homozygous or double heterozygous congenital protein C deficiency in Japanese subjects.

### 1.1.2 Secondary Objective(s)

To assess safety profile of TAK-662.

icable To assess efficacy of TAK-662 in following 1) for on-demand treatment such as purpura fulminans (PF), coumarin-induced skin necrosis (CISN)/ warfarin-induced skin necrosis (WISN), and other vascular thromboembolic events; 2) for short-term thromboembolic prophylaxis during surgical procedures; and 3) for long-term prophylactic treatment of acute ins ise only and subject thrombotic episodes (Extension part).

### 1.1.3 Additional Objective(s)

Not applicable.

### 1.2 Endpoints

### 1.2.1 **Primary Endpoint(s)**

- Protein C activity
- PK parameters including but not limited to terminal half-life  $(t_{1/2})$ , incremental recovery (IR), in-vivo recovery (IVR), area under the curve (AUC), maximum concentration (C_{max}), and minimum time to reach maximum concentration  $(t_{max})$

### Safetv Endpoint(s) 1.2.2

The primary Safety Endpoint

The occurrence of treatment-related adverse experiences.

Other Safety Endpoint

Body temperature, blood pressure, and pulse rate monitored before and after the investigational product administration, and the last prophylactic treatment (if applicable) prior to the test dose.

### 1.2.3 **Efficacy Endpoint(s)**

# **On-demand treatment**

The treatment of episodes of PF/CISN/WISN and/or other vascular thromboembolic events are rated as effective, effective with complications, or not effective when it is determined that the next infusion is unnecessary according to the efficacy rating scale.

Short-term prophylaxis

, cophylaxi, and subject to the applicable property of Takeda. For non-commercial use only and subject to the applicable

# 2.0 STUDY DESIGN

rerns of Use This is a phase 1/2 open-label, non-randomized, non-controlled, single-dose, multicenter study to evaluate PK, safety, and tolerability of TAK-662 in Japanese subjects with congenital protein C deficiency followed by an extension part.

PK part:

The study is planned to enroll 3 or more subjects in Japan. The subject who has the prophylactic treatment of anticoagulants is allowed to be enrolled. The last prophylactic treatment including protein C ingredient must occur by at least 36 hours before the administration of TAK-662 on Day 1. Other prophylactic treatment such as oral anticoagulants can be administered without any restrictions on period.

Once all screening assessments following informed consent (and assent where applicable) are completed and eligibility is confirmed, the subject will receive a single 80 IU/kg dose of TAK-662 intravenously on Day 1. Prior to the Investigational Product (IP) administration, the subject will be admitted to the study site on Day -1 (One day earlier hospitalization [Day -2] is allowed if applicable). The prophylactic treatment will be given according to the subject's established treatment regimen and at the discretion of the investigator. For the subject with prophylactic treatment including protein C ingredient, the IP for PK will be administered at least after 36 hours of the prophylactic treatment.

From Day 1 to Day 3, the subject will stay in the study site and be followed up for PK and safety before and after the IP administration. The blood sampling for PK will be done immediately prior to infusion and at 30 minutes, and 1, 2, 4, 8, 12, 24, and 36 hours postinfusion; a sampling for the 36 hours postinfusion is allowed to be customized by age, especially for feasibility in children. After 7 days from the IP administration (Day 7), the subject will have the follow-up visit for safety assessment. For the subject who has the prophylactic treatment including protein C ingredient before the administration of the IP for PK, the blood sampling will be additionally done immediately prior to the prophylactic treatment and at 1, 17, and 25 hours post-treatment.

The analysis will be performed for PK and safety after all subjects have completed the Day 7 visit.

# Extension part:

In the extension part of the current study, sponsor provides 3 different treatment options; ondemand treatment, short-term prophylaxis, and long-term prophylaxis. Based on investigator's careful evaluation on subject's medical condition, subject who completed PK part can continue the administration of TAK-662 until the commercial protein C concentrate is available at each study site or study termination. The 3 different treatment options provide different ways of protein C supplementation.

For on-demand treatment, subjects with PF, CISN/WISN, and/or other acute thromboembolic episode will be enrolled. For short-term prophylaxis, subjects requiring short-term prophylaxis

with protein C concentrate/TAK-662 for surgical procedures will be enrolled. For long-term prophylaxis, subjects requiring long-term prophylaxis with protein C concentrate/TAK-662 will

on the subject's situation. In this case, after the completion of follow-up period, the subject will be re-enrolled and re-start the procedures from pre-dose/pre-surgery period. In addition, subject may transfer to the other treatment. (eg, If a subject who enrolled in long-term prophylaxis requires a surgery, he/she transfers to short-term prophylaxis. Once anti-and the investigator determines that adequate anti-back to long-term procl eropention of takeda. For non-commercial use on wand subject to the application of takeda. For non-commercial use on wand subject to the application of takeda. For non-commercial use on wand subject to the application of takeda. For non-commercial use on the application of takeda.

# Page 12

28 Oct 2022

# Property of Takese For non-commercial use only and subject to the applicable terms of Use

noned to trace to noncommercial use on ward subject to the applicable Terms of USE

# 5.0 ANALYSIS SETS

### 5.1 **Screened Set**

All subjects who provided a signed Informed Consent Form (ICF) will be included in the Screened Set.

### 5.2 Safety Analysis Set

Termsonuse The Safety Analysis Set will include all enrolled subjects in the study who take at least 1 dose of TAK-662. A subject will be considered enrolled in the study once the informed consent/assent has been obtained and the subject meets all of the study inclusion criteria.

### 5.3 **Pharmacokinetic Analysis Set**

The Pharmacokinetic Analysis Set will include all study participants who take at least 1 dose of TAK-662 and have enough number of quantifiable blood level for TAK-662 collected post-dose without important protocol deviations/violations or events thought to significantly affect the PK.

### Safety Analysis Set in the Extension part 5.4

The Safety Analysis Set in the Extension part will include all study participants who take at least only 1 dose of TAK-662 in the extension part.

### 5.5 **Efficacy Analysis Set**

çe The Efficacy Analysis Set will include all study participants who take at least 1 dose of

 $\mathcal{O}$ 

# 6.0 STATISTICAL ANALYSIS

The start date in the extension part is the later date of (1) the date of informed consent for the extension part or (2) the day after the end of study date of PK part. In addition, the analysis will be performed on subjects who received each treatment to be the extension of the treatment to be added and the extension of the extension of the extension of the extension part or (2) the day after the end of study date of PK part.

In addition, the analysis will be performed on subjects who received each treatment type. There are three treatment types in the extension part. On-Demand Treatment Short-Term Prophylaxis Long-Term Prophylaxis

The duration for each treatment type is from the start date of the first dose of each treatment type to the last assessment day of that treatment.

### 6.1.1 Analysis Approach for Continuous Variables

Continuous variables will be summarized using the following descriptive statistics: the number of subjects, mean, median, standard deviation, minimum, maximum. 95% confidence interval (CI) of mean value will also be provided where needed.

### Analysis Approach for Categorical Variables 6.1.2

Categorical variables will be summarized by the number and percentage of subjects in each category (with a category for missing data as needed). exact 2-sided Clopper-Pearson 95% CI of percentage value will also be provided where needed. Unless otherwise stated, the denominator for percentages is N (the number of subjects in the analysis set).

### **Disposition of Subjects** 6.2

For the PK part:

The number and percent of subjects in each study analysis set (i.e., Screened, Safety and PK) will be presented for the Screened Set.

For the Safety Analysis Set, the number and percentage of subjects who completed or prematurely discontinued the treatment period will be presented. Reasons for premature discontinuation from the treatment period as recorded on the end of treatment page of the electronic case report form (eCRF) will be summarized (number and percentage). A subject data listing will present subject disposition for the Screened Set.

Inclusion and exclusion criteria violations, if any, will be presented in a listing for the Screened Set.

For the Extension part:

For the Safety Analysis Set, the number and percentage of subjects who signed the informed consent form of the extension part, subjects who received TAK-662 infusion in the extension part and subjects who completed or prematurely discontinued study in the extension part will be presented. Reasons for premature discontinuation from study in the extension part as recorded on S the end of study page of the eCRF will be summarized (number and percentage). A subject data listing will present subject disposition for all subjects who signed the informed consent form of the extension part.

For all subjects who signed the informed consent form of the extension part, the number and percentage of the Safety Analysis Set in the Extension part and the Efficacy Analysis Set will be presented. For the Safety Analysis Set in the Extension part and the Efficacy Analysis Set, the number and percentage of subjects by treatment type (on-demand treatment short-term prophylaxis, or long-term prophylaxis) will also be presented.

Also, the listing of inclusion and exclusion criteria violations in the extension part will be output for all subjects who signed the informed consent form of the extension part. andsi

### 6.2.1 **Protocol Deviations**

For the PK part:

The number and percent of subjects in each protocol deviation category by severity (critical, major and minor) will be presented for the Screened Set. A listing for protocol deviation will also be provided.

For the Extension part:

The number and percentage of subjects in each protocol deviation category by severity (critical, major and minor) will be presented for the Safety Analysis Set in the Extension part.

Also, the listing for protocol deviation in the extension part will be output for the Safety Analysis Set in the Extension part.

### 6.2.2 **Demographics**

For the PK part:

The baseline and demographic characteristics will be summarized for the Safety Analysis Set and PK Analysis Set with descriptive statistics. A listing for demographic characteristics data will also be provided. Demographic and baseline characteristics to be presented include:

- Age (at informed consent date) in years as a continuous parameter
- Sex
- Race
- Ethnicity

Page 16

ofUse

- Height (cm) at the Screening visit •
- Weight (kg) at the Screening visit •
- BMI (kg/m2) at the Screening visit •

BMI is calculated as weight  $(kg)/[height (m)]^2$ .

For the Extension part:

terms of Use The same analysis in the PK part will be performed for the Safety Analysis Set in the Extension part. The values used for analysis are also those of the PK part.

### 6.2.3 **Medical History and Concurrent Medical Conditions**

Medical and surgical history will be coded using the Medical Dictionary for Regulatory Activities (MedDRA). Investigator verbatim as well as preferred terms (PT) and system organ class (SOC) will be included in the listings. The medical history will be summarized by SOC and PT within SOC for the Safety Analysis Set, with SOC sorted alphabetically and PT within SOC by descending incidence. indsult

### 6.2.4 **Baseline Characteristics**

For the PK part:

The following subject history collected at the Screening visit will be summarized with the descriptive statistics for the Safety Analysis Set and PK Analysis Set: **7** 

- Duration of protein C deficiency diagnosed and protein C level at diagnosis ٠
- Current regimen for prophylactic treatment with protein C concentrate or including ٠ protein C ingredient (if applicable)
- Thrombotic events and skin necroses
- Previous treatment with blood products •

Duration of protein C deficiency will be calculated as (Date of ICF Signed – Date of Diagnosis of protein C deficiency +1)/365.25. If a date of diagnosis of protein C deficiency is incomplete for calculation, the missing day and/or month will be imputed with "01". If the year is missing, no imputation and calculation is performed.

The identification of previous treatment with blood products will be done by reviewing the actual medication data collected in eCRF.

Alisting for subject history data will also be provided.

For the Extension part:

The same analysis in the PK part will be performed for the Safety Analysis Set in the Extension part. The values used for analysis are also those of the PK part.

Page 17

### 6.3 **Medication History and Concomitant Medications**

Terms of Use A listing of all medications, both prior and concomitant, will be presented. The listing will be sorted by subject identifier and will include preferred name, reported name, dose, route of administration, start date, end date, indication, and type of medication (prior only, concomitant only, prior and concomitant).

### 6.3.1 **Prior Medications**

Prior medications will be coded using the WHO-DD (World Health Organization Drug.) Dictionary).

Prior medications are defined as medications with stop date prior to the date of JCF signed.

Prior medication use will be summarized by preferred name using the number and percentage of subjects for the Safety Analysis Set. Medications will be sorted by descending incidence by preferred name. Subjects with multiple occurrences of a medication in preferred name will only be counted once within each preferred name.

### 6.3.2 **Concomitant Medications**

Concomitant medications will also be coded using the WHO-DD.

For the PK part:

Concomitant medications are defined as medications with onset dates on or after the date of ICF signed, medications with onset dates prior to the date of ICF signed without a stop date, or medications with a stop date after the date of ICF signed.

Concomitant medications will be summarized in the same way as prior medications (refer to Section 6.3.1).

For the Extension part:

For concomitant medications after the start date of the extension part, the same analysis in the PK part will be performed for the Safety Analysis Set in the Extension part.

Also, the listing of concomitant medications in the extension part will be output for the Safety Analysis Set in the Extension part.

# Efficacy Analysis

For the Extension part:

Efficacy analyses will be performed for the Efficacy Analysis Set by treatment type.

- Efficacy Analysis Set in On-Demand Treatment •
- Efficacy Analysis Set in Short-Term Prophylaxis

Efficacy Analysis Set in Long-Term Prophylaxis •

The efficacy analyses by treatment type are as follows.

The treatment of episodes of PF/CISN/WISN and/or other vascular thromboembolic events will be rated as "effective", "effective with complications", or "not effective" according to the efficacy rating scale. The rating of treatment effect in Efficient. and subsequent) using descriptive statistics.

Short-Term Prophylaxis

Percentage of surgical episodes for which TAK-662 will be utilized as short-term prophylaxis, that is free of presentations of PF or thromboembolic complications will be calculated. PF or thromboembolic complications in Efficacy Analysis Set in Short-Term Prophylaxis will be summarized using descriptive statistics.

Long-Term Prophylaxis

Number of episodes of PF and/or thrombotic episodes while receiving long-term prophylaxis and rate of episodes of PF and/or thrombotic episodes per month (defined as 30.4375 days) will be calculated. Episodes of PF and/or thrombotic episodes in Efficacy Analysis Set in Long-Term Prophylaxis will be summarized using descriptive statistics.

Time to resolution and total dose received until resolution of episodes of PF/CISN/WISN and/or other vascular thromboembolic events will be summarized using descriptive statistics for the Efficacy Analysis Set in On-Demand Treatment.

- Time to Resolution of Episode (number of days): (date of last assessment date of first ٠ dose + 1) for each On-Demand Treatment period
- Total Dose Received until Resolution of Episode (IU/mL): Total amount of actual dose ٠ (IU/ml) for each On-Demand Treatment period

Duration of treatment periods will be summarized using descriptive statistics for the Efficacy Analysis Set in Short-Term Prophylaxis and Efficacy Analysis Set in Long-Term Prophylaxis.

- Duration of treatment periods of Short-Term Prophylaxis (number of days) : (date of last dose – date of first dose + 1) for each Short-Term Prophylaxis period
- Duration of treatment periods of Long-Term Prophylaxis (number of days) : (date of last dose – date of first dose + 1) for each Long-Term Prophylaxis period

Whisting for efficacy analysis data will also be provided for the Efficacy Analysis Set.

In addition, a listing for skin lesions of acute episodes of PF/CISN/WISN will be provided for the Efficacy Analysis Set.

### 6.5 **Safety Analysis**

plicable terms of Use The safety analysis will be performed using the Safety Analysis Set. Safety variables include AEs, clinical laboratory variables, vital signs, ECG variables and physical examination. For each safety variable, the last value collected before the first dose of the investigational product will be used as the baseline for all analyses of that safety variable.

For the extension part, safety analyses will be performed for the following.

- Safety Analysis Set in the Extension part •
- Safety Analysis Set in the Extension part in On-Demand Treatment •
- Safety Analysis Set in the Extension part in Short-Term Prophylaxis ٠
- Safety Analysis Set in the Extension part in Long-Term Prophylaxis  $^{\circ}$ •

### 6.5.1 **Adverse Events**

xC AEs will be coded using MedDRA. Investigator verbatim as well as PT and SOC will be included in the listings. SUL

For the PK part:

Treatment emergent AEs (TEAEs) are defined as AEs whose onset occurs, severity worsens, or intensity increases after receiving the study medication. AEs with an unknown date of onset and a stop date after the start of the study treatment or unknown stop date will be included as TEAEs. Any AE with a start date equal to the date of first dose, where the time of the AE cannot definitively place the start of the AE prior to the first dose, will be considered treatment emergent. AEs which are not treatment emergent will be flagged in listings.

AEs will be summarized overall using descriptive statistics (e.g., number and percent of subjects). The number of events will also be presented. Categories summarized will include any TEAEs, severity of TEAEs, relationship of TEAEs to study treatment, treatment emergent serious AEs (TESAEs), severity of TESAEs, relationship of TESAEs to study treatment and TEAEs leading to death.

TEAEs will be summarized using number and percentage of subjects. Subject incidence for AEs within each SOC and PT will be presented, unless otherwise specified. The number of events will also be presented. Categories summarized are as follows:

TEAEs

- Severity of TEAEs,
- Relationship of TEAEs to study treatment,
- TESAEs.

Presentation by SOC and PT will present SOC sorted alphabetically and PT within SOC by descending incidence. Listings will be provided for serious adverse events (SAEs) and AEs leading to death. The listings will be sorted by subject identifier and will include SOC, PT,

reported term, start date/time, end date/time, frequency, severity, relationship, action taken, and outcome.

For the Extension part:

The same analysis in the PK part will be performed for the Safety Analysis Set in the Extension part, Safety Analysis Set in the Extension part in On-Demand Treatment, Safety Analysis Set in the Extension part in Short-Term Prophylaxis and Safety Analysis Set in the Extension part in Long-Term Prophylaxis.

Also, the listing of the extension part, which is the same as the PK part, will be output for the to the apr Safety Analysis Set in the Extension part.

### 6.6 **Clinical Laboratory Data**

For the PK part:

Clinical laboratory tests are to be performed at site visits with results processed by a central laboratory. Laboratory tests include the following (Table 1):

### Table 1 **List of Laboratory Tests**

# **Hematology:**

# **Biochemistry:**

- Hematocrit
- Hemoglobin
- Platelet count •
- Red blood cell count •
- Urine β-HCG

• Alanine aminotransferase

**Pregnancy tests** (females of childbearing potential):

- FSH
- White blood cell count •
- White blood cell count with
- differential

Laboratory parameters will be presented in standard international (SI) units. The summaries will be based on central lab results only.

Ouantitative results will be summarized for hematology and serum chemistry at each scheduled visit. Both actual values and change from baseline will be summarized. Laboratory results data will be presented in a listing for each lab panel (chemistry and hematology) by subject, visit, and parameter. Laboratory values outside of the normal range will be flagged. Urine pregnancy results will be presented in a listing only.

For the Extension part:

O

The same analysis in the PK part will be performed. For the Safety Analysis Set in the Extension part in On-Demand Treatment, Safety Analysis Set in the Extension part in Short-Term Prophylaxis and Safety Analysis Set in the Extension part in Long-Term Prophylaxis, quantitative results will be summarized for hematology and serum chemistry at each scheduled

ofUse

*Me

× ×0

visit. However, only actual values will be summarized in On-Demand Treatment (change from baseline will not be included).

Termsofuse Also, the listing of the extension part, which is the same as the PK part, will be output for the Safety Analysis Set in the Extension part.

### Vital Signs, Body Weight and BMI 6.7

For the PK part:

Descriptive statistics will be used to summarize the vital signs (i.e., systolic blood pressure, diastolic blood pressure, pulse rate, respiratory rate, and body temperature) by scheduled visit for the Safety Analysis Set. Both actual values and changes from baseline will be summarized.

A listing for vital signs data will also be provided.

For the Extension part:

The same analysis in the PK part will be performed. For the Safety Analysis Set in the Extension part in On-Demand Treatment, Safety Analysis Set in the Extension part in Short-Term Prophylaxis and Safety Analysis Set in the Extension part in Long-Term Prophylaxis, descriptive statistics will be used to summarize the vital signs by scheduled visit. However, only actual values will be summarized in On-Demand Treatment (change from baseline will not be included).

Also, the listing of the extension part, which is the same as the PK part, will be output for the Safety Analysis Set in the Extension part.

### 6.8 Electrocardiogram

The number and percentage of subjects with each type of ECG finding (Normal/Abnormal, Not Clinically Significant/Abnormal, Clinically Significant) will be presented for the Safety Analysis Set. All ECG data will be listed.

### Extent of Exposure and Compliance 6.9

For the PK part:

All exposure data will be listed.

For the Extension part:

The listing of the extension part, which is the same as the PK part, will be output for the Safety Analysis Set in the Extension part.

### 6.10 **Pharmacokinetic Analyses**

### 6.10.1 **Pharmacokinetic Parameters**

applicable terms of Use The PK parameters will be derived and estimated based on measured Protein C activity in plasma using non-compartmental analysis (NCA) in accordance with the Clinical Pharmacology Analysis Plan (CPAP) generated separately.

### 6.10.2 **Statistical Analysis of Pharmacokinetic Data**

Details will be provided in the CPAP.

### 6.11 **Other Analyses**

### 6.11.1 **Physical Examination**

The physical examination data will be listed for all subjects in the Safety Analysis Set.

### 6.11.2 **Protein C activity**

For the Extension part:

The protein C activity data will be listed for all subjects in the Safety Analysis Set in the use only ar Extension part.

### 6.12 **Interim Analyses**

For the PK part:

Interim analyses of study data will be undertaken as described below. No adaptive design or data monitoring committee is planned for this study. One formal interim data analyses to support the Japanese New Drug Application submission will be completed. It will summarize safety and PK of treatment with TAK-662 in Japanese subjects with homozygous or double heterozygous congenital protein C deficiency. The first interim analysis will be conducted when all enrolled subjects have reached last visit of PK part. The target data is all data obtained at this point in PK part. An interim clinical study report summarizing data will be prepared.

For the Extension part:

An interim analysis for the Extension part will be performed using the cut-off data of September 30, 2022. The required analyses are all tables and listings for the Safety Analysis Set in the Extension part or the Efficacy Analysis Set. (These are indicated in "For the Extension part:" of Section 6.2, Section 6.2.1, Section 6.2.2, Section 6.2.4, Section 6.3.2, Section 6.4, Section 6.5.1, Section 6.6, Section 6.7, and Section 6.9.) Analysis by treatment type will be performed only for the treatment type that occurred.

# Property of Takese For non-commercial use only and subject to the applicable terms of Use

Page 24

# 9.0 APPENDIX

### 9.1 **Changes from the Previous Version of the SAP**

Not Applicable.

### 9.2 **Data Handling Conventions**

### 9.2.1 **General Data Reporting Conventions**

Termsofuse The small sample size resulting from the small study population requires the use of descriptive statistics with a goal of summarizing the sample and thus discourages the use of inferential the apt statistics.

Descriptive statistics will be presented as follows:

The following rules will be followed for decimal places and rounding:

- Unless otherwise specified, means (arithmetic and geometric) and medians will be ٠ rounded and presented to 1 decimal place more than the raw data and standard deviations to 2 decimal places more than the raw data. Minimum and maximum values will be presented to the same number of decimal places as the raw data.
- Unless otherwise specified, percentages should be presented to one decimal place. Less than signs (i.e., '<') should be presented as appropriate (e.g., 0.04% should be presented as < 0.1%, not 0.0%). This rule also applies to CV (%).
- BMI and duration of protein C deficiency diagnosed should be rounded to 1 decimal place • for reporting.

Study day will be calculated as follows;

- If the evaluation date is on or after the date of first day of study medication: Study day = date of evaluation - first day of study medication + 1
- If the evaluation date is before the date of first day of study medication: • Study day = date of evaluation - first day of study medication

### **Definition of Baseline** 9.2.2

# For the PK part:

For summary purposes, the baseline value will be defined as the last available pre-dose value.

For the Extension part:

The baseline value in Short-Term Prophylaxis will be defined as the last available pre-surgery value in the extension part before the first dose of TAK-662 in the extension part.

The baseline value in Long-Term Prophylaxis will be defined as the last available predose value in the extension part before the first dose of TAK-662 in the extension part.

Page 25

 Image of visits by

 Image of visit by

Table 2	Analysis	Visit of `	Vital Signs	in the PK part	
	•				

Analysis Visit	Analysis Timepoint
Baseline	Predose
Day 1	30 Min Postdose
Day 1	2 Hours Postdose
Day 1	4 Hours Postdose
Day 2	24 Hours Postdose

	0
Table 3	Analysis Visit of Vital Signs in the Extension part (On Domand Treatment)
I able 5	Analysis visit of vital Signs in the Extension part (On-Demand Treatment)

	EPOCH	VS.VISIT	VS.TPT O	Analysis Visit	Analysis Timepoint
	EXTENSION	On-Demand Treatment -	Predose	On-Demand Treatment -	Predose
		First Acute Episode	C'lo	First Acute Episode	
	EXTENSION	On-Demand Treatment First Acute Episode	Follow-up	On-Demand Treatment - First Acute Episode	Follow-up
	EXTENSION	On-Demand Treatment - Second and Subsequent Acute Episodes	Follow-up	On-Demand Treatment - Second Acute Episodes	Follow-up 2
oroperty	EXTENSION	On-Demand Treatment - Second and Subsequent Acute Episodes	Follow-up	On-Demand Treatment - Subsequent Acute Episodes	Follow-up 3

EPOCH	VS.VISIT	VS.TPT	Analysis Visit	Analysis Timepoint	1,50	
EXTENSION	Short-Term Prophylaxis	Pre-surgery	Short-Term Prophylaxis	Pre-surgery	SOL	
EXTENSION	Short-Term Prophylaxis	Day E2	Short-Term Prophylaxis	Day E2		
EXTENSION	Short-Term Prophylaxis	End of Treatment	Short-Term Prophylaxis	End of Treatment		
Table 5     Analysis Visit of Clinical Laboratory Evaluations       -Hematology- in the PK part						
Analysis Visit			, хО	-		
Baseline			-C`			

### Analysis Visit of Vital Signs in the Extension part (Short-Term Prophylaxis) Table 4

### Table 5 Analysis Visit of Clinical Laboratory Evaluations -Hematology- in the PK part

Analysis Visit	, ×0
Baseline	
Day 2	
Day 7/Follow-Up	250
	310

### Analysis Visit of Clinical Laboratory Evaluations -Hematology- in the Table 6 **Extension part (On-Demand Treatment)**

	EPOCH	VS.VISIT	VSTPT	Analysis Visit	Analysis Timepoint
	EXTENSION	On-Demand Treatment - First Acute Episode	Predose	On-Demand Treatment - First Acute Episode	Predose
	EXTENSION	On-Demand Treatment - First Acute Episode	Follow-up	On-Demand Treatment - First Acute Episode	Follow-up
	EXTENSION	On-Demand Treatment - Second and Subsequent Acute Episodes	Follow-up	On-Demand Treatment - Second Acute Episodes	Follow-up 2
operty	EXTENSION	On-Demand Treatment - Second and Subsequent Acute Episodes	Follow-up	On-Demand Treatment - Subsequent Acute Episodes	Follow-up 3
<i><b>Q</b></i> ^{<i>(</i>0)}					

# Table 7Analysis Visit of Clinical Laboratory Evaluations -Hematology- in the<br/>Extension part (Short-Term Prophylaxis)

EPOCH	VS.VISIT	VS.TPT	Analysis Visit	Analysis Timepoint	X
EXTENSION	Short-Term Prophylaxis	Pre-surgery	Short-Term Prophylaxis	Pre-surgery	150
EXTENSION	Short-Term Prophylaxis	End of Treatment	Short-Term Prophylaxis	End of Treatment	

# Table 8Analysis Visit of Clinical Laboratory Evaluations -Hematology in the<br/>Extension part (Long-Term Prophylaxis)

EPOCH	VS.VISIT	VS.TPT	Analysis Visit	Analysis Timepoint
EXTENSION	Long-Term Prophylaxis	Predose	Long-Term Prophylaxis	Predose
EXTENSION	Long-Term Prophylaxis	Treatment Period Month Y *	Long-Ferm Prophylaxis	Treatment Period Month Y*

*: Y represents the number of Months, which should be an integer. (Y=1, 2, 3, ...)

Table 9	Analysis Visit of Clinical Laboratory Evaluations - Chemistry- in the PK part
Analysis V	/isit C
Baseline	anto.

# 9.2.4 Handling of Missing Severity Assessment and Relatedness

If the severity is missing for an AE, then a severity of "Severe" will be assigned. Also, if the relationship is missing for an AE, then a severity of "Related" will be assigned.

The imputed values for severity assessment and relationship will be used for incidence summaries, while both the actual and the imputed values will be presented in data listings.

# 9.3 Analysis Software

Statistical analyses will be performed using Version 9.4 (or newer) of SAS[®] (SAS Institute, Cary, North Carolina, US) on a suitably qualified environment.

Pharmacokinetic parameters will be derived using noncompartmental methods with Phoenix[®] WinNonlin[®] Version 8.1 or higher (Certara, L.P. Princeton, New Jersey, US) and/or SAS[®] Version 9.4 or higher (SAS Institute, Inc., Cary, North Carolina, US).