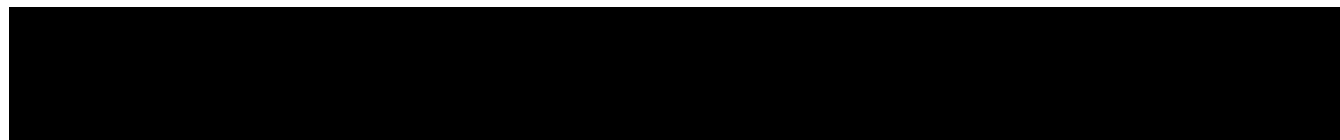
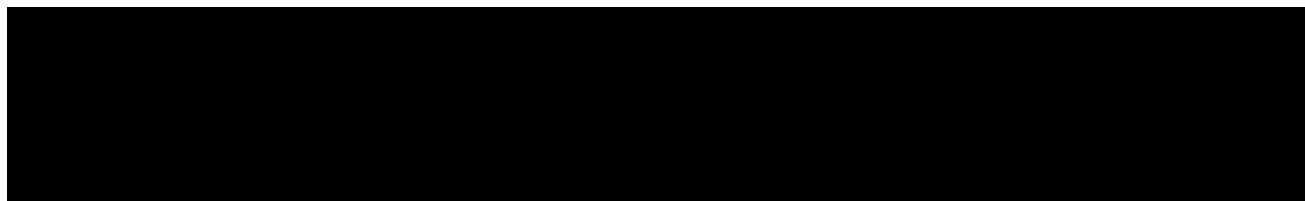




EU RISK MANAGEMENT PLAN (RMP)
for
LIVTENCITY® (Maribavir)

RMP Version number: 3.0

Date: 09-September-2025



EU Risk Management Plan for LIVTENCITY® (Maribavir)

RMP version to be assessed as part of this application:

RMP Version number: 3.0

Data lock point (DLP) for this RMP: 22-May-2025

Date of final sign off: 09-September-2025

Rationale for submitting an updated RMP: The risk management plan (RMP) is being updated to include the updated title of post-authorisation safety study (PASS) (TAK-620-4007) as approved by European Medicines Agency (EMA) dated 19-June-2025. Additionally, DLP is updated to 22-May-2025.

Summary of significant changes in this RMP:

RMP Module:	Significant Changes:
Part I Product Overview	Updated "Summary of mode of action" and "Indication" in line with the current approved Summary of Product Characteristics (SmPC).
Part II Safety Specification	
• Module SI Epidemiology of the indication(s) and target population(s)	Not applicable.
• Module SII Non-clinical part of the safety specification	Not applicable.
• Module SIII Clinical trial exposure	Clinical trial exposure data updated as of DLP 22-May-2025.
• Module SIV Populations not studied in clinical trials	Not applicable.
• Module SV Post-authorisation experience	Post-authorisation experience updated as of DLP 22-May-2025.
• Module SVI Additional European Union (EU) requirements for the safety specification	Not applicable.
• Module SVII Identified and potential risks	Updated clinical trial and Post-marketing details as of DLP 22-May-2025.
• Module SVIII Summary of the safety concerns	Not applicable.
Part III Pharmacovigilance plan	<ul style="list-style-type: none">Updated TAK-620-4007 PASS title "Retrospective chart review of safety outcomes associated with use of maribavir in patients with post-transplant refractory cytomegalovirus (CMV) infection and comorbid severe chronic kidney disease (CKD) or comorbid end-stage renal disease (ESRD), including patients on peritoneal dialysis or haemodialysis" (previously "Retrospective chart review of safety outcomes associated with use of maribavir in patients with post-transplant refractory cytomegalovirus (CMV) infection and comorbid end-stage renal disease (ESRD) or comorbid severe chronic renal disease requiring peritoneal dialysis or hemodialysis").

RMP Module:	Significant Changes:
	<ul style="list-style-type: none">Updated TAK 620-4007 PASS study rationale, objective and study population to reflect the changes made in the study title.Updated report submission milestone.
Part IV Plans for post-authorisation efficacy studies	Not applicable.
Part V Risk minimisation measures	Not applicable.
Part VI Summary of the risk management plan	Part II.C.1: Updated to be consistent with the template guidance.
Part VII Annexes	Annex 2: Updated to reflect the changes made in Part III.2. Annex 4: Included the updated version of the immunosuppressant drug level increased (ISDLI) targeted questionnaire. Annex 8: Updated to reflect the changes made from RMP v2.1 to v3.0.

Other RMP versions under evaluation: None.

Details of the currently approved RMP:

RMP Version number: 2.1

Approved with procedure: 25-March-2024

Date of approval (opinion date): EMEA/H/C/005787/IB/0010

QPPV name: Jean-Marie Heim, MD

Please note that e-signature may also be performed by [REDACTED] Deputy EU QPPV, [REDACTED] or [REDACTED] on behalf of the EU QPPV (i.e., 'per procuracionem').

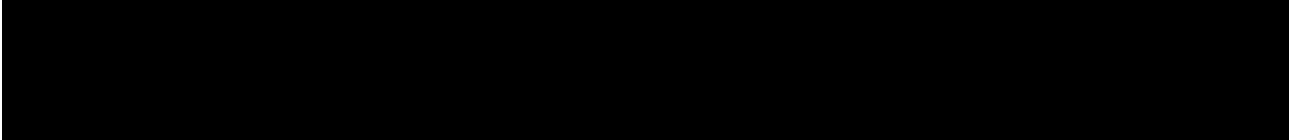
QPPV signature: [REDACTED] RMP signatures are kept on file.



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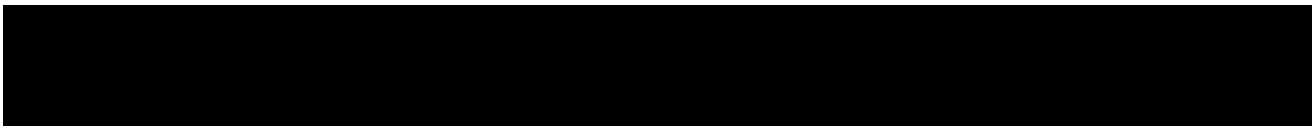
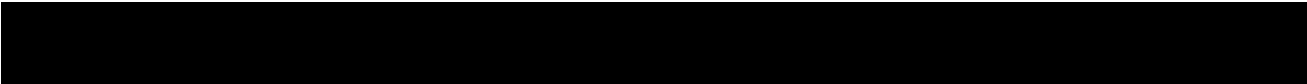
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List of Abbreviations

Abbreviation	Definition/Description
AEs	Adverse Events
AESI	Adverse Event of Special Interest
AIDS	Acquired Immunodeficiency Syndrome
ALT	Alanine Aminotransferase
AST	Aspartate Aminotransferase
ATC	Anatomical Therapeutic Chemical Classification
ATP	Adenosine Triphosphate
AUC	Area Under the Curve
BCRP	Breast Cancer Resistance Protein
BID	Twice a Day
CI	Confidence Interval
CKD	Chronic Kidney Disease
CMV	Cytomegalovirus
CNS	Central Nervous System
CV	Cardiovascular
CYP	Cytochrome P450
DDI	Drug-Drug interaction
DLP	Data Lock Point
DNA	Deoxyribonucleic Acid
EEA	European Economic Area
eGFR	Estimated Glomerular Filtration Rate
EMA	European Medicines Agency
EPAR	European Public Assessment Report
ESRD	End Stage Renal Disease
EU	European Union
GI	Gastrointestinal
GVHD	Graft-Versus-Host Disease
hERG	Human Ether-a-go-go Related Gene
HCV	Hepatitis C Virus
HIV	Human Immunodeficiency Virus
HSCT	Hematopoietic Stem-Cell Transplantation
IAT	Investigator Assigned Anti-CMV Treatment
INN	International Non-proprietary Name
ISD	Immunosuppressant Drug

Abbreviation	Definition/Description
ISDLI	Immunosuppressant Drug Level Increased
MATE	Multidrug and Toxin Extrusion transporter
MDRD	Modification of Diet in Renal Disease
NOAEL	No Observed Adverse Effect Level
OAT	Organic Anion Transporter
OATP	Organic Anion Transporting Polypeptide
OCT	Organic Cation Transporter
PASS	Post-Authorisation Safety Study
PBPK	Physiologically Based Pharmacokinetic
PK	Pharmacokinetic(s)
P-gp	P-Glycoprotein
PI	Product Information
PSUR	Periodic Safety Update Report
QPPV	Qualified Person Responsible for Pharmacovigilance
RMP	Risk Management Plan
RNA	Ribonucleic Acid
RSI	Reference Safety Information
SAE	Serious Adverse Event
SmPC	Summary of Product Characteristics
SOT	Solid Organ Transplantation
TEAE	Treatment-Emergent Adverse Event
UGT	Uridine 5'-diphospho-glucuronosyltransferase
ULN	Upper Limit of Normal

PART I: PRODUCT OVERVIEW

Table Part I.1 – Product Overview

Active substance(s) (INN or common name)	Maribavir
Pharmacotherapeutic group(s) (ATC Code)	Antivirals for systemic use, direct acting antivirals (J05AX10).
Marketing Authorisation Holder	Takeda Pharmaceuticals International AG Ireland Branch
Medicinal products to which this RMP refers	1
Invented name(s) in the European Economic Area (EEA)	LIVTENCITY
Marketing authorisation procedure	Centralised
Brief description of the product	<p>Chemical class: Benzimidazole ribosides</p> <p>Summary of mode of action: Maribavir is a competitive inhibitor of the UL97 protein kinase. UL97 inhibition occurs at the viral deoxyribonucleic acid (DNA) replication phase, inhibiting UL97 serine/threonine kinase by competitively inhibiting the binding of adenosine triphosphate (ATP) to the kinase ATP-binding site, without affecting the concatemer maturation process, abolishing phosphotransferase inhibiting CMV DNA replication and maturation, CMV DNA encapsidation, and CMV DNA nuclear egress.</p> <p>Important information about its composition: Maribavir drug product is provided as an immediate release film-coated tablet for oral administration, available in a single strength of 200 mg of maribavir. The maribavir 200 mg film-coated tablet is a blue, oval-shaped, convex tablet, debossed with 'SHP' on one side and '620' on the other side. The inactive ingredients are microcrystalline cellulose, sodium starch glycolate, magnesium stearate and blue Opadry II film coating.</p>
Hyperlink to the Product Information (PI)	Refer to eCTD Module 1.3.1 for proposed PI or latest approved PI.
Indication(s) in the EEA	<p>Current:</p> <p>LIVTENCITY is indicated for the treatment of CMV infection and/or disease that are refractory (with or without resistance) to one or more prior therapies, including ganciclovir, valganciclovir, cidofovir or foscarnet in adult patients who have undergone a haematopoietic stem cell transplant (HSCT) or solid organ transplant (SOT).</p> <p>Consideration should be given to official guidance on the appropriate use of antiviral agents.</p>

	Proposed: Not applicable.
Dosage in the EEA	Current: The recommended dose of LIVTENCITY is 400 mg (two 200 mg tablets) twice daily resulting in a daily dose of 800 mg for 8 weeks. Treatment duration may need to be individualised based on the clinical characteristics of each patient.
	Proposed: Not applicable.
Pharmaceutical form(s) and strengths	Current: Film-coated 200 mg tablet for oral use.
	Proposed: Not applicable.
Is/will the product be subject to additional monitoring in the EU?	Yes

PART II: SAFETY SPECIFICATION

PART II: MODULE SI - EPIDEMIOLOGY OF THE INDICATION(S) AND TARGET POPULATION(S)

Cytomegalovirus infection or disease in adult transplant patients who are refractory (with or without resistance) to prior therapy											
Incidence in transplant recipients:	Estimates of CMV infection and disease in European countries indicate that in SOT recipients, CMV infection occurs in up to 46.5% (France) and CMV disease can occur in up to 16.0% (Spain). Following HSCT in Spain, the incidence of CMV infection and disease has been observed in up to 53.8% and 4.8% of transplant recipients, respectively. A summary of European estimates of post-transplant CMV incidence and disease based on recent publications is presented below:										
	Table 1: Estimated Incidence Rates of CMV Infection and CMV Disease following SOT and allogeneic HSCT in European countries based on published studies										
	<table><tr><th>Transplantation</th><th>CMV Infection</th><th>CMV Disease</th></tr><tr><td>SOT</td><td>22.9% (Denmark) to 46.5% (France)</td><td>5.5% (Denmark) to 16.0% (Spain)</td></tr><tr><td>HSCT</td><td>29.0% (Germany) to 53.8% (Spain)</td><td>2.8% (Spain) to 4.8% (Italy)</td></tr></table>	Transplantation	CMV Infection	CMV Disease	SOT	22.9% (Denmark) to 46.5% (France)	5.5% (Denmark) to 16.0% (Spain)	HSCT	29.0% (Germany) to 53.8% (Spain)	2.8% (Spain) to 4.8% (Italy)	
Transplantation	CMV Infection	CMV Disease									
SOT	22.9% (Denmark) to 46.5% (France)	5.5% (Denmark) to 16.0% (Spain)									
HSCT	29.0% (Germany) to 53.8% (Spain)	2.8% (Spain) to 4.8% (Italy)									
Prevalence in general population:	Cytomegalovirus is a ubiquitous beta herpesvirus that commonly infects humans. Primary infection with CMV is typically asymptomatic. Serologic evidence of prior infection can be found in 40-100% of various adult populations. In donor blood samples drawn from 313 healthy volunteers with no medical history of CMV infection, CMV antibodies were detected in 117 (37%) of the samples, and CMV-specific ribonucleic acid (RNA) was detected in 136 (43%) of samples. Of the 196 samples negative for CMV antibodies, 44% tested positive for CMV RNA.										
Demographics of the target population in the proposed indication:	Annually, approximately 45,000 SOTs and 19,000 HSCTs are performed across Europe. Following a transplantation, CMV infection can result from the transmission of CMV virions from donor tissue, or from reactivation of a latent CMV infection in the transplant recipient. The risk of CMV infection is influenced by a number of factors such as the CMV serostatus of the donor and/or recipient, the type of organ transplanted, the net state of the host immunosuppression, and viral factors. Both directly and indirectly, CMV infection is the leading viral cause of morbidity and mortality amongst SOT recipients. Graft loss is a known significant and indirect effect of CMV disease in SOT recipients and can occur in 7.9% SOT recipients with CMV disease. In allogeneic HSCT recipients, patients with CMV infection have approximately 2-fold higher risk of overall mortality.										
Risk factors for the disease:	Immunocompromised individuals, including those treated with immunosuppressive drugs following HSCT or SOT, have the greatest risk for serious CMV disease. Seropositivity status of the donor and recipient is the main risk factor for invasive CMV disease in both HSCT and SOT. For HSCT, recipients who are seropositive (R+) at the time of										

Cytomegalovirus infection or disease in adult transplant patients who are refractory (with or without resistance) to prior therapy

	<p>transplant are at greatest risk for symptomatic CMV infection. Without prophylaxis, approximately 80% of CMV-seropositive patients experience CMV infection after allogeneic HSCT. Current preventive strategies have decreased the incidence of CMV disease, which had historically occurred in 20% to 35% of these patients [REDACTED]. In SOT, seronegative patients who receive seropositive grafts are also at increased risk for primary CMV transmission and clinical disease. In kidney transplant recipients, the highest incidence of symptomatic CMV infection (syndrome) or disease occurs in CMV seronegative recipients who receive a kidney from a CMV-seropositive donor (D+/R-) [REDACTED]. CMV disease is associated with increased morbidity, mortality, and poor long-term outcomes [REDACTED]. Allograft rejection is a major risk factor for CMV, especially when patients are treated with lymphocyte-depleting antibodies, and the risk of CMV varies by transplant type with vascularized composite allograft tissue and small intestinal transplant recipients at highest risk among SOT populations [REDACTED].</p> <p>Research has indicated that demographic factors (including age, sex, and race) do not play a significant role in CMV incidence following SOT [REDACTED]. However, older age may play a role in CMV reactivation following allogeneic-HSCT [REDACTED]. This may be due to the increased prevalence of CMV seropositivity in the general population with increasing age [REDACTED]. It should be noted that the prevalence of CMV seropositivity in the general population is greater in females and nonwhites [REDACTED].</p>
The main existing treatment options:	<p>There are limited therapeutic options available to treat CMV infection in the transplant population. Ganciclovir was approved by the EMA for the treatment of CMV disease in immunocompromised patients. Maribavir was approved in November-2022 to treat post-transplant CMV infection and/or disease that are refractory (with or without resistance) to one or more prior therapies.</p>
Natural history of the indicated condition in the untreated population, including mortality and morbidity:	<p>Serious CMV disease occurs almost exclusively in individuals with compromised or immature immune systems, including transplant recipients, patients with acquired immunodeficiency syndrome (AIDS), immunosuppressed cancer patients, and neonates. Disease manifestations include retinitis, colitis, esophagitis, pneumonia, hepatitis, and meningoencephalitis.</p> <p>Cytomegalovirus disease may present as CMV syndrome manifesting as fever, malaise, atypical lymphocytosis, leukopenia or neutropenia, thrombocytopenia, and elevated hepatic transaminases, or as end-organ CMV disease such as gastrointestinal (GI) disease, pneumonitis, hepatitis, nephritis, myocarditis, pancreatitis, encephalitis, retinitis, or other end-organ disease [REDACTED]. In SOT recipients, abnormal immune function in the transplanted allograft contributes to an increased likelihood of CMV invasion, thus increasing the risks of morbidity and graft loss [REDACTED]. Without prophylaxis, CMV disease typically occurs within 3 months following SOT and HSCT. Estimated incidences of early CMV disease (before day 100 post-transplant) and late CMV disease (after day 100) in CMV-seropositive allogeneic recipients are currently around 5% and 15% [REDACTED]. Both directly and indirectly, CMV infection is the leading viral cause of morbidity and mortality amongst SOT recipients [REDACTED]. Graft loss is a known significant and indirect effect of CMV disease in SOT recipients and can occur in 7.9% SOT recipients with CMV disease [REDACTED]. In allogeneic HSCT recipients, patients with CMV infection have approximately 2-fold higher risk of overall</p>

Cytomegalovirus infection or disease in adult transplant patients who are refractory (with or without resistance) to prior therapy

	mortality [REDACTED].
Important co-morbidities:	CMV disease is associated with an increased incidence of opportunistic infections, an association between CMV and graft-versus-host disease (GVHD) predominately in HSCT patients, and associations between CMV and graft rejection or other allograft pathology in SOT patients, and reduced patient survival [REDACTED]. Such organ-specific associations with CMV include bronchiolitis obliterans in lung recipients, vanishing bile duct syndrome in liver recipients, accelerated transplant vasculopathy in heart recipients and transplant glomerulopathy, transplant renal artery stenosis or increased risk of transplant rejection [REDACTED]. These effects are believed to be mediated by the virus's ability to modulate the immune system, either directly or secondary to the host antiviral response through regulation of cytokine, chemokine, and/or growth factor production.

PART II: MODULE SII - NON-CLINICAL PART OF THE SAFETY SPECIFICATION

A comprehensive non-clinical testing program including pharmacodynamics, secondary pharmacology, safety pharmacology, pharmacokinetics (PK), and toxicology has been completed to support oral dosing of maribavir in the treatment of transplant patients with CMV infection or disease resistant or refractory to current CMV agents. For the non-clinical development program rats and cynomolgus monkeys were selected as the primary rodent and nonrodent species, respectively.

The toxicological assessment of maribavir included single-dose oral and intravenous studies in mice and rats, and oral repeat-dose toxicity studies with dosing durations of up to 13 weeks in mice, 26 weeks in Sprague-Dawley rats, and 52 weeks in cynomolgus monkeys.

The genotoxic potential of maribavir was evaluated in-vitro in a bacterial reverse mutation and mouse lymphoma assays, and in vivo in a micronucleus assay in rats, and the carcinogenic potential of maribavir was assessed in lifetime bioassays in mice and rats. To establish the potential for reproductive and/or developmental toxicity, fertility, combined embryo/foetal development, and pre-and postnatal development studies were conducted in rats and/or rabbits, and juvenile toxicity was investigated in rats. Local irritation (eye and dermal) studies in rats, rabbits, and guinea pigs, immunotoxicity assessment in rats and an in-vitro phototoxicity study were also conducted.

Important safety findings from completed non-clinical studies with maribavir are summarised below.

Key Safety Findings	Relevance to human usage
Toxicity:	
Single and Repeat-dose toxicity studies	
<p>Mortality was observed following single doses in mice and rats at doses ≥ 500 mg/kg and $\geq 1,000$ mg/kg, respectively. In repeat-dose studies, mortality was observed in mice at doses ≥ 300 mg/kg/day (19 males and 18 females), and in rats at 400 mg/kg/day in the chronic 26-week study (1 male and 4 females). In the 52-week monkey study, 2 males at 400/300 mg/kg/day and 1 male at 200 mg/kg/day were euthanised in extremis.</p> <p>In pivotal repeat-dose oral toxicity studies in rats (6 months) and monkeys (12 months), the major findings were reversible regenerative anaemia and histologic change of mucosal cell hyperplasia in the intestinal tract associated with clinical observations of soft to liquid stool, electrolyte changes and dehydration, which were reversible or showed progression to recovery after cessation of dosing. The GI effects were representative of human GI-related adverse events (AEs). A no observed adverse effect level (NOAEL) was not established in monkeys and was therefore considered to be <100 mg/kg/day, the lowest dose tested. In rats, the NOAEL was considered to be 25 mg/kg/day. Whilst the NOAELs/lowest-observed-adverse-effect levels were at sub-therapeutic exposures, the key toxicities were reversible upon discontinuation of treatment and are clinically monitorable.</p>	<p>There is a potential for mild to moderate anaemia and/or GI-related events such as diarrhoea.</p>
Reproductive and Developmental Toxicity:	
Maribavir did not affect fertility or reproductive	Maribavir did not have an effect on fertility and

Key Safety Findings	Relevance to human usage
<p>performance in rats, nor was it teratogenic in rats (up to 400 mg/kg/day) or rabbits (up to 100 mg/kg/day). However, at doses ≥ 100 mg/kg/day in male rats a decrease in the sperm straight line velocity was observed, while in female pregnant rats a decrease in number of viable foetuses and increase in early resorptions and post-implantation losses were observed, likely due to maternal toxicity. In a pre- and postnatal developmental toxicity study in rats, decreased pup survival due to poor maternal care and reduced body weight gain associated with a delay in developmental milestones were observed at doses ≥ 150 mg/kg/day. However, the subsequent fertility and mating performance of these offspring, and their ability to maintain pregnancy and to deliver live offspring, were unaffected by maribavir.</p>	<p>is not considered to be teratogenic.</p> <p><u>Breast-feeding</u></p> <p>It is unknown whether maribavir or its metabolites are excreted in human milk.</p>
Genotoxicity:	
<p>Maribavir was not mutagenic in the bacterial mutation assay but demonstrated mutagenic potential in the absence of metabolic activation in the mouse lymphoma assay. However, in rat bone marrow micronucleus assay, maribavir was not clastogenic up to a very high oral dose of 1,200 mg/kg that elicited toxicity. Based on the totality of evidence from the studies conducted, maribavir is not considered to be genotoxic.</p>	<p>The weight of evidence from in-vitro and in-vivo genotoxicity studies indicate that maribavir does not exhibit genotoxic potential.</p>
Carcinogenicity:	
<p>Maribavir was not carcinogenic in the 2-year study in rats up to 100 mg/kg/day. No neoplastic lesions were observed up to doses of 300 mg/kg/day in the 13-week oral toxicity study in CD-1 mice. However, in a 2-year study in CD-1 mice, an equivocal increase in the incidence of haemangioma, hemangiosarcoma, and combined haemangioma/hemangiosarcoma across multiple tissues was noted in males given 150 mg/kg/day (high dose). These findings were not observed at doses ≤ 75 mg/kg/day.</p>	<p>For the treatment of CMV infection, maribavir will be administered to transplant patients twice a day for 8 weeks. Hence the increased incidence of haemangioma/hemangiosarcoma in male mice following daily administration for 104 weeks is of uncertain relevance in terms of its translation to human risk given the difference in frequency of administration and the lack of an effect in female mice or in rats after 104 weeks of administration, lack of any proliferative effects in male and female mice after 13 weeks of administration, and the negative genotoxicity package.</p>
Safety pharmacology:	
<p>In a series of safety pharmacology studies maribavir had no major effects on the central nervous system, cardiovascular, respiratory, or autonomic functions.</p> <p>There was no effect on human ether-a-go-go related gene (hERG) currents up to the highest maribavir concentration of 1,254 μg/mL.</p>	<p>No evidence of potential human risk to central nervous system (CNS), cardiovascular (CV), respiratory or autonomic functions.</p>

Key Safety Findings	Relevance to human usage
<p>The cardiovascular, respiratory and autonomic function were evaluated in the anesthetized dogs. At a bolus dose of maribavir 43 mg/kg there were increases in heart rate, with no significant effect on mean arterial pressure. A transient increase in respiratory rate and volume was observed that returned to pre-drug levels. There was no effect on autonomic function. ECGs were not evaluated in this study.</p> <p>A CV-telemetry study in animal models to assess the effects of maribavir on QTc intervals was not conducted. However, in a definitive TQT study in healthy human subjects, maribavir did not have clinically significant effects on repolarization (QTc interval) or other electrocardiographic parameters at 100 mg and 1,200 mg doses. The positive control moxifloxacin demonstrated the expected effects and assay sensitivity.</p>	
Other toxicity-related information or data:	
Immunogenicity	
<p>Maribavir did not demonstrate any immunogenicity in rats at doses up to 100 mg/kg/day.</p>	<p>Maribavir is considered not to have an any immunotoxic potential.</p>
Phototoxicity	
<p>In-vitro maribavir was not phototoxic at concentrations up to 100 µg/mL in BALB/c 3T3 mouse fibroblasts.</p>	<p>The potential for phototoxicity is considered unlikely.</p>
Drug-Drug Interaction	
<p>In-vitro maribavir is a weak time-dependent inhibitor for cytochrome P450 (CYP)3A4 and weak inducer of CYP3A4. PBPK modelling predicted a less than 2-fold increase in systemic exposure to maribavir following concomitant administration of CYP3A4 inhibitors such as ketoconazole, ritonavir, erythromycin, and diltiazem. However, CYP3A inducers significantly reduce maribavir exposure; therefore, to ensure antiviral efficacy (using the BID trough concentration at 12 hours as the marker), maribavir dose increase is necessary when concomitant administration with CYP3A inducers is needed.</p>	<p>Maribavir can be dosed with CYP3A inhibitors without dose adjustment, however, to ensure antiviral efficacy dose increase is necessary when concomitant administration with CYP3A inducers is needed.</p>
Mechanism for Drug Interactions	
<p>Maribavir is an in vitro substrate of CYP3A4 and to a minor extent by CYP1A2 and uridine 5'-diphospho-glucuronosyltransferase (UGT) 1A3, UGT2B7, possibly UGT1A9, P-glycoprotein (P-gp), organic cation</p>	<p>The potential for drug-drug interactions is considered to be low. Dose adjustment of maribavir is only needed when maribavir is concomitant administered with a strong or moderate CYP3A4 inducer. With the exception of</p>

Key Safety Findings	Relevance to human usage
<p>transporter (OCT) 1, and breast cancer resistant protein (BCRP).</p> <p>In-vitro maribavir is a weak time-dependent inhibitor of CYP3A4 (nifedipine but not midazolam or testosterone), and weak inhibitor of CYP1A2, CYP2C9 and CYP2C19, P-gp, BCRP, organic anion transporting polypeptide (OATP) 1B1, OATP1B3, OCT1, organic anion transporter (OAT) 3, multidrug and toxin extrusion transporter (MATE)1, and bile salt export pump. Maribavir is also a moderate inhibitor of BCRP.</p> <p>In vitro, maribavir is a weak inducer of CYP3A4 and CYP1A2, but not CYP2B6.</p>	<p>selected immunosuppressants, digoxin and rosuvastatin, concomitant administration with maribavir does not impact the use or outcomes of a wide range of other drugs commonly used in the target patient population (refer to Section SVII).</p>

PART II: MODULE SIII - CLINICAL TRIAL EXPOSURE

Table SIII.1: Duration of exposure

Cumulative duration of exposure for treatment of refractory (with or without resistance) post-transplant CMV indication (person time)		
Duration of exposure* (Exposure to maribavir)	Patients	Person time (day)**
Median (min, max) days	57 (2, 64)	-
Distribution of days of exposure (days)		
1 to 14	10	95
15 to 28	11	285
29 to 42	8	285
43 to 56	83	4,463
>56	144	8,331
Total person time	256	13,389

*Exposure duration: Number of days between the date of the first dose and the date of last dose of maribavir.

**Person time (day) is defined as the total number of days of exposure for all subjects who received maribavir 400 mg BID either as the study assigned treatment or as rescue treatment in 303 study.

Table SIII.2: Estimated Cumulative Subject Exposure to Maribavir from Clinical Studies by Age and Gender

Age Range (years)	Number of Subjects		Person time (days)*	
	Male	Female	Male	Female
<18	24	12	1,115	588
18 – 44	431	270	14,847	11,274
45 – 64	625	400	44,993	20,523
>64	150	86	10,634	5,003
Unknown	0	0	0	0
Total	1,230	768	71,589	37,388

Note: Data Lock Point (DLP) is 22-May-2025.

*Person Time (Days) is defined as the total number of days of exposure for all subjects who received maribavir.

Table includes subjects from completed studies: 1263-100, 1263-101, 1263-102, 1263-103, 1263-104, 1263-105, 1263-106, 1263-107, 1263-108, 1263-109, 1263-110, 1263-115, 1263-200, 1263-300, 1263-301, 1263-202, 1263-203, SHP620-302, SHP620-303, CMAB-1001, CMAB-1002, CMAA-1003, CMAA-1004, TAK-620-1019, TAK-620-1020, TAK-620-1024, TAK-620-1025, TAK-620-3001 and ongoing studies TAK-620-2004 and TAK-620-3002.

Table SIII.3: Dose

	Maribavir dose (in mg/day)										
Study type	50	100	200	300	400	600	800	1,200	1,600	1,800	2,400
Phase 1											
Single-Dose Studies (Healthy, Renally Impaired, Hepatically Impaired) ¹	-	66	84	-	141	-	12	51	-	-	-
Single-Dose, Dose-Escalation Studies (Healthy & HIV [human immunodeficiency virus) -positive subjects) ²	10	22	10	-	23	-	22	-	22	-	-
Multiple-Dose Studies (Healthy & Renal Transplant Recipients) ³	-	-	-	-	-	-	87	-	-	-	-
Multiple-Dose Studies (HIV-positive subjects) ⁴	-	-	-	11	-	12	-	17	-	12	18
Phase 1 total subjects ⁵	467										
Phase 2 & 3 (Transplant Recipients)											
1263-200	-	-	28	-	28	-	26	-	-	-	-
1263-300	-	-	451	-	-	-	-	-	-	-	-
1263-301	-	-	147	-	-	-	-	-	-	-	-
SHP620-202	-	-	-	-	-	-	40	-	40	-	40

	Maribavir dose (in mg/day)										
Study type	50	100	200	300	400	600	800	1,200	1,600	1,800	2,400
SHP620-203	-	-	-	-	-	-	40	-	40	-	39
SHP620-302	-	-	-	-	-	-	273	-	-	-	-
SHP620-303	-	-	-	-	-	-	256	-	-	-	-
TAK-620-3001	-	-	-	-		-	41	-	-	-	-
TAK-620-2004*	-	-	-	-	3	-	32	-	-	-	-
TAK-620-3002	-	-	-	-	-	-	7	-	-	-	-
Phase 2 & 3 Total Subjects⁵	1,531										
Total Subjects Exposed to Maribavir⁵	1,998										

Note: DLP is 22-May-2025.

Table includes subjects from completed studies: 1263-100, 1263-101, 1263-102, 1263-103, 1263-104, 1263-105, 1263-106, 1263-107, 1263-108, 1263-109, 1263-110, 1263-115, 1263-200, 1263-300, 1263-301, 1263-202, 1263-203, SHP620-302, SHP620-303, CMAB-1001, CMAB-1002, CMAA-1003, CMAA-1004, TAK-620-1019, TAK-620-1020, TAK-620-1024, TAK-620-1025, TAK-620-3001 and ongoing studies TAK-620-2004 and TAK-620-3002.

1) Studies 1263-101, 1263-102, 1263-103, 1263-104, 1263-106, 1263-108, 1263-109, TAK-620-1019, TAK-620-1020, TAK-620-1025.

2) Studies CMAB-1001, CMAB-1002; Includes study designs in which a given subject may have received more than one dose regimen; subjects are counted once in each group in which they received a dose.

3) Studies 1263-100, 1263-105, 1263-107, 1263-110, 1263-115.

4) Studies CMAA-1003, CMAA-1004.

5) Number of subjects exposed to any one or more dose regimens of maribavir.

*Subjects are counted according to the starting dose

Table SIII.4: Estimated Cumulative Subject Exposure to Maribavir from Completed Clinical Studies by Ethnic Group

Ethnic Group	Number of Subjects	Person Time (Days)*
American Indian or Alaskan Native	4	88
Asian	133	6,206
Black or African American	202	7,491
Native Hawaiian or Other Pacific Islander	7	254
White	1,604	92,794
Other	42	1,846
Unknown	6	298
Total	1,998	108,977

Note: DLP is 22-May-2025.

*Person time (day) is defined as the total number of days of exposure for all subjects who received maribavir. Table includes subjects from completed studies: 1263-100, 1263-101, 1263-102, 1263-103, 1263-104, 1263-105, 1263-106, 1263-107, 1263-108, 1263-109, 1263-110, 1263-115, 1263-200, 1263-300, 1263-301, 1263-202, 1263-203, SHP620-302, SHP620-303, CMAB-1001, CMAB-1002, CMAA-1003, CMAA-1004, TAK-620-1019, TAK-620-1020, TAK-620-1024, TAK-620-1025, TAK-620-3001 and ongoing studies TAK-620-2004 and TAK-620-3002.

PART II: MODULE SIV - POPULATIONS NOT STUDIED IN CLINICAL TRIALS

SIV.1. EXCLUSION CRITERIA IN PIVOTAL CLINICAL STUDIES WITHIN THE DEVELOPMENT PROGRAMME

Table SIV.1: Exclusion criteria in pivotal clinical studies within the development programme

1. Pregnant or lactating women	
<u>Reason for exclusion:</u>	There is no clinical experience with maribavir in pregnant or nursing women. Therefore, the possibility of foetal harm during pregnancy is not known. It is unknown whether maribavir is excreted in human milk and has effect on breast-fed infant.
<u>Is it considered to be included as missing information?</u>	No.
<u>Rationale:</u>	Maribavir is not recommended during pregnancy and in women of childbearing potential not using contraception. Moreover, breast feeding should be discontinued during treatment with maribavir. Thus, there is no anticipated utilization in these populations.
2. Use in patients with severe hepatic impairment	
<u>Reason for exclusion:</u>	Subjects with Aspartate Aminotransferase(AST) >5x Upper limit of normal (ULN) or Alanine aminotransferase (ALT) > 5x ULN or total bilirubin >= 3x ULN were excluded from clinical studies. There is no experience with the use of maribavir in subjects with severe hepatic impairment.
<u>Is it considered to be included as missing information?</u>	No.
<u>Rationale:</u>	In study 1263-103, patients with moderate hepatic impairment showed substantially slower elimination and higher plasma concentrations of maribavir than healthy patients given the same dose. However, this increased exposure to maribavir is not considered clinically significant. It is expected that severe hepatic impairment will not lead to a clinically relevant increase of maribavir exposure.
3. Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	
<u>Reason for exclusion:</u>	There is no experience with the use of maribavir in subjects with ESRD including

3. Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	
	peritoneal dialysis or haemodialysis. Subjects in the clinical studies were post-transplant and not on dialysis. Subjects with renal dysfunction that had estimated glomerular filtration rate (eGFR) >30 mL/min/1.73m ² were included in most studies completed to date.
<u>Is it considered to be included as missing information?</u>	Yes.
<u>Rationale:</u>	Not applicable.

4. Use in patients with tissue invasive CMV disease with CNS involvement (including retinitis)	
<u>Reason for exclusion:</u>	Based on pre-clinical data, maribavir is not expected to cross the blood brain barrier in sufficient concentrations to treat CMV in the CNS.
<u>Is it considered to be included as missing information?</u>	No.
<u>Rationale:</u>	Maribavir CNS penetration is unlikely and based upon the limited pharmacokinetics (PK) data in non-clinical studies, maribavir levels in the CNS are expected to be low relative to plasma levels. Maribavir is not expected to be effective in treating CMV CNS infections (e.g., meningoencephalitis).

5. Use in patients with known seropositive status for human immunodeficiency virus (HIV)	
<u>Reason for exclusion:</u>	Positive serostatus for HIV is considered a clinically significant medical condition that could interfere with the subject's ability to comply with the requirements of the study or compromise the safety or well-being of the subject.
<u>Is it considered to be included as missing information?</u>	No.
<u>Rationale:</u>	Phase 1 studies were conducted in 3 single- and multiple-dose studies in HIV-positive subjects and subjects with AIDS. The most common treatment emergent adverse event (TEAE) was taste disturbance (dysgeusia) similar to other studies. There is no expectation for the safety to differ in HIV-positive subjects

5. Use in patients with known seropositive status for human immunodeficiency virus (HIV)

compared to the general population of transplant recipients.

SIV.2. LIMITATIONS TO DETECT ADVERSE REACTIONS IN CLINICAL TRIAL DEVELOPMENT PROGRAMMES

The clinical development programme is unlikely to detect certain types of adverse reactions such as rare adverse reactions, adverse reactions with a long latency, or those caused by prolonged or cumulative exposure.

SIV.3. LIMITATIONS IN RESPECT TO POPULATIONS TYPICALLY UNDER-REPRESENTED IN CLINICAL TRIAL DEVELOPMENT PROGRAMMES

Table SIV.2: Exposure of special populations included or not in clinical trial development programmes

Type of special population	Exposure
Pregnant women	Not included in the clinical development program.
Breastfeeding women	The average childbearing age, as defined by World Health Organization, is from 18-44 years. Refer to the Table SIII.2 for details on women of childbearing age.
Patients with relevant co-morbidities:	
Patients with hepatic impairment	Subjects with severe hepatic impairment were not included in the clinical development program. A Phase I open label study was conducted in subjects with moderate hepatic impairment (10 Subjects) versus normal hepatic function (10 Subjects) with 200 mg dose. Modest increases in maribavir total and unbound exposure in subjects with moderate hepatic impairment were not considered clinically significant.
Patients with renal impairment	A Phase I single-dose study with 400 mg maribavir dose was conducted in renally impaired (10 subjects with mild/moderate, 9 subjects with severe renal impairment) versus normal renal function (12 subjects) subjects. Mean PK parameter estimates based on total or unbound plasma drug concentrations for subjects with normal renal function (creatinine clearance >80 mL/min), mild/moderate renal impairment (30-80 mL/min), and severe renal impairment (<30 mL/min) were similar.

Type of special population	Exposure
Patients with cardiovascular impairment	Subjects who required mechanical ventilation or vasopressors for haemodynamic support (at the time of enrolment) were not included in clinical development program.
Immunocompromised patients	The study population in the program were immunocompromised patients. There is no data in transplant patients with co-infection with HIV or HCV. Patients with HIV or HCV co-infection were excluded in Phase 3 studies.
Patients with a disease severity different from inclusion criteria in clinical trials	Study SHP620-203 and Study SHP620-302 included subjects that did not have tissue invasive CMV disease or CMV syndrome.
Population with relevant different ethnic origin	Refer to the Table SIII.4 for exposure detail. Ethnicity (Hispanic/Latino vs non-Hispanic/Latino) did not have a clinically significant effect on the PK of maribavir.
Subpopulations carrying relevant genetic polymorphisms	Maribavir is primarily metabolized by CYP3A4 isozyme. No effect of genetic polymorphism of CYP3A4 on maribavir PK is expected.
Other	
Geriatric patients	Refer to the Table SIII.2 for details on geriatric patient's exposure. Based on the population PK analysis, there was no clinically relevant impact on maribavir PK exposure, the steady-state area under the curve (AUC) and C _{max} in patients aged >65 years and patients aged between 18 and 65 years.

PART II: MODULE SV - POST-AUTHORISATION EXPERIENCE

SV.1. POST-AUTHORISATION EXPOSURE

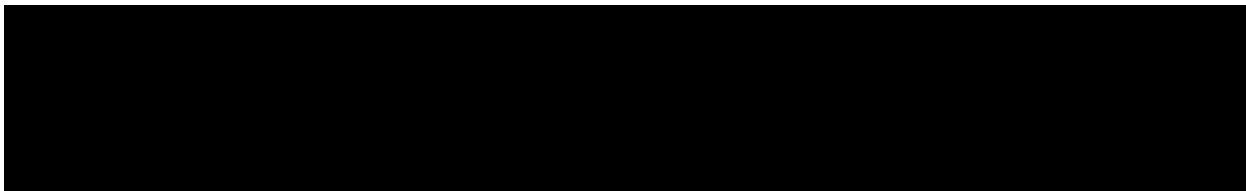
SV.1.1. Method used to calculate exposure

For maribavir, the methodology used to calculate the exposure assumes an average daily dose (ADD) of 400 mg (two 200 mg tablets) twice daily resulting in a daily dose of 800 mg for 8 weeks (56 days) based on the current reference safety information (RSI).

Person-years of exposure = [Total tablets sold / (56 days*4 tablets per day)]/365.25 days per year].

SV.1.2. Exposure

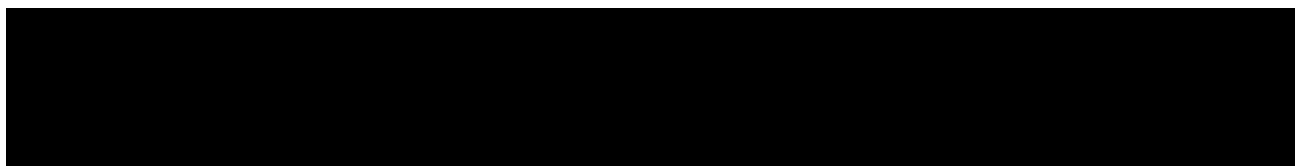
Based on the above methodology, the patient exposure can be estimated to be 15,920 ADDs cumulatively since launch to the DLP 22-May-2025 corresponding to approximately 43.6 patient-years of treatment cumulatively.



PART II: MODULE SVI - ADDITIONAL EU REQUIREMENTS FOR THE SAFETY SPECIFICATION

Potential for misuse for illegal purposes

Maribavir does not have potential for misuse for illegal purposes.



PART II: MODULE SVII - IDENTIFIED AND POTENTIAL RISKS

SVII.1. Identification of safety Concerns in the initial RMP submission

SVII.1.1 Risks not considered important for inclusion in the list of safety concerns in the RMP

Reason for not including an identified or potential risk in the list of safety concerns in the RMP

Risks with minimal clinical impact on patients (in relation to the severity of the indication treated):

- Taste disturbance (ageusia, dysgeusia, hypogeusia and taste disorder),
- Headache,
- Abdominal pain upper,
- Decreased appetite.

Taste disturbance (ageusia, dysgeusia, hypogeusia and taste disorder) is very commonly reported as a non-serious adverse reaction. These AEs rarely led to drug discontinuation (0.9%). For most patients, taste disturbance resolved while patients remained on therapy (37%) or resolved at a median of 7 days (Kaplan-Meier estimate, 95% CI: 4, 8) off treatment.

Headache, abdominal pain upper and decreased appetite are 'commonly' reported as non-serious adverse reaction. All these events are listed in Section 4.8 of the SmPC but are not associated with a relevant risk.

Adverse reactions with clinical consequences, even serious, but occurring with a low frequency and considered to be acceptable in relation to the severity of the indication treated:

None.

Known risks that require no further characterisation and are followed up via routine pharmacovigilance namely through signal detection and adverse reaction reporting, and for which the risk minimisation messages in the product information are adhered to by prescribers (e.g., actions being part of standard clinical practice in each EU Member state where the product is authorised):

- Taste disturbance
- Headache
- Diarrhoea, nausea, vomiting
- Abdominal pain upper
- Fatigue
- Decreased appetite
- Weight decreased

The most 'common' and 'very common' reported adverse reactions were taste disturbance; headache; diarrhoea, nausea, vomiting; abdominal pain upper, fatigue, decreased appetite, weight decreased, and immunosuppressant drug concentration increased.

All these events are listed in Section 4.8 of the SmPC but are not associated with a relevant risk except for immunosuppressant drug concentration increased which is described below in [SVII.1.2](#).

Known risks that do not impact the risk-benefit profile

If co-administration of LIVTENCITY with other strong or moderate CYP3A inducers (e.g., carbamazepine, efavirenz, phenobarbital and phenytoin) cannot be avoided, the LIVTENCITY dose should be increased to 1,200 mg twice daily. Concomitant administration with maribavir does not

impact the use or outcomes of a wide range of other drugs commonly administered in the target patient population.

Other reasons for considering the risks not important:

Drug-Drug Interaction with statins: In-vitro data showed that maribavir is an inhibitor of BCRP ($IC_{50} = 7.05\mu M$). Based on physiologically based pharmacokinetic (PBPK) modelling results, concomitant administration of 400 mg BID maribavir with rosuvastatin, a sensitive BCRP substrate, is expected to increase rosuvastatin AUC by 2.15- to 2.94-fold, and C_{max} by 3.40- to 4.97-fold. However, in Phase 2 and Phase 3 studies, there was no increased risk of musculoskeletal disorders when maribavir was concomitantly administered with rosuvastatin or other commonly used statins in transplant patients with CMV infections ([Module.2.7.2](#)). Therefore, there is a possibility that PBPK may overpredict the in vivo effect of maribavir on rosuvastatin PK. This is discussed in SmPC Section 4.4; Section 4.5; and Package leaflet.

Drug-Drug Interaction with digoxin: Maribavir is an in-vitro inhibitor of P-glycoprotein (P-gp) transporter. In a clinical study, co-administration of LIVTENCITY increased plasma concentrations of digoxin: increased AUC by 21% and C_{max} by 25%. Given the narrow therapeutic window of digoxin, caution should be exercised when LIVTENCITY and digoxin are co administered. Serum digoxin concentrations should be monitored, and dose of digoxin may need to be reduced, as needed. (See Section 4.4 and 4.5 of the SmPC).

SVII.1.2. Risks considered important for inclusion in the list of safety concerns in the RMP

Important Identified Risk	Risk-benefit impact
None.	Not applicable.

Important Potential Risk	Risk-benefit impact
Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level	During the clinical development program, it was observed that concomitant administration of maribavir with tacrolimus resulted in increased tacrolimus C_{max} and AUC by 33% and 54% respectively. Approximately 10% of subjects in the pivotal 303 Study showed this adverse event of special interest (AESI) and most AESI were mild to moderate in severity. Thus, there is a potential to increase the drug concentrations of other immunosuppressants with a narrow therapeutic window (including cyclosporine, sirolimus and everolimus). This drug-drug interaction (DDI) could result in toxicities from elevated immunosuppressant levels (for example, infections, worsening of renal function which may lead to acute renal failure in severe cases). The risk of DDI can be mitigated by frequently monitoring of immunosuppressant drug levels throughout treatment with maribavir, especially following initiation and after discontinuation of maribavir and adjusting the dose as required. The post-authorisation safety profile will be evaluated through the routine pharmacovigilance activities.

Missing Information	Risk-benefit impact
Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	There is no experience of use of maribavir in patients with ESRD including peritoneal dialysis or haemodialysis. Due to limited experience, use of maribavir in this subpopulation is assessed as missing information.

SVII.2. NEW SAFETY CONCERNS AND RECLASSIFICATION WITH A SUBMISSION OF AN UPDATED RMP

Not applicable.

SVII.3. DETAILS OF IMPORTANT IDENTIFIED RISKS, IMPORTANT POTENTIAL RISKS, AND MISSING INFORMATION

SVII.3.1. Presentation of important identified risks and important potential risks

Important Potential Risk: Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level	
<u>Potential mechanisms:</u>	Concomitant administration of maribavir with tacrolimus increases exposure to tacrolimus, and this is most likely due to inhibition of CYP3A4 activity, P-glycoprotein or both.
<u>Evidence source(s) and strength of evidence:</u>	LIVTENCITY has the potential to increase the drug concentrations of immunosuppressant drugs that are CYP3A and/or P-gp substrates with narrow therapeutic ranges (including tacrolimus, cyclosporine, sirolimus and everolimus). In clinical trials, immunosuppressant drug level increase has been commonly reported while very few led to a serious adverse drug reaction.
<u>Characterisation of the risk:</u>	<p>Maribavir is metabolized primarily in the liver and is a substrate of CYP3A4 and the transport protein P-gp. In vitro, maribavir is an inhibitor of P-gp (IC₅₀ = 33.7 µM).</p> <p>A Phase 1 clinical study (Study 1263-105) conducted to evaluate the potential of drug-drug interactions demonstrated the following:</p> <p>Concomitant administration of maribavir (400 mg BID) with tacrolimus, a substrate of CYP 3A4 and P-gp, resulted in increased tacrolimus C_{max} and AUC by 33% and 54%, respectively.</p> <p>Administration of maribavir to healthy subjects indicated that maribavir is not a significant inhibitor of CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP2E1, and CYP3A4 and is a weak inhibitor of CYP2C19 and P-gp.</p> <p><u>SHP620-202</u></p> <p>In clinical study SHP620-202, 12/120 (10%) of all subjects who received maribavir experienced the adverse event of ISDLI. The number (%) of subjects reporting this adverse event (AE) were 4 (10%), 2 (5%), and 6 (15%) in the maribavir</p>

Important Potential Risk: Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level

400 mg BID, 800 mg BID, and 1,200mg BID groups, respectively. Eleven of these 12 subjects had events that were considered by the investigator to be related to maribavir therapy. The majority of events were mild to moderate in intensity; however, 3 subjects (1 subject in 800mg BID group and 2 subjects in 1,200 mg BID group) had events severe in intensity. One treatment-emergent serious adverse event (SAE) of acute kidney injury secondary to increased tacrolimus levels was reported in the subject who was in 1,200 mg BID group and the subject discontinued maribavir.

SHP620-203

In clinical study SHP620-203, 10/119 (8.4%) of all subjects treated with maribavir experienced ISDLI. The incidence of this event was 2/40 (5%), 2/40 (5%) and 6/39 (15.4 %) in the 400 mg BID, 800 mg BID, and 1,200 mg BID groups, respectively. This was not reported in the valganciclovir cohort. This was reported as related with 2 dose cohorts (800 mg and 1,200 mg) of maribavir in 4/119 (3.4%). Four subjects had events that were considered by the investigator to be related to maribavir, and this included the 2 subjects in the 1,200 mg BID who had severe symptoms. One event led to drug interruption in 800 mg BID dose. Two subjects in the 1200 mg BID group experienced severe symptoms (cachexia and toxic encephalopathy in one subject and ISDLI in the other subject). One treatment-emergent SAE of increasing tacrolimus levels was reported in the subject who was in 1200 mg BID group and the subject discontinued maribavir.

SHP620-303

The TEAE of ISDLI was reported in a higher proportion of subjects in the maribavir group (21/234, 9.0%) compared to the investigator-assigned anti-CMV treatment (IAT) group (1/116, 0.9%). In 6% (14 subjects), this TEAE was assessed as related to treatment in maribavir group and none in investigator assigned anti-CMV treatment (IAT) group. It was reported as a treatment-emergent SAE for 1 (0.4%) maribavir-treated subject. Amongst the 21 maribavir-treated subjects who had increased ISDLI reported as a TEAE, 19 subjects had tacrolimus concentration increased and 2 had sirolimus concentration increased. This TEAE was reported as severe for 2 subjects (tacrolimus), moderate for 6 subjects (tacrolimus), and mild for 13 subjects (11 for tacrolimus and 2 for sirolimus). Mean values of immunosuppressant drug levels varied across the study time points

Important Potential Risk: Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level

	<p>and did not show any consistent trends for increased immunosuppressant drug levels with maribavir treatment.</p> <p><u>SHP620-302</u></p> <p>In Study SHP620-302, events of ISDLI were reported in a similar proportion of subjects, 8 (2.9%) subjects in the maribavir group and 7 (2.6%) subjects in the valganciclovir group during the on-treatment period. The exposure-adjusted incidence rate of ISDLI was similar in the maribavir and valganciclovir groups (0.20 vs 0.18, respectively). The increased drug level of immunosuppressant was considered related to maribavir for 2 (0.7%) subjects. None of the ISDLI events were reported as serious. However, 3/8 subjects with these events in the maribavir group and 3/7 subjects with these events in the valganciclovir group had other concurrent SAEs, including SAEs of pleural effusion, acute GVHD in skin, and acute GVHD in intestine in the maribavir group and CMV infection, product use issue, and colitis and febrile neutropenia in the valganciclovir group. None of the concurrently reported SAEs in these 15 subjects are considered as related to the event of ISDLI. None of these 15 subjects had any associated renal TEAEs.</p> <p>Clinical data as of DLP 22-May-2025:</p> <p>Cumulatively until 22-May-2025, 12 cases including 12 events (9 serious and 3 non-serious) were received from Company-sponsored trials.</p> <p>The reported PTs were Toxicity to various agents (n=7), Immunosuppressant drug level increased (n=4) and Drug level increased (n=1). The outcome of the events was resolved (n=11) and fatal (n=1).</p> <p>Post Marketing data as of DLP 22-May-2025:</p> <p>Frequency parameter:</p> <p>Cumulatively until DLP 22-May-2025, 23 cases with 23 events were reported for this risk.</p> <p>Seriousness/outcome:</p> <p>Out of 23 events, 5 events were serious and remaining 18 were non-serious. The reported PTs were Immunosuppressant drug level increased (n=8), Drug level increased (n=7), Toxicity to various agents (n=4), and Immunosuppression (n=4). The outcome of the events was resolving (n=1), resolved (n=5) and unknown (n=17).</p>
<p><u>Risk factors and risk groups:</u></p>	<p>It is likely that AE of ISDLI is dose-dependent, and patient on the highest doses of maribavir are</p>

Important Potential Risk: Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level	
	at highest risk for drug interaction between maribavir and immunosuppressant drug (ISD). As this is a known interaction and has been formally studied, adjustment of the doses of ISD can be made. However, there is a need for more extensive monitoring of ISD concentration levels and potential for more frequent dose adjustments.
<u>Preventability:</u>	Frequently monitor immunosuppressant drug (including tacrolimus, cyclosporine, sirolimus and everolimus) levels throughout treatment with maribavir, especially following initiation and after discontinuation of maribavir and adjust the dose, as needed.
<u>Impact on the risk-benefit balance of the product:</u>	During the clinical development program, it was observed that concomitant administration of maribavir with CYP3A and/or P-gp substrate tacrolimus resulted in increased tacrolimus C_{max} and AUC by 33% and 54% respectively, thus there is a potential to increase the drug concentrations of other immunosuppressants with a narrow therapeutic window (including tacrolimus, cyclosporine, sirolimus and everolimus). This DDI could result in toxicities (for example, infections, worsening of renal function which may lead to acute renal failure in severe cases). The risk of DDI could be mitigated with the provision of specific guidance concerning this risk in label.
<u>Public health impact:</u>	Low.

SVII.3.2. Presentation of the missing information

Missing information: Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	
<u>Evidence source:</u>	Subjects with renal dysfunction that had eGFR >30 mL/min/1.73m ² (according to modification of diet in renal disease [MDRD] formula for adults or the Schwartz formula for subjects <18 years of age) were included in the Phase 3 studies SHP620-303 and SHP620 302. Subjects with ESRD (i.e., eGFR <15 mL/min/1.73m ²), including subjects on peritoneal dialysis or haemodialysis were excluded from the clinical development program; therefore, there is no clinical trial experience in this subpopulation.
Population in need of further characterisation:	Patients with ESRD including patients on peritoneal dialysis or haemodialysis.

PART II: MODULE SVIII - SUMMARY OF THE SAFETY CONCERNS

Table SVIII.1: Summary of safety concerns

Summary of safety concerns	
Important identified risks	<ul style="list-style-type: none">• None
Important potential risks	<ul style="list-style-type: none">• Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level
Missing information	<ul style="list-style-type: none">• Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis

PART III: PHARMACOVIGILANCE PLAN (INCLUDING POST-AUTHORISATION SAFETY STUDIES)

III.1. ROUTINE PHARMACOVIGILANCE ACTIVITIES

Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection:

Specific adverse reaction targeted questionnaire as mentioned below:

Specific adverse reaction follow-up questionnaires for “Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level”:

A specific adverse reaction targeted questionnaire for important potential risk of increased risk of serious adverse reactions due to an increase in immunosuppressant drug level will be sent.

Other forms of routine pharmacovigilance activities for safety concerns:

None.

III.2. ADDITIONAL PHARMACOVIGILANCE ACTIVITIES

TAK-620-4007 summary
<u>Study short name and title:</u> TAK-620-4007: Retrospective chart review of safety outcomes associated with use of maribavir in patients with post-transplant refractory cytomegalovirus (CMV) infection and comorbid severe chronic kidney disease (CKD) or comorbid end-stage renal disease (ESRD), including patients on peritoneal dialysis or haemodialysis.
<u>Rationale and study objectives:</u> This observational (noninterventional) study is designed to assess the safety of maribavir for the treatment of refractory CMV infections in HSCT and SOT recipients among patients with comorbid severe CKD or comorbid ESRD, including patients on peritoneal dialysis or haemodialysis in real-life conditions in the post-commercialization phase, as reported by the treating physicians. This study will also evaluate the occurrence of AEs of special interest (AESIs), including those assessed in the SHP620-302 and SHP620-303 trials. Primary objective: To characterise the safety of maribavir as prescribed in routine clinical practice in terms of occurrence of AEs in patients with post-transplant refractory CMV infection and comorbid severe CKD or comorbid ESRD, including patients on peritoneal dialysis or haemodialysis.
<u>Study design:</u> Retrospective, observational, noninterventional study
<u>Study population:</u> Approximately 10 European patients aged 18 years or older treated with maribavir for a refractory CMV infection who have comorbid severe CKD or ESRD including patients on peritoneal dialysis or haemodialysis. The current study involves a review of routine clinical information available in the medical charts of eligible patients before the study start.
<u>Milestones:</u> Progress report submission: February-2026. Final report submission: January-2028.

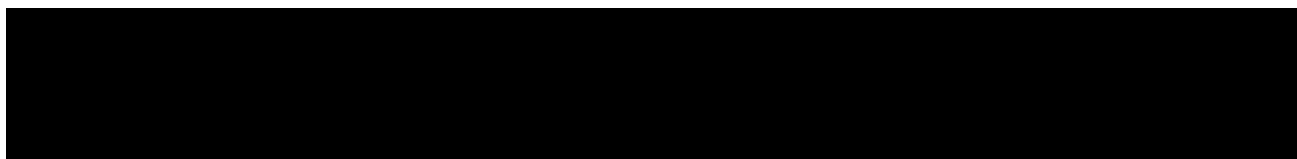
III.3. SUMMARY TABLE OF ADDITIONAL PHARMACOVIGILANCE ACTIVITIES

Table Part III.1: On-going and Planned Additional Pharmacovigilance Activities

Study Status	Summary of objectives	Safety concerns addressed	Milestones	Due dates
Category 1 - Imposed mandatory additional pharmacovigilance activities which are conditions of the marketing authorisation				
Not applicable.				
Category 2 – Imposed mandatory additional pharmacovigilance activities which are Specific Obligations in the context of a conditional marketing authorisation or a marketing authorisation under exceptional circumstances				
Not applicable.				
Category 3 - Required additional pharmacovigilance activities				
TAK-620-4007: Retrospective chart review of safety outcomes associated with use of maribavir in patients with post-transplant refractory cytomegalovirus (CMV) infection and comorbid severe CKD or comorbid ESRD including patients on peritoneal dialysis or haemodialysis. Planned.	To characterise the safety of maribavir as prescribed in routine clinical practice in terms of occurrence of AEs in patients with post-transplant refractory CMV infection and comorbid severe CKD or comorbid ESRD including patients on peritoneal dialysis or haemodialysis.	Missing Information: Use in patients with ESRD including peritoneal dialysis or haemodialysis.	Progress report submission Final report submission	February-2026 January-2028

PART IV: PLANS FOR POST-AUTHORISATION EFFICACY STUDIES

Not applicable.



PART V: RISK MINIMISATION MEASURES (INCLUDING EVALUATION OF THE EFFECTIVENESS OF RISK MINIMISATION ACTIVITIES)

Risk Minimisation Plan

V.1. ROUTINE RISK MINIMISATION MEASURES

Table Part V.1: Description of routine risk minimisation measures by safety concern

Safety concern	Routine risk minimisation activities
Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level	<p>Routine risk communication: SmPC Section 4.4; Section 4.5; and Section 4.8. PL Section 2.</p> <p>Routine risk minimisation activities recommending specific clinical measures to address the risk: The prescribers are informed of the potential for increased immunosuppressant drug level while patients are on maribavir therapy. The prescribers are advised to frequently monitor immunosuppressant drug level throughout LIVTENCITY treatment, especially following initiation and after discontinuation of LIVTENCITY and adjust the dose, as required.</p> <p>Other routine risk minimisation measures beyond the Product Information: Prescription only medicine.</p>
Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	<p>Routine risk communication: SmPC Section 4.2.</p> <p>Routine risk minimisation activities recommending specific clinical measures to address the risk: None.</p> <p>Other routine risk minimisation measures beyond the Product Information: None.</p>

V.2. ADDITIONAL RISK MINIMISATION MEASURES

Routine risk minimisation activities as described in [Part V.1](#) are sufficient to manage the safety concerns of the medicinal product.

V.3. SUMMARY OF RISK MINIMISATION MEASURES

Table Part V.3: Summary table of pharmacovigilance activities and risk minimisation activities by safety concern

Safety concern	Risk minimisation measures	Pharmacovigilance activities
Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level	<p>Routine risk minimisation measures: SmPC Section 4.4, Section 4.5, Section 4.8 and PL Section 2. The prescribers are informed of the potential for increased immunosuppressant drug level while patients are on maribavir therapy. The prescribers are</p>	<p>Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection: Immunosuppressant drug level increased Questionnaire</p> <p>Additional pharmacovigilance activities: None.</p>

Safety concern	Risk minimisation measures	Pharmacovigilance activities
	<p>advised to frequently monitor level of these immunosuppressant drugs (sirolimus, tacrolimus, everolimus, and cyclosporine) throughout treatment, especially following initiation and after discontinuation of LIVTENCITY and adjust the dose, as required.</p> <p>Additional risk minimisation measures: None.</p>	
<p>Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis</p>	<p>Routine risk minimisation measures: SmPC Section 4.2.</p> <p>Additional risk minimisation measures: None.</p>	<p>Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection: None.</p> <p>Additional pharmacovigilance activities: Planned study TAK-620-4007.</p>

PART VI: SUMMARY OF THE RISK MANAGEMENT PLAN

Summary of risk management plan for LIVTENCITY (Maribavir)

This is a summary of the risk management plan (RMP) for LIVTENCITY. The RMP details important risks of LIVTENCITY, how these risks can be minimised, and how more information will be obtained about LIVTENCITY's risks and uncertainties (missing information).

LIVTENCITY's summary of product characteristics (SmPC) and its package leaflet give essential information to healthcare professionals and patients on how LIVTENCITY should be used.

This summary of the RMP for LIVTENCITY should be read in the context of all this information including the assessment report of the evaluation and its plain-language summary, all which is part of the European Public Assessment Report (EPAR).

Important new concerns or changes to the current ones will be included in updates of LIVTENCITY's RMP.

I. THE MEDICINE AND WHAT IT IS USED FOR

LIVTENCITY is indicated for the treatment of cytomegalovirus (CMV) infection and/or disease that is refractory (with or without resistance) to one or more prior therapies, including ganciclovir, valganciclovir, cidofovir or foscarnet in adult patients who have undergone a haematopoietic stem cell transplant (HSCT) or solid organ transplant (SOT).

Further information about the evaluation of LIVTENCITY's benefits can be found in LIVTENCITY's EPAR, including in its plain-language summary, available on the EMA website, under the medicine's webpage:

[Livtency | European Medicines Agency \(EMA\)](#)

II. RISKS ASSOCIATED WITH THE MEDICINE AND ACTIVITIES TO MINIMISE OR FURTHER CHARACTERISE THE RISKS

Important risks of LIVTENCITY, together with measures to minimise such risks and the proposed studies for learning more about LIVTENCITY's risks, are outlined below.

Measures to minimise the risks identified for medicinal products can be:

- Specific information, such as warnings, precautions, and advice on correct use, in the package leaflet and SmPC addressed to patients and healthcare professionals;
- Important advice on the medicine's packaging;
- The authorised pack size – the amount of medicine in a pack is chosen so to ensure that the medicine is used correctly;
- The medicine's legal status – the way a medicine is supplied to the patient (e.g., with or without prescription) can help to minimise its risks.

Together, these measures constitute routine risk minimisation measures.

In addition to these measures, information about adverse reactions is collected continuously and regularly analysed including Periodic Safety Update Report (PSUR) assessment so that immediate action can be taken as necessary. These measures constitute routine pharmacovigilance activities.

If important information that may affect the safe use of LIVTENCITY is not yet available, it is listed under 'missing information' below.

II.A List of important risks and missing information

Important risks of LIVTENCITY are risks that need special risk management activities to further investigate or minimise the risk, so that the medicinal product can be safely taken. Important risks can be regarded as identified or potential. Identified risks are concerns for which there is sufficient proof of a link with the use of LIVTENCITY. Potential risks are concerns for which an association with

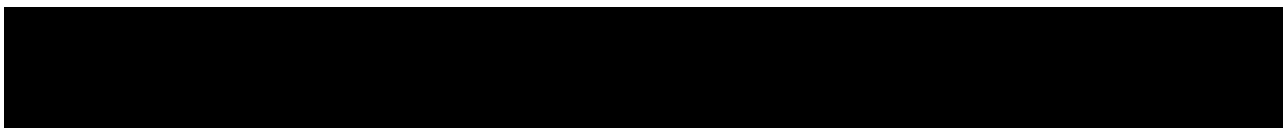
the use of this medicine is possible based on available data, but this association has not been established yet and needs further evaluation. Missing information refers to information on the safety of the medicinal product that is currently missing and needs to be collected (e.g., on the long-term use of the medicine);

List of important risks and missing information	
Important identified risks	<ul style="list-style-type: none"> None
Important potential risks	<ul style="list-style-type: none"> Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level.
Missing information	<ul style="list-style-type: none"> Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis.

II.B Summary of important risks

Important potential risk: Increased risk of serious adverse reactions due to an increase in immunosuppressant drug level	
Evidence for linking the risk to the medicine	LIVTENCITY has the potential to increase the drug concentrations of immunosuppressant drugs that are CYP3A and/or P-gp substrates with narrow therapeutic ranges (including tacrolimus, cyclosporine, sirolimus and everolimus). In clinical trials, immunosuppressant drug level increase has been reported while very few led to a serious adverse drug reaction.
Risk factors and risk groups	It is likely that this phenomenon is dose dependent, and patients on the highest doses of maribavir are at highest risk for drug interactions when maribavir is administered concomitantly with the immunosuppressant drug.
Risk minimisation measures	<p>Routine risk minimisation measures: SmPC Section 4.4, Section 4.5, Section 4.8 and PL Section 2.</p> <p>The prescribers are informed of the potential for increased immunosuppressant drug levels (tacrolimus, sirolimus, everolimus, cyclosporine) while on maribavir therapy. The prescribers are advised to frequently monitor these immunosuppressant drug levels throughout LIVTENCITY treatment, especially following initiation and after discontinuation of LIVTENCITY and adjust the immunosuppressant dose, as required.</p> <p>Additional risk minimisation measures: None.</p>
Additional pharmacovigilance activities	<p>Additional pharmacovigilance activities: None.</p>

Missing information: Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	
Risk minimisation measures	<p>Routine risk minimisation measures SmPC Section 4.2.</p> <p>Additional risk minimisation measures None.</p>
Additional pharmacovigilance	Additional pharmacovigilance activities:



Missing information: Use in patients with end stage renal disease (ESRD) including peritoneal dialysis or haemodialysis	
activities	TAK-620-4007 See section II.C of this summary for an overview of the post-authorisation development plan.

II.C. Post-authorisation development plan

II.C.1. Studies which are conditions of the marketing authorisation

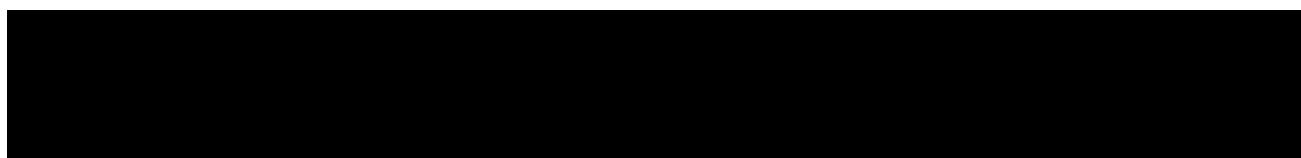
There are no studies which are conditions of the marketing authorisation or specific obligation of LIVTENCITY.

II.C.2. Other studies in post-authorisation development plan

Study number TAK-620-4007 (planned):

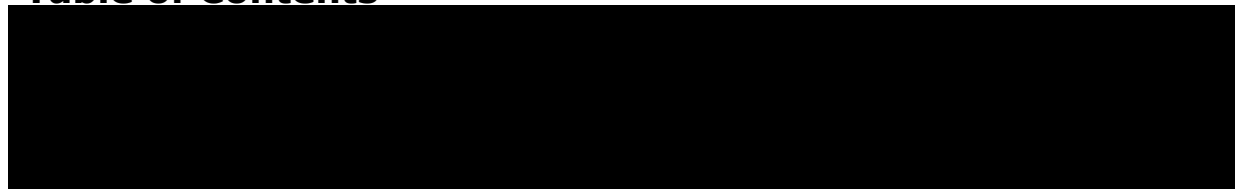
Purpose of the study: Safety of maribavir in the treatment of patients with CMV disease post-transplant has been previously demonstrated, but the effect of ESRD on maribavir safety remains unknown.

Primary objective: To characterise the safety of maribavir as prescribed in routine clinical practice in terms of occurrence of AEs in patients with post-transplant refractory CMV infection and comorbid severe CKD or comorbid ESRD, including patients on peritoneal dialysis or haemodialysis.



PART VII: ANNEXES

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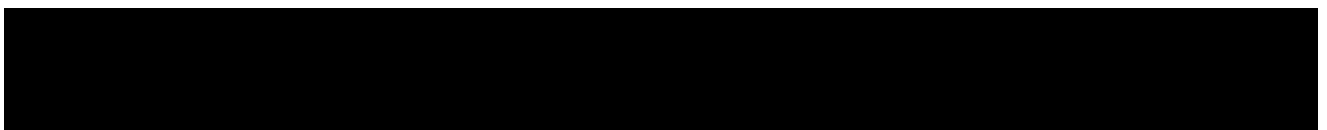


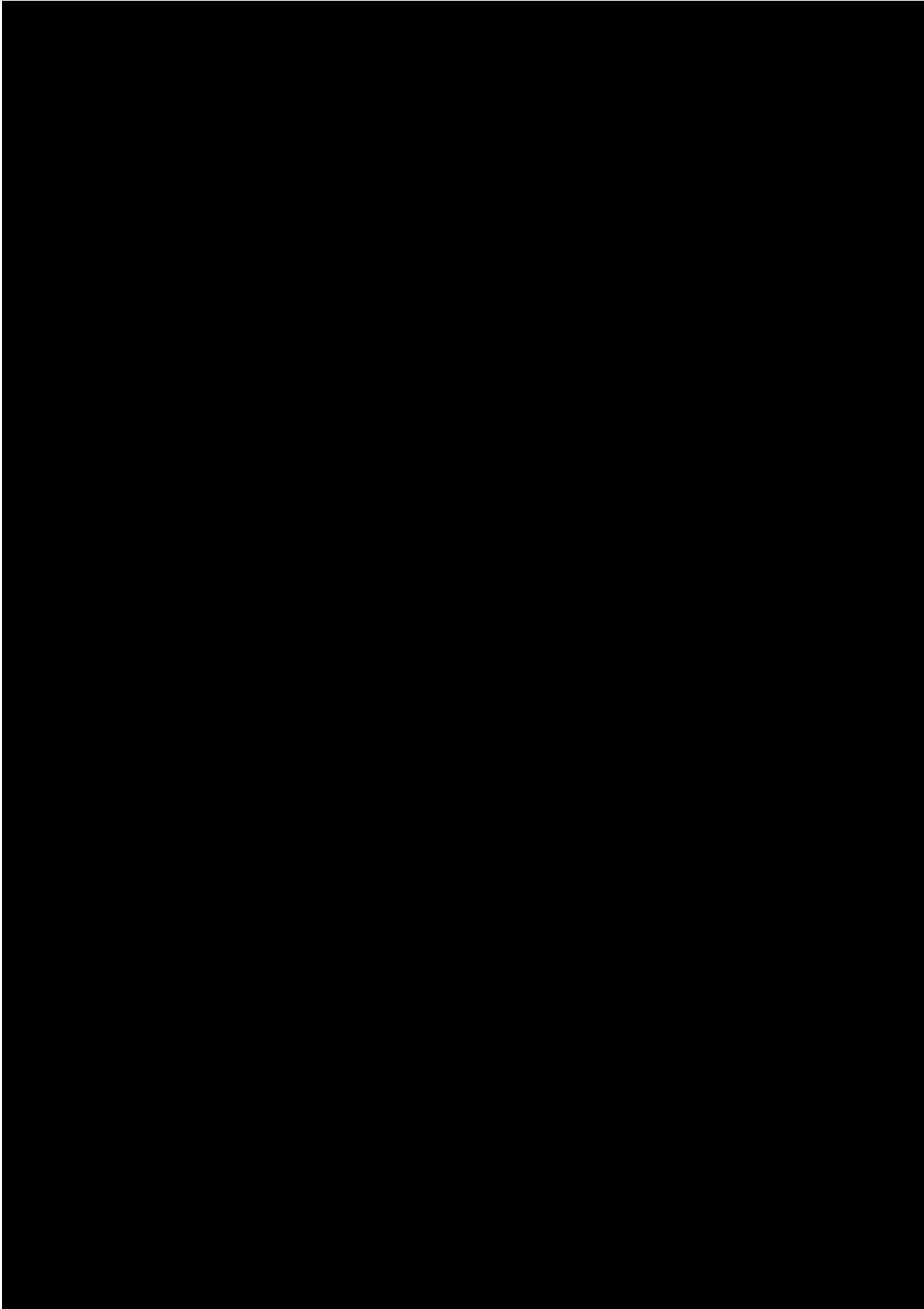
[Annex 4: Specific adverse drug reaction follow-up forms](#)

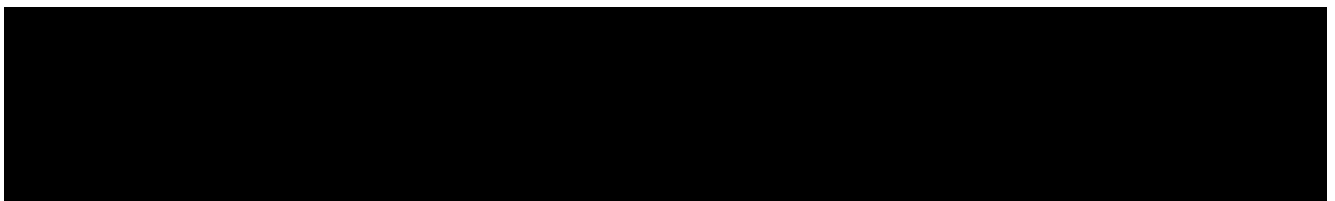
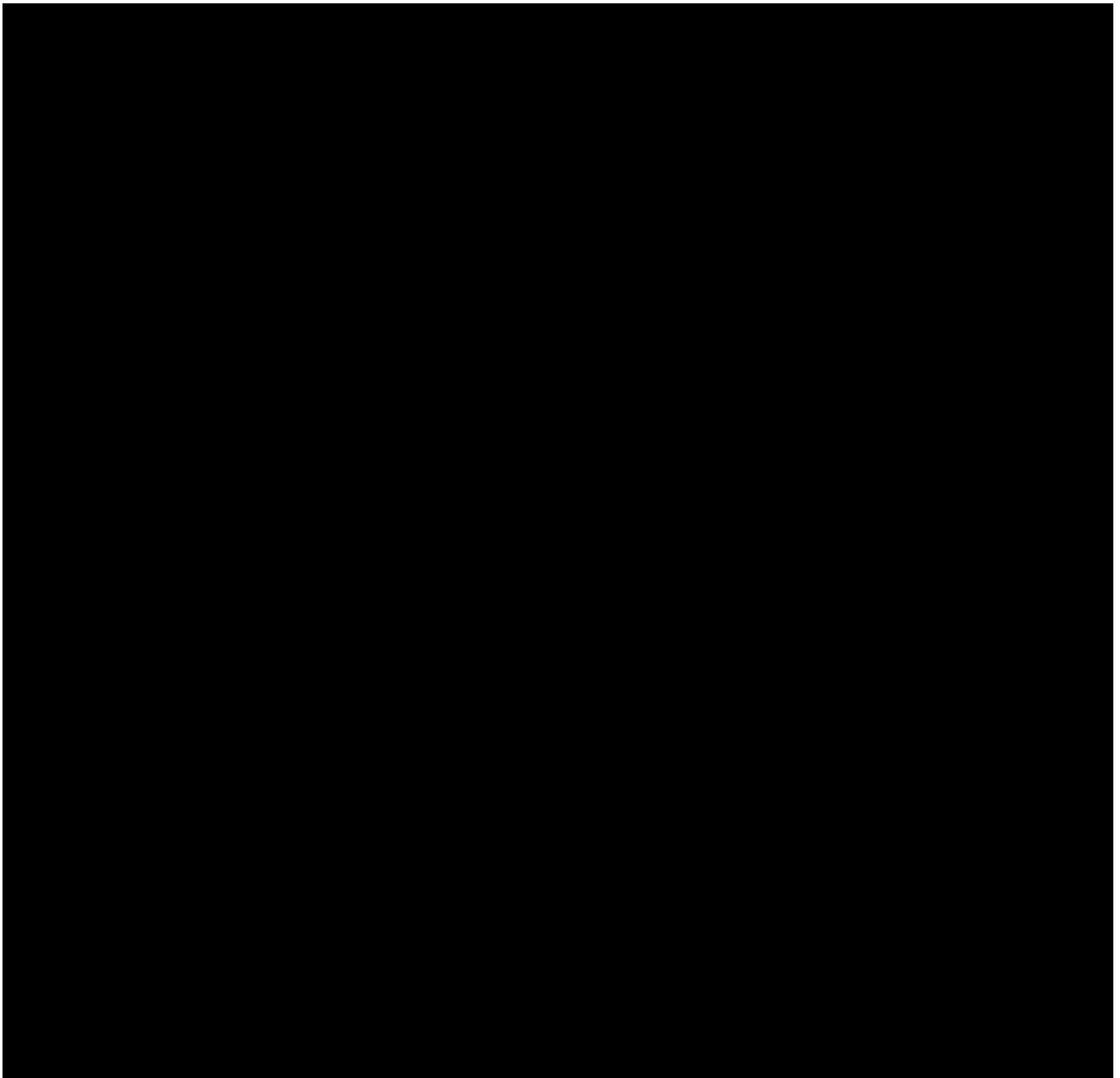


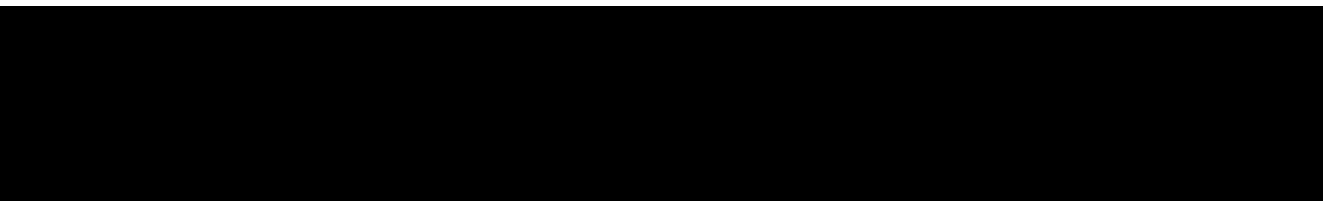
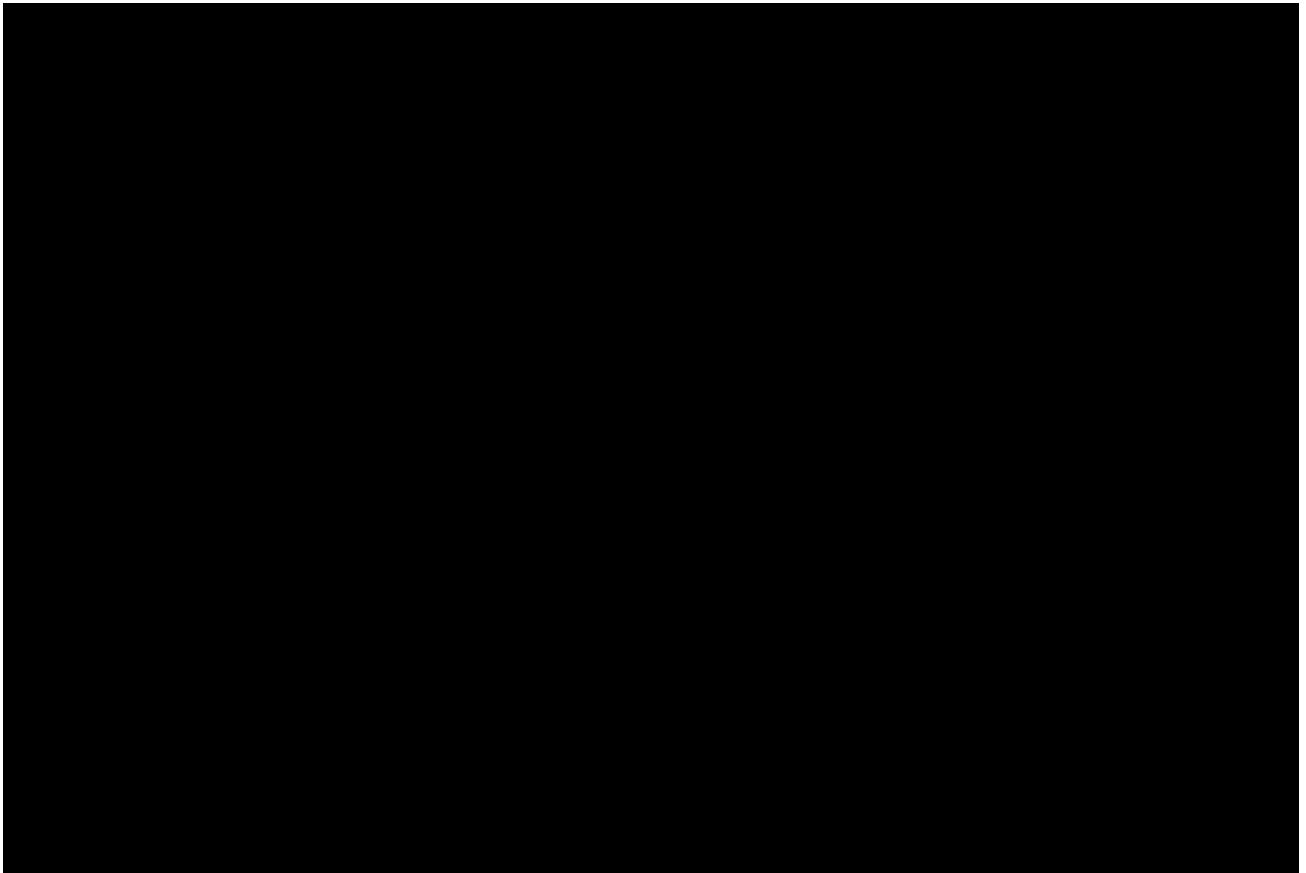
[Annex 6: Details of proposed additional risk minimisation activities \(if applicable\)](#)







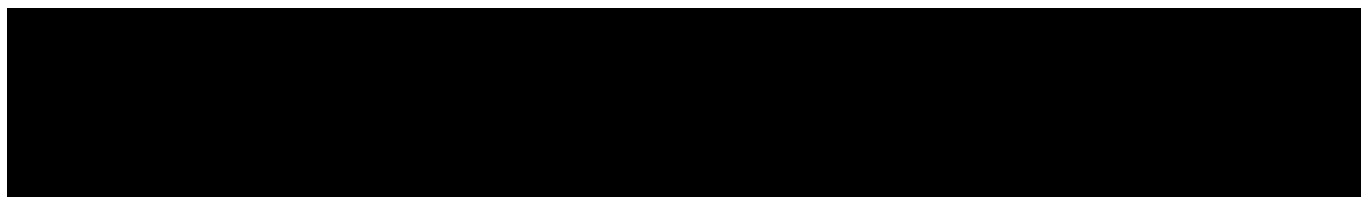




Annex 4: Specific adverse drug reaction targeted questionnaire

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[Annex 4.1: Immunosuppressant drug level increased \(ISDLI\) Questionnaire](#)



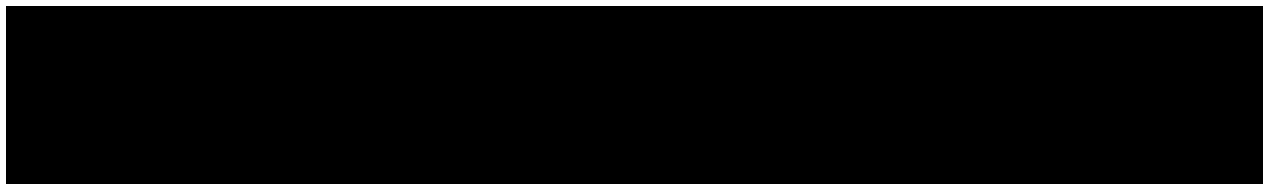
Was immunosuppressant drug level increased? ☐ Yes ☐ No.

If yes, please answer following questions.

Case ID:				Send completed questionnaire by email to Takeda at: _____				
1. CASE TYPE								
<input type="checkbox"/> Spontaneous <input type="checkbox"/> Pregnancy <input type="checkbox"/> Lactation <input type="checkbox"/> Regulatory Authority <input type="checkbox"/> Observational Study <input type="checkbox"/> Clinical Study, if checked: Protocol No.: _____ EudraCT No.: _____ Study Title: _____								
2. PATIENT INFORMATION								
Date of Birth (dd/mm/yyyy)	Age	Gender	Ethnicity/Race	Weight	Height			
		<input type="checkbox"/> Male <input type="checkbox"/> Female		<input type="checkbox"/> kg <input type="checkbox"/> lb	<input type="checkbox"/> cm <input type="checkbox"/> in			
3. PRODUCT INFORMATION								
Product Name	Unit Dose	Form	Route	Frequency	Drug Product Lot#/ Ser#	Dates (dd/mm/yyyy)	Indication	Action Taken with Drug
Maribavir						Start:		
						Stop:		
Immunosuppressant drug Tacrolimus						Start:		
						Stop:		
Immunosuppressant drug Cyclosporine						Start:		
						Stop:		
Immunosuppressant drug Sirolimus						Start:		
						Stop:		
Immunosuppressant drug Everolimus						Start:		
						Stop:		
Additional Space								
4. IMMUNOSUPPRESSANT DRUG INFORMATION: Complete sections 4a, 4b and 4c								
4a. Immunosuppressant drug level IMMEDIATELY BEFORE maribavir initiation								
Date and time:								
Immunosuppressant drug:					<input type="checkbox"/> Tacrolimus <input type="checkbox"/> Cyclosporine <input type="checkbox"/> Sirolimus <input type="checkbox"/> Everolimus			

Immunosuppressant drug level increased (ISDLI) Questionnaire

Case ID:	Send completed questionnaire by email to Takeda at: _____	
Drug level (include value & unit):		
Target therapeutic range:		
4b. Immunosuppressant drug level DURING maribavir treatment		
Date and time:		
Immunosuppressant drug:	<input type="checkbox"/> Tacrolimus <input type="checkbox"/> Cyclosporine <input type="checkbox"/> Sirolimus <input type="checkbox"/> Everolimus	
Drug level (include value & unit):		
Target therapeutic range (if changed):		
Was the immunosuppressant dose adjusted?	<input type="checkbox"/> No <i>If checked, state reason(s):</i> <input type="checkbox"/> Yes <i>If checked, continue to next question</i>	
Was the immunosuppressant dose adjusted due to an AE?	<input type="checkbox"/> No <i>If checked, state reason(s):</i> <input type="checkbox"/> Yes <i>If checked, list AE(s) in SECTION 5</i>	
Attach additional pages as needed for additional Immunosuppressant drug level DURING maribavir treatment		
4c. Immunosuppressant drug level AFTER maribavir discontinuation (provide number of days within two weeks after stopping)		
Date and time:		
Immunosuppressant drug:	<input type="checkbox"/> Tacrolimus <input type="checkbox"/> Cyclosporine <input type="checkbox"/> Sirolimus <input type="checkbox"/> Everolimus	
Drug level (include value & unit):		
Target therapeutic range (if changed):		
Was the immunosuppressant dose adjusted?	<input type="checkbox"/> No <i>If checked, state reasons:</i> <input type="checkbox"/> Yes <i>If checked, continue to next question</i>	
Was the immunosuppressant dose adjusted due to an AE?	<input type="checkbox"/> No <i>If checked, state reasons:</i> <input type="checkbox"/> Yes <i>If checked, list AE(s) in SECTION 5</i>	
Additional Space		
5. ADVERSE EVENT INFORMATION		



Case ID:				Send completed questionnaire by email to Takeda at: _____			
Adverse Event(s) or Diagnosis or abuse, misuse, overdose, medication error	Dates (dd/mm/yyyy)	Serious Criteria	Severity of the event	Event Outcome	Reporter Causality	De-challenge	Re-challenge
	Start: Stop:						
	Start: Stop:						

6. IN-PATIENT HOSPITALIZATION / DEATH (complete only if patient was admitted to hospital, or died)

A. Patient was Hospitalized:

☐ Due to the Adverse Event

☐ Before the event, but Hospitalization was Prolonged due to the Event

☐ Before the event, but Hospitalization was not Prolonged Due to the Event

☐ Not Due to the Event

Reason not Due to the Event:

Admission Date (dd/mm/yyyy): Discharge Date (dd/mm/yyyy):

Duration of Hospitalization (days):

☐ Hospital Report is on local file and available upon request Unavailable

B. Complete this Section if Patient Died:

Date of Death (dd/mm/yyyy): Cause(s) of Death:

Autopsy Performed? Autopsy Date (dd/mm/yyyy):

☐ Autopsy Report on local file and available upon request Unavailable

7. INVESTIGATION TRACKING INFORMATION

☐ Has been requested

☐ Will be requested from reporter

☐ Will not be requested from reporter for the following reasons:

☐ Information that was provided was sufficient

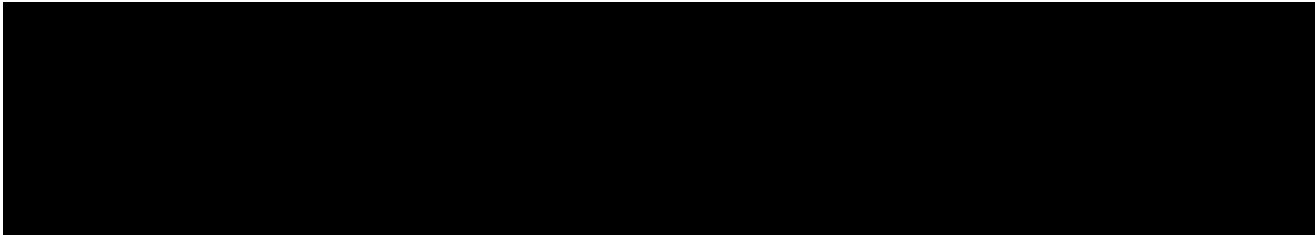
☐ Reporter refused to provide further information

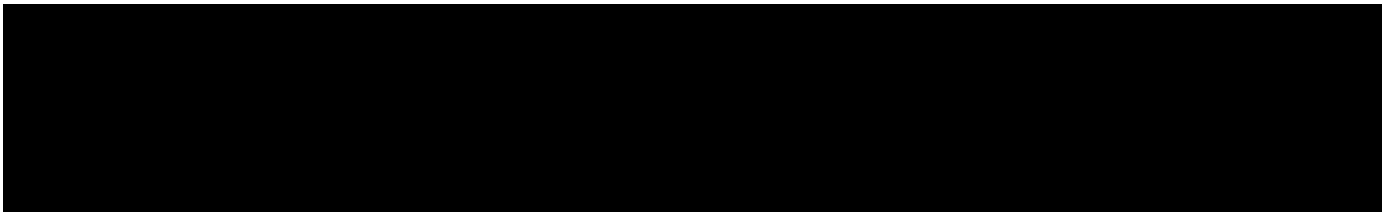
☐ Other reason, please specify

8. OTHER ADDITIONAL INFORMATION

Immunosuppressant drug level increased (ISDLI) Questionnaire

QUESTIONNAIRE COMPLETED BY	Printed Name:	Today's Date (ddmmmyyy):
	Signature:	
	Address:	
	Contact Number:	Email:





Annex 6: Details of proposed additional risk minimisation activities (if applicable)

Not applicable.

