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**EU RMP**

Drug substance	Danicopan
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**EUROPEAN UNION RISK MANAGEMENT PLAN (EU RMP)  
for VOYDEYA (danicipan)**

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The content of this EU RMP has been reviewed and approved by the deputy QPPV.

VOYDEYA<sup>®</sup> is a trademark of the AstraZeneca group of companies.

### **Administrative Information**

#### **Rationale for submitting an updated RMP:**

Not applicable for initial marketing authorisation submission.

#### **Rationale for update to RMP:**

Not applicable – Version 1

#### **Summary of significant changes in this RMP**

Not applicable – Version 1

<b>Other RMP versions under evaluation</b>	<b>Version Number:</b> Not applicable for Version 1 <b>Submitted:</b> Not applicable for Version 1 <b>Procedure number:</b> Not applicable for Version 1
<b>Details of currently approved RMP</b>	<b>Version Number:</b> Not applicable for Version 1 <b>Approved with procedure:</b> Not applicable for Version 1 <b>Date of approval:</b> Not applicable for Version 1

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## LIST OF ANNEXES

<b>Annexes</b>	
Annex 4- Specific adverse drug reaction follow-up forms	Included
Annex 6- Details of proposed additional risk minimisation activities	Not applicable

## LIST OF ABBREVIATIONS AND DEFINITION OF TERMS

Abbreviation/ Special term	Definition/Explanation
ALT	alanine aminotransferase
AP	alternative pathway
ATC	anatomical therapeutic chemical classification
AUC <sub>0-24</sub>	area under the plasma concentration-time curve from time 0 to 24-hour time point
C3	complement component 3
C5	complement component 5
C <sub>max</sub>	maximum plasma concentration
EEA	European Economic Area
eGFR	estimated glomerular filtration rate
EPAR	European Public Assessment Report
EU	European Union
EVH	extravascular haemolysis
FACIT	Functional Assessment of Chronic Illness Therapy
FB	complement factor B
FD	complement factor D
GPI	glycosylphosphatidylinositol
HBV	hepatitis B virus
HCV	hepatitis C virus
HIV	human immunodeficiency virus
HSCT	haematopoietic stem cell transplantation
INN	international nonproprietary name
IPIG	International PNH Interest Group
IVH	intravascular haemolysis
LTE	long-term extension
max	maximum
min	minimum
NA	not applicable
NOAEL	no-observed-adverse-effect level
<i>PIGA</i>	X-linked phosphatidylinositol glycan A
PL	Package Leaflet
PNH	paroxysmal nocturnal haemoglobinuria
QPPV	qualified person for pharmacovigilance
RMP	Risk Management Plan

<b>Abbreviation/ Special term</b>	<b>Definition/Explanation</b>
SD	standard deviation
SmPC	Summary of Product Characteristics
TBD	to be determined
TEAE	treatment-emergent adverse event
tid	three times a day
ULN	upper limit of normal



## I. PART I: PRODUCT OVERVIEW

**Table I-1 Product overview**

Active substance(s) (INN or common name)	Danicopan
Pharmacotherapeutic group(s) (ATC code)	Complement inhibitors (L04AJ09)
Marketing Authorisation Applicant	Alexion Europe SAS
Medicinal products to which this RMP refers	2
Invented name(s) in the European Economic Area (EEA)	VOYDEYA
Marketing authorisation procedure	Centralised
Brief description of the product	<p><b>Chemical class:</b> Danicopan is a small-molecule, orally administered complement factor D (FD) protease inhibitor.</p>
	<p><b>Summary of mode of action:</b> Complement FD is a serine protease that is required for activation of the complement alternative pathway (AP). FD mediates the cleavage of complement factor B (FB), when FB is bound to activated forms of complement component 3 (C3), to generate the C3 convertase – C3bBb. This C3 convertase elicits further complement activation and promotes the multiple effector functions of the complement system. FD circulates at lower concentration than most other complement proteins, and it is not an acute-phase protein. Danicopan is a small-molecule inhibitor that binds reversibly to FD and acts as a potent and selective inhibitor of FD function and consequently of AP activation. Although danicopan blocks the AP-mediated amplification of the complement classical pathway and lectin pathway, these 2 pathways remain active to provide residual complement-dependent protection against infectious pathogens. Danicopan can inhibit the AP-mediated deposition of C3 fragments on paroxysmal nocturnal haemoglobinuria (PNH) red blood cells; such deposition is a key cause of the extravascular haemolysis that is observed in a small subset of patients with PNH on treatment with a complement component 5 (C5) inhibitor.</p>
	<p><b>Important information about its composition:</b> None</p>

**Table I-1 Product overview**

Hyperlink to the Product Information	<a href="#">VOYDEYA, Product Information</a>
Indication(s) in the EEA	<b>Current:</b> An add-on to ravulizumab or eculizumab for the treatment of adult patients with paroxysmal nocturnal haemoglobinuria (PNH) who have residual haemolytic anaemia.
Dosage in the EEA	<b>Current:</b> <b><u>Adult patients with PNH</u></b> The recommended starting dose is 150 mg three times a day administered orally, approximately 8 hours apart ( $\pm$ 2 hours). Dose can be increased to 200 mg three times a day after a minimum of 4 weeks of treatment depending on clinical response.
Pharmaceutical form(s) and strengths in the EEA	<b>Current:</b> Film-coated tablet Each tablet contains 50 or 100 mg of danicopan.
Is/will the product be subject to additional monitoring in the EU?	Yes

ATC, anatomical therapeutic chemical classification; EU, European Union; INN, international nonproprietary name; RMP, Risk Management Plan.

## II. PART II: SAFETY SPECIFICATION

### II.1 MODULE SI: EPIDEMIOLOGY OF THE INDICATION(S) AND TARGET POPULATION

#### Paroxysmal nocturnal haemoglobinuria

##### Incidence and prevalence:

Epidemiologic studies of the occurrence of paroxysmal nocturnal haemoglobinuria (PNH) are scarce. Incidence of PNH in the European Union has been reported to range from 0.08 to 0.57 per 100,000 person-years ([Hansen et al 2020](#), [Jalbert et al 2019](#)).

Prevalence of PNH has been reported to range from 1.04 to 3.81 per 100,000 persons ([Hansen et al 2020](#), [Hill 2007](#), [Jalbert et al 2019](#), [Richards et al 2021](#)).

A subset of patients with PNH who achieve durable intravascular haemolysis (IVH) control and associated disease control with ravulizumab or eculizumab, may experience emergence of clinically significant extravascular haemolysis (EVH) and may require transfusions ([Hill et al 2010](#), [McKinley et al 2017](#), [Notaro and Sica 2018](#), [Risitano et al 2019](#)). Clinically significant EVH occurs in approximately 20% of complement component 5 (C5) inhibitor-treated patients, with approximately 10% of these patients requiring red blood cell transfusions ([Kulasekararaj et al 2023](#)).

##### Demographics of the population in the proposed indication –age, gender, racial and/or ethnic origin and risk factors for the disease:

PNH can occur at any age, although it is diagnosed most often in the fourth or fifth decade of life ([Füreder et al 2020](#), [Lee et al 2013](#), [Schrezenmeier et al 2020](#), [Villegas et al 2017](#)). PNH is considered rare in children although it may manifest in some patients during teenage years ([Hill et al 2017](#)). In general, there is a slight female preponderance in PNH, as noted in several registries ([Füreder et al 2020](#), [Schrezenmeier et al 2020](#), [Villegas et al 2017](#)).

In an analysis of 4,439 patients enrolled in the International PNH Registry as of Jul 2017, 53% were female and median age at diagnosis was 35.5 years ([Schrezenmeier et al 2020](#)). Overall, 67.9% of patients were from Europe, 14.4% from the United States and 17.7% from the rest of the world, including Asia. In this registry, 78.4% of participants were White, 16.3% were Asian, 3% were Black and the remaining 2.3% were another race or unspecified ([Schrezenmeier et al 2020](#)).

A separate analysis of this registry, which evaluated Asian and non-Asian patients who were not eculizumab-treated at baseline and who had  $\geq 1\%$  PNH clone size, found no statistical difference in age, sex or disease duration between Asian and non-Asian patients ([Sakurai et al 2019](#)).

- **Risk factors**

Although PNH has a genetic basis, it is not a heritable condition as it is a somatic mutation of the X-linked phosphatidylinositol glycan A (*PIGA*) gene that occurs randomly ([Sahin et al 2015](#)). Patients who develop PNH often have some bone marrow dysfunction, such as aplastic anaemia or myelodysplastic syndrome, prior to or concurrently at time of PNH diagnosis ([Parker 2012](#), [Rachidi et al 2010](#)). The leading theory suggests that many healthy individuals have some glycosylphosphatidylinositol (GPI)-deficient haematopoietic stem cells, which generally do not preferentially replicate. However, some event, enabling GPI-deficient cells to expand in the presence of bone marrow dysfunction, is needed to induce PNH ([Parker 2012](#), [Rachidi et al 2010](#), [Sahin et al 2015](#)).

**The main existing treatment options:**

Treatment of PNH consists primarily of anti-complement therapies. Eculizumab is a monoclonal antibody that specifically binds to the C5 with high affinity and inhibits terminal complement mediated IVH in PNH patients. Ravulizumab (also a C5 inhibitor) was subsequently designed to provide extended duration of terminal complement inhibition, while retaining the safety, efficacy, and low immunogenicity associated with eculizumab ([Sheridan et al 2018](#)). Among patients treated with eculizumab or ravulizumab, an unmet medical need exists to address clinically significant EVH in PNH by improving patients' haemoglobin values, fatigue, and reducing red blood cell transfusion requirements.

Pegcetacoplan, a complement component 3 (C3) inhibitor targeting the proximal complement cascade, is the most recent treatment approved for the treatment of PNH who are anaemic after treatment with a C5 inhibitor for at least 3 months. However, this monotherapy does appear to not provide a sustained control of IVH in PNH patients, where an unmet medical need continues to exist ([Notaro and Luzzatto 2022](#)).

Prior to the introduction of eculizumab, ravulizumab and most recently of pegcetacoplan, the treatment of PNH was mainly supportive, aiming to control the clinical manifestations of the disease (ie, management of haemolysis, anaemia, thrombophilia, and bone marrow failure). This supportive treatment included blood transfusion, administration of erythropoiesis stimulating agents, corticosteroids, or anabolic steroids, iron therapy, thrombosis prophylaxis, and thrombolytic therapy ([Al-Ani et al 2016](#)).

The only available curative approach for PNH is allogeneic haematopoietic stem cell transplantation (HSCT). However, allogeneic HSCT is associated with high mortality and morbidity. Moreover, because of the high effectiveness of eculizumab and ravulizumab, HSCT is only considered for cases of severe marrow failure ([Al-Ani et al 2016](#)).

### **Natural history of the indicated condition in the (untreated) population, including mortality and morbidity:**

PNH is a chronic haematological disorder characterised by episodes of haemolysis and other important clinical manifestations including thrombosis, bone marrow failure and evolution to myelodysplastic syndrome (Hill et al 2017). Other serious clinical symptoms lead to poor quality of life in PNH, including anaemia, kidney disease, fatigue, and smooth muscle dystonia (Hill et al 2017). Specific to patients experiencing clinically significant EVH, an additional complication includes iron overload as the result of eculizumab and ravulizumab blocking IVH and subsequently preventing further urinary iron loss (Risitano et al 2019, Röth et al 2011).

Disease burden was high in an analysis of patients enrolled in an International PNH Registry, with 55.8% reporting haemolysis and 42.8% with an impaired estimated glomerular filtration rate (eGFR) at baseline (defined as the date of enrolment for never treated patients and date of eculizumab initiation for patients ever treated with eculizumab). Further, 63% of patients had a history of bone marrow failure and 18.8% had a history of a major adverse vascular event (Schrezenmeier et al 2020). In this registry, commonly reported PNH symptoms included: fatigue (80.9%), dyspnoea (45.3%), haemoglobinuria (45.0%), abdominal pain (35.2%), dysphagia (16.5%), and erectile dysfunction (24.2% of males) (Schrezenmeier et al 2020). The survival experience of patients with PNH has improved over time though among untreated patients, mortality remains higher as compared to the general population (Hill et al 2017, Kelly et al 2011). Among those patients treated with eculizumab, the survival experience of patients has been demonstrated to be similar to a matched general population (Füreder et al 2020, Kelly et al 2011, Terriou et al 2021).

Thromboembolism is generally considered the most common cause of mortality in PNH patients, accounting for approximately 40% to 67% of deaths with a known cause (Devos et al 2018, Heitlinger 2013, Hill et al 2013). In Western countries, thromboembolism was the leading cause of death, followed by serious infections, malignant tumours, haemorrhage, and renal failure, successively.

A subset of patients with PNH who have achieved disease control with ravulizumab or eculizumab may experience emergence of clinically significant EVH and some of these patients require transfusions (Hill et al 2010, McKinley et al 2017, Notaro and Sica 2018, Risitano et al 2019). Clinically significant EVH is characterised by persistent symptoms of anaemia such as low haemoglobin and elevated reticulocyte counts with or without transfusion requirements, fatigue, and decreased quality of life. The mortality experience of this subset of patients with PNH and EVH is not reported.

### **Important co-morbidities:**

- Bone marrow abnormalities (i.e., aplastic anaemia, myelodysplastic syndrome)

## **II.2 MODULE SII: NON-CLINICAL PART OF THE SAFETY SPECIFICATION**

### **II.2.1 Summary of key findings from non-clinical data**

#### **Toxicity**

##### Acute or repeat dose toxicity

In a 9-month toxicity study in dogs, danicopan, at the dose of 150 mg/kg/day was not tolerated due to cholestatic liver injury and associated with preterminal sacrifice. At this dose, danicopan-related clinical pathology changes indicative of inflammation (increased neutrophil and monocyte counts, fibrinogen, and globulin and decreased albumin concentrations), stress (decreased lymphocytes), dehydration (increased red blood cell mass parameters, urea and creatinine), and liver injury (increases in aspartate aminotransferase, alanine aminotransferase [ALT], alkaline phosphatase, gamma-glutamyl transferase activities and in total, direct and indirect bilirubin concentrations) included bile duct hypertrophy/hyperplasia, pigment accumulation in Kupffer cells and hepatocytes, stress-related lymphoid depletion in thymus and/or cortical hypertrophy in the adrenals were observed. These danicopan-related clinical pathology and histopathology findings in the main study animals were no longer observed at the end of the 13-week recovery period. Hypertrophy/hyperplasia of the bile duct was observed in males at  $\geq 75$  mg/kg/day (~5-fold above human exposure at 200 mg three times a day [tid] based on  $AUC_{0-24}$ ). The maximum plasma concentration ( $C_{max}$ ) multiple, compared to human  $C_{max}$  at 200 mg tid, was approximately 11-fold.

##### Reproductive/developmental toxicity

Danicopan is unlikely to have effects on reproductive function or embryo-foetal development in humans at therapeutically relevant doses. Rabbit species were selected for developmental and reproductive toxicology studies, based on the absence of pharmacological activity of rats. In the fertility studies, reduced male and female reproductive performance was observed at 500 mg/kg/day, a dose associated with poor tolerability. The no-observed-adverse-effect level (NOAEL) was established at 250 mg/kg/day, although systemic toxicity was noted at 125 mg/kg/day in males and 250 mg/kg/day in females.

In the embryo-foetal development study in rats, at the highest dose of 1,000 mg/kg/day, a mild reduction (up to 8.3%) in foetal body weights was observed.

In the pre- and postnatal development study conducted in rabbits, NOAEL was established at 250 mg/kg/day, the maximum dose tested in the study. However, a reduction of mean caudal epididymal sperm concentration in the F1 males was reported in the study report. This finding was noted in all dose groups (50, 125 and 250 mg/kg/day), being statistically significant in the

low and mid dose groups (19, 20 and 18%, respectively), although it was not observed in parallel with any alteration of reproductive performance or histopathological findings.

### Genotoxicity

Danicopan was not genotoxic in a standard battery of *in vitro* and *in vivo* assays, including a bacterial Ames assay, an *in vitro* micronucleus assay in human peripheral blood lymphocytes, and an *in vivo* micronucleus assessment in female rats.

The metabolite of danicopan, ACH-0144240 (2-amino-6-bromopyridine), did not show any evidence of genotoxic activity in a bacterial Ames assay (*in vitro* mutagenicity).

Findings from the nonclinical studies indicated that a potential for genotoxicity in humans is negligible.

### Carcinogenicity

Danicopan was not carcinogenic in the 2-year carcinogenicity study in rats and in the 6-month carcinogenicity study in hemizygous rasH2 mice. In the rat study, a higher incidence of endometrial epithelium neoplasms at the highest dose of 500 mg/kg/day compared to control animals was observed, although the rat strain can have a high background incidence of endometrial carcinomas. Danicopan is unlikely to be carcinogenic in humans at therapeutically relevant doses.

## **Safety pharmacology**

### Cardiovascular system, including potential effect on the QT interval

No noteworthy danicopan-related effects on cardiovascular function (electrocardiography or haemodynamic parameters) in conscious telemetered beagle dogs up to 500 mg/kg/day.

### Nervous system

No noteworthy danicopan-related effects on nervous system function in dogs up to 1000 mg/kg/day.

### Respiratory system

No noteworthy danicopan-related effects on respiratory function in dogs up to 1000 mg/kg/day.

Administration of danicopan to humans at therapeutically relevant doses is unlikely to have any effects on cardiovascular, respiratory, or nervous system function.

## II.3 MODULE III: CLINICAL TRIAL EXPOSURE

### Paroxysmal nocturnal haemoglobinuria

The clinical trial exposure below pools data from 4 studies in participants with PNH as of 31 March 2023, including 2 studies with danicopan as add-on therapy (Phase 2 Study ACH471-101 and pivotal Phase 3 Study ALXN2040-PNH-301; N = 96) and 2 studies with danicopan as monotherapy (Phase 2 Study ACH471-100 and Phase 2 Study ACH471-103; N = 10).

**Table II-1 Duration of exposure to danicopan**

Variable	All PNH population (N = 106)	Person time (patient-years)
<b>Treatment duration (days)</b>		
Mean (SD)	562.9 (390.38)	NA
Median	469.0	NA
Min, Max	1, 1631	NA
<b>Treatment duration category</b>		
1 day to 12 weeks	6	0.7
> 12 to 24 weeks	2	0.5
> 24 to 48 weeks	24	17.3
> 48 to 72 weeks	26	30.1
> 72 to 96 weeks	22	35.3
> 96 to 120 weeks	10	19.7
> 120 to 144 weeks	2	5.1
> 144 to 168 weeks	0	0
> 168 to 192 weeks	5	18.0
> 192 weeks	9	36.6
<b>Total</b>	<b>106</b>	<b>163.4</b>

max, maximum; min, minimum; NA, not applicable; PNH, paroxysmal nocturnal haemoglobinuria; SD, standard deviation.

**Table II-2 Exposure to danicopan by age group and gender**

Variable	All PNH population (N = 106)		Person time (patient-years)	
	Male	Female	Male	Female
<b>Age group (years), n (%)</b>				
< 18	0	1	0	2.2
18 to 64	29	52	44.4	86.3
65 to 74	7	8	10.4	8.4
75 to 84	3	6	4.1	7.6



**Table II-2 Exposure to danicopan by age group and gender**

Variable	All PNH population (N = 106)		Person time (patient-years)	
	Male	Female	Male	Female
Age group (years), n (%)				
≥ 85	0	0	0	0
<b>Total</b>	<b>39</b>	<b>67</b>	<b>58.9</b>	<b>104.5</b>

PNH, paroxysmal nocturnal haemoglobinuria.

**Table II-3 Exposure to danicopan by dose**

Dose regimen	PNH add-on population (N = 96)	Person time (patient-years)
100 tid	13	6.7
150 mg tid	95	52.1
200 mg tid	67	82.7
<b>Total</b>	<b>96</b>	<b>141.5</b>

Note: Exposure to danicopan by dose regimen includes only PNH add-on population (N = 96) and not the overall PNH population (N = 106). Participants may be counted in multiple danicopan dose groups based on the dosing regimen they received during study treatment but are only counted once in the total population exposed to danicopan. Most participants received a starting dose of 150 mg tid and could be escalated to the next dose level according to protocol-specified requirements.

PNH, paroxysmal nocturnal haemoglobinuria; tid, three times a day.

## **II.4 MODULE SIV: POPULATIONS NOT STUDIED IN CLINICAL TRIALS**

### **II.4.1 Exclusion criteria in pivotal clinical studies within the development programme**

#### **Pregnant or breastfeeding women**

Reason for exclusion: Women who were pregnant or breastfeeding were excluded from the clinical studies to avoid potential harm to the unborn foetus or breastfed infants.

Is it considered to be included as missing information: Yes

#### **Active bacterial or viral infection or history of any febrile illness within 14 days prior to first study drug administration**

Reason for exclusion: Patients with active infection were excluded to avoid factors that may confound a complete understanding of the safety profile of danicopan.

Is it considered to be included as missing information: No

Rationale: Although patients with active infections were excluded prior to study entry, patients who developed an infection during the course of the study were not discontinued from the study. As such, the data on use of danicopan during infections were collected and there was no difference in the safety profile for patients who developed an infection during the study compared to those that did not. Therefore, this population is not relevant for consideration as missing information.

#### **ALT > 2 × upper limit of normal (ULN) (> 3 × ULN in the case of participants with documented liver iron overload defined by serum ferritin values ≥ 500 ng/mL) and direct bilirubin > 2 × ULN (unless due to EVH or documented Gilbert's syndrome)**

Reason for exclusion: Given that patients with PNH may have liver enzyme elevations due to haemolysis as part of clinical presentation and evolution of PNH, patients with moderate or severe laboratory abnormalities in liver tests were excluded to avoid factors that may confound a complete understanding of the safety profile of danicopan.

Is it considered to be included as missing information: No

Rationale: Patients with ALT and direct bilirubin abnormalities were excluded prior to study entry, but patients who presented with the abnormalities above those thresholds during the course of the study continued in the study. Although some patients experienced elevated liver enzymes higher than the above thresholds, there was no observed difference in the safety profile.

### **eGFR < 30 mL/min/1.73 m<sup>2</sup> and/or are on dialysis**

Reason for exclusion: PNH patients with severe renal impairment were excluded in order to avoid factors that may confound a complete understanding of the safety and efficacy profile of danicopan. Severe renal impairment (i.e., eGFR < 30 mL/min) is known to increase intrinsic factor D (FD) levels.

Is it considered to be included as missing information: No

Rationale: A clinical pharmacology study conducted in subjects with renal impairment (ACH471-009) indicated that systemic area under the concentration-time curves of danicopan increased by approximately 50% in patients with severe renal impairment (creatinine clearance < 30 mL/min) compared to subjects with normal renal function, but there was no meaningful change in C<sub>max</sub>, time to maximum drug concentration, or terminal half-life.

Renal excretion is a minor route for clearing danicopan from the body. As such, the safety profile of danicopan in PNH patients with renal impairment is not expected to differ from the general, danicopan-treated population and this population is not relevant for consideration as missing information.

### **Evidence of human immunodeficiency virus (HIV), hepatitis B virus (HBV), or hepatitis C virus (HCV) infections at screening**

Reason for exclusion: Since patients with HIV, HBV, or HCV active infections may present with additional co-morbidities, which may confound the analysis of safety data of danicopan, they were excluded from the pivotal programme.

Is it considered to be included as missing information: No

Rationale: There is no scientific evidence to suggest that the safety profile of danicopan in patients with HIV, HBV or HCV active infections is different to that of the general, danicopan-treated population.

### **History of a major organ transplant (eg, heart, lung, kidney, liver) or HSCT**

Reason for exclusion: Patients with a history of major organ transplant or HSCT were excluded in order to avoid factors that may confound a complete understanding of the efficacy and safety of danicopan.

Is it considered to be included as missing information: No

Rationale: There is no scientific rationale to suspect that the safety profile of participants with a history of major organ transplant may differ to that characterised so far for the general, danicopan-treated population. PNH patients who underwent curative HSCT do not represent the target population for danicopan.

## **Known aplastic anaemia or other bone marrow failure that requires HSCT or other therapies**

Reason for exclusion: Patients requiring HSCT due to aplastic anaemia or other bone marrow failure were excluded in order to avoid factors that may confound the efficacy of danicopan.

Is it considered to be included as missing information: No

Rationale: PNH patients who underwent curative HSCT do not represent the target population for danicopan. PNH patients with aplastic anaemia receiving stable treatment for aplastic anaemia during the 12-week duration of study were allowed and included in the pivotal study.

### **II.4.2 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 adverse reactions with a frequency lower than the detection ability of the programme for a rare disease, adverse reactions with a long latency, or those caused by prolonged or cumulative exposure.

### **II.4.3 Limitations in respect to populations typically under-represented in clinical trial development programmes**

**Table II-4 Exposure of special populations included or not in clinical trial development programmes**

<b>Type of special population</b>	<b>Exposure</b>
Pregnant women	Not included in the clinical development programme.
Breastfeeding women	
Patient with relevant comorbidities:	
Patients with hepatic impairment	Danicopan was investigated in 8 subjects with mild and moderate hepatic impairment. There was no significant difference in danicopan exposure in subjects with moderate hepatic impairment (Child-Pugh Class B). PNH patients with severe hepatic impairment (Child-Pugh Class C) were not excluded from clinical studies, however, no patients fitting this criterion were enrolled and exposure data for this population are not available. Therefore, the use in patients with severe hepatic impairment represents missing information (refer to II.7).
Patients with renal impairment	Danicopan has been investigated in 13 patients with mild renal impairment and 13 patients with moderate renal impairment.

**Table II-4 Exposure of special populations included or not in clinical trial development programmes**

<b>Type of special population</b>	<b>Exposure</b>
Patients with cardiovascular impairment Immunocompromised patients Patients with a disease severity different from inclusion criteria in clinical trials	Patients with cardiovascular impairment or any other co-morbidity/disease severity were not specifically investigated within the clinical development programme for danicopan.
Patients with relevant different ethnic origin	Not applicable.
Subpopulations carrying relevant genetic polymorphism	Not applicable.

PNH, paroxysmal nocturnal haemoglobinuria.

## **II.5      MODULE SV: POST-AUTHORISATION EXPERIENCE**

Not applicable since danicopan has not yet been approved for marketing in any country.

## **II.6      MODULE SVI: ADDITIONAL EU REQUIREMENTS FOR THE SAFETY SPECIFICATION**

### **Potential for misuse for illegal purposes**

Considering the mode of action and overall characteristics, the potential of danicopan for misuse for illegal purposes is negligible.

## **II.7 MODULE SVII: IDENTIFIED AND POTENTIAL RISKS**

### **II.7.1 Identification of safety concerns in the initial RMP submission**

#### **II.7.1.1 Risk not considered important for inclusion in the list of safety concerns in the RMP**

##### **Reasons 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):**

- **Liver enzyme elevations:** Liver enzyme elevations have been observed during the PNH development programme and are considered a non-important identified risk associated with danicopan use.

In study ALXN2040-PNH-301, during Treatment Period 1 (ie, a 12-week treatment period), the incidence of treatment-emergent adverse events (TEAEs) related to hepatic abnormalities was slightly higher in the danicopan group compared to placebo (14.0% [8/57] versus 10.3% [3/29]). Based on chemistry results, laboratory abnormalities related to elevations in ALT levels were higher in the danicopan group with 14.0% (8/57) compared to 3.4% (1/29) of participants on placebo. In danicopan-treated participants, ALT elevations  $> 3 \times \text{ULN}$  and  $\leq 5 \times \text{ULN}$  occurred in 8.8% of participants, and  $> 5 \times \text{ULN}$  and  $\leq 10 \times \text{ULN}$  in 5.3% of participants. There were no elevations  $> 10 \times \text{ULN}$ .

All elevations were transient and asymptomatic. In 3 danicopan-treated participants, TEAEs related to hepatic abnormalities led to treatment discontinuation. Treatment was interrupted and subsequently discontinued in a single participant as the ALT values increased a second time following drug taper. The other 2 participants were discontinued for meeting the protocol stopping criteria related to liver laboratory values. One of these participants experienced liver enzyme elevations in the context of cholelithiasis and subsequent pancreatitis.

Some elevations occurred concurrent with increased lactate dehydrogenase values or concurrent to event of haemolysis. Patients with PNH may have elevated hepatic enzymes during haemolysis as part of the natural history and clinical presentation of the disease. Patients with high transfusion requirements may also present with hepatic enzyme abnormalities associated with transfused related liver iron overload.

Across all clinical studies conducted in patients with PNH at the data lock point of this document, there have been no confirmed Hy's Law cases. Elevations in liver enzymes do not appear to be manifestation of clinically important liver injury, but



rather mild effects with spontaneous resolution or adaptation. No drug-induced liver injuries or other significant undesirable clinical outcomes of liver enzyme elevations have been observed.

Given the nature of this risk in the context of the intended target population, this identified risk is not considered important and will continue to be monitored via routine pharmacovigilance. Although there are clinical measures included in the label, these chemistry assessments, including liver enzyme tests, represent part of routine PNH disease management and are frequently monitored in patients being treated with danicopan.

- **Medication errors leading to overdose or underdose:** Danicopan is a small molecule medication, available in two strengths (50 and 100 mg) and orally administered tid. As such, a potential for medication errors exists. However, should a medication error occur there are no important risks as a result. The anticipated clinically meaningful adverse outcomes of medication errors associated with orally administered tablets, including danicopan, would be signs and symptoms of either overdose or underdose.

In case of overdose, elevations in aminotransferases and other liver parameters may occur. In a multiple ascending dose study conducted in health volunteers, 2 subjects who received 500 mg and 800 mg twice a day had ALT elevations after treatment cessation without a taper. These abnormal ALT findings were transient, with no evidence of hepatic function abnormality and resolved spontaneously.

In case of underdose, based on clinical pharmacology studies, lower exposures will not maintain alternative pathway inhibition necessary to achieve EVH control. However, IVH continues to be controlled under treatment with eculizumab or ravulizumab, and potential life-threatening complications of PNH are therefore mitigated. Signs and symptoms of EVH (such as development of anaemia and fatigue) should be monitored in these cases.

Medication errors noted in the clinical development programme were infrequent and did not show any specific trends or patterns. In PNH patients in the clinical programme who have experienced accidental medication error, none were associated with any adverse events.

The routine risk minimisation measures in place (i.e., posology of danicopan presented in the Product Information, differentiated debossing between strengths), are intended to minimise the potential for medication errors.

Given the data collected on danicopan from the clinical programme, there are no safety concerns related to the potential adverse outcomes of medication errors, and medication errors will continue to be monitored via routine pharmacovigilance. No specific clinical measures are required in the product label or additional risk minimisation measures to minimise the risk of medication errors.

### **II.7.1.2 Risks considered important for inclusion in the list of safety concerns in the RMP**

#### **Important Identified Risks:**

There is no important identified risk for danicopan.

#### **Important Potential Risk 1: Meningococcal infection**

##### **Risk-benefit impact:**

Danicopan is an FD inhibitor and individuals with complement system deficiencies have been associated with an increased risk of *Neisseria meningitidis* infection ([Biesma et al 2001](#), [Hiemstra et al 1989](#), [Sprong et al 2006](#)). However, the relevance of this risk to FD inhibitor danicopan remains to be elucidated.

#### **Important Potential Risk 2: Serious infections**

##### **Risk-benefit impact:**

Danicopan is an FD inhibitor that selectively targets the alternative pathway. Therefore, since danicopan does not impact the classical or lectin pathway-mediated early complement components, the ability to clear most non-neisserial infections remains intact. The mechanism which may lead to serious infections other than those caused by *N meningitidis* in patients treated with danicopan remains unclear. PNH patients receiving danicopan are often at increased risk of infection due to the underlying medical condition or its complications. Considering the mode of danicopan action and the currently missing evidence, serious infections represent a potential risk of danicopan.

#### **Important Potential Risk 3: Malignancies and haematologic abnormalities**

##### **Risk-benefit impact:**

The natural evolution of PNH disease makes PNH patients more prone to development of haematologic abnormalities or malignancies as approximately 30 to 70% of PNH patients eventually develop aplastic anaemia or myelodysplastic syndrome ([de Latour, 2008](#); [Hillmen, 1995](#); [Socié, 1996](#)). The potential role of danicopan in such abnormalities or malignancies is unknown.

### **Missing Information 1: Use in pregnant or breastfeeding women**

#### **Risk-benefit impact:**

The nonclinical studies did not show any embryo-foetal toxicity or teratogenic effects associated with danicipan but there are no clinical data on use of danicipan during pregnancy or on excretion of danicipan in human breast milk and potential effects on breast-fed child.

### **Missing Information 2: Use in patients with severe hepatic impairment**

#### **Risk-benefit impact:**

A single-dose study to evaluate the effect of moderate hepatic impairment (Child-Pugh Class B) on the pharmacokinetics, safety, and pharmacodynamics of danicipan did not show significant difference in danicipan exposure compared to demographically matched healthy subjects. Since no significant clinical effect was observed, danicipan was not evaluated in mild or severe hepatic impaired patients.

Since danicipan is extensively metabolised in the liver and data cannot be extrapolated to patients with severe hepatic impairment, danicipan plasma concentrations cannot be predicted.

### **Missing Information 3: Long-term safety**

#### **Risk-benefit impact:**

Danicipan is intended for a long-term use and the typical clinical development programme is not designed to detect all adverse effects with long latency or those that are infrequent. As such, more data on long-term safety of danicipan use are needed.

## **II.7.2 New safety concerns and reclassification with a submission of an updated RMP**

Not applicable.

## **II.7.3 Details of important identified risks, important potential risks and missing information**

### **II.7.3.1 Presentation of important identified risks and important potential risks**

#### **II.7.3.1.1 Important Potential Risk 1: Meningococcal Infection**

##### Potential mechanisms:

Danicipan is an FD inhibitor and since the primary function of the complement system is to fight infections, pharmacologic inhibition of the complement system can potentially lead to an increased rate or severity of infections. As suggested by individual case reports of patients with complement system deficiencies, including FD deficiency, inhibition of the complement

system may result in an increased risk of infection with *N meningitidis* (Biesma et al 2001, Figueroa and Densen 1991, Hiemstra et al 1989, Sprong et al 2006).

Evidence source(s) and strength of evidence:

This important potential risk is based on danicopan mode of action, experience from individuals with complement deficiencies (Biesma et al 2001, Figueroa and Densen 1991, Hiemstra et al 1989, Sprong et al 2006), and terminal complement inhibitors, eculizumab and ravulizumab (Röth et al 2018).

The link between terminal complement components deficiency states and (serious) infections caused by *N meningitidis* is firmly established and evidenced by the scientific literature (Figueroa and Densen 1991, Lewis and Ram 2014, Ram et al 2010, Ross and Densen 1984). However, this risk remains potential for FD inhibitors since classical and lectin pathways of complement are not inhibited by FD blockade.

Characterisation of the risk:

The frequency of meningococcal infection has not yet been established for danicopan as no event was observed in association with danicopan administration within the clinical development programme.

In general, meningococcal infections (presenting either as sepsis or meningitis) are rapidly life-threatening conditions with potentially fatal outcomes if not promptly diagnosed and treated. Timely diagnosis and treatment initiation immediately after presentation of the infection has shown to markedly impact the outcome (Vyse et al 2013).

Meningococcal infections may leave patients with disabling permanent sequelae including physical, neurological, cognitive, behavioural and psychological consequences such as behavioural difficulties, seizures, motor deficits, visual impairment, and hearing loss (Pace and Pollard 2012, Vyse et al 2013).

Risk factors and risk groups:

No risk factors specific to danicopan were identified. General risk factors for meningococcal infection include the following:

- Underlying disease (eg, splenectomised patients with sickle cell disease), genetic complement deficiency or therapeutic inhibition of complement (eg, C5 inhibitors eculizumab and ravulizumab)
- Lack of commercially available vaccine against certain meningococcus serogroup
- (Partial) resistance of meningococcal strain to prophylactic antibiotics
- Professionals who are exposed to environments of greater risk for meningococcal disease

- Research, industrial, and clinical laboratory personnel who are routinely exposed to *N meningitidis*
- Military personnel during recruit training (military personnel may be at increased risk of meningococcal infection when accommodated in close quarters)
- Day-care centre workers
- Living on a college or university campus
- Travelling to endemic areas for meningococcal meningitis (eg, India, Sub Saharan Africa, pilgrimage to Saudi Arabia for Hajj).

#### Preventability:

Danicopan therapy must not be initiated in patients with unresolved *N meningitidis* infection or in patients with unknown history of vaccination or who are not up to date on their meningococcal vaccines as per local guidelines.

Patients must be vaccinated or revaccinated according to current national guidelines for vaccination use.

It has been shown *in vitro* that C5 inhibitor eculizumab interferes with the bactericidal and opsonophagocytic-mediated protection elicited by meningococcal vaccines ([Granoff et al 2019](#), [Konar and Granoff 2017](#), [van den Broek et al 2019](#)). Since FD inhibitors, including danicopan, appear to have little impact on serum bactericidal activity in vaccinated or previously exposed patients ([Granoff et al 2019](#)), vaccination should provide protection from meningococcal infections in subjects receiving danicopan.

Patients who initiate danicopan treatment less than 2 weeks after receiving a meningococcal vaccine, must receive treatment with appropriate prophylactic antibiotics until 2 weeks after vaccination. Vaccines against serogroups A, C, Y, and W135 are recommended in preventing the commonly pathogenic meningococcal serogroups. Vaccination against serogroup B, where available, is also recommended. Consideration should be given to official guidance on the appropriate use of antibacterial agents.

All patients treated with danicopan should be monitored for early signs of meningococcal infection and sepsis, evaluated immediately if infection is suspected, and treated with appropriate antibiotics. Patients should be informed of these signs and symptoms and steps should be taken to seek medical care immediately.

#### Impact on the risk-benefit balance of the product:

Meningococcal infection is a serious, life-threatening acute condition with potentially fatal outcomes if not recognised in a timely manner and appropriately treated.

Increased risk of meningococcal infections is directly associated with the inhibition of (terminal) complement components. The long-term post-marketing experience with the C5 inhibitor eculizumab showed stable overall reporting rates of meningococcal infection in eculizumab treated patients at 0.3 to 0.5 per 100 patient-years with fatalities occurring at a rate similar to that reported in the general population ([MacNeil et al 2018](#), [van Deuren et al 2000](#)).

Furthermore, the FD inhibitors showed advantages over terminal complement inhibitors in the prevention of meningococcal infection by prophylactic vaccination ([Granoff et al 2019](#)). Therefore, the risk minimisation measures in place for the prevention and overall management of meningococcal infections appear to be appropriate and effective.

Public health impact:

No impact on the public health is expected for this risk.

### **II.7.3.1.2 Important Potential Risk 2: Serious Infections**

Potential mechanisms:

The complement system plays an important role in the host defence against infection. Activation of the classical or the alternative pathway results in the cleavage of C3, the central component of the system. Factor D has an essential role in the initiation and propagation of the alternative pathway of complement activation and in the amplification loop of C3 activation ([Biesma et al 2001](#)).

Danicopan is an FD inhibitor. FD inhibition is associated with an increased risk of *N meningitidis* infection, as suggested by reports in individuals with complete or near complete inhibition, with a similar infection risk as late complement inhibitors. Since the classical and lectin pathway-mediated early complement components are not inhibited by danicopan and early complement components are not inhibited by C5 inhibitors when danicopan is administered as an add-on to ravulizumab or eculizumab, the mechanism of phagocytic killing remains active and able to clear most non-*Neisseria* infections.

PNH patients receiving danicopan are often at increased risk of infection due to the underlying medical condition or its complications. Therefore, a causative link between danicopan and serious infections has not been established.

Evidence source(s) and strength of evidence:

This important potential risk is based on danicopan mode of action, experience from individuals with inherited alternative pathway deficiencies, including partial or complete FD deficiency ([Biesma et al 2001](#), [Hiemstra et al 1989](#), [Kluin-Nelemans et al 1984](#), [Ram et al 2010](#), [Sprong et al 2006](#), [Weiss et al 1998](#)), and terminal complement inhibitors, eculizumab

and ravulizumab (Röth et al 2018), whereas a causal relationship of serious infections to ravulizumab has not yet been confirmed. Since a causal relationship of serious infections to danicopan therapy also has not been confirmed in clinical trials, this remains a potential risk.

#### Characterisation of the risk:

The exposure-adjusted rate of serious infections in the PNH clinical development programme for danicopan (N = 106) was 9.8 events per 100 patient-years, ie, 13 subjects (12.3%) reported 16 serious events. The serious infections reported in more than 2 subjects each included COVID-19, cystitis, and pneumonia. A serious event of *Staphylococcal* sepsis was reported in a single subject (0.9%).

In Study ALXN2040-PNH-301, during the placebo-controlled treatment period, the incidence of serious infections was similar between the add-on danicopan group and the add-on placebo group.

Most infections observed in the development programme were nonserious in nature, typical in presentation and evolution/response to treatment, and fully manageable. Additionally, most infection events were assessed as not related to danicopan treatment by the investigator and resolved without modification to danicopan treatment.

#### Risk factors and risk groups:

The general risk factors for development of infections include any immunodeficiency, either acquired or due to underlying condition. PNH patients are at increased risk of infections, especially those who experience bone marrow failure (aplastic anaemia, myelodysplastic syndrome).

#### Preventability:

The healthcare professionals and patients should be aware of the potential risk of serious infections and their signs and symptoms.

Danicopan should be administered with caution to patients with active systemic infections.

#### Impact on the risk-benefit balance of the product:

Danicopan is an FD inhibitor and as such, there is a plausible mechanism for the development of infections by inhibition of the alternative complement pathway. However, since danicopan does not impact the classical or lectin pathways of complement, the ability to clear most of the non-neisserial infections should remain intact.

Considering the nature and overall presentation of serious infections observed in the clinical development programme for danicopan, the impact of this risk on the benefit-risk balance of danicopan is acceptable.

Public health impact:

No impact on the public health is expected for this risk.

**II.7.3.1.3 Important Potential Risk 3: Malignancies and haematologic abnormalities**

Potential mechanisms:

Haematologic malignancy in PNH patients is most likely a manifestation of underlying abnormalities of haematopoietic function. Antitumor immunity is not expected to be affected by danicopan.

Evidence source(s) and strength of evidence:

Danicopan is a highly selective inhibitor of FD and does not have broad immunosuppressive effects. Danicopan's selective complement blockade preserves the activity of other immune components allowing continued immunosurveillance against cancer cells. Additionally, since tumor cells can escape the complement system and produce complement proteins, the role of the complement system in cancer surveillance and clearance is limited.

Malignancies and hematologic abnormalities are monitored as an important potential risk with C5 inhibitor ravulizumab therapy, though a causal relationship to ravulizumab has not yet been confirmed. Since a causal relationship of malignancies and hematologic abnormalities to danicopan therapy also has not been confirmed in clinical trials, this remains a potential risk. Additionally, as the natural evolution of PNH makes PNH patients more prone to development of haematologic abnormalities or malignancies ([de Latour, 2008](#); [Hillmen, 1995](#); [Socié, 1996](#)), the role of danicopan remains unknown.

Characterisation of the risk:

The exposure-adjusted rate of neoplasia (malignant, benign, and unspecified) in the PNH clinical development programme for danicopan (N = 106) was 4.3 events per 100 patient-years, ie, 7 subjects (6.6%) reported 7 events. Of these, only 1 event was malignant (invasive ductal breast carcinoma), and the exposure-adjusted rate of malignant neoplasm was 0.6 events per 100 patient-years. The participant had relevant risk factors of pre-existing breast nodule and a family history of breast cancer. The non-malignant neoplasia reported were events which are common in the general population, and the nature, evolution, and outcome of these events did not indicate a causal relationship with danicopan treatment.



Risk factors and risk groups:

Patients with underlying myelodysplastic syndrome or other pre-leukaemic syndromes are at risk of leukaemia acutisation.

Preventability:

There is currently no evidence of an increased risk of malignancies and haematologic abnormalities for danicopan specifically and, therefore, no requirements for prevention are needed.

Impact on the risk-benefit balance of the product:

Considering the anticipated benefits of danicopan therapy and overall characteristics of the PNH population, the impact of this risk on the benefit-risk balance of danicopan is acceptable.

Public health impact:

Not applicable.

## **II.7.3.2 Presentation of missing information**

### **II.7.3.2.1 Missing information 1: Use in pregnant and breastfeeding women**

Evidence source:

The non-clinical studies did not show any embryo-foetal toxicity or teratogenic effects associated with danicopan. Available pharmacodynamic/toxicological data in animals have shown excretion of danicopan and its metabolites in milk.

Pregnant and breastfeeding women were excluded from the clinical studies. There are no clinical data on use of danicopan during pregnancy, on excretion of danicopan in human breast milk, and potential effects on breast-fed child.

Population in need of further characterisation:

Use of danicopan in pregnant and breastfeeding women will be investigated through routine pharmacovigilance activities using targeted safety questionnaire. A planned post-authorisation safety study ALX-PNH-502 will further characterise the safety of danicopan in this population (refer to [III.2](#)).

### **II.7.3.2.2 Missing information 2: Use in patients with severe hepatic impairment**

#### Evidence source:

Danicopan is extensively metabolised in the liver and the main route of excretion is hepatic. Although PNH patients with severe hepatic impairment were not excluded from the clinical programme, no patients fitting this criterion were enrolled.

Patients with PNH may experience venous or arterial thrombosis in diverse sites including intra-abdominal and hepatic veins (e.g. Budd-Chiari syndrome, mesenteric veins, the splenic vein) (Hill et al 2013, Hill et al 2012, Hillmen et al 2010, Plessier et al 2022). Results from the single-dose hepatic impairment study in otherwise healthy subjects indicated no clinically significant difference in pharmacokinetics of danicopan in the presence of moderate hepatic impairment (Child-Pugh Class B). However, no data were generated in subjects with severe hepatic impairment (Child-Pugh Class C) and results from the hepatic impairment study cannot be extrapolated to predict outcomes in patients with severe hepatic impairment.

#### Population in need of further characterisation:

The pharmacokinetics and safety of danicopan in subjects with severe hepatic impairment require further investigation. A planned post-authorisation safety study ALX-PNH-502 will further characterise the safety of danicopan in this population (refer to III.2).

### **II.7.3.2.3 Missing information 3: Long-term safety**

#### Evidence source:

There are limited data on long-term exposure to danicopan in clinical trials. However, there is no scientific rationale to suspect that the safety profile of danicopan in patients with a longer duration of treatment would differ to that characterised so far based on short-term clinical trial exposure.

#### Population in need of further characterisation:

The typical clinical development programme is not designed to detect all adverse effects with long latency or those that are infrequent. As such, data on long-term safety of danicopan use are needed. A planned post-authorisation safety study ALX-PNH-502 and 2 ongoing studies ALXN2040-PNH-301 and ALXN2040-PNH-303 will further characterise the long-term safety of danicopan in PNH patients (refer to III.2).

## **II.8 MODULE SVIII: SUMMARY OF THE SAFETY CONCERNS**

### **II.8.1 Summary of the safety concerns**

**Table II-5 Summary of safety concerns**

Important identified risks	None
Important potential risks	Meningococcal infection Serious infections Malignancies and haematologic abnormalities
Missing information	Use in pregnant and breastfeeding women Use in patients with severe hepatic impairment Long-term safety

### **III. PART III: PHARMACOVIGILANCE PLAN**

#### **III.1 ROUTINE PHARMACOVIGILANCE ACTIVITIES**

##### **Specific adverse reaction follow-up questionnaire for meningococcal infection:**

This structured follow-up form is designed to optimise collection of all relevant information associated with the case reports of meningococcal infection to deepen the understanding of the factors leading to this risk associated with danicopan.

This form aims to collect detailed information about the patient, concerned medicinal product, patient's history with meningococcal infections and information about past vaccination and ongoing antibiotic prophylaxis. It further collects information on laboratory findings (bacteriology, serology, biopsy) and clinical presentation of the event. Finally, information about treatment and outcome of the event are collected.

##### **Specific adverse reaction follow-up questionnaire for use in pregnant and breastfeeding women:**

This follow-up form is designed to collect information on pregnancy, newborns/infants exposed to danicopan during pregnancy (up to 3 months after date of birth), and breastfeeding.

It aims to collect general information on the course of pregnancy and delivery together with the outcomes for the newborn as well as on breastfeeding and outcomes for the breast-fed children.

The follow-up forms are provided in full in Annex 4.

#### **III.2 ADDITIONAL PHARMACOVIGILANCE ACTIVITIES**

##### **Post-authorisation safety study summary**

###### Study short name and title:

ALX-PNH-502 - An Observational Cohort Study to Assess Long-Term Safety of Danicopan Add-on Therapy in Patients with Paroxysmal Nocturnal Hemoglobinuria: Analysis of IPIG-Registry Data

###### Rationale and study objectives:

This is a post-authorisation non-interventional cohort study to evaluate the safety of danicopan as an add-on to ravulizumab or eculizumab in adult patients with PNH who have residual haemolytic anaemia.

There are limited data on danicopan long-term safety and the safety of danicopan in pregnant and breastfeeding women and patients with severe hepatic impairment. Further, the safety

profile of danicopan including the risks of meningococcal infection and serious infections in treated patients has not been characterised in real-world settings.

This study seeks to characterise the safety profile of danicopan as an add-on to ravulizumab or eculizumab in adult participants with PNH. The study's primary objectives are to:

- Characterise the long-term safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in participants with PNH
- Describe and compare the incidence of meningococcal infection in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy
- Describe and compare the incidence of serious infection in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy
- Describe and compare the incidence of malignancies and haematologic abnormalities in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy
- Characterise the safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in participants with severe hepatic impairment

The study's secondary objectives are to:

- Characterise the safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in pregnant participants, pregnant partners of participants, or participants who are breastfeeding
- Describe the demographic and clinical profile at treatment initiation in participants with PNH treated with danicopan as add-on therapy to ravulizumab/eculizumab
- Assess danicopan as add-on therapy to ravulizumab/eculizumab treatment discontinuation patterns among participants with PNH

List of addressed safety concerns:

- Meningococcal infection
- Serious infections

- Malignancies and haematologic abnormalities
- Use in pregnant and breastfeeding women
- Use in patients with severe hepatic impairment
- Long-term safety

Study design:

Non-interventional International PNH Interest Group (IPIG) PNH registry-based cohort study.

Study population:

Adult patients enrolled in the IPIG PNH Registry  $\geq$  18 years of age at treatment initiation with known year of birth, sex, informed consent date, and danicopan and ULTOMIRIS (ravulizumab) and/or SOLIRIS (eculizumab) treatment status will be eligible for inclusion in the study.

Milestones:

- Draft study protocol submission: 3 months post-approval
- First data extraction: Q4 2024
- Interim study reports: every 2 years throughout study conduct
- Final study report submission: Q3 2031

**Extension period of pivotal study in patients treated with danicopan summary**

Study short name and title:

ALXN2040-PNH-301 - A Phase 3 Study of Danicopan (ALXN2040) as Add-on Therapy to a C5 Inhibitor (Eculizumab or Ravulizumab) in Patients with Paroxysmal Nocturnal Hemoglobinuria Who Have Clinically Evident Extravascular Hemolysis (EVH)

Rationale and study objectives:

This pivotal Phase 3 study aims to evaluate the efficacy and safety of danicopan as an add-on therapy to a C5 inhibitor (eculizumab or ravulizumab) to treat clinically-evident EVH.

Additionally, the study aims to evaluate the safety of danicopan as add-on therapy to a C5 inhibitor during the long-term extension (LTE) period.

List of addressed safety concerns:

- Long-term safety

Study design:

This is a multiple-region, randomised, double-blind, placebo controlled, multiple-dose, Phase 3 study in patients with PNH who have clinically evident EVH on a C5 inhibitor (eculizumab or ravulizumab).

Study population:

This study has enrolled 86 patients who are receiving C5 inhibitor therapy according to the usual dose and schedule and continue to experience anaemia with or without the need of transfusion support.

Milestones:

Final clinical study report submission: Q1 2026

**Long-term extension study in patients treated with danicopan summary**

Study short name and title:

ALXN2040-PNH-303 - A Long-term Extension (LTE) Study to Characterize the Safety and Efficacy of Danicopan as an Add-on Therapy to a Complement Component 5 Inhibitor (C5i) in Patients with Paroxysmal Nocturnal Hemoglobinuria (PNH) Previously Treated with Danicopan in an Alexion-sponsored Clinical Study

Rationale and study objectives:

The purpose of this LTE study is to characterise the long-term safety and efficacy of danicopan as an add-on therapy to C5 inhibitor in patients with PNH who were previously treated with danicopan in an Alexion-sponsored clinical study.

List of addressed safety concerns:

- Long-term safety

Study design:

This is a single arm LTE study.

Study population:

This study will enrol patients with PNH who have completed participation in Alexion-sponsored clinical studies with danicopan as an add-on therapy to a C5 inhibitor.

Approximately 90 patients will be enrolled in this study.

Milestones:

Final clinical study report submission: Q1 2029



### III.3 SUMMARY TABLE OF ADDITIONAL PHARMACOVIGILANCE ACTIVITIES

**Table III-1 Ongoing and planned additional pharmacovigilance activities**

Study Status	Summary of objectives	Safety concerns addressed	Milestones	Due dates
Category 3 - Required additional pharmacovigilance activities				
<p>“An Observational Cohort Study to Assess Long-Term Safety of Danicopan Add-on Therapy in Patients with Paroxysmal Nocturnal Hemoglobinuria: Analysis of IPIG-Registry Data” (ALX-PNH-502) Planned</p>	<p>Primary objectives: - Characterise the long-term safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in participants with PNH - Describe and compare the incidence of meningococcal infection in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy - Describe and compare the incidence of serious infection in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy - Describe and compare the incidence of malignancies</p>	<ul style="list-style-type: none"> <li>- Meningococcal infection</li> <li>- Serious infections</li> <li>- Malignancies and haematologic abnormalities</li> <li>- Use in pregnant and breastfeeding women</li> <li>- Use in patients with severe hepatic impairment</li> <li>- Long-term safety</li> </ul>	Draft study protocol submission	3 months post-approval
			First data extraction	Q4 2024
			Interim study reports	Every 2 years throughout study conduct
			Final CSR submission	Q3 2031

**Table III-1 Ongoing and planned additional pharmacovigilance activities**

Study Status	Summary of objectives	Safety concerns addressed	Milestones	Due dates
	<p>and haematologic abnormalities in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy</p> <ul style="list-style-type: none"> <li>- Characterise the safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in participants with severe hepatic impairment</li> </ul> <p>Secondary objectives:</p> <ul style="list-style-type: none"> <li>- Characterise the safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in pregnant participants, pregnant partners of participants, or participants who are breastfeeding</li> <li>- Describe the demographic and clinical profile at treatment initiation in participants with PNH treated with danicopan as</li> </ul>			

**Table III-1 Ongoing and planned additional pharmacovigilance activities**

Study Status	Summary of objectives	Safety concerns addressed	Milestones	Due dates
	add-on therapy to ravulizumab/eculizumab - Assess danicopan as add-on therapy to ravulizumab/eculizumab treatment discontinuation patterns among participants with PNH			
“A Phase 3 Study of Danicopan (ALXN2040) as Add-on Therapy to a C5 Inhibitor (Eculizumab or Ravulizumab) in Patients with Paroxysmal Nocturnal Hemoglobinuria Who Have Clinically Evident Extravascular Hemolysis (EVH)” (ALXN2040-PNH-301) Ongoing	Primary objective: - To evaluate the efficacy of danicopan as compared to placebo as add-on therapy to a C5 inhibitor at 12 weeks Safety objectives: - To evaluate the safety and tolerability of 24 weeks of treatment with danicopan as add-on therapy to a C5 inhibitor - To evaluate the safety and tolerability of danicopan as add-on therapy to a C5 inhibitor during the LTE period	- Long-term safety	Final CSR submission	Q1 2026
“A Long-term Extension (LTE) Study to Characterize the Safety and Efficacy of	Primary objective: - To characterise the long-term safety of treatment	- Long-term safety	Final CSR submission	Q1 2029

**Table III-1 Ongoing and planned additional pharmacovigilance activities**

Study Status	Summary of objectives	Safety concerns addressed	Milestones	Due dates
<p>Danicopan as an Add-on Therapy to a Complement Component 5 Inhibitor (C5i) in Patients with Paroxysmal Nocturnal Hemoglobinuria (PNH) Previously Treated with Danicopan in an Alexion-sponsored Clinical Study” (ALXN2040-PNH-303) Ongoing</p>	<p>with danicopan as an add-on therapy to a C5 inhibitor</p> <p>Secondary objectives:</p> <ul style="list-style-type: none"> <li>- To characterise long-term efficacy of danicopan as an add-on therapy to a C5 inhibitor</li> <li>- To characterise the long-term effect of treatment with danicopan as an add on therapy to a C5 inhibitor on FACIT-Fatigue scores and on European Organisation for Research and Treatment of Cancer Quality-of-life Questionnaire-Core 30 Scale scores</li> <li>- To further characterise the safety of danicopan as an add-on therapy to a C5 inhibitor</li> </ul>			

C5, complement component 5; CSR, clinical study report; FACIT, Functional Assessment of Chronic Illness Therapy; IPIG, International PNH Interest Group; LTE, long-term extension; PNH, paroxysmal nocturnal haemoglobinuria; Q, quarter.

**IV. PART IV: PLANS FOR POST-AUTHORISATION EFFICACY STUDIES**

Not applicable.

## V. PART V: RISK MINIMISATION MEASURES

### V.1 ROUTINE RISK MINIMISATION MEASURES

**Table V-1 Description of routine risk minimisation measures by safety concern**

Safety concern	Routine risk minimisation activities
Meningococcal infection	<p>Routine risk communication: SmPC sections 4.3 and 4.4 PL sections 2 and 4</p> <p>Routine risk minimisation activities recommending specific clinical measures to address the risk: Signs and symptoms of meningococcal infection and steps to be taken should any of these occur are detailed in SmPC section 4.4 and the PL section 2. The need for a vaccination (including the need for antibiotic prophylaxis until 2 weeks after vaccination) is stated in SmPC section 4.4. and PL section 2.</p> <p>Other routine risk minimisation measures beyond the Product Information: Legal status: Subject to restricted medical prescription.</p>
Serious infections	<p>Routine risk communication: SmPC section 4.4 PL sections 2 and 4</p> <p>Other routine risk minimisation measures beyond the Product Information: Legal status: Subject to restricted medical prescription.</p>
Malignancies and haematologic abnormalities	<p>Other routine risk minimisation measures beyond the Product Information: Legal status: Subject to restricted medical prescription.</p>

**Table V-1 Description of routine risk minimisation measures by safety concern**

Safety concern	Routine risk minimisation activities
Use in pregnant and breastfeeding women	<p>Routine risk communication: SmPC sections 4.6 and 5.3 PL section 2</p> <p>Routine risk minimisation activities recommending specific clinical measures to address the risk: The recommendation for the use of effective contraception during treatment and until 3 days after discontinuation is included in SmPC section 4.6 and PL section 2.</p> <p>Other routine risk minimisation measures beyond the Product Information: Legal status: Subject to restricted medical prescription.</p>
Use in patients with severe hepatic impairment	<p>Routine risk communication: SmPC sections 4.2, 4.4, and 5.2</p> <p>Other routine risk minimisation measures beyond the Product Information: Legal status: Subject to restricted medical prescription.</p>
Long-term safety	<p>Other routine risk minimisation measures beyond the Product Information: Legal status: Subject to restricted medical prescription.</p>

PL, Package Leaflet; SmPC, Summary of Product Characteristics.

## 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 V-2 Summary table of pharmacovigilance activities and risk minimisation activities by safety concern**

Safety concern	Risk minimisation measures	Pharmacovigilance activities
Meningococcal infection	<p>Routine risk minimisation measure: SmPC sections 4.3 and 4.4 PL sections 2 and 4</p> <p>Signs and symptoms of meningococcal infection and steps to be taken should any of these occur are detailed in SmPC section 4.4 and the PL section 2.</p> <p>The need for a vaccination (including the need for antibiotic prophylaxis until 2 weeks after vaccination) is stated in SmPC section 4.4. and PL section 2.</p> <p>Subject to restricted medical prescription.</p>	<p>Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection: Specific adverse reaction follow-up questionnaire</p> <p>Additional pharmacovigilance activities: ALX-PNH-502 (final CSR: Q3 2031)</p>
Serious infections	<p>Routine risk minimisation measure: SmPC section 4.4 PL sections 2 and 4</p> <p>Subject to restricted medical prescription.</p>	<p>Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection: None</p> <p>Additional pharmacovigilance activities: ALX-PNH-502 (final CSR: Q3 2031)</p>
Malignancies and haematologic abnormalities	<p>Routine risk minimisation measure: Subject to restricted medical prescription</p>	<p>Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection: None</p> <p>Additional pharmacovigilance activities: ALX-PNH-502 (final CSR: Q3 2031)</p>



**Table V-2 Summary table of pharmacovigilance activities and risk minimisation activities by safety concern**

<b>Safety concern</b>	<b>Risk minimisation measures</b>	<b>Pharmacovigilance activities</b>
Use in pregnant and breastfeeding women	Routine risk minimisation measure: SmPC sections 4.6 and 5.3 PL section 2  The recommendation for the use of effective contraception during treatment and until 3 days after discontinuation is included in SmPC section 4.6 and PL section 2.  Subject to restricted medical prescription.	Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection:  Specific adverse reaction follow-up questionnaire  Additional pharmacovigilance activities:  ALX-PNH-502 (final CSR: Q3 2031)
Use in patients with severe hepatic impairment	Routine risk minimisation measure: SmPC sections 4.2, 4.4, and 5.2  Subject to restricted medical prescription.	Additional pharmacovigilance activities:  ALX-PNH-502 (final CSR: Q3 2031)
Long-term safety	Routine risk minimisation measure:  Subject to restricted medical prescription	Additional pharmacovigilance activities:  ALX-PNH-502 (final CSR: Q3 2031)  ALXN2040-PNH-301 (final CSR: Q1 2026)  ALXN2040-PNH-303 (final CSR: Q1 2029)

CSR, clinical study report; PL, Package Leaflet; PNH, paroxysmal nocturnal haemoglobinuria; SmPC, Summary of Product Characteristics.

## **VI. PART VI: SUMMARY OF THE RISK MANAGEMENT PLAN**

### **Summary of risk management plan for VOYDEYA (danicopan)**

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

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

This summary of the RMP for VOYDEYA 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 VOYDEYA RMP.

#### **VI.1 THE MEDICINE AND WHAT IT IS USED FOR**

VOYDEYA is indicated as an add-on therapy to ravulizumab or eculizumab for the treatment of adult patients with paroxysmal nocturnal haemoglobinuria who have residual haemolytic anaemia. It contains danicopan as the active substance and it is given by oral route of administration.

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

#### **VI.2 RISKS ASSOCIATED WITH THE MEDICINE AND ACTIVITIES TO MINIMISE OR FURTHER CHARACTERISE THE RISKS**

Important risks of VOYDEYA, together with measures to minimise such risks and the proposed studies for learning more about VOYDEYA 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 (eg, 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 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 VOYDEYA is not yet available, it is listed under ‘missing information’ below.

### VI.2.1 List of important risks and missing information

Important risks of VOYDEYA 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 VOYDEYA. 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 (eg, on the long-term use of the medicine);

**Table VI-1 List of important risks and missing information**

Important identified risks	None
Important potential risks	Meningococcal infection Serious infections Malignancies and haematologic abnormalities
Missing Information	Use in pregnant and breastfeeding women Use in patients with severe hepatic impairment Long-term safety

## VI.2.2 Summary of important risks

**Table VI-2 Important potential risk: Meningococcal infection**

<p>Evidence for linking the risk to the medicine</p>	<p>This important potential risk is based on danicopan mode of action, experience from individuals with complement deficiencies (Biesma et al 2001, Figueroa and Densen 1991, Hiemstra et al 1989, Sprong et al 2006), and terminal complement inhibitors, eculizumab and ravulizumab (Röth et al 2018).</p> <p>The link between terminal complement components deficiency states and (serious) infections caused by <i>Neisseria meningitidis</i> is firmly established and evidenced by the scientific literature (Figueroa and Densen 1991, Lewis and Ram 2014, Ram et al 2010, Ross and Densen 1984). However, this risk remains potential for FD inhibitors since classical and lectin pathways of complement are not inhibited by FD blockade.</p>
<p>Risk factors and risk groups</p>	<p>No risk factors specific to danicopan were identified. General risk factors for meningococcal infection include the following:</p> <ul style="list-style-type: none"> <li>• Underlying disease (eg, splenectomised patients with sickle cell disease), genetic complement deficiency or therapeutic inhibition of complement (eg, C5 inhibitors eculizumab and ravulizumab)</li> <li>• Lack of commercially available vaccine against certain meningococcus serogroup</li> <li>• (Partial) resistance of meningococcal strain to prophylactic antibiotics</li> <li>• Professionals who are exposed to environments of greater risk for meningococcal disease</li> <li>• Research, industrial, and clinical laboratory personnel who are routinely exposed to <i>N meningitidis</i></li> <li>• Military personnel during recruit training (military personnel may be at increased risk of meningococcal infection when accommodated in close quarters)</li> <li>• Day-care centre workers</li> <li>• Living on a college or university campus</li> <li>• Travelling to endemic areas for meningococcal meningitis (eg, India, Sub Saharan Africa, pilgrimage to Saudi Arabia for Hajj).</li> </ul>
<p>Risk minimisation measures</p>	<p>Routine risk minimisation measure:</p> <p>SmPC sections 4.3 and 4.4</p> <p>PL sections 2 and 4</p> <p>Signs and symptoms of meningococcal infection and steps to be taken should any of these occur are detailed in SmPC section 4.4 and the PL section 2.</p> <p>The need for a vaccination (including the need for antibiotic prophylaxis until 2 weeks after vaccination) is stated in SmPC section 4.4. and PL section 2.</p> <p>Subject to restricted medical prescription</p>

**Table VI-2 Important potential risk: Meningococcal infection**

Additional pharmacovigilance activities	Additional pharmacovigilance activities: ALX-PNH-502 See section VI.2.3 of this summary for an overview of the post-authorisation development plan.
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C5, complement component 5; FD, factor D; PL, Package Leaflet; PNH, paroxysmal nocturnal haemoglobinuria; SmPC, Summary of Product Characteristics.

**Table VI-3 Important potential risk: Serious infections**

Evidence for linking the risk to the medicine	This important potential risk is based on danicopan mode of action, experience from individuals with inherited alternative pathway deficiencies, including partial or complete FD deficiency (Biesma et al 2001, Hiemstra et al 1989, Kluin-Nelemans et al 1984, Ram et al 2010, Sprong et al 2006, Weiss et al 1998), and terminal complement inhibitors, eculizumab and ravulizumab (Röth et al 2018). Since a causal relationship of serious infections to danicopan therapy has not been confirmed in clinical trials, this remains a potential risk.
Risk factors and risk groups	The general risk factors for development of infections include any immunodeficiency, either acquired or due to underlying condition. PNH patients are at increased risk of infections, especially those who experience bone marrow failure (aplastic anaemia, myelodysplastic syndrome).
Risk minimisation measures	Routine risk minimisation measure: SmPC section 4.4 PL sections 2 and 4 Subject to restricted medical prescription
Additional pharmacovigilance activities	Additional pharmacovigilance activities: ALX-PNH-502 See section VI.2.3 of this summary for an overview of the post-authorisation development plan.

FD, factor D; PL, Package Leaflet; PNH, paroxysmal nocturnal haemoglobinuria; SmPC, Summary of Product Characteristics.

**Table VI-4 Important potential risk: Malignancies and haematologic abnormalities**

Evidence for linking the risk to the medicine	Malignancies and hematologic abnormalities are monitored as an important potential risk with C5 inhibitor ravulizumab therapy, though a causal relationship to ravulizumab has not yet been confirmed. Since a causal relationship of malignancies and hematologic abnormalities to danicopan therapy also has not been confirmed in clinical trials, this remains a potential risk. Additionally, as the natural evolution of PNH makes PNH patients more prone to development of haematologic abnormalities or malignancies (de Latour, 2008; Hillmen, 1995; Socié, 1996), the role of danicopan remains unknown.
Risk factors and risk groups	Patients with underlying myelodysplastic syndrome or other pre-leukaemic syndromes are at risk of leukaemia acutisation.

**Table VI-4 Important potential risk: Malignancies and haematologic abnormalities**

Risk minimisation measures	Routine risk minimisation measure: Subject to restricted medical prescription
Additional pharmacovigilance activities	Additional pharmacovigilance activities: ALX-PNH-502 See section VI.2.3 of this summary for an overview of the post-authorisation development plan.

C5, complement component 5; PNH, paroxysmal nocturnal haemoglobinuria

**Table VI-5 Missing information: Use in pregnant and breastfeeding women**

Risk minimisation measures	Routine risk minimisation measure: SmPC sections 4.6 and 5.3 PL section 2 The recommendation for the use of effective contraception during treatment and until 3 days after discontinuation is included in SmPC section 4.6 and PL section 2. Subject to restricted medical prescription
Additional pharmacovigilance activities	Additional pharmacovigilance activities: ALX-PNH-502 See section VI.2.3 of this summary for an overview of the post-authorisation development plan.

PL, Package Leaflet; PNH, paroxysmal nocturnal haemoglobinuria; SmPC, Summary of Product Characteristics.

**Table VI-6 Missing information: Use in patients with severe hepatic impairment**

Risk minimisation measures	Routine risk minimisation measure: SmPC sections 4.2, 4.4, and 5.2 Subject to restricted medical prescription
Additional pharmacovigilance activities	Additional pharmacovigilance activities: ALX-PNH-502 See section VI.2.3 of this summary for an overview of the post-authorisation development plan.

PNH, paroxysmal nocturnal haemoglobinuria; SmPC, Summary of Product Characteristics.

**Table VI-7 Missing information: Long-term safety**

Risk minimisation measures	Routine risk minimisation measure: Subject to restricted medical prescription
Additional pharmacovigilance activities	Additional pharmacovigilance activities: ALX-PNH-502 ALXN2040-PNH-301 ALXN2040-PNH-303 See section VI.2.3 of this summary for an overview of the post-authorisation development plan.

PNH, paroxysmal nocturnal haemoglobinuria.

## **VI.2.3 Post-authorisation development plan**

### **VI.2.3.1 Studies which are conditions of the marketing authorisation**

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

### **VI.2.3.2 Other studies in post-authorisation development plan**

#### **ALX-PNH-502**

Purpose of the study: This is a post-authorisation non-interventional cohort study to evaluate the safety of danicopan as an add-on to ravulizumab or eculizumab in adult patients with PNH who have residual haemolytic anaemia.

There are limited data on danicopan long-term safety and the safety of danicopan in pregnant and breastfeeding women and patients with severe hepatic impairment. Further, the safety profile of danicopan including the risk of meningococcal infection in treated patients has not been characterised in real-world settings.

This study seeks to characterise the safety profile of danicopan as an add-on to ravulizumab or eculizumab in adult participants with PNH. The study's primary objectives are to:

- Characterise the long-term safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in participants with PNH
- Describe and compare the incidence of meningococcal infection in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy
- Describe and compare the incidence of serious infection in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy

- Describe and compare the incidence of malignancies and haematologic abnormalities in participants with PNH treated with 1) danicopan as add-on therapy to ravulizumab/eculizumab and 2) ULTOMIRIS or SOLIRIS monotherapy
- Characterise the safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in participants with severe hepatic impairment

The study's secondary objectives are to:

- Characterise the safety profile of danicopan as add-on therapy to ravulizumab/eculizumab in pregnant participants, pregnant partners of participants, or participants who are breastfeeding
- Describe the demographic and clinical profile at treatment initiation in participants with PNH treated with danicopan as add-on therapy to ravulizumab/eculizumab
- Assess danicopan as add-on therapy to ravulizumab/eculizumab treatment discontinuation patterns among participants with PNH

#### **ALXN2040-PNH-301**

Purpose of the study: This pivotal Phase 3 study aims to evaluate the efficacy and safety of danicopan as an add-on therapy to a C5 inhibitor (eculizumab or ravulizumab) to treat clinically-evident EVH.

Additionally, the study aims to evaluate the safety of danicopan as add-on therapy to a C5 inhibitor during the long-term extension (LTE) period.

#### **ALXN2040-PNH-303**

Purpose of the study: The purpose of this LTE study is to characterise the long-term safety and efficacy of danicopan as an add-on therapy to C5 inhibitor in patients with PNH who were previously treated with danicopan in an Alexion-sponsored clinical study.



## **VII. PART VII: ANNEXES**

### **VII.1 ANNEX 4 - SPECIFIC ADVERSE DRUG REACTION FOLLOW-UP FORMS**

- *Global Pharmacovigilance Suspected/Confirmed Meningococcal Case Questionnaire*
- *Pregnancy Reporting and Outcome Form/Breast Feeding*

# Global Drug Safety Suspected / Confirmed Meningococcal Case Questionnaire

Please send completed form to: [adverseeventreporting@alexion.com](mailto:adverseeventreporting@alexion.com) or Fax to: 1-203-439-9347 or [clinicalsaes@alexion.com](mailto:clinicalsaes@alexion.com) (for clinical trials only)

Alexion Manufacturer Number:

Date of Birth:  (DD/MMM/YYYY)

Age (if known):

**Or Age Category:**

Child (<12 years)     Adolescent (12-17 years)     Adults (18-65 years)     Elderly (>65 years)

**Gender:**

Female     Male     Prefer not to disclose

Intersex     Transgender

**Weight:**

lbs.

kgs.

**Height:**

cm.

in.

**Ethnicity:** (Applicable for US Only. Record only if obtained through voluntary self-identification.)

Not Hispanic or Latino     Hispanic or Latino

Not Reported     Unknown

**Race:** (Applicable for US Only. Record only if obtained through voluntary self-identification.)

Aboriginal or Torres Strait Islander     Caucasian

African American     Native Hawaiian or Pacific Islander

American Indian or Alaska Native     Not Reported

Asian     Unknown

Black

Other (Specify)

**Product Name:**

**Current Dosage:**

**Initiation**

**Date and Dosage:**

**Last dose**

**prior to the event**

**Date and Dosage:**

(DD/MMM/YYYY)

**Action Taken with Product:**

No Change     Temporarily withdrawn     Drug Interrupted     Withdrawn

Dose Increased     Dose Decreased     Unknown     Not Applicable

Other (Specify)

# Global Drug Safety Suspected / Confirmed Meningococcal Case Questionnaire

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Product Name:

Current Dosage:

Initiation  
Date and Dosage:

Last dose  
prior to the event  
Date and Dosage:

(DD/MMM/YYYY)

Action Taken with Product:

- No Change       Temporarily withdrawn       Drug Interrupted       Withdrawn
- Dose Increased       Dose Decreased       Unknown       Not Applicable
- Other (Specify)

## Patient History

---

Previous history of  
meningococcal infection?

Yes

(please describe)

No

Unknown

Risk factor for  
meningococcal infection?

Yes

(please describe)

No

Unknown

(ex. Medical condition, exposure to laboratory, industry, close quarters, college campus, daycare workers, military, living in proximity or recent travel to endemic areas)

Meningococcal Vaccination

Yes (provide vaccine name and date below)

No

Unknown

Was the patient vaccinated per Advisory Committee on Immunization Practices (ACIP) guidelines?

(Applicable for US only)

Yes

No

Unknown

Was the patient vaccinated according to current national vaccination guidelines?

(Applicable for ex-US only)

Yes

No

Unknown

Not Applicable

Vaccine Name:

Initial

Vaccination date:

(DD/MMM/YYYY)

Booster

Vaccination date:

(DD/MMM/YYYY)

# Global Drug Safety Suspected / Confirmed Meningococcal Case Questionnaire

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Vaccine Name:	<input type="text"/>	<input type="checkbox"/> Initial	Vaccination date:	<input type="text"/>
				(DD/MMM/YYYY)
		<input type="checkbox"/> Booster	Vaccination date:	<input type="text"/>
				(DD/MMM/YYYY)
Vaccine Name:	<input type="text"/>	<input type="checkbox"/> Initial	Vaccination date:	<input type="text"/>
				(DD/MMM/YYYY)
		<input type="checkbox"/> Booster	Vaccination date:	<input type="text"/>
				(DD/MMM/YYYY)
Vaccine Name:	<input type="text"/>	<input type="checkbox"/> Initial	Vaccination date:	<input type="text"/>
				(DD/MMM/YYYY)
		<input type="checkbox"/> Booster	Vaccination date:	<input type="text"/>
				(DD/MMM/YYYY)

Antibiotic prophylaxis:  Yes  No

(If yes) Antibiotic Name / Active substance:  Dosage / frequency:

Start date:  Stop date:   Ongoing

(DD/MMM/YYYY) (DD/MMM/YYYY)

Is the patient compliant with their antibiotic prophylaxis?  Yes  No  Unknown

## Bacteriological work up

---

CSF: Direct Exam Results:

CSF: Culture Results:

CSF: PCR Results:

Blood: Direct Exam Results:

Blood: Culture Results:

Blood: PCR Results:

# Global Drug Safety Suspected / Confirmed Meningococcal Case Questionnaire

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## Clinical Presentation

---

Description of initial clinical signs and/or symptoms patient has presented with:

Onset Date of first symptom(s)

(DD/MMM/YYYY)

Malaise  Yes  No

Myalgia  Yes  No

Fever  Yes  No

(If yes, please provide temp)

Hypothermia  Yes  No

(If yes, please provide temp)

Headache  Yes  No

Neck stiffness  Yes  No

Photophobia  Yes  No

Vomiting  Yes  No

Confusion  Yes  No

Chills  Yes  No

Convulsions  Yes  No

Rash  Yes  No

(If yes, please specify type and localization)

Other  Yes  No

(Please specify)

### Patients who receive(d) Antibiotic Prophylaxis Only:

Minimum Inhibitory Concentration (MIC):

## Serology

---

Neisseria meningitidis serogroup / serotype:

A

B

C

W135

X

Y

Z

Other:

# Global Drug Safety Suspected / Confirmed Meningococcal Case Questionnaire

Please send completed form to: [adverseeventreporting@alexion.com](mailto:adverseeventreporting@alexion.com) or Fax to: 1-203-439-9347 or [clinicalsaes@alexion.com](mailto:clinicalsaes@alexion.com) (for clinical trials only)

*(specify)*

Neisseria meningitidis serosubtype:  
*(if available)*

Neisseria meningitidis Genotyping (MLST):  
*(if available)*

Meningococcal Antigen Typing System (MATS) assay (For serogroup B infection in patients vaccinated by 4CMenB):

## Skin biopsy culture:

Done

If done, results:

Not done

## Treatment of the event

---

Antibiotic Name:

Start date:

  
*(DD/MMM/YYYY)*

Stop date:

  
*(DD/MMM/YYYY)*

Ongoing

## Other medication:

Medication Name:

Start date:

  
*(DD/MMM/YYYY)*

Stop date:

  
*(DD/MMM/YYYY)*

Ongoing

Other supportive treatment:

Was the patient admitted to the ICU?

Yes

No

Unknown

Did the patient experience or require any of the following (select all that apply):

# Global Drug Safety Suspected / Confirmed Meningococcal Case Questionnaire

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Any organ system failure  
(specify)

Mechanical ventilation

Medication (vasopressors) to support blood pressure (specify)

## Outcome

---

Unknown

Recovered  Recovered with sequelae  
(specify sequelae)

Date Recovered:

  
(DD/MMM/YYYY)

Ongoing

Fatal  
(Specify cause of death)

Date of Death:

  
(DD/MMM/YYYY)

## Additional Comments:

Name of Individual Completing the Form

Designation

Contact Information

Date Form Completed

 Pregnancy/Breastfeeding Reporting and Outcome Form	FRM-0502455 v1.0
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- Please complete and send Section I (p1-3) at start of pregnancy depending on report type to either...
  - Post-Marketing Email: [AdverseEventReporting@alexion.com](mailto:AdverseEventReporting@alexion.com)  
OR
  - Clinical Trials/Studies Email: [ClinicalSAE@alexion.com](mailto:ClinicalSAE@alexion.com)
- Please continue report both immediately post-delivery and at three months post-delivery
- Please add additional notes, if necessary, into section IV at the bottom of page 4.

**I Pre-delivery**

<b>A) General Information</b>				
A0	Suspect Drug:  Action taken with suspect drug in response to pregnancy: _____	Indication: _____  Dosage of drug prior to discovery of pregnancy: _____	Adjusted dosage of drug since discovery of pregnancy: _____	Date of last drug administration before pregnancy was noticed. ____/____/____ dd /mmm / yyyy
A1	Patient ID (if applicable):	Pregnant: Patient <input type="checkbox"/> Patient's partner <input type="checkbox"/>	Date pregnancy was noticed ____/____/____ dd /mmm/yyyy	Estimated date of delivery ____/____/____ dd / mmm / yyyy
A2	Mother's date of birth or Age	____/____/____ or _____ dd / mmm / yyyy	Height: _____ <input type="checkbox"/> cm <input type="checkbox"/> ft/inches	Weight: _____ <input type="checkbox"/> kg <input type="checkbox"/> lbs
A3	Source of information for this report (Reporter)	<input type="checkbox"/> = (Pregnant) woman <input type="checkbox"/> = Primary care physician/Investigator <input type="checkbox"/> = Obstetrician <input type="checkbox"/> = Pediatrician <input type="checkbox"/> = Other: _____		
A4	Date of this Report (current date)	____/____/____ dd / mmm / yyyy		
A5	Name, Address and email of Reporter			
A6	Name, Address and email of Gynecologist- obstetrician (if applicable)			
A7	Name and address of place of planned delivery			
<b>B) Maternal Information</b>				
<b>Obstetrical History</b>				
B1	Previous pregnancies	N = _____		
B2	Outcome of previous pregnancies (insert digits if multiple pregnancies)	<input type="checkbox"/> = Live birth <input type="checkbox"/> = Miscarriage <input type="checkbox"/> = Elective termination <input type="checkbox"/> = Late fetal death <input type="checkbox"/> = Ectopic pregnancy <input type="checkbox"/> = Molar pregnancy		





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<b>B3</b>	Previous pregnancy complications:	<input type="checkbox"/> = None <input type="checkbox"/> = _____
<b>B4</b>	Previous fetal / neonatal abnormalities and type	<input type="checkbox"/> = Yes _____ <input type="checkbox"/> = None
<b>B5</b>	Medical History	<input type="checkbox"/> = None <input type="checkbox"/> = Hypertension <input type="checkbox"/> = Diabetes <input type="checkbox"/> = Seizures <input type="checkbox"/> = Thyroid disorder <input type="checkbox"/> = Asthma <input type="checkbox"/> = Allergic disease <input type="checkbox"/> = Heart Disease <input type="checkbox"/> = Depression <input type="checkbox"/> = Other psychiatric disorder <input type="checkbox"/> = Sexual transmitted disease <input type="checkbox"/> = Hepatitis <input type="checkbox"/> = HIV / AIDS
<b>B6</b>	Family history	<input type="checkbox"/> = None <input type="checkbox"/> = History of congenital abnormality <input type="checkbox"/> = Psychomotor retardation in family
<b>B7</b>	Consanguinity between parents	<input type="checkbox"/> = None <input type="checkbox"/> Degree of relationship: _____
<b>Current Pregnancy</b>		
<b>B8</b>	Date of last menstrual period (LMP*)	____/____/____ dd /mmm / yyyy
<b>B9</b>	Gestational age at the time of last study drug intake	_____ weeks _____ days based on <input type="checkbox"/> = Ultrasound <input type="checkbox"/> = LMP*
<b>B10</b>	Number of fetuses	N = _____
<b>B11</b>	Contraceptive method(s) used before pregnancy	<input type="checkbox"/> = None <input type="checkbox"/> = Oral contraceptive <input type="checkbox"/> = Other _____
<b>B12</b>	Recreational drug use	<input type="checkbox"/> = Tobacco <input type="checkbox"/> = Alcohol <input type="checkbox"/> = Illicit drug (specify amount and when stopped)
<b>B13</b>	Positive serology tests	<input type="checkbox"/> = None <input type="checkbox"/> = Rubella <input type="checkbox"/> = Toxoplasmosis <input type="checkbox"/> = Other _____
Please fill out B14-B17 for initial <u>and</u> follow-up information:		
<b>B14</b>	Concomitant medication (including over-the-counter medication, supplements, vitamins)	Initial:  Follow-up:
<b>B15</b>	Complications during pregnancy and date (including any adverse drug reactions) Please report further complications on page 4	Initial <input type="checkbox"/> = None <input type="checkbox"/> = (If any: document on last page)  Follow-up <input type="checkbox"/> = None <input type="checkbox"/> = (If any: document on last page)



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<b>B16</b>	Disease course(s) during pregnancy and any complications Please indicate for all complications listed in B17.	Initial <input type="checkbox"/> = None <input type="checkbox"/> = (If any: document on last page) Follow-up: <input type="checkbox"/> = None <input type="checkbox"/> = (If any: document on last page)
<b>B17</b>	Antenatal check-up (specify dates and results), e.g. fetal ultrasound, serum markers (AFP etc), chorionic biopsy, amniocentesis	Initial: <input type="checkbox"/> = No path. findings <input type="checkbox"/> = (document on last page) Follow-up: <input type="checkbox"/> = No path. findings <input type="checkbox"/> = (document on last page)
	____/____/____ dd / mmm / yyyy Reporter's Signature Date (Initial)	____/____/____ dd /mmm / yyyy Reporter's Signature Date (Follow Up)

**II Post-delivery**

**C) Delivery and Neonatal Information (Initial) - Please also complete B14-B17 if applicable**

<b>C1</b>	<b>Source and date of information</b>		____/____/____ dd / mmm / yyyy
<b>C2</b>	<b>Mode of delivery</b>	<input type="checkbox"/> = Spontaneous <input type="checkbox"/> = Caesarian section <input type="checkbox"/> = Other _____	
<b>C3</b>	<b>Labor / Delivery complications</b>	<input type="checkbox"/> = None <input type="checkbox"/> Fetal distress <input type="checkbox"/> Amniotic fluid abnormal <input type="checkbox"/> Abnormal placenta <input type="checkbox"/> = Other _____	
<b>C4</b>	<b>Outcome of pregnancy</b>	<input type="checkbox"/> = Live birth <input type="checkbox"/> = Miscarriage <input type="checkbox"/> = Elective termination <input type="checkbox"/> = Late fetal death <input type="checkbox"/> = Ectopic pregnancy <input type="checkbox"/> = Molar pregnancy	
<b>C5</b>	<b>Date of delivery</b>	____/____/____ dd /mmm / yyyy	Gender: <input type="checkbox"/> = Male <input type="checkbox"/> = Female
<b>C6</b>	<b>Gestational age at birth</b>	_____ weeks	
<b>C7</b>	<b>Weight at birth</b>	_____ <input type="checkbox"/> kg <input type="checkbox"/> lbs	
<b>C8</b>	<b>Length</b>	_____ <input type="checkbox"/> cm <input type="checkbox"/> inches	
<b>C9</b>	<b>Head circumference</b>	_____ <input type="checkbox"/> cm <input type="checkbox"/> inches	
<b>C10</b>	<b>Malformation/anomalies diagnosed at birth</b>	<input type="checkbox"/> = None <input type="checkbox"/> = Other:	
<b>C11</b>	<b>APGAR Score</b>	APGAR Score 1	APGAR Score 2
<b>C12</b>	<b>Admission to intensive care unit?</b>	<input type="checkbox"/> = No <input type="checkbox"/> = Yes:	
<b>C13</b>	<b>Neonatal illness, hospitalization, drug therapies</b>	<input type="checkbox"/> = None <input type="checkbox"/> = Other:	



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<b>C14</b>	<b>Breastfeeding</b>	<input type="checkbox"/> = No <input type="checkbox"/> = Yes: Start date ____/____/____ Stop date ____/____/____ dd /mmm/ yyyy      dd /mmm/ yyyy Did the breastfed infant experience any adverse events or side effects <input type="checkbox"/> = No <input type="checkbox"/> = Yes (please complete an adverse event report form and send it to Alexion)
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D) Fetal Information in case of elective termination, spontaneous abortion, and late fetal death			
<b>D1</b>	<b>Source and date of information</b>		____/____/____ dd/mmm/yyyy
<b>D2</b>	<b>Reason for termination (If applicable)</b>		
<b>D3</b>	<b>Gestational age at termination</b>	_____ weeks	
<b>D4</b>	<b>Results of physical examination (gender, external anomalies) and pathology</b>	_____	

**III Follow-up - Three months after birth**

<b>1</b>	<b>Source and date of information</b>		____/____/____ dd/mmm/yyyy
<b>2</b>	<b>Malformation/anomalies diagnosed since initial report</b>	<input type="checkbox"/> = None <input type="checkbox"/> = Other:	
<b>3</b>	<b>Infant illnesses hospitalizations, drug therapies</b>	<input type="checkbox"/> = None <input type="checkbox"/> = Other:	
Reporter's Signature _____		____/____/____ dd/mmm/yyyy	

**IV Additional Notes**


## **VII.2 ANNEX 6 - DETAILS OF PROPOSED ADDITIONAL RISK MINIMISATION ACTIVITIES**

Not applicable.