

ULTOMIRIS is the first and only long-acting terminal complement inhibitor approved for both adult and pediatric patients with paroxysmal nocturnal hemoglobinuria (PNH)^{1,2}

To reduce the risk of intravascular hemolysis, the driver of thrombosis^a in PNH

BLOCK THE CAUSE

with immediate, complete, and sustained C5 inhibition.¹⁻¹¹

¹Intravascular hemolysis, as measured by the biomarker LDH, is associated with a significantly increased risk of thromboembolic events in PNH. C5=complement protein 5; LDH=lactate dehydrogenase.

INDICATION

ULTOMIRIS is indicated for the treatment of adult and pediatric patients one month of age and older with paroxysmal nocturnal hemoglobinuria (PNH). Subcutaneous Use in Adult Patients with PNH

Subcutaneous administration of ULTOMIRIS is not approved for use in pediatric patients.

SELECT IMPORTANT SAFETY INFORMATION

WARNING: SERIOUS MENINGOCOCCAL INFECTIONS

Life-threatening meningococcal infections/sepsis have occurred in patients treated with ULTOMIRIS. Meningococcal infection may become rapidly life-threatening or fatal if not recognized and treated early.

- Comply with the most current Advisory Committee on Immunization Practices (ACIP) recommendations for meningococcal vaccination in patients with complement deficiencies.
- Immunize patients with meningococcal vaccines at least 2 weeks prior to administering the first dose of ULTOMIRIS, unless the
 risks of delaying ULTOMIRIS therapy outweigh the risk of developing a meningococcal infection. See Warnings and Precautions for
 additional guidance on the management of the risk of meningococcal infection.
- Vaccination reduces, but does not eliminate, the risk of meningococcal infections. Monitor patients for early signs of meningococcal infections and evaluate immediately if infection is suspected.

Because of the risk of serious meningococcal infections, ULTOMIRIS is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called ULTOMIRIS REMS.

^bStarting 2 weeks after the intravenous loading dose, maintenance doses are infused intravenously every 8 weeks for adult patients and every 4 or 8 weeks for pediatric patients (depending on body weight).

UP TO

weeks control

CONTRAINDICATIONS

- Patients with unresolved *Neisseria meningitidis* infection.
- Patients who are not currently vaccinated against *Neisseria* meningitidis, unless the risks of delaying ULTOMIRIS treatment outweigh the risks of developing a meningococcal infection.

Please see Important Safety Information throughout and accompanying full <u>Prescribing Information</u> (<u>UltomirisHCP.com/Pl</u>) for ULTOMIRIS, including Boxed WARNING regarding serious and life-threatening meningococcal infections/sepsis.

PNH is a chronic disease of devastating C5-mediated sequelae⁷⁻¹⁰

In PNH, an acquired PIG-A mutation in hematopoietic stem cells results in the complete or partial absence of the GPI-anchored proteins CD55 and CD59 from the surface of progeny cells, leading to complementmediated intravascular hemolysis of affected RBCs, activation of other affected cells (platelets, WBCs), and thrombosis, end-organ damage, and early mortality.^{7-10,12}

The complement cascade is a critical part of the normal innate immune response to pathogens^{10,13-15}



C5 drives a wide range of unpredictable complications in PNH¹⁸

Comorbidities and consequences of C5-mediated IVH include^{7,9,10,18-21}:





ULTOMIRIS targets C5 in the terminal complement¹

Built to block uncontrolled complement activity. Designed to preserve proximal complement-mediated immunity.^{1-5,14}

ULTOMIRIS is the standard of care for PNH.^a designed for extended C5 inhibition and elimination^{1,22,23}

Pharmacology based on preclinical studies of ULTOMIRIS²²



C5 elimination^{22,b}

Modifications to the Fab regions of ULTOMIRIS cause bound C5 to be released into the lysosome, where

ULTOMIRIS is designed to provide sustained C5 inhibition and elimination without impacting the essential role of proximal complement in innate immune system activity^{1,15,22}

^aBased on US market share.

eTargeted engineering to incorporate 4 amino acid substitutions designed to reduce target-mediated drug disposition and enhance FcRn-mediated recycling of eculizumab led to the generation of ULTOMIRIS, which exhibited an extended duration of action in preclinical models relative to eculizumab. The mean (SD) terminal elimination half-life and clearance of intravenous ULTOMIRIS in patients with PNH are 49.6 (9.08) days and 0.08 (0.02) L/day, respectively. Half-life of eculizumab is 11.25 to 17.25 days.^{1,23} ^dStarting 2 weeks after the intravenous loading dose, maintenance doses are infused intravenously every 8 weeks for adult patients and every 4 or 8 weeks for pediatric patients (depending on body weight). C5=complement protein 5; Fab=fragment antigen-binding; Fc=fragment crystallizable.

SELECT IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

Serious Meningococcal Infections

Life-threatening meningococcal infections have occurred in patients treated with ULTOMIRIS. The use of ULTOMIRIS increases a patient's susceptibility to serious meningococcal infections (septicemia and/or meningitis). Meningococcal disease due to any serogroup may occur.

Vaccinate or revaccinate for meningococcal disease according to the most current ACIP recommendations for patients with complement deficiencies. Immunize patients without history of meningococcal vaccination at least 2 weeks prior to the first dose of ULTOMIRIS. Patients who initiate ULTOMIRIS treatment less than

2 weeks after receiving meningococcal vaccine(s) must receive appropriate prophylactic antibiotics until 2 weeks after vaccination.

In clinical studies, 59 adult patients with PNH were treated with ULTOMIRIS less than 2 weeks after meningococcal vaccination. All of these patients received antibiotics for prophylaxis of meningococcal infection until at least 2 weeks after meningococcal vaccination.

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ULTOMIRIS provided immediate, complete, and sustained C5 inhibition^{1,2,4}

Mean free C5 levels over time in ULTOMIRIS- or eculizumab-treated adult patients with PNH who were complement inhibitor naïve^{4,a-c}



^aThe horizontal line in the middle of each box indicates the median, and a diamond indicates the mean. The top and bottom borders of the box represent the 75th and 25th percentiles, respectively, and the whiskers represent the 1.5 interquartile range of the lower and upper portions of the quartile. Asterisks represent values outside the interquartile range. Dashed horizontal lines indicate serum free C5 concentration of 0.5 µg/mL.

Free C5 levels below 0.5 µg/mL were correlated with maximal intravascular hemolysis control and complete terminal complement inhibition in clinical studies¹

^tThe complement inhibitor-naïve study (ALXN1210-PNH-301; NCT02946463) was a 26-week, multicenter, open-label, randomized, active-controlled, noninferiority, phase 3 study with an extension period. Adult patients (N=246) naïve to complement inhibitor treatment prior to study entry were randomized 1:1 to receive ULTOMIRIS or eculizumab. At the end of the randomized period, patients (N=243) entered the extension period, during which all received ULTOMIRIS.

^cA Gyros-based fluorescence assay was used for patients who received ULTOMIRIS, and an electrochemiluminescence immunoassay was used for patients who received eculizumab. Baseline was defined as the last non-missing value before the first dose of study drug.

BL=baseline: C5=complement protein 5.

SELECT IMPORTANT SAFETY INFORMATION

Serious Meningococcal Infections (continued)

The benefits and risks of antibiotic prophylaxis for prevention of meningococcal infections in patients receiving ULTOMIRIS have not been established. In clinical studies with ULTOMIRIS, <1% of patients developed serious meningococcal infections/sepsis while receiving treatment with ULTOMIRIS. All were adult patients with PNH who had been vaccinated. These patients recovered while continuing treatment with ULTOMIRIS. Consider discontinuation of ULTOMIRIS in patients who are undergoing treatment for serious meningococcal infection.

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ULTOMIRIS efficacy was evaluated in the largest clinical trial of adult patients with PNH to date^{2,4}

This pivotal, phase 3, open-label, randomized, active-controlled, multicenter, noninferiority study included a broad, clinically diverse patient population of adults (≥18 years of age) with PNH who were complement inhibitor naïve (Study 301)^{1,2,6,a,b}



| Baseline characteristics ^{1,2} | ULTOMIRIS (n=125) | Eculizumab (n=121) |
|---|------------------------|------------------------|
| Pretreatment LDH levels, median U/L (min, max) | 1513.5 (378.0, 3759.5) | 1445.0 (423.5, 3139.5) |
| Transfusion units in preceding 12 months, median (min, max) | 6.0 (1, 44) | 6.0 (1, 32) |
| Antithrombotic agent use in preceding 28 days, n (%) | 22 (17.6) | 22 (18.2) |
| Concomitant anticoagulant treatment, n (%) | 23 (18.4) | 28 (23.1) |
| History of MAVEs, n (%) | 17 (13.6) | 25 (20.7) |
| History of thrombosis, n (%) | 17 (13.6) | 20 (16.5) |

Coprimary endpoints^{1,2}

- Transfusion avoidance[®]
- LDH normalization

Secondary endpoints²

- Percent change from baseline in LDH levels
- Change in fatigue (FACIT-Fatigue)^h
- Proportion of patients with breakthrough hemolysis
- MAVEsⁱ
- Proportion of patients with stabilized hemoglobin^k
- Disease characteristics were similar between study arms²
- Median pretreatment LDH levels were approximately 6x the upper limit of normal (246 U/L)^{1,2}
- Patients received a median of 6 units of transfused packed RBCs or whole blood in the 12 months immediately preceding the study¹

Over one-third of patients had a history of bone marrow failure disorders, including aplastic anemia (32%) and myelodysplastic syndrome (5%)¹

^aPopulation included male and female patients ≥18 years of age in 25 countries with diagnosis of PNH confirmed by red and white blood cell (granulocyte or monocyte) clone sizes of $\geq 5\%$ by high-sensitivity flow cytometry.

^b98% of patients had a documented PNH-associated condition diagnosed prior to enrollment in the trial: anemia (85%), hemoglobinuria (63%), history of aplastic anemia (32%), history of renal failure (12%), myelodysplastic syndrome (5%), pregnancy complications (3%), and other (16%). CULTOMIRIS weight-based loading dosing: \geq 40 to <60 kg=2400 mg; \geq 60 to <100 kg=2700 mg; \geq 100 kg=3000 mg.

^dULTOMIRIS weight-based maintenance dosing: ≥40 to <60 kg=3000 mg; ≥60 to <100 kg=3300 mg; ≥100 kg=3600 mg.

^eEculizumab induction dose=600 mg.

^fEculizumab maintenance dose=900 mg.

^gTransfusion avoidance was considered as achieved only by the patients who did not receive a transfusion and did not meet the protocol-specified guidelines for transfusion from baseline to Day 183.

SELECT IMPORTANT SAFETY INFORMATION

ULTOMIRIS REMS

Due to the risk of meningococcal infections, ULTOMIRIS is available only through a restricted program under a REMS called ULTOMIRIS REMS

^hFACIT-Fatigue scores can range from 0 to 52, with higher scores indicating less fatigue.

Breakthrough hemolysis was defined as at least 1 new or worsening symptom or sign of intravascular hemolysis in the presence of elevated LDH $\geq 2 \times ULN$, after prior LDH reduction to $< 1.5 \times ULN$ on therapy.

¹MAVEs included both thromboembolisms (thrombophlebitis/deep vein thrombosis, renal vein thrombosis, renal arterial thrombosis, mesenteric/ visceral vein thrombosis, mesenteric/visceral arterial thrombosis, hepatic/portal vein thrombosis, dermal thrombosis, acute peripheral vascular disease occlusion, cerebral arterial occlusion/cerebrovascular accident, cerebral venous occlusion, and pulmonary embolus) and nonthromboembolisms (amputation [nontraumatic, nondiabetic], myocardial infarction, transient ischemic attack, unstable angina, gangrene [nontraumatic, nondiabetic], and specified if other).

^kStabilized hemoglobin was defined as avoidance of a ≥2 g/dL decrease in hemoglobin level from baseline in the absence of transfusion. FACIT=Functional Assessment of Chronic Illness Therapy; LDH=lactate dehydrogenase; MAVE=major adverse vascular event; Q8W=every 8 weeks: RBC=red blood cell: U/L=units per liter: ULN=upper limit of normal.

Under the ULTOMIRIS REMS, prescribers must enroll in the program. Prescribers must counsel patients about the risk of meningococcal infection/sepsis, provide the patients with the REMS educational materials, and ensure patients are vaccinated with meningococcal vaccines.

Additional information on the REMS requirements is available at www.ultomirisrems.com or 1-888-765-4747.

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and life-threatening meningococcal infections/sepsis

ULTOMIRIS every 8 weeks^a demonstrated robust and sustained efficacy across all endpoints vs eculizumab in noninferiority studies^{1,2}



Efficacy across primary and select secondary endpoints through 52 weeks of treatment^{1,2,4}



- ULTOMIRIS was noninferior to eculizumab across all endpoints during the randomized treatment period (Week 0 to Week 26), including LDH normalization, transfusion avoidance, and hemoglobin stabilization^{1,2}
- Among patients taking ULTOMIRIS in the randomized period, the prevalence of breakthrough hemolysis was 4.0%, and the prevalence of MAVEs was 1.6%^{1,2,4}
- Efficacy in these measures was maintained through Week 52 of the extension period, during which all patients received ULTOMIRIS⁴
- At 2 years post baseline, 48.2% (108/224) of patients achieved LDH normalization²⁴
- During months 12 through 18 of the extension period, transfusion avoidance was maintained in 73.3% (178/243) of patients and breakthrough hemolysis events were observed in 2.1% (5/243) of patients²⁴

^aStarting 2 weeks after the intravenous loading dose, maintenance doses are infused intravenously every 8 weeks for adult patients and every 4 or 8 weeks for pediatric patients (depending on body weight).

- ^bFull analysis set (all patients who received ≥ 1 dose of study drug and had ≥ 1 efficacy assessment after the first infusion).
- ^cExtension set (all patients who entered the extension period).
- ^dFor the LDH normalization endpoint during the randomized treatment period, the adjusted prevalence within each treatment is displayed.
- Treatment differences (95% Cls) are based on estimated differences in percent with 95% Cl.
- Breakthrough hemolysis was defined as at least 1 new or worsening symptom or sign of intravascular hemolysis in the presence of elevated LDH ≥2 x ULN, after prior LDH reduction to <1.5 x ULN on therapy.
- [@]MAVEs included both thromboembolisms (thrombophlebitis/deep vein thrombosis, renal arterial thrombosis, mesenteric/visceral vein thrombosis, mesenteric/visc disease occlusion, cerebral arterial occlusion/cerebrovascular accident, cerebral venous occlusion, and pulmonary embolus) and nonthromboembolisms (amputation [nontraumatic, nondiabetic], myocardial infarction, transient ischemic attack, unstable angina, gangrene [nontraumatic, nondiabetic], and specified if other).
- LDH=lactate dehydrogenase; MAVE=major adverse vascular event; ULN=upper limit of normal

SELECT IMPORTANT SAFETY INFORMATION

Other Infections

Patients may have increased susceptibility to infections, especially with encapsulated bacteria, such as infections caused by Neisseria meningitidis but also Streptococcus pneumoniae, Haemophilus influenzae, and to a lesser extent, Neisseria gonorrhoeae. Children treated with ULTOMIRIS may be at increased risk of

developing serious infections due to Streptococcus pneumoniae and Haemophilus influenzae type b (Hib). Administer vaccinations for the prevention of Streptococcus pneumoniae and Haemophilus influenzae type b (Hib) infections according to ACIP guidelines. If ULTOMIRIS is administered to patients with active systemic infections, monitor closely for worsening infection.

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ULTOMIRIS provided rapid and sustained control of LDH,^a resulting in low rates of breakthrough hemolysis and MAVEs^{4,24}



^aIn patients receiving ULTOMIRIS, LDH levels rapidly fell below 1.5 x ULN by Week 2, normalized by Week 4, and were maintained below 1.5 x ULN through Week 52.

^bError bars represent 95% CI.

^cNumber of patients may be lower than number enrolled at time point because of exclusion of samples having serum potassium \geq 6 mmol/L and LDH \geq 2 x ULN, missing samples (because of site error or for any other reason), or patient discontinuations during the extension. ^dLDH levels were not measured for patients in the ULTOMIRIS to ULTOMIRIS group on Days 197 and 225.

^eBreakthrough hemolysis was defined as at least 1 new or worsening symptom or sign of intravascular hemolysis in the presence of elevated LDH $\ge 2 \times ULN$, after prior LDH reduction to <1.5 x ULN on therapy.

LDH is an established biomarker of intravascular hemolysis and PNH disease activity, with LDH levels ≥1.5 x ULN being associated with increased disease activity^{7,8,25}

ULTOMIRIS treatment caused mean LDH levels to^{1,2,4,24}:

- Rapidly fall below this 1.5 x ULN threshold by Week 2
- Normalize by Week 4
- **Be maintained** below 1.5 x ULN through 2 years



Through 2 years of ULTOMIRIS treatment¹¹

In a post hoc analysis, incidence of MAVEs and thromboembolism was reduced compared to the 2 years preceding complement inhibitor treatment^f

'Based on post hoc analysis comparing the proportion of patients (N=244) experiencing a MAVE or thromboembolism in the 2 years prior to enrollment in the pivotal complement inhibitor-naïve study (Study 301) to the proportion after receiving ULTOMIRIS during 2 years of the study. Thromboembolisms included thrombophlebitis/deep vein thrombosis, renal vein thrombosis, renal arterial thrombosis, mesenteric/ visceral vein thrombosis, mesenteric/visceral arterial thrombosis, hepatic/portal vein thrombosis, dermal thrombosis, acute peripheral vascular disease occlusion, cerebral arterial occlusion/cerebrovascular accident, cerebral venous occlusion, and pulmonary embolus. MAVEs included both thromboembolisms and nonthromboembolisms (amputation [nontraumatic, nondiabetic], myocardial infarction, transient ischemic attack, unstable angina, gangrene [nontraumatic, nondiabetic], and specified if other). MAVEs reported during the 2 years of treatment with ULTOMIRIS were all thromboembolisms.

BL=baseline; LDH=lactate dehydrogenase; MAVE=major adverse vascular event; U/L=units per liter; ULN=upper limit of normal.

Monitoring Disease Manifestations after ULTOMIRIS Discontinuation After discontinuing treatment with ULTOMIRIS, closely monitor for signs and symptoms of hemolysis, identified by elevated LDH along with sudden decrease in PNH clone size or hemoglobin, or re-appearance of symptoms such as fatigue, hemoglobinuria, abdominal pain, shortness of breath (dyspnea), major adverse vascular event (including thrombosis), dysphagia, or erectile dysfunction. Monitor any patient who discontinue

symptoms such as fatigue, hemoglobinuria, abdominal pain, shortness of breath (dyspnea), major adverse vascular event (including thrombosis), dysphagia, or erectile dysfunction. Monitor any patient who discontinues ULTOMIRIS for at least 16 weeks to detect hemolysis and other reactions. If signs and symptoms of hemolysis occur after discontinuation, including elevated LDH, consider restarting treatment with ULTOMIRIS.

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and life-threatening meningococcal infections/sepsis

SELECT IMPORTANT SAFETY INFORMATION

ULTOMIRIS improved and maintained FACIT-Fatigue scores^{2,4,6}



Mean FACIT-Fatigue score in complement inhibitor-naïve adult patients^{6,a}



The mean FACIT-Fatigue score was 43.5 (SD: 8.10)²⁴

^aThere was no observable difference in fatigue between ULTOMIRIS and eculizumab after 26 weeks of treatment compared to baseline as measured by the FACIT-Fatigue instrument. Patient-reported fatigue may be an underestimation or overestimation because patients were not blinded to treatment assignment.

^bMean FACIT-Fatigue score for the general population was determined through assessment of 2,426 adults (n=1,074 males; n=1,352 females; mean age [SD]: 49.8 [17.4] years) in Germany between March 2015 and May 2015. BL=baseline; FACIT=Functional Assessment of Chronic Illness Therapy.

SELECT IMPORTANT SAFETY INFORMATION

Thromboembolic Event Management

The effect of withdrawal of anticoagulant therapy during treatment with ULTOMIRIS has not been established. Treatment should not alter anticoagulant management.

Infusion-Related Reactions

Intravenous or subcutaneous administration of ULTOMIRIS may result in systemic infusion-related reactions, including anaphylaxis and hypersensitivity reactions. In clinical trials, infusion-related reactions occurred in approximately 1% of patients treated with ULTOMIRIS. These events included lower back pain, drop in blood pressure, elevation in blood pressure, limb discomfort, drug hypersensitivity (allergic reaction), dysgeusia (bad taste), and drowsiness. These reactions did not require discontinuation of ULTOMIRIS. If signs of cardiovascular instability or respiratory compromise occur, interrupt ULTOMIRIS infusion and institute appropriate supportive measures.

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The safety of ULTOMIRIS was assessed in the largest phase 3 **PNH clinical trial program to date**^{1,2,4,a,b}

Adverse reactions reported in 5% or more of adult patients treated with ULTOMIRIS during the 26-week randomized period¹

| Deducustan | Number | Number of patients | | |
|--|-----------------------------|----------------------------|--|--|
| Body system Adverse reaction | Eculizumab (n=219) n (%) | ULTOMIRIS (n=222) n (%) | | |
| Gastrointestinal disorders | | | | |
| Diarrhea | 12 (5) | 19 (9) | | |
| Nausea | 19 (9) | 19 (9) | | |
| Abdominal pain | 16 (7) | 13 (6) | | |
| General disorders and administration site conditions | | | | |
| Pyrexia | 18 (8) | 15 (7) | | |
| Infections and infestations | | | | |
| Upper respiratory tract infection ^c | 86 (39) | 86 (39) | | |
| Musculoskeletal and connective tissue disorders | | | | |
| Pain in extremity | 11 (5) | 14 (6) | | |
| Arthralgia | 12 (5) | 11 (5) | | |
| Nervous system disorders | | | | |
| Headache | 57 (26) | 71 (32) | | |
| Dizziness | 14 (6) | 12 (5) | | |

^aThe complement inhibitor–naïve study (ALXN1210-PNH-301; NCT02946463) was a 26-week, multicenter, open-label, randomized, active-controlled, noninferiority, phase 3 study with an extension period. Adult patients (N=246) naïve to complement inhibitor treatment prior to study entry were randomized 1:1 to receive ULTOMIRIS or eculizumab. At the end of the randomized period, patients (N=243) entered the extension period, during which all received ULTOMIRIS.

¹The ULTOMIRIS switch study (ALXN1210-PNH-302; NCT03056040) was a 26-week, multicenter, open-label, randomized, active-controlled, noninferiority, phase 3 study with an extension period. Adult patients (N=195) who were clinically stable after having been treated with eculizumab for at least the past 6 months were randomized 1:1 to either continue eculizumab or to switch to ULTOMIRIS. At the end of the randomized period, patients (N=191) entered the extension period during which all received ULTOMIRIS.

Includes the preferred terms nasopharyngitis, upper respiratory tract infection, oropharyngeal pain, viral upper respiratory tract infection, rhinitis, rhinitis, rhinitis, rh

In the 26-week randomized period of the adult PNH clinical studies¹⁻³:

- The most frequent adverse reactions (≥10%) with ULTOMIRIS were upper respiratory tract infection and headache
- Serious adverse reactions were reported in 15 (6.8%) patients receiving ULTOMIRIS. The serious adverse reactions in patients treated with ULTOMIRIS included hyperthermia and pyrexia. No serious adverse reaction was reported in more than 1 patient treated with ULTOMIRIS
- One fatal case of sepsis was identified in a patient treated with ULTOMIRIS
- One patient receiving ULTOMIRIS discontinued treatment

No new safety signals were reported through 2 years of ULTOMIRIS treatment²⁴

Intravenous ULTOMIRIS safety outcomes reported from Week 27 to 2 years of treatment in the safety population (N=434)²⁴

| Type of adverse event Adverse reaction | Number (%) of patients |
|---|-----------------------------|
| Any TEAE ^a | 391 (90.1) |
| TEAE considered as a MAVE | 6 (1.4) ^b |
| Most common TEAEs (occurring in ≥10% of patients) | |
| Upper respiratory tract infection | 80 (18.4) |
| Nasopharyngitis | 70 (16.1) |
| Headache | 56 (12.9) |
| Pyrexia | 44 (10.1) |
| Any SAE | 86 (19.8) |
| SAE leading to study drug discontinuation | 3 (0.7)° |
| Death | 4 (0.9) ^d |

^aTEAEs are AEs with a start date and start time on or after the date and time of the first infusion of ULTOMIRIS.

^bEight MAVEs were recorded; 1 patient had 2 events of pulmonary embolism, 1 patient had 2 events of cerebral infarction. The other MAVEs included thrombophlebitis, deep vein thrombosis, jugular vein thrombosis, and peripheral artery thrombosis. Six events were considered to be unrelated to treatment, and 2 events were unlikely related to treatment. None of these events led to change in dose. The 3 recorded discontinuations were due to acute myeloid leukemia, myelodysplastic syndrome, and lung adenocarcinoma.

^dFour deaths unrelated to ULTOMIRIS were reported and were due to pulmonary sepsis, acute myeloid leukemia, lung adenocarcinoma, and lung neoplasm malignant. The 2 deaths leading to study drug discontinuation were due to acute myeloid leukemia and lung adenocarcinoma.

ULTOMIRIS is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS). Under the ULTOMIRIS REMS, prescribers must enroll in the program. Enrollment in the ULTOMIRIS REMS program and additional information are available by telephone at 1-888-765-4747 or at UltomirisREMS.com.

AE=adverse event; C5=complement protein 5; MAVE=major adverse vascular event; SAE=serious adverse event; TEAE=treatment-emergent adverse event

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inhibitors have an established safety profile in the more than 30,000 patients

who have been treated with ULTOMIRIS and eculizumab to date⁶



Patients prefer the less frequent doses of ULTOMIRIS over the more frequent doses of eculizumab²⁷

93% (88/95) of patients who switched from eculizumab in a clinical study preferred ULTOMIRIS^{27,a}







Recommended vaccinations

- Vaccinate patients for meningococcal disease according to current ACIP guidelines to reduce the risk of serious infection
- Provide 2 weeks of antibacterial drug prophylaxis to patients if ULTOMIRIS must be initiated immediately and vaccines are administered less than 2 weeks before starting ULTOMIRIS therapy



ULTOMIRIS requires as few as 6 or 7 infusions per year^{1,b}

In substudy ALXN1210-PNH-302s, 95 patients enrolled in the extension period of the ULTOMIRIS switch study (ALXN1210-PNH-302; NCT03056040) completed the Paroxysmal Nocturnal Hemoglobinuria Patient Preference Questionnaire (PNH-PPQ®) to report on their overall treatment preference and the treatment characteristics that were most important to that preference.

^bStarting 2 weeks after the intravenous loading dose, maintenance doses are infused intravenously every 8 weeks for adult patients and every 4 or 8 weeks for pediatric patients (depending on body weight).

SELECT IMPORTANT SAFETY INFORMATION

Injection Site Reactions-Subcutaneous administration

27% (23/84) of patients treated with subcutaneous administration of ULTOMIRIS experienced injection site reactions which included application site rash, device allergy, infusion site pain, infusion site reaction, injection site bruising, injection site erythema, injection site hematoma, injection site induration, injection site inflammation, injection site pain, injection site pruritus, injection site rash, injection site reaction, injection site swelling, injection site urticaria, medical device site bruise, medical device site erythema, medical device site hematoma, medical device site induration, medical device site pruritus, medical device site rash, and medical device site reaction.

Allergies to Acrylic Adhesives

The on-body injector of ULTOMIRIS uses acrylic adhesive. For patients with a known allergy to acrylic





ULTOMIRIS is infused intravenously every 4 or 8 weeks,^b giving patients freedom and flexibility between treatments^{1,27}

The mean (SD) weights for patients in Study 301 (N=246) and Study 302 (N=195) were 68.7 kg (15.2) and 72.9 kg (15.7), respectively. For patients weighing 60 kg to <100 kg, minimum loading dose infusion time is 0.6 hours and minimum maintenance dose infusion time is 0.7 hours. ACIP=Advisory Committee on Immunization Practices.

adhesive, use of this product may result in an allergic reaction. Premedication can be considered, and supportive measures should be instituted if signs of allergy appear.

ADVERSE REACTIONS

Adverse reactions reported in 5% or more of patients treated with ULTOMIRIS vs. Eculizumab was Upper respiratory tract infection (39% vs. 39%), Headache (32% vs. 26%), Diarrhea (9% vs. 5%), Nausea (9% vs. 9%), Pyrexia (7% vs. 8%), Pain in extremity (6% vs. 5%), Abdominal pain (6% vs. 7%), Dizziness (5% vs. 6%), Arthralgia (5% vs. 5%). Serious adverse reactions were reported in 15 (6.8%) patients receiving ULTOMIRIS. The serious adverse reactions in patients treated with ULTOMIRIS included hyperthermia and pyrexia. No serious adverse reaction was reported in more than 1 patient treated with ULTOMIRIS. One fatal case of sepsis was identified in a patient treated with ULTOMIRIS. In clinical studies, clinically relevant adverse reactions in 1% of adult patients include infusion-related reactions.

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Determining the ULTOMIRIS dose and schedule

The recommended weight-based dosing regimen consists of a loading dose followed by maintenance doses.





Starting 2 weeks after the intravenous loading dose, ma intravenously once every 4 or 8 weeks (depending on boo

Weight-based dosing regimen^a

| | Last eculizumab infusion | ULTOMIRIS loading dose | ULTOMIRIS maintenance doses | |
|---|--|---|--|--|
| , | I | At time of next scheduled eculizumab dose | Every 4 or 8 weeks (depending on body weight) | |
| naintenance doses are infused ody weight). | s are infused Loading dose of ULTOMIRIS should be infused intravenous eculizumab dose. Maintenance doses are infused intravenous on body weight), starting 2 weeks after the loading dose. | | | |

Continuation of ULTOMIRIS in appropriate patients with PNH is important to sustain clinical benefits

Patients who discontinue ULTOMIRIS should be monitored for at least 16 weeks to detect hemolysis and other reactions. If signs and symptoms of hemolysis occur after discontinuation, including elevated LDH, consider restarting treatment with ULTOMIRIS

| Body weight range (kg) ^b | Loading dose (mg) | Maintenance dose (mg) and dosing interval | | |
|-------------------------------------|-------------------|---|---------------|--|
| 5 to <10 | 600 | 300 | Every A weeks | |
| 10 to <20 | 600 | 600 | Every 4 weeks | |
| 20 to <30 | 900 | 2,100 | | |
| 30 to <40 | 1,200 | 2,700 | | |
| 40 to <60 | 2,400 | 3,000 | Every 8 weeks | |
| 60 to <100 | 2,700 | 3,300 | | |
| 100 or greater | 3,000 | 3,600 | | |

The dosing schedule is allowed to occasionally vary within 7 days of the scheduled infusion day (except for the first maintenance dose of ULTOMIRIS), but the subsequent doses should be administered according to the original schedule ^bBody weight at time of treatment.

LDH=lactate dehydrogenase.

SELECT IMPORTANT SAFETY INFORMATION

ADVERSE REACTIONS (continued)

Adverse reactions reported in 10% or more of pediatric patients treated with ULTOMIRIS who were treatmentnaïve vs. Eculizumab-experienced was Anemia (20% vs. 25%). Abdominal pain (0% vs. 38%). Constipation (0% vs. 25%), Pyrexia (20% vs. 13%), Upper respiratory tract infection (20% vs. 75%), Pain in extremity (0% vs. 25%), Headache (20% vs. 25%).

Adverse Reactions for Subcutaneous Administration of ULTOMIRIS

Most common adverse reactions (≥10%) with ULTOMIRIS subcutaneous administration via On Body Injector in adult patients with PNH were local injection site reactions, diarrhea, and headache.

DRUG INTERACTIONS

Plasma Exchange, Plasmapheresis, and Intravenous Immunoglobulins

Patients switching from eculizumab to ULTOMIRIS

Concomitant use of ULTOMIRIS with plasma exchange (PE), plasmapheresis (PP), or intravenous immunoglobulin (IVIg) treatment can reduce serum ravulizumab concentrations and requires a supplemental dose of ULTOMIRIS.

Neonatal Fc Receptor Blockers

Concomitant use of ULTOMIRIS with neonatal Fc receptor (FcRn) blockers (e.g., efgartigimod) may lower systemic exposures and reduce effectiveness of ULTOMIRIS. Closely monitor for reduced effectiveness of ULTOMIRIS.

Please see Important Safety Information throughout and accompanying full Prescribing Information (UltomirisHCP.com/PI) for ULTOMIRIS, including Boxed WARNING regarding serious and life-threatening meningococcal infections/sepsis.



OneSource[™] is here to help

Alexion Patient Liaisons and Patient Navigators, with advanced PNH disease education experience and health insurance information, will be assigned to each patient to provide complimentary education and support.



Copay assistance

- The Alexion OneSource CoPay Program provides financial assistance by covering eligible patients' out-of-pocket medication and infusion costs associated with ULTOMIRIS up to \$15,000 US dollars per calendar year
- Valid only for patients with commercial insurance who have a valid prescription for a US FDA–approved indication of ULTOMIRIS. Not valid for patients covered by government insurance programs^c or other federal or state programs (including any state prescription drug assistance programs)
- Additional requirements may apply. Contact Alexion OneSource for more information on patient eligibility

Alexion Patient Liaisons and Patient Navigators assist with:



Education

- Providing your patients with educational resources and materials related to PNH
- Helping to answer your patients' questions about the disease or treatment logistics



Health insurance navigation

- Helping your patients understand ULTOMIRIS health insurance coverage
- Exploring alternative funding options and financial resources



Continuity of care

• Personalized support for your patients in maintaining therapy during their major life events, such as a change in job, insurance status, provider, or relocation



Community connections

- Providing information to patients regarding in-person and online meetings and events
- Connecting patients with other people living with PNH



^aBased on typical commercial patient out-of-pocket deductible limits.

^bAdditional terms and conditions apply. Please contact OneSource with additional questions.

clncludes Medicaid, Medicare (including Medicare Part D), Medicare Advantage Plans, Medigap, Veterans Affairs, Department of Defense, or TRICARE. Patients residing in Massachusetts or Rhode Island are eligible for assistance with medication costs but are not eligible for assistance with infusion costs.

Please see Important Safety Information throughout and accompanying full <u>Prescribing Information</u> (<u>UltomirisHCP.com/Pl</u>) for ULTOMIRIS, including 14 Boxed WARNING regarding serious and life-threatening meningococcal infections/sepsis.

ULTOMIRIS is covered^a for PNH by virtually every health plan nationwide⁶





OneSource™ Patient Navigators and Patient Liaisons help assist with health insurance information.

91.3% of patients with PNH enrolled in OneSource initiate ULTOMIRIS treatment within 30 days of enrollment (n=138)^{6,b}

Average time to ULTOMIRIS treatment initiation was 7.1 days for patients with PNH consented in OneSource (n=81)^{6,b}

^aThe payer policy allows for use of ULTOMIRIS, usually under the medical benefit. ^bIncludes patients with PNH enrolled in OneSource from 12/1/2020 to 5/31/2021.

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Please see Important Safety Information throughout and accompanying full <u>Prescribing Information</u> (<u>UltomirisHCP.com/Pl</u>) for ULTOMIRIS, including Boxed WARNING regarding serious and life-threatening meningococcal infections/sepsis.



For more information, please visit:



AlexionOneSource.com







The standard of care^a for adult patients with PNH is FDA approved for pediatric patients^{1,6}

To reduce the risk of intravascular hemolysis, the driver of thrombosis in PNH^{1-11,b}

BLOCK THE CAUSE

ULTOMIRIS, administered every 8 weeks,^c is the standard of care^a for PNH in adults^{1,6}

- Immediate, complete, and sustained C5 inhibition with ULTOMIRIS^{1,2,4}
- ULTOMIRIS provided rapid and sustained control of LDH^{1,2,4,d}
- >30,000 patients have been treated with ULTOMIRIS and eculizumab to date, establishing the safety profile of C5 inhibitors⁶
- No new safety signals reported through 2 years of treatment²⁴
- In the pivotal clinical trials, the most common adverse reactions (incidence ≥10%) were upper respiratory tract infection and headache¹
- ULTOMIRIS is covered^e for PNH by virtually every health plan nationwide⁶

^aBased on US market share.

^bIntravascular hemolysis, as measured by the biomarker LDH, is associated with a significantly increased risk of thromboembolic events in PNH.

^cStarting 2 weeks after the intravenous loading dose, maintenance doses are infused intravenously every 8 weeks for adult patients and every 4 or 8 weeks for pediatric patients (depending on body weight).

^dIn patients receiving ULTOMIRIS, LDH levels rapidly fell below 1.5 x ULN by Week 2, normalized by Week 4, and were maintained below $1.5 \times$ ULN through Week 52.

"The payer policy allows for use of ULTOMIRIS, usually under the medical benefit. C5=complement protein 5; LDH=lactate dehydrogenase; ULN=upper limit of normal.

SELECT IMPORTANT SAFETY INFORMATION

WARNING: SERIOUS MENINGOCOCCAL INFECTIONS

Life-threatening meningococcal infections/sepsis have occurred in patients treated with ULTOMIRIS. Meningococcal infection may become rapidly life-threatening or fatal if not recognized and treated early.

- Comply with the most current Advisory Committee on Immunization Practices (ACIP) recommendations for meningococcal vaccination in patients with complement deficiencies.
- Immunize patients with meningococcal vaccines at least 2 weeks prior to administering the first dose of ULTOMIRIS, unless the risks of delaying ULTOMIRIS therapy outweigh the risk of developing a meningococcal infection. See *Warnings and Precautions* for additional guidance on the management of the risk of meningococcal infection.
- Vaccination reduces, but does not eliminate, the risk of meningococcal infections. Monitor patients for early signs of meningococcal infections and evaluate immediately if infection is suspected.

Because of the risk of serious meningococcal infections, ULTOMIRIS is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called ULTOMIRIS REMS.





To learn more, visit <u>BlockTheCause.com</u>

Please see Important Safety Information throughout and accompanying full <u>Prescribing Information</u> (<u>UltomirisHCP.com/Pl</u>) for ULTOMIRIS, including Boxed WARNING regarding serious and life-threatening meningococcal infections/sepsis.

