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Summary Table of Study Protocol

Title	Periodic Knowledge, Attitudes, and Behavior (KAB) Survey of Certified Prescribers to Assess Understanding of the Risks with the BKEMV™ Risk Evaluation and Mitigation Strategy (REMS)
Protocol version identifier	20240216 Version 2.0
Date of last version of the protocol	18 October 2024
EU Post Authorization Study (PAS) Register No	
Active Substance	Eculizumab-aeeb
Medicinal Product	BKEMV
Device	N/A
Product Reference	N/A
Procedure Number	N/A
Joint PASS	No

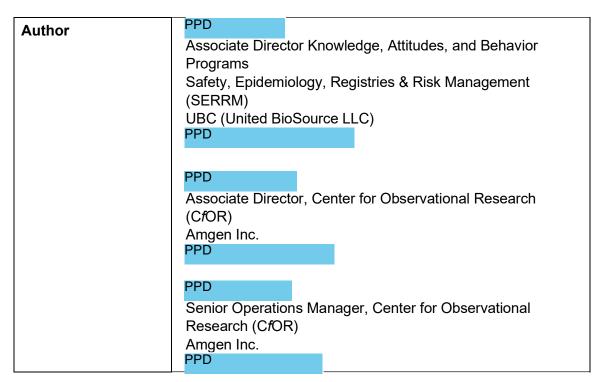
Research Question and Objectives	The objectives of the Healthcare Provider (HCP) KAB Survey are to conduct a survey with BKEMV REMS-certified prescribers. The following key message domains for HCPs have been developed based on the goal of the REMS as reviewed and approved by the FDA (refer to Section 3.2.6 of the BKEMV REMS Supporting Document). For a complete list of the key message questions encompassing the domains, as outlined below, see Section 4.
	HCPs must understand the increased risk of meningococcal infections associated with the use of BKEMV (Key Message Domain 1).
	HCPs must understand the need for vaccination against meningococcal infections caused by <i>Neisseria meningitidis</i> serogroups A, C, W, Y, and B prior to starting therapy according to the current Advisory Committee on Immunization Practices (ACIP) recommendations for patients receiving complement inhibitors and receive antibacterial drug prophylaxis if needed (Key Message Domain 2).
	HCPs are required to counsel their patients using the Patient Safety Card and the Patient Guide on the signs and symptoms of meningococcal infections and to seek immediate medical care if they experience signs or symptoms of meningococcal infections (Key Message Domain 3).
	The survey will begin with screening questions followed by key message questions. Additionally, the survey will collect data about HCP awareness and use of the BKEMV educational materials followed by the collection of demographic

information.

United States

Country(ies) of Study

Product: BKEMV™ (eculizumab-aeeb) Protocol Number: 20240216 V2.0 Date: 18 October 2024



Marketing Authorization Holder

Marketing authorization holder(s)	rization holder(s) Amgen Inc.	
MAH Contact	PPD , Global Safety Medical Director, Safety TA & Combination Products, Amgen Inc.	

This protocol was developed, reviewed, and approved in accordance with Amgen's standard operating procedures.

Protocol Version	Date of Protocol	Page Header Date	
Original, Version 1.0	11 July 2024	11 July 2024	
Amendment, Version 2.0	18 October 2024	18 October 2024	

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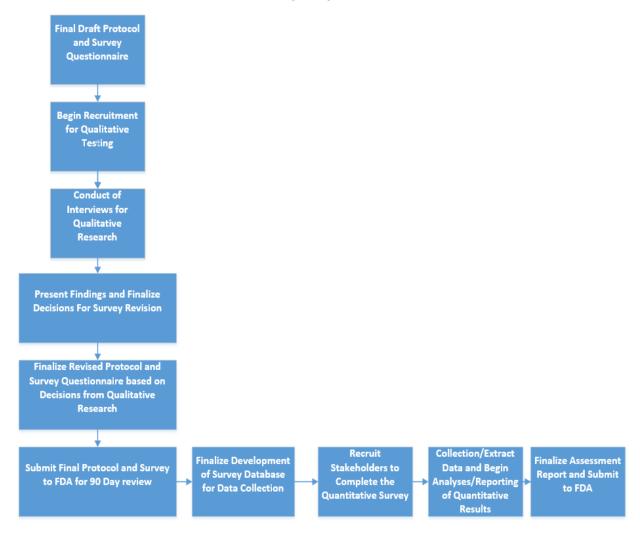
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Study Design Schema

Wave 1 KAB Survey Projected Timeline



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2. List of Abbreviations

Abbreviation	Definition		
ADE	Adverse Device Effect		
AE	Adverse Event		
aHUS	Atypical Hemolytic Uremic Syndrome		
Amgen	Amgen Inc.		
APRN	Advanced Practice Registered Nurse		
САРТСНА	Completely Automated Public Turing Test to Tell Computers and Humans Apart		
CATI	Computer-Assisted Telephone Interviewing		
CFR	Code of Federal Regulations		
CI	Confidence Interval		
CNP	Certified Nurse Practitioner		
CNS	Clinical Nurse Specialist		
DCT	Data Collection Tool		
DO	Doctor of Osteopathy		
FDA	Food and Drug Administration		
FDCA	Food, Drug, and Cosmetic Act		
GCP	Good Clinical Practice		
HCP	Healthcare Provider/Professional		
HIPAA	Health Insurance Portability and Accountability Act		
ICH	International Council for Harmonisation		
IEC	Independent Ethics Committee		
IRB	Institutional Review Board		
KAB	Knowledge, Attitudes, and Behavior		

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Abbreviation	Definition
Appreviation	Definition
MD	Doctor of Medicine
N/A	Not Applicable
NPI	National Provider Identifier
OSF	Other Safety Findings
PI	Prescribing Information
PA	Physician Assistant
PNH	Paroxysmal Nocturnal Hemoglobinuria
QC	Quality Control
RN	Registered Nurse
QR	Qualitative Research
REMS	Risk Evaluation and Mitigation Strategy
SAS	Statistical Analysis System
SCC	Survey Coordinating Center
SERRM	Safety, Epidemiology, Registries & Risk Management
SOP	Standard Operating Procedures
TL	Tables and Listings
UAT	User Acceptance Testing
UBC	United BioSource LLC
URL	Uniform Resource Locator
US	United States
USPI	United States Prescribing Information

3. Responsible Parties

PPD	, JD	Assoc Director REMS Planning & Implementation Lead	3	One Amgen Center Drive, Thousand Oaks, CA 91320
PPD	, BS/BA	Associate Director Knowledge, Attitudes, and Behavior Programs	United BioSource LLC	933 Canyon Road, Morgantown, WV 26508

4. Abstract

Title: BKEMV[™] Periodic Knowledge, Attitudes, and Behavior (KAB) Survey of REMS-Certified Prescribers to Assess Understanding of the Risks with the BKEMV Risk Evaluation and Mitigation Strategies (REMS)

Study Rationale & Background: The BKEMV REMS was approved by the United States (US) Food and Drug Administration (FDA) on 28 May 2024. In accordance with section 505-1 of Federal Food, Drug, and Cosmetic Act (FDCA), the FDA determined that a Risk Evaluation and Mitigation Strategy (REMS) is necessary for BKEMV to mitigate the risk of serious meningococcal infections and to educate healthcare providers/professionals (HCPs) and patients regarding:

- a. the need to ensure that patients are vaccinated against meningococcal infections,
- b. the need to ensure that patients are aware of early signs and symptoms of meningococcal infection and the need for immediate medical evaluation; and,
- c. the need to ensure that prescribers are aware of early signs and symptoms of meningococcal infection and the need for immediate medical evaluation.

The specific objectives to be achieved by the BKEMV REMS include the assessment of HCPs' knowledge of the following key message domains:

- 1. BKEMV, a complement inhibitor, increases a patient's risk of serious, life-threatening, or fatal infections caused by *Neisseria meningitidis* in any serogroup, including non-groupable strains.
- 2. Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors.
- Serious meningococcal infections may become rapidly life-threatening or fatal
 if not recognized and treated early. Closely monitor patients for early signs
 and symptoms of serious meningococcal infections and evaluate patients
 immediately if an infection is suspected.
- 4. Complete or update meningococcal vaccination (for serogroups A, C, W, Y, and B) at least 2 weeks prior to administration of the first dose of BKEMV, according to the current ACIP recommendations for patients receiving a complement inhibitor.
- 5. Vaccination does not eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination.

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6. If BKEMV therapy is needed right away in a patient who is not up to date with meningococcal vaccines according to ACIP recommendations for patients receiving a complement inhibitor, provide the patient with antibacterial drug prophylaxis and administer meningococcal vaccines as soon as possible.

- 7. During treatment with BKEMV, vaccinate patients as needed according to ACIP recommendations for patients receiving a complement inhibitor.
- 8. The initiation of BKEMV treatment is contraindicated in patients with unresolved serious meningococcal infections.
- 9. Counsel patients using the Patient Safety Card and the Patient Guide
- a) Counsel patients on the need to carry the Patient Safety Card at all times during treatment and for 3 months after the last dose of BKEMV.
- b) Counsel patient to show the card to any healthcare provider that provides treatment.
- c) Tell patients to seek immediate medical attention if they develop any of the following signs or symptoms of serious meningococcal infections: fever, fever and a rash, fever with high heart rate, headache with nausea or vomiting, headache and a fever, headache with stiff neck or stiff back, confusion, muscle aches with flu-like symptoms, or sensitivity of eyes to light.

The survey will begin with screening questions followed by key message questions. The survey will also collect data about HCP awareness and use of the BKEMV educational materials followed by the collection of demographic information.

A component of the BKEMV REMS Assessment Plan is the conduct of a quantitative evaluation survey with REMS-certified prescribers, to assess awareness of the REMS materials, knowledge of the risks associated with BKEMV, and knowledge of the requirements of the BKEMV REMS. Throughout this protocol, the quantitative evaluation survey will, hereinafter, be referred to as the "HCP Knowledge Attitudes, and Behavior (KAB) Survey." Findings from the HCP KAB Survey, together with other REMS evaluation metrics, will be used to assess the BKEMV REMS and determine whether changes need to be made to the REMS processes or educational materials to make them more effective in achieving the intended goal. Also hereinafter, a REMS-certified prescriber may be referred to as "HCP."

This protocol provides the procedures to be followed with HCPs who have not been debarred or otherwise sanctioned and are certified in the BKEMV REMS, for inclusion in the BKEMV REMS Assessment Reports to be submitted 12 months after the date BKEMV is commercially available, and annually thereafter. This noninterventional study is part of the BKEMV REMS Assessment and is a commitment to the FDA.

Research Question(s) & Objective(s): The above key message domains identify the most critical information for stakeholders to know about the risk and safe use behaviors to mitigate the risks with BKEMV. The objectives of the HCP KAB Survey are to conduct a survey with REMS-certified prescribers who have not been debarred or sanctioned to assess their awareness and understanding of the risk of serious meningococcal infections associated with the use of BKEMV, the BKEMV REMS requirements, and the REMS goals

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and materials. The key questions have been grouped into the following key message domains:

- Key Message Domain 1: HCPs must understand the increased risk of meningococcal infections associated with the use of BKEMV.
 - BKEMV, a complement inhibitor, increases a patient's risk of serious, lifethreatening, or fatal infections caused by *Neisseria meningitidis* in any serogroup, including non-groupable strains.
 - Serious meningococcal infections may become rapidly life-threatening or fatal if not recognized and treated early.
 - The initiation of BKEMV treatment is contraindicated in patients with unresolved serious meningococcal infections.
- Key Message Domain 2: HCPs must understand the need for vaccination against meningococcal infections serogroups A, C, W, Y, and B prior to starting therapy according to the current Advisory Committee on Immunization Practices (ACIP) recommendations and antibiotic prophylaxis, if required.
 - Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors.
 - Complete or update meningococcal vaccination (for serogroups A, C, W, Y, and B) at least 2 weeks prior to administration of the first dose of BKEMV, according to the current ACIP recommendations for patients receiving a complement inhibitor.
 - Closely monitor patients for early signs and symptoms of serious meningococcal infections and evaluate patients immediately if an infection is suspected.
 - Vaccination does not eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination.
 - If BKEMV therapy is needed right away in a patient who is not up to date with meningococcal vaccines according to ACIP recommendations for patients receiving a complement inhibitor, provide the patient with antibacterial drug prophylaxis and administer meningococcal vaccines as soon as possible.
 - During treatment with BKEMV, vaccinate patients as needed according to ACIP recommendations for patients receiving a complement inhibitor.
- Key message domain 3: HCPs are required to counsel their patients using the Patient Safety Card and the Patient Guide.
 - Counsel patients on the need to carry the Patient Safety Card at all times during treatment and for 3 months after the last dose of BKEMV.
 - Counsel patient to show the card to any healthcare provider that provides treatment.

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• Tell patients to seek immediate medical attention if they develop any of the following signs or symptoms of serious meningococcal infections: fever, fever and a rash, fever with high heart rate, headache with nausea or vomiting, headache and a fever, headache with stiff neck or stiff back, confusion, muscle aches with flu-like symptoms, or sensitivity of eyes to light.

The survey questions associated with each key message domain have been developed as described above.

Study Design: A select number of questions were pre-tested through qualitative research (QR) and finalized prior to implementation of the Wave 1 of the HCP KAB Survey. This is a US-based, observational, cross-sectional survey of REMS-certified prescribers who have not been debarred or otherwise sanctioned. The survey can be self-administered by respondents via secure internet and telephone modalities utilizing a validated United BioSource LLC (UBC) Pathways[®] Knowledge Survey System for data collection that is secure for receiving and storing survey data.

In an effort to ensure maximum participation in the survey, all REMS-certified prescribers identified at a designated interval, prior to survey launch, will receive a Pre-Notification Letter explaining the purpose and details of the upcoming survey. After the Pre-Notification Letter has been sent, upon launch of the survey, the targeted population will be sent an Invitation Letter. Throughout the survey wave, reminder letters will be distributed to non-responders. Outbound calling may also be engaged based on survey uptake and availability of telephone numbers.

Population: HCPs must meet all the following inclusion criteria to be eligible for inclusion in the study:

- Be certified in the BKEMV REMS.
- Have not been debarred or otherwise sanctioned.
- Those who have participated in Qualitative Research (QR) will be permitted to participate.¹

REMS-certified prescribers meeting any of the following exclusion criteria will not be included in the study:

- Respondents who do not agree to participate in the survey.
- Respondents who are currently working for and/or whose immediate family members are currently working for or consultants to Amgen, UBC, or the FDA.
- Respondents who report having a conflict of interest.
- Respondents who have previously participated may be eligible to participate in future surveys. This eligibility criteria will be dependent upon the number of

 Because of the timing in which the qualitative evaluation took place compared to when the quantitative survey is to be conducted (Table 1), and because the population targeted for the qualitative research were not HCPs certified in the BKEMV REMS, allowing those who participated in QR to also participate in the quantitative survey creates no inherent risk in influencing the outcome of whether or not the BKEMV REMScertified prescribers are aware of the REMS objectives.

Internal Use Only General and Administrative

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REMS-certified prescribers available via the REMS database, prior to launch of subsequent survey waves.

Variables: The HCP KAB Survey will document each participant's knowledge and assess the attitudes and behaviors of the important information as presented in the key message domains communicated through the BKEMV REMS. A select number of questions were pretested via QR and submitted for FDA review on or before 28 November 2024.

The HCP KAB Survey will also collect demographic characteristics for HCPs who complete all survey questions.

These include:

- Medical degree of respondent
- Doctor of Medicine (MD), Doctor of Osteopathy (DO), Advanced Practice Registered Nurse (APRN) (including Certified Nurse Practitioner (CNP), Clinical Nurse Specialist (CNS), Certified Registered Nurse Anesthetist (CRNA), and Certified Nurse-Midwife (CNM)), and Physician Assistant (PA)
- Experience with the BKEMV REMS
- Medical Specialty
- Number of years practicing as an HCP
- Length of time prescribing BKEMV
- Number of patients being treated with BKEMV
- Awareness of the REMS educational materials (i.e., Healthcare Provider Safety Brochure, Prescriber Enrollment Form, Patient Guide, Patient Safety Card)
- Past Completer versus Current Completer if it is decided that prior survey completers are permitted to participate this analysis will be introduced. This decision will occur prior to Wave 2 and subsequent waves thereafter.
- Geographic location
- Survey completion status

Data Sources: The survey will be administered via a secure web-based internet connection, which will allow respondents who choose to participate to do so at a time and location that is convenient for them.

The structured survey comprises key message questions or statements written in several formats, which include specific key message domains:

 Questions or statements with a defined list of possible answers from which the respondent is required to choose one answer (i.e., multiple-choice). Date: 18 October 2024 Page 16 of 105

 Questions or statements with a defined list of possible answers from which the respondent is required to choose one or more answers (e.g., "Select all that apply").

 Questions or statements with response options of "yes" or "true," "no" or "false," and "I don't know" that require the respondent to indicate agreement or disagreement.

All answers for questions permitting multiple responses will be tallied to provide a broad picture of respondent's knowledge, attitudes, and behavior.

The desired response for key message questions is generally "true" or "yes" indicating knowledge of the objectives of the BKEMV REMS. However, some questions are formatted to have the respondent disagree with the statement as written ("false" or "no") to avoid having the same affirmative answer for all desired responses. Whenever possible within a key message domain, there will be an equal balance of questions with a "true" or "yes" and "false" or "no."

The recruitment list for survey participation will be derived from the BKEMV REMS database. This list will include HCPs who are REMS-certified and who have not been debarred or sanctioned. The HCP characteristics that are captured in this dataset to be used for survey execution includes the HCPs first name, last name, medical degree, medical specialty, National Provider Identifier (NPI) number, state license number, state of practice, facility name, and mailing address. Any additional contact information (i.e., e-mail address/telephone number/fax number) may be retrieved from an external source prior to survey launch.

Study Size: The survey will target the completion of at least 83 completed surveys in Wave 1.

Data Analysis: Statistical analyses will be primarily descriptive in nature. Survey administration data will be summarized using descriptive statistics.

In the primary analysis, descriptive analyses will be performed for each key message question. For each question/item, the number of individuals who selected each response will be reported. Additionally, the percentage and 95% confidence interval (CI) will be calculated for the correct response.

Milestones: The date of commercialization of BKEMV is not targeted to begin until March 2025. Data collection for Wave 1 is planned to begin on or about July 2025. The Wave 1 HCP KAB assessment report will be submitted to the FDA by May 2026. The annual Assessment Reports will continue each year with data collection ending on 28 March and the final assessment report submitted by 28 May until notified otherwise by the FDA.

Milestones

Milestones	Planned Date ¹
Final Study Protocol and Survey	18 November 2024

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Start of Data Collection	~July 2025
Wave 1 Assessment Report due to FDA	28 May 2026
Wave 2 Assessment Report due to FDA	28 May 2027
Wave 3 Assessment Report due to FDA	28 May 2028
End of Data Collection	TBD ²
Final Assessment Report	TBD ²

FDA = Food and Drug Administration

1. Dates are subject to change based on receipt of FDA feedback.

2. The Assessment Reports will continue until notified otherwise by the FDA.

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Objectives Endpoints Primary To describe HCP knowledge of: The number of respondents who score 80% or greater in each key HCPs must understand the increased message domain risk of meningococcal infections associated with the use of BKEMV (Key Message Domain 1). HCPs must understand the need for vaccination against meningococcal infections caused by Neisseria meningitidis serogroups A, C, W, Y, and B prior to starting therapy according to the current Advisory Committee on Immunization Practices (ACIP) recommendations for patients receiving complement inhibitors and receive antibacterial drug prophylaxis if needed (Key Message Domain 2). HCPs are required to counsel their patients using the Patient Safety Card and the Patient Guide on the signs and symptoms of meningococcal infections and to seek immediate medical care if they experience signs or symptoms of meningococcal infections (Key Message Domain 3). See Appendix F for all question/options/answers to questions associated with each key message domain. Secondary N/A **Exploratory** N/A

N/A = not applicable

Study Design/Type

This is a US-based, observational, cross-sectional survey of HCPs who are certified in the BKEMV REMS and who have not been debarred or otherwise sanctioned. The survey can be self-administered by the respondents via secure internet and telephone modalities utilizing a validated UBC Pathways[®] Knowledge Survey System for data collection that is secure for receiving and storing survey data.

Study Population or Data Resource

All HCPs who are certified in the BKEMV REMS will be eligible for participation.

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Summary of Respondent Eligibility Criteria

HCPs must meet all the following inclusion criteria to be eligible for inclusion in the study:

- Certified in the BKEMV REMS
- Have not been debarred or otherwise sanctioned.
- Because QR was completed with the general population Section 8),
 QR participants will be permitted to participate.

HCPs meeting any of the following criteria will not be included in the study:

- Respondents who do not agree to participate in the study.
- Respondents who are currently working for and/or whose immediate family members are currently working for or consultants to Amgen, UBC, or the FDA.
- Respondents who reported having a conflict of interest.
- Follow-up

N/A

Variables

The key message concepts, which will be evaluated in this KAB survey, include the following:

- BKEMV, a complement inhibitor, increases a patient's risk of serious, lifethreatening, or fatal infections caused by Neisseria *meningitidis* in any serogroup, including non-groupable strains.
- Serious meningococcal infections may become rapidly life-threatening or fatal if not recognized and treated early.
- The initiation of BKEMV treatment is contraindicated in patients with unresolved serious meningococcal infections.
- Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors.
- Complete or update meningococcal vaccination (for serogroups A, C, W, Y, and B) at least 2 weeks prior to administration of the first dose of BKEMV, according to the current ACIP recommendations for patients receiving a complement inhibitor.
- Closely monitor patients for early signs and symptoms of serious meningococcal infections and evaluate patients immediately if an infection is suspected.
- Vaccination does not eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination.
- If BKEMV therapy is needed right away in a patient who is not up to date with meningococcal vaccines according to ACIP recommendations for patients receiving a complement inhibitor, provide the patient with antibacterial drug prophylaxis and administer meningococcal vaccines as soon as possible.
- During treatment with BKEMV, vaccinate patients as needed according to ACIP recommendations for patients receiving a complement inhibitor.

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 Counsel patients on the need to carry the Patient Safety Card at all times during treatment and for 3 months after the last dose of BKEMV.

- Counsel patient to show the card to any healthcare provider that provides treatment.
- Tell patients to seek immediate medical attention if they develop any of the
 following signs or symptoms of serious meningococcal infections: fever, fever and a
 rash, fever with high heart rate, headache with nausea or vomiting, headache and a
 fever, headache with stiff neck or stiff back, confusion, muscle aches with flu-like
 symptoms, or sensitivity of eyes to light.
- Exposure Variable(s)

N/A

Other Covariate(s)

N/A

Study Sample Size

The goal for the Wave 1 HCP KAB Survey is a sample of at least 83 completed surveys. The survey enrollment window will remain open for the planned duration of the survey even if the target of 83 completed surveys is reached. Recruitment may exceed the minimum target sample size since the recruitment window will continue until the prespecified survey end date, with a data cut-off no sooner than 60 days prior to submission of REMS assessments to the FDA.

As of 16 October 2024, the population of REMS-certified prescribers is estimated to be at 105 at the time of launch of the Wave 1 survey; therefore, no random sampling will be performed. Given the expected number of HCPs and a 10% precision of estimate required to reduce the margin of error, all REMS-certified HCPs will receive an invitation for survey completion. Prior to each survey wave, the population will be evaluated to determine if sampling can be performed (Section 8.7.13.1.1)

If the HCP KAB Survey sample size for Wave 1 is not achieved, the following measures will be considered to increase HCP response for future waves:

- Increase survey field time to allow HCPs additional time for survey completion.
- Evaluate alternatives to gaining HCP participation (e.g., pre-registration).
- Evaluate compensation.
- Data Analysis

Statistical analyses will be descriptive in nature. Counts and percentages will be calculated for each question/item in the questionnaire. Ninety-five percent (95%) CIs for the survey end points will be calculated to provide an estimate of precision; however no formal hypothesis will be tested. All CIs around the percentages will be exact binomial 2-sided 95% CIs calculated according to the method of Clopper-Pearson. Analyses will be performed at the respondent level; therefore, within-respondent variation is not relevant.

5. Amendments and Updates

None

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6. Rationale and Background

The BKEMV™ (eculizumab-aeeb) Risk Evaluation and Mitigation Strategy (REMS) was approved by the United States (US) Food and Drug Administration (FDA) on 28 May 2024. In accordance with section 505-1 of Federal Food, Drug, and Cosmetic Act (FDCA), the FDA determined that a REMS is necessary for BKEMV mitigate the risk of serious meningococcal infections and to educate HCPs and patients/caregivers regarding:

- a. the need to ensure that patients are vaccinated against meningococcal infections,
- b. the need to ensure that patients are aware of early signs and symptoms of meningococcal infections and the need for immediate medical evaluation; and,
- c. the need to ensure that prescribers are aware of early signs and symptoms of meningococcal infections and the need for immediate medical evaluation.

The specific objectives to be achieved by the BKEMV REMS include the assessment of HCPs' knowledge of the following key message domains:

- 1. BKEMV, a complement inhibitor, increases a patient's risk of serious, life-threatening, or fatal infections caused by *Neisseria meningitidis* in any serogroup, including non-groupable strains.
- 2. Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors.
- Serious meningococcal infections may become rapidly life-threatening or fatal if not recognized and treated early. Closely monitor patients for early signs and symptoms of serious meningococcal infections and evaluate patients immediately if an infection is suspected.
- 5. Complete or update meningococcal vaccination (for serogroups A, C, W, Y, and B) at least 2 weeks prior to administration of the first dose of BKEMV, according to the current ACIP recommendations for patients receiving a complement inhibitor.
- 6. Vaccination does not eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination.
- 7. If BKEMV therapy is needed right away in a patient who is not up to date with meningococcal vaccines according to ACIP recommendations for patients receiving a complement inhibitor, provide the patient with antibacterial drug prophylaxis and administer meningococcal vaccines as soon as possible.
- 8. During treatment with BKEMV, vaccinate patients as needed according to ACIP recommendations for patients receiving a complement inhibitor.
- 9. The initiation of BKEMV treatment is contraindicated in patients with unresolved serious meningococcal infections.
- Counsel patients using the Patient Safety Card and the Patient Guide.

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 Counsel patients on the need to carry the Patient Safety Card at all times during treatment and for 3 months after the last dose of BKEMV.

- b) Counsel patient to show the card to any healthcare provider that provides treatment.
- c) Tell patients to seek immediate medical attention if they develop any of the following signs or symptoms of serious meningococcal infections: fever, fever and a rash, fever with high heart rate, headache with nausea or vomiting, headache and a fever, headache with stiff neck or stiff back, confusion, muscle aches with flu-like symptoms, or sensitivity of eyes to light.

A component of the BKEMV REMS Assessment Plan is the conduct of a quantitative evaluation survey with REMS-certified prescribers, to assess awareness of the REMS materials, knowledge of the risks associated with BKEMV, and knowledge of the requirements of the BKEMV REMS.

Findings from the HCP KAB Survey, together with other REMS evaluation metrics, will be used to assess the BKEMV REMS and determine whether changes need to be made to the REMS processes and/or educational materials to make them more effective in achieving the intended goal.

6.1 Diseases and Therapeutic Area

BKEMV™ (eculizumab-aeeb) is indicated for the treatment of adults with PNH to reduce hemolysis and for the treatment of adult and pediatric patients with atypical hemolytic uremic syndrome (aHUS) to inhibit complement-mediated thrombotic microangiopathy. Eculizumab-aeeb binds to human C5 in the region of the protein that becomes C5b and blocks cleavage, thereby inhibiting the complement cascade and ultimately blocking terminal complement-mediated intravascular hemolysis.

The use of eculizumab products, complement inhibitors, increases a patient's susceptibility to serious, life threatening, or fatal meningococcal infections (septicemia and/or meningitis) in any serogroup, including non-groupable strains. Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors. There were no adverse events of meningococcal infections reported in the BKEMV clinical development program. The initiation of BKEMV treatment is contraindicated in patients with unresolved serious *Neisseria meningitidis* infection.

Risk groups or risk factors for meningococcal infections include:

- Genetic deficiency or therapeutic inhibition of terminal complement
- 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 Neisseria meningitidis

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 Military personnel during recruit training (military personnel may be at increased risk of meningococcal infections when accommodated in close quarters)

- Day-care center workers
- Living on a college or university campus
- Travelling to endemic areas for meningococcal meningitis (e.g., India, Sub-Saharan Africa, pilgrimage to Saudi Arabia for Hajj)

Meningococcal infections may resolve with appropriate treatment. However, fatal outcomes have been reported in patients treated with eculizumab products. Vaccination does not eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination; therefore, patients should be closely monitored for early signs and symptoms of the disease.

6.2 Rationale

In accordance with Section 505 (1)(f)(3)(A) of the FDCA, the FDA determined that a REMS is necessary for BKEMV to ensure the benefits of the drug outweigh the potential risk of meningococcal infections.

A component of the BKEMV REMS Assessment Plan is the conduct of a quantitative evaluation survey with REMS-certified prescribers identified via the BKEMV REMS database and who have not been debarred or sanctioned to assess awareness of the REMS materials, knowledge of the risks associated with BKEMV, and knowledge of the requirements of the BKEMV REMS.

Findings from the HCP KAB Survey, together with other REMS evaluation metrics, will be used to assess the BKEMV REMS and determine whether changes need to be made to the REMS processes or educational materials to make them more effective in achieving the intended goal.

This combined protocol/statistical analysis plan provides the procedures to be followed with REMS-certified prescribers, for inclusion in the BKEMV REMS Assessment Reports. This noninterventional study is part of the BKEMV REMS Assessment and is a commitment to the FDA.

6.3 Feasibility and Futility Considerations

To effectively evaluate the HCP KAB Survey, Qualitative Research (QR) will be conducted on a subset of questions from the draft Wave 1 HCP KAB Survey. QR will be conducted with a general population of HCPs who are treating PNH and aHUS patients.

6.4 Statistical Inference (Estimation or Hypothesis[es])

Statistical analyses will be primarily descriptive in nature. Counts and percentages will be calculated for each question/item in the questionnaire. Ninety-five percent Confidence Intervals (CIs) for the survey end points will be calculated to provide an estimate of precision; however no formal hypothesis will be tested. All CIs around the percentages will be exact binomial 2-sided 95% CIs calculated according to the method of Clopper-Pearson. Analyses will be performed at the respondent level; therefore, within-respondent variation is not relevant.

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7. Research Question and Objectives

The key message questions and statements in the survey address the goal and objectives of the BKEMV REMS and are written in several formats, which include:

- Questions or statements with a defined list of possible answers from which the respondent is required to choose one answer (i.e., multiple-choice).
- Questions or statements with a defined list of possible answers from which the respondent is required to choose 1 or more answers (i.e., Select all that apply).
- Questions or statements with response options of "yes" or "true," or "false," and "I don't know" that require the respondent to indicate agreement or disagreement.

All answers for questions or statements will be tallied to provide a broad picture of the respondent's knowledge, attitudes, and behavior.

The desired response for key message questions is generally "true" or "yes," indicating knowledge of the objectives of the REMS. However, some questions are formatted to have the respondent disagree with the statement as written ("false") to avoid having the same affirmative answer for all desired responses.

7.1 Primary

The objectives of the HCP KAB Survey are to conduct a survey with REMS-certified prescribers to assess their awareness and understanding of the risks of BKEMV, the BKEMV REMS requirements and the REMS goals and materials:

- Key Message Domain 1: HCPs must understand the increased risk of meningococcal infections associated with the use of BKEMV.
 - BKEMV, a complement inhibitor, increases a patient's risk of serious, lifethreatening, or fatal infections caused by *Neisseria meningitidis* in any serogroup, including non-groupable strains.
 - Serious meningococcal infections may become rapidly life-threatening or fatal if not recognized and treated early.
 - The initiation of BKEMV treatment is contraindicated in patients with unresolved serious meningococcal infections.
- Key Message Domain 2: HCPs must understand the need for vaccination against
 meningococcal infections caused by *Neisseria meningitidis* serogroups A, C, W, Y,
 and B prior to starting therapy according to the current Advisory Committee on
 Immunization Practices (ACIP) recommendations for patients receiving complement
 inhibitors and receive antibacterial drug prophylaxis if needed.
 - Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors.
 - Complete or update meningococcal vaccination (for serogroups A, C, W, Y, and B) at least 2 weeks prior to administration of the first dose of BKEMV, according to the current ACIP recommendations for patients receiving a complement inhibitor.
 - Closely monitor patients for early signs and symptoms of serious meningococcal infections and evaluate patients immediately if an infection is suspected.

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 Vaccination does not eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination.

- If BKEMV therapy is needed right away in a patient who is not up to date
 with meningococcal vaccines according to ACIP recommendations for
 patients receiving a complement inhibitor, provide the patient with
 antibacterial drug prophylaxis and administer meningococcal vaccines as
 soon as possible.
- During treatment with BKEMV, vaccinate patients according to ACIP recommendations for patients receiving a complement inhibitor.
- Key Message Domain 3: HCPs are required to counsel their patients using the
 Patient Safety Card and the Patient Guide on the signs and symptoms of
 meningococcal infections and to seek immediate medical care if they experience
 signs or symptoms of meningococcal infections.
 - Counsel patients on the need to carry the Patient Safety Card at all times during treatment and for 3 months after the last dose of BKEMV.
 - Counsel patient to show the card to any healthcare provider that provides treatment.
 - Tell patients to seek immediate medical attention if they develop any of the
 following signs or symptoms of serious meningococcal infections: fever,
 fever and a rash, fever with high heart rate, headache with nausea or
 vomiting, headache and a fever, headache with stiff neck or stiff back,
 confusion, muscle aches with flu-like symptoms, or sensitivity of eyes to
 light.

7.2 Secondary

N/A

7.3 Exploratory

N/A

8. Research Methods

This is a US-based, observational, cross-sectional survey of REMS-certified prescribers, identified via the BKEMV REMS database and who have not been debarred or sanctioned. The survey can be self-administered by the respondents via secure internet and telephone modalities utilizing a validated UBC Pathways® Knowledge Survey System for data collection that is secure for receiving and storing survey data.

All assessments described in this protocol are performed as part of normal clinical practice or standard practice guidelines for the HCP specialty in the US.

Comprehension Pre-Testing of the Survey (Qualitative Research)

To effectively evaluate the HCP KAB Survey, QR will be conducted on questions associated with the key message questions from the draft Wave 1 HCP KAB Survey. QR will be conducted with a general population targeting 12 HCPs who are treating PNH and aHUS patients. The conduct of QR will occur through 1:1 interviews with an

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experienced Moderator. HCPs who are licensed and/or practicing in Massachusetts, Minnesota, Vermont, or New Jersey, and who have been debarred or otherwise sanctioned in any US state will not be included as part of the QR.

The purpose of QR of select survey questions is to identify potential terms, questions, or topics for clarification or revision based on respondent feedback. Furthermore, the research will assess comprehension among HCP participants regarding the words and phrases used in select survey questions and response options.

QR will be carried out in a single-blinded manner. Therefore, during QR respondents will not know the identity of Amgen and the product under study and Amgen will not know the respondents who participate in the study. Following completion of QR and those who opt to receive payment, based on the requirements for reporting payments to the Centers for Medicare & Medicaid Services reporting requirements (otherwise known as the "Sunshine Act") (Patient Protection and Affordable Care Act, 2010), (hereinafter referred to as the "Sunshine Act"), Amgen will be provided with information of HCPs who participated in this research for reporting purposes.

HCPs who choose to participate in this research have the opportunity to be compensated. Compensation will be made based on medical degree.

Feedback elicited from the QR interviews will be used to support the identification of terms, questions, or topics that require clarification or revision, based on areas of confusion or miscomprehension by interviewed participants.

Findings and recommendations from QR will be reviewed and incorporated as appropriate to update the select survey questions and response options being tested, prior to the implementation of the Wave 1 HCP KAB Survey. A copy of the Final Summary Report titled, Qualitative Research to Evaluate Healthcare Provider Knowledge, Attitudes, and Behavior (KAB) Surveys for BKEMV along with the QR Discussion Guide used to conduct QR, redacted interview transcripts, and the findings presentation will be included in ANNEX 5 upon final submission of this document to the FDA (See Table 1 for an estimated submission date).

More information regarding QR you can be locate all materials in t ANNEX 2 (Plan and Screener) and ANNEX 5 (Discussion Guide, Redacted Transcripts, Findings Presentation, and Summary Report).

8.1 Study Design

A select number of questions were pre-tested through qualitative research (QR) and finalized prior to implementation of the Wave 1 of the HCP KAB Survey.

8.2 Setting and Study Population

The HCP KAB Survey will be administered via the internet or telephone and participants will be able to choose the method that is preferred. The UBC Pathways[®] Knowledge Survey System will be used for both methods of survey administration which has been validated and is secure for receiving and storing survey data. Details on data management are available in Section 8.6.

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The projected timeline for program development, survey launch, recruitment, and reporting for Wave 1 is shown in Table 1 below.

Table 1: Projected Timeline for Wave 1 KAB Activities

Milestones	Planned Date ¹	
Final Protocol and Survey for QR	~ 24 July 2024	
QR	31 July 2024 – 30 October 2024	
Protocol and Survey Revision Post QR	02 October 2024 – 27 November 2024	
Protocol and Survey Submission to FDA – 90-day review	28 November 2024 – 26 February 2025	
UBC Pathways® Knowledge Survey System Build	~31 March 2025 – 29 August 2025 ²	
Distribution of Pre-Notification Letter	11 August 2025	
UBC Pathways [®] Knowledge Survey System in Production (Survey Launch)		
Start of Data Collection Period	03 September 2025	
Distribution of Initial Survey Invitation	04 September 2025	
First Reminder Mailing (alternating modalities as applicable)	29 September 2025 ³	
Second Reminder Mailing (alternating modalities as applicable)	27 October 2025 ³	
Outbound Calling to Non-Responders	05 January 2026 ⁴	
Third Reminder Mailing (alternating modalities as applicable)		
Fourth Reminder Mailing (alternating modalities as applicable)	23 February 2026 ³	
End of Data Collection	29 March 2026	
Data Processing and Report Development	30 March 2026 – 27 May 2026	
Final Wave 1 Assessment Report to FDA	28 May 2026 ⁵	

FDA = Food and Drug Administration; QR = Qualitative Research; UBC = United BioSource LLC

8.2.1 Study Period

Data from the HCP KAB Survey, together with other REMS evaluation metrics, will be used to assess the REMS and determine whether changes need to be made to the REMS processes and/or educational materials to make them more effective in achieving the goals of the BKEMV REMS. The results of the HCP KAB Survey will be included in the 12-month assessment and will continue annually as required by the FDA.

8.2.2 Selection and Number of Sites

N/A

¹ Dates are subject to change based on receipt of FDA comments.

² UBC Pathways[®] Knowledge Survey System will begin build approximately 2 weeks following the completion of the FDA 90-day review cycle.

³ Distribution of letter campaigns may shift based on survey uptake.

⁴ Outbound calling of 100 completed calls to REMS-certified prescribers is planned.

⁵ Approval of the BKEMV REMS was on 28 May 2024. An assessment is to be submitted 12-months post approval. Due to the commercialization status of BKEMV, no data will be available for this reporting period.

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8.2.3 Healthcare Professional Eligibility

The HCP KAB Survey execution has an undetermined launch date at this time, based on the commercialization status of BKEMV. Once launched, the survey will target BKEMV REMS-certified prescribers identified via the BKEMV REMS-database and who have not been debarred or sanctioned.

Termination of the respondent's participation in the survey will occur if they do not meet the eligibility criteria below.

8.2.3.1 Inclusion Criteria

HCPs must meet all the following inclusion criteria to be eligible for inclusion in the study:

- Certified in the BKEMV REMS²
- Have not been debarred or otherwise sanctioned
- HCPs who have participated in QR.³

8.2.3.2 Exclusion Criteria

HCPs meeting any of the following criteria will not be included in the study:

- Respondents who do not agree to participate in the survey. HCPs who
 respond 'no' to Question 1 that asks, "Do you agree to participate in this
 study about BKEMV?".
- Respondents who are currently working for and/or whose immediate family members are currently working for or consultants to Amgen, UBC, or the FDA.
- Respondents who reported having a conflict of interest.

Further details associated with respondents who do not meet the exclusion criteria established above will be addressed in the assessment report.

8.2.4 Matching - Comparison of the Survey Population to the BKEMV REMS Population Analysis

To assess the representativeness of the survey respondents, the survey completers will be compared to the BKEMV REMS Population (excluding the survey completers) at a given point in time. For this comparison, the BKEMV REMS HCP data from the survey completers will be compared to the BKEMV REMS HCP data of the entire BKEMV REMS HCP population using Chi-Square tests; Fisher's exact test will be used if 20% or more of the expected cell counts in the table are less than 5. The following characteristics will be compared: medical degree, medical specialty, number of patients treated with BKEMV, and geographic location.

² HCPs who become certified in the BKEMV REMS, attest that BKEMV REMS and its agents or contractors may contact them to support the administration of the BKEMV REMS.

³ Because the target population includes general HCPs, not prescribing BKEMV, and because of the time in which this qualitative evaluation takes place compared to when the quantitative survey is conducted, allowing those who participated in QR to also participate in the quantitative survey creates no inherent risk in influencing the outcome of whether or not the BKEMV HCPs are aware of the REMS objectives.

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8.2.5 **Baseline Period**

Given that the survey questions can change periodically over time, there is no specific baseline period for this type of study.

8.2.6 Study Follow-up

N/A

8.3 **Variables**

8.3.1 **Exposure Assessment**

N/A

8.3.2 **Outcome Assessment**

The survey will assess each participant's knowledge, attitudes, and behaviors of the important information as presented in the key message domains communicated through the BKEMV REMS.

The key message questions which will be evaluated in this HCP KAB Survey, include the following:

- HCPs must understand the increased risk of meningococcal infections associated with the use of BKEMV (Key Message Domain 1).
- HCPs must understand the need for vaccination against meningococcal infections caused by Neisseria meningitidis serogroups A, C, W, Y, and B prior to starting therapy according to the current Advisory Committee on Immunization Practices (ACIP) recommendations for patients receiving complement inhibitors and receive antibacterial drug prophylaxis if needed (Key Message Domain 2).
- HCPs are required to counsel their patients using the Patient Safety Card and the Patient Guide on the signs and symptoms of meningococcal infections and to seek immediate medical care if they experience signs or symptoms of meningococcal infections (Key Message Domain 3).

The questions associated with key message domains were pre-tested via QR prior to submission for FDA review as noted in Table 1. above. The key message domains and the corresponding questions/statements can be found in Table 2, Table 3, and Table 4.

Table 2: **Key Message Domain 1**

HCPs must understand the increased risk of meningococcal infections associated with the use of BKEMV.		
Question Number	Question	Desired Response
6	Select True, False, or I don't know for <i>each statement</i> .	
A	Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors such as BKEMV.	True

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В	The initiation of BKEMV treatment is contraindicated in patients with unresolved serious <i>Neisseria meningitidis</i> infection.	True
11	During treatment with BKEMV, patients should be monitored for early signs of meningococcal infection.	True
13	Which of the following should HCPs do during the patie	ent's treatment:
Α	Assess patients for early signs and symptoms of meningococcal infection	True
С	Evaluate the patient immediately if infection is suspected	True
16	In patients being treated for serious meningococcal infection, consider interruption of BKEMV <u>based on the patient's disease status</u> .	True
14	Meningococcal infection may become rapidly life- threatening or fatal if not recognized and treated early.	True
19	Closely monitor patients for early signs and symptoms of meningococcal infections and admit patients for a 5-day observation if infection is suspected.	False
20	BKEMV, a complement inhibitor, increase a patient's susceptibility to serious, life-threatening, or fatal infections caused by meningococcal bacteria.	True

To achieve the demonstrated understanding of 80%, 8 out of 9 questions are required to be answered correctly.

Table 3: Key Message Domain 2

HCPs must understand the need for vaccination against meningococcal infections serogroups A, C, W, Y, prior to starting therapy according to the current Advisory Committee on Immunization Practices (ACIP) recommendations and antibiotic prophylaxis, if required.		
Question	Question	Desired
Number		Response
6	Select True, False, or I don't know for each statem	ent.
		·
С	BKEMV <u>can</u> be started on patients with unknown	False
	vaccination status without antibacterial drug	
	prophylaxis.	
D	Vaccination does <u>not</u> eliminate the risk of serious	True
	meningococcal infections, despite development of	
	antibodies following vaccination.	
7	Select the <u>best</u> option. Complete or update	At least 2
	meningococcal vaccination according to the	weeks prior to
	current ACIP recommendations for patients	administering
	receiving a complement inhibitor.	the first dose
		of BKEMV
8	Please select the <u>best</u> option. Before starting	Meningococcal
	treatment with BKEMV, patients must be	serogroups A,
	vaccinated against which of the following:	C. W. Y

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_			
9	Please select the <u>best</u> option. Before starting treatment with BKEMV, assess the patient unresolved serious meningococcal infections and:	Do not initiate BKEMV in any patient with these infections	
10	Please select the <u>best</u> option. Before starting treatment with BKEMV, assess the patient unresolved meningococcal infections and:	Begin treatment with BKEMV within 2 days of patient's confirmed diagnosis of an unresolved meningococcal infections	
10	Please select True, False, or I don't know for each option. According to the BKEMV REMS, before treatment initiation with BKEMV you should do which of the following:		
В	Assess the patient's vaccination status for meningococcal A, C, W, Y, and B and vaccinate according to the current ACIP recommendations for meningococcal vaccinations in patients receiving a complement inhibitor	True	
13	Which of the following should HCPs do during the pa	tient's treatment:	
В	Evaluate each patient's vaccination status, as needed, according to the current ACIP recommendations for meningococcal vaccinations for patients receiving a complement inhibitor	True	
17	If urgent BKEMV therapy is indicated in a patient who is not up to date with meningococcal vaccines, according to ACIP recommendations, provide the patient with antibacterial drug prophylaxis.	True	

To achieve the demonstrated understanding of 80%, 7 out of 8 questions are required to be answered correctly.

Table 4: Key Message Domain 3

HCPs are required to counsel their patients using the Patient Safety Card and the Patient Guide.			
Question Number	Question	Desired Response	
6	Select True, False, or I don't know for each statem	rue, False, or I don't know for each statement.	
E	HCPs should inform patients of the signs and symptoms of meningococcal infection and instruct patients to seek immediate medical care if these signs and symptoms occur.	True	

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_	HODe also ald in at most matical to a series of the control of the	Falsa
F	HCPs should instruct patients to wait until their	False
	next doctor visit if signs and symptoms of	
	meningococcal infection occur.	
10	Please select True, False, or I don't know for each option. According	
	to the BKEMV REMS, before treatment initiation w	ith BKEMV you
	should do which of the following:	
Α	Assess the patient for reactions associated with	True
	receiving vaccinations	
С	Counsel the patient using the Patient Safety Card	True
	and Patient Guide.	
12	HCPs are required to counsel patients on how to	True
	recognize and respond to the signs and	
	symptoms of meningococcal infection.	
15	Inform patients to seek immediate medical	True
_	attention if they develop any of the following signs	
	and symptoms of meningococcal infections:	
	fever, fever and a rash, fever with high heart	
	rate, headache with nausea or vomiting,	
	headache and fever, headache with stiff neck	
	or stiff back, confusion, eyes sensitive to	
	light, and muscle aches with flu-like	
	symptoms.	
18	Counsel patients on the need to carry the BKEMV	True
.	Patient Safety Card at all times during treatment,	
	and for 3 months after the last dose.	
18	Meningococcal infection may become rapidly life-	True
'0	threatening or fatal if not recognized and treated	1140
	early.	
	demonstrated underestanding of 200/ 6 out of 7 question	

To achieve the demonstrated understanding of 80%, 6 out of 7 questions are required to be answered correctly.

The KAB survey will also collect demographic characteristics for HCPs who complete all survey questions. These include:

- Type of HCP Medical Doctor (MD), Doctor of Osteopathy (DO), Advanced Practice Registered Nurse (APRN), Physician Assistant (PA) including Certified Nurse Practitioner (CNP), Clinical Nurse Specialist (CNS), Certified Registered Nurse Anesthetist (CRNA), and Certified Nurse Mid-wife (CNM).
- Experience with BKEMV REMS
- Medical specialty
- Number of years practicing as an HCP
- Length of time prescribing BKEMV
- Number of patients being treated with BKEMV
- Past Completer versus Current Completer if it is decided that prior survey completers are permitted to participate this analysis will be introduced. This decision will occur prior to Wave 2 and subsequent waves thereafter.

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 Awareness of the REMS educational materials (i.e., Prescriber Enrollment Form, Healthcare Provider Safety Brochure, Patient Guide Patient Safety Card)

- Geographic location
- Survey completion status

Eligibility and reasons for ineligibility will be presented by counts and percentages.

8.3.3 Covariate Assessment

N/A

8.3.4 Validity and Reliability

N/A

8.4 Data Sources

The survey will be administered via a secure web-based internet connection, which will allow respondents who choose to participate to do so at a time and location that is convenient for them. The survey is written to reflect wording for both methods of survey administration: internet and telephone.

The structured survey comprises questions or statements written in several formats, which include specific key message domains:

- Questions or statements with a defined list of possible answers from which the respondent is required to choose one answer (i.e., multiple-choice).
- Questions or statements with a defined list of possible answers from which the respondent is required to choose one or more answers (e.g., select all that apply).
- Questions or statements with response options of "yes" or "true," "no" or "false," and "I don't know" that require the respondent to indicate agreement or disagreement.

All answers for questions permitting multiple responses will be tallied to provide a broad picture of HCPs' knowledge, attitudes, and behaviors.

The desired response for key message questions is generally "true" or "yes" indicating knowledge of the objectives of the BKEMV REMS. However, some questions are formatted to have the respondent disagree with the statement as written ("false" or "no") to avoid having the same affirmative answer for all desired responses. Whenever possible within a key message domain, there will be an equal balance of questions with a "true" or "yes" and "false" or "no."

Information from the BKEMV REMS database will be used to identify all HCPs for recruitment. The total number of HCPs included in the REMS database are all HCPs who have chosen to certify in the BKEMV REMS. The total number REMS-certified prescribers as of 16 October 2024 is estimated to be at 105 at the time of the launch of the Wave 1 survey. Given that the total number of HCPs is anticipated to be limited for this Wave 1 survey, all HCPs who meet the eligibility criteria will be invited to participate

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in this survey. At this time, given the commercialization status of BKEMV, no HCPs are available for recruitment. The HCP characteristics captured in this dataset that will be used for randomization processing include medical degree, medical specialty, number of patients being treated with BKEMV, and geographic location. The HCP characteristics that will be used for survey execution include, medical degree, medical specialty, National Provider Identifier (NPI) number, facility name, first name, last name, mailing address, email, phone, and fax. Note: HCPs who are licensed and/or practicing in Massachusetts, Minnesota, Vermont, or New Jersey will be invited to participate but will not be eligible to receive payment.

8.5 Study Size

Wave 1 will aim to reach, at a minimum, 83 completed HCP surveys. Each survey will remain open for the entire scheduled fielding time but will close no earlier than 60 days prior to assessment report submission.

Personalized invitations will be sent to each selected participant using electronic outreach and/or US Mail for communication Table 1.

In an effort to ensure maximum participation in the survey, all potential participants identified at a designated interval prior to survey launch will receive a Pre-Notification Letter explaining the purpose and details of the upcoming survey. The Pre-Notification Letter will identify the modality available for survey completion: internet or telephone. This letter will be targeted for distribution approximately 2 weeks prior to survey launch.

After the Pre-Notification Letter has been sent, upon launch of the survey, the selected HCP population will be sent an Invitation Letter.

The Invitation Letter will include:

- Two methods (internet or telephone) for accessing the survey: a QR code for quick access, via a mobile device, to the secure website and a URL for the internet survey and a toll-free number to the SCC for the telephone interview.
- A unique code that the respondent must provide when accessing the survey via the internet or telephone.
- Notification that the survey should take approximately 25 minutes to complete depending on method chosen to complete it.
- Notification that participation in the survey or their choice to note participate in the survey will not affect their ability to prescribe BKEMV.
- Notification that payment meeting a fair market value amount will be provided to thank them for their participation will be made, if eligible and/or elect to receive the compensation.
- Notification that eligible participants will receive compensation (if the respondent is able or chooses to receive compensation) for completing the survey. Additionally, potential participants who are not eligible for compensation will be informed that, while they will not receive compensation for their participation, they may still participate in the survey but will not be compensated.

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All HCPs who do not respond to the survey, regardless of the response rate, will be sent Reminder Letters that will assist in informing non-responders that others have completed the survey and letting them know that their help is needed to encourage them to respond to the survey (social validation). The intervals for sending Reminder Letters to non-responders will be condensed as necessary based on the actual rate of survey accrual relative to the proximity of the target survey close date and no sooner than 60 days prior to submission of the annual REMS assessment to the FDA. Reminder letters will be flagged with terms associated with social validation, for example, Reminder 1 -"Friendly Reminder," Reminder 2 - "We need your help," Reminder 3 – "Please respond," and Reminder 4 - "Final reminder" will be implemented. Additional reminder outreach may be conducted based on the time period in which the survey is being conducted and survey uptake (Table 1). Based on the population size of REMS-certified HCPs, at this time, no random sampling will be performed. Furthermore, to minimize sampling error and bias, outbound calling may occur.

Depending on available contact information, returned letters may be evaluated for redistribution using an alternate mode of delivery to the respondent.

8.6 **Data Management**

A secure, web-based, proprietary Knowledge Survey System designed and built by UBC will be used for the HCP KAB Survey. The system meets Title 21 Code of Federal Regulations (CFR) Part 11, the Health Insurance Portability and Accountability Act (HIPAA) and the California Consumer Privacy Act guidelines for information systems. Respondent-identifying information will be stored separately from the survey responses.

Title 21 CFR Part 11 applies to records in electronic form that are created, modified, maintained, archived, retrieved, or transmitted under any records requirements set forth in Agency regulations; the application must provide protection, security, and dependability. Protection of the data requires that audit trails be under application control for all updates and deletions, and that date and time stamps are available. The UBC Pathways® Knowledge Survey System maintains an audit trail containing date and time stamps.

The security of the application requires physical and logical security. The UBC Pathways® Knowledge Survey System maintains user and group-level permissions, so that only relevant project team members will have appropriate access to the system.

Dependability of the application requires that the database be validated and documented evidence that the application does what it is purported to do and will continue to do so. UBC will thoroughly validate and document the testing of the UBC Pathways® Knowledge Survey System. The validation of this system begins with the development of a Project Strategy Document. The document details the strategy for testing. Product Backlog Items are created, and test scripts are written and executed.

All associated Title 21 CFR Part 11 requirements, including requirements for data entry, audit trails, date and time stamps, and security, are tested at baseline.

When survey respondents access the survey website to complete an online survey, they will be asked to enter the unique code from the invitation letter and pass the CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart) robot check shown on the screen. After the respondent has correctly entered the code and passed the CAPTCHA test, the system will advance to the survey welcome page from which the respondent can access the actual survey.

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After the UBC end users, who can facilitate completion of a survey with a respondent via telephone, access the survey website for entry of survey information collected from respondents over the telephone, they will click "UBC Login" and enter their UBC network credentials. They will then access the survey assigned to the respondent by matching the code provided to the respondent code in the system.

All data entered will be single data entered by either the respondent or a designated UBC resource who has been trained to enter data for this program. Data will be checked in real time to ensure it is being entered according to acceptable parameters and requirements. This process will include a data extract, at a time point during survey execution where the data collected is a reasonable number (i.e., more than 50 completed surveys). This data extract will then follow the process in which it will be mapped to Statistical Analysis System (SAS®) datasets and evaluated for any parameters that were not planned (i.e., skip pattern errors).

At the end of each survey cycle, the same process as outlined above will be followed which includes having all data extracted from the UBC Pathways[®] Knowledge Survey System and mapped to SAS datasets (SAS V9.4 or higher). The mapping of raw data will be validated, as will the programming of the analysis tables created from the SAS datasets.

8.6.1 Data Collection Tools (DCTs)/Electronic Data Record

As used in this protocol, the term data collection tool (DCT) (the survey) should be understood to refer to either a paper form or an electronic data record.

A completed DCT (the survey) is required for each included respondent. As defined (Section 8.7.1), a <u>Completed Survey (Primary Population)</u> is the population for a majority of the analyses includes only those respondents who completed all eligibility questions, met all inclusion criteria and none of the exclusion criteria, and answered all questions associated with at least 1 key message domain. The completed original DCTs (the surveys) are the sole property of Amgen and should not be made available in any form to third parties, except for authorized representatives of Amgen or appropriate regulatory authorities, without written permission from Amgen. UBC shall ensure that the DCTs (the surveys) are securely stored at UBC on a secure server to prevent access by unauthorized third parties.

UBC has ultimate responsibility for the collection and reporting of all data entered on the DCTs (the surveys) as required and ensuring that they are accurate, authentic/original, attributable, complete, consistent, legible, timely (contemporaneous), enduring, and available when required. The DCT (the survey) serves as the source document. Any corrections to entries made in the DCTs (the surveys) must be dated, initialed, and explained (if necessary) and should not obscure the original entry.

8.6.2 Record Retention

To enable evaluations and/or inspections/audits from regulatory authorities or Amgen, UBC agrees to keep all study-related records. The records should be retained by UBC according to local regulations or as specified in the Fully Executed Statement of Work, whichever is longer. UBC must ensure that the records continue to be stored securely for so long as they are retained.

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If UBC becomes unable for any reason to continue to retain study records for the required period, Amgen should be prospectively notified. The study records must be transferred to a designee acceptable to Amgen.

Study records must be kept for a minimum of 15 years after completion or discontinuation of the study, unless UBC and Amgen have expressly agreed to a different period of retention via a separate written agreement. Record must be retained for longer than 15 years if required by applicable local regulations.

UBC must obtain Amgen's written permission before disposing of any records, even if retention requirements have been met.

8.6.3 Obtaining Data Files

N/A

8.6.4 Linking Data Files

N/A

8.6.5 Review and Verification of Data Quality

N/A

8.7 Data Analysis

8.7.1 Analysis Populations

Data from all respondents who access the survey will be collected. Only data from those survey respondents who were eligible to participate in the survey and answered every question ("completers") will be the primary analysis population. The population included in the analysis will be defined as follows:

- All Respondents The "All Respondents" population consists of respondents who accessed the survey using a unique code. This population will be used as the denominator for percentages in survey administration statistics and in the survey eligibility results analysis. This population includes any individual who accesses the survey, regardless of whether or not they meet the study's eligibility criteria.
- <u>Eligible Respondents</u> The "Eligible Respondents" are those who completed all eligibility questions designated as eligible for the survey, regardless of whether or not they completed the entire survey.
- <u>Non-Completed Surveys</u> The population will be considered "Non-Completers" if the respondent completed all eligibility questions and answered at least 1 question associated with 1 key message domain but did not complete the entire survey.
- Completed Surveys (Primary Population) The population for a majority of the analyses includes only those respondents with completed surveys. "Completed" is defined as an eligible respondent who completed all eligibility questions, met all inclusion criteria and none of the exclusion criteria, and answered all questions associated with at least 1 key message domain. Any remaining questions not answered by this population will be identified in each analysis as either "missing data" if the

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respondent discontinued the survey before answering the question(s) or skipped the question, or "N/A" if the question(s) was not presented to the respondent due to skip logic in the survey. The "completed surveys" population will be a subset of the "eligible respondents" population.

BKEMV REMS Data Population – The BKEMV REMS Data Population consists of HCPs who are identified as being certified in the BKEMV. To evaluate the representativeness of the HCPs responded to the survey, the HCP who completed the survey will be compared to the population of all HCPs who are certified in the BKEMV REMS, who have not been debarred or otherwise sanctioned. This comparator population will be referred to as the "BKEMV REMS HCP population".

8.7.2 Planned Analyses

Statistical analyses will be descriptive in nature. Counts and percentages will be calculated for each question/item in the questionnaire. Ninety-five percent (95%) CIs for the survey end points will be calculated to provide an estimate of precision; however no formal hypothesis will be tested. All CIs around the percentages will be exact binomial 2-sided 95% CIs calculated according to the method of Clopper-Pearson. Analyses will be performed at the respondent level; therefore, within-respondent variation is not relevant.

8.7.3 Survey Administration Analyses

The survey administration data to be described in the HCP KAB assessment report includes:

- Number of Pre-Notification Letters distributed
- Number of Pre-Notification Letters returned as undeliverable
- Number of Invitation Letters distributed
- Number of Invitation Letters redistributed e-mail
- Number of Invitation Letters returned as undeliverable
- Number of Reminder Letters distributed
- Number of Reminder Letters returned as undeliverable
- Number of Reminder Letters redistributed
- Number of Outbound Calls to non-responders
- Response rate after the Invitation Letter
- Response rate after each Reminder Letter
- Response rate after Outbound Calling is engaged (ongoing with Reminder Letter Outreach)
- Number of respondents screened for participation (All respondents)
- Number of respondents eligible for participation
- Number of respondents not eligible for participation
- Number of respondents eligible for participation who completed the survey

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- Number of respondents who completed the survey via internet or telephone
- Time to complete survey (minutes)
- Description of survey participants includes:
 - Type of HCP (MD, DO, APRN*, PA, Other)
 - *Includes CNP, CRNA, CNM, and CNS
 - Experience with BKEMV REMS
 - Medical specialty
 - Number of years practicing as an HCP
 - Length of time prescribing BKEMV
 - Number of patients being treated with BKEMV
 - Awareness of the REMS educational materials (i.e., Prescriber Enrollment Form, Healthcare Provider Safety Brochure, Patient Guide Patient Safety Card)
 - Past Completer versus Current Completer if it is decided that prior survey completers are permitted to participate this analysis will be introduced. This decision will occur prior to Wave 2 and subsequent waves thereafter.
 - Geographic location
 - Survey completion status

Eligibility and reasons for ineligibility will be presented by counts and percentages.

8.7.3.1 Primary Analysis

The primary analysis will be executed upon data lock and data extraction of the HCP KAB Survey.

8.7.4 Planned Method of Analysis

8.7.5 General Considerations

Statistical analyses will mainly be descriptive; i.e., no formal hypothesis will be tested (the lower bound of the 95% CIs will not be compared but rather the point estimate will be compared against the pre-specified threshold). All analyses will be performed at the respondent level; therefore, within respondent variation is not relevant. Furthermore, descriptive analyses will be performed by prescribing status. Counts and percentages will be calculated for each question/item in the questionnaire. In the case where the estimated percentage is equal to zero or 100 percent, the Clopper-Pearson method (Clopper and Pearson, 1934) will be utilized to estimate the CIs for zero and 100% using procedure freq in SAS (Nair, 2014). The following SAS code is provided below.

Proc freq data=<data>; by <variable>; tables <variable> / binomial (level = x) alpha = 0.05; weight count /zero;

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All other estimated percentages and their CIs will be calculated using 2-sided transformed logit 95% CIs calculated according to the method of Agresti (<u>Agresti, 2002</u>). Proc surveyfreq in SAS (<u>Lewis, 2013</u>) will be used to estimate the transformed logit CIs. The following SAS code is provided below. The default value for alpha is 0.05.

Proc surveyfreq data=<data> total=N; tables <variable> / nowt nofreq cl(type=logit); weight count;

Cls for primary and secondary end points will be calculated as inferential statistics to generalize the results to the entire targeted population. The p-values for comparison of how representative the respective survey respondents are to the respective stakeholder population will be obtained from the Chi-square test.

8.7.6 Primary Analysis

Primary analyses are performed for all key message questions and will be stratified by prescriber versus non-prescriber. Responses from all questions/items from each key message domain will be summarized by counts and percentages. The primary analysis for a key message question evaluates the rate for each correct response to each individual question/item defined by the key message domain. "Select all that apply" questions will be counted as a single correct response if the respondent selects 80% or more of the correct responses and does not select any incorrect response. The specific correct response to each question/item is identified in the body of the Key Message Domain Table 2, Table 3, and Table 4. Exact binomial two-sided 95% CIs will be calculated for the proportion of respondents who provide the correct responses. The completed surveys (Primary Population) will be used for this analysis.

Example Table Output 2: Primary Analysis of Responses to Questions Linked to Key Message Domain 1 - Completed Surveys

Question	Overall (N=XX)ª n (%) [95% Cl] ^b
Question 1:	
Number not missing (if applicable)	XX
Yes ^c	XX (XX.0)
	[XX.X - XX.X]
No	XX
I don't know	XX

^a Total number of eligible respondents completing the survey.

8.7.7 Secondary Analysis

The secondary analysis of the key message domain will be performed consisting of a frequency distribution of the number of correct responses to each key message question (i.e., number and percentages will be shown by the number of correct responses). "Select

^b Logit-transformed CIs were used to take into account the finite population. Clopper-Pearson CIs were used for proportion estimates of zero and 100.

^c Correct response.

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all that apply" questions are handled as described in Section 8.7.6. Only those items that are presented to all respondents will be included in the secondary analysis. The completed surveys (Primary Population) will be used for this analysis.

A prespecified threshold of at least 80% has been set. This prespecified threshold aligns with the FDA general guidance that 80% or higher should be the general standard for each REMS key message domain.

Example Table Output 1: Secondary Analysis of Key Message Domain 1 - Completed Surveys

Correct Responses	Overall (N=XX) ^a n (%) [95% CI] ^b
0 correct responses	XX (XX.0)
1 correct response	XX (XX.0)
2 correct responses	XX (XX.0)
3 correct responses	XX (XX.0)
4 correct responses	XX (XX.0)
Demonstrated understanding of	XX (XX.0)
Key Message Domain 1°	[XX.X - XX.X]

^a Total number of eligible respondents completing the survey.

Another endpoint is the demonstrated understanding of each key message domain, defined as answering 80% or more questions/items in a key message domain correctly. "Select all that apply" questions are handled as described in Section 8.7.6. The proportion of respondents who demonstrated understanding of the key message domain will be presented with 95% Cls. Additionally, the number and percentages of respondents who demonstrated understanding of all key message domains will be provided with 95% Cls. In this analysis, the proportion of respondents who demonstrated an understanding of the key message domain will be presented with 95% Cls. The REMS will be considered meeting its goals if the point estimates of Key message domain 1, Key message domain 2, and Key message domain 3 receive a demonstrated understanding of 80% or above. Additionally, the number and percentages of respondents who demonstrated understanding of all key message domains will be provided with 95% CIs. As stated in the FDA draft Guidance for "Survey Methodologies to Assess REMS Goals That Relate to Knowledge: Guidance for Industry" although there is no standard knowledge performance threshold that is generally accepted for all REMS Programs, in most cases it should be 80% or higher for each Key Message Domain. The completed surveys (Primary Population) will be used for this analysis.

8.7.8 Trend Over Time Analysis

A descriptive comparison in correct response rates to key message questions and the demonstrated understanding of each key message domain across the survey waves will be conducted to address possible trends in the knowledge rates of the survey completers. For the trend analysis, only those questions will be considered for the demonstrated understanding rates that are asked in all survey waves. Therefore, the demonstrated understanding rates in the trend analysis may differ from the results of the previous waves.

^b Logit-transformed CIs were used to take into account the finite population. Clopper-Pearson CIs were used for proportion estimates of zero and 100.

^c To demonstrate understanding of Key message domain 1, the respondent must have answered all 4 questions correctly.

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Additionally, the comparison will be completed to include no more than 2 previous waves and the current reporting period only. If any changes to the questions and/or the response options are made across the survey waves, those questions/responses will be identified as changed with an applicable footnote for identification.

This analysis will be performed following the completion of Wave 2.

8.7.9 Sub-Group Analysis

Subgroup analysis will be performed using the primary population (Completed Surveys) for each key message domain for both the primary and secondary analysis based on descriptive statistics. The sub-group analyses performed will be by medical degree of respondent, medical specialty, experience with BKEMV REMS (certification date)*, number of years practicing as an HCP, number of patients being treated with BKEMV* (prescription data), awareness of the educational materials, responder versus non-responder, and geographic location.

The denominator for the calculation of percentages is the number of available responses. All sub-group analyses will be programmed; however, only those with a meaningful sample size, i.e., 50 or more respondents in at least 2 sub-groups, will be described in the Assessment Report. Sub-groups with low sample size may also be combined as appropriate.

Items that include an asterisk ("*"), data will be taken from the REMS database rather than the survey responses.

8.7.10 Analysis of Additional Survey Questions

All other questions, including those about demographics, inclusion/exclusion, behaviors, safety, requirements of the BKEMV REMS and awareness of the REMS educational materials, will be analyzed using descriptive statistics. The responses to each question will be summarized by frequency tables.

8.7.11 Categorization and Verbatim Responses

Free text and verbatim responses will be presented in data listings and, as appropriate, may be categorized for categorical data analysis.

8.7.11.1 Missing, Duplicate, or Incomplete Data and Lost to Follow-up

8.7.12 Missing Data

Regardless of survey method (internet/telephone) chosen to participate, there is a potential for missing data associated with demographic questions and non-related key message questions (the main survey content). Any remaining questions not answered by this population will be identified in each analysis as either "missing data" if the respondent discontinued the survey before answering the question(s) or skipped the question, or not applicable ("N/A") if the question(s) was not presented to the respondent due to skip logic in the survey. The "completed surveys" population will be a subset of the "eligible respondents" population.

8.7.13 Duplicate Data

With any voluntary survey there is a possibility of duplicate surveys being received. If it is discovered that a respondent completed more than 1 survey (e.g., during fulfillment

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reconciliation), only the results from the first completed survey (based on time completed) will be included in the analyses.

8.7.13.1 **Descriptive Analysis**

8.7.13.1.1 **Description of Study Enrollment**

The target sample size was derived based on the total population available and calculated based on an estimate of those who may be enrolled in the REMS at time of survey execution. This number may be adjusted following enrollment and prior to survey launch so that it aligns with the FDA draft guidance identifying the estimated population including a margin of error of ±5% and 95% CIs.

Table 5 shows the precision of the estimated level of understanding for the key message questions identified for HCPs with exact binomial 2-sided 95% CIs for a sample size of 83 completed surveys.

Table 5: Precision of Estimated Rates of Understanding with a Sample Size of 83 (2-sided 95% CI)

Estimated	Actual Number	Lower	Upper		Margin of
Rate	of Correct Responses	Limit	Limit	Precision	Error
0%	0/83 (0.00%)	0.0%	4.3%	0.0%; +4.3%	+/-0.0%
5%	4/83 (4.82%)	1.3%	11.9%	-3.5%; +7.1%	+/-4.6%
10%	8/83 (9.64%)	4.3%	18.1%	-5.4%; +8.5%	+/-6.3%
15%	12/83 (14.46%)	7.7%	23.9%	-6.8%; +9.4%	+/-7.6%
20%	17/83 (20.48%)	12.4%	30.8%	-8.1%; +10.3%	+/-8.7%
25%	21/83 (25.30%)	16.4%	36.0%	-8.9%; +10.7%	+/-9.4%
30%	25/83 (30.12%)	20.5%	41.2%	-9.6%; +11.1%	+/-9.9%
35%	29/83 (34.94%)	24.8%	46.2%	-10.1%; +11.3%	+/-10.3%
40%	33/83 (39.76%)	29.2%	51.1%	-10.6%; +11.3%	+/-10.5%
45%	37/83 (44.58%)	33.7%	55.9%	-10.9%; +11.3%	+/-10.7%
50%	41/83 (49.40%)	38.2%	60.6%	-11.2%; +11.2%	+/-10.8%
55%	46/83 (55.42%)	44.1%	66.3%	-11.3%; +10.9%	+/-10.7%
60%	50/83 (60.24%)	48.9%	70.8%	-11.3%; +10.6%	+/-10.5%
65%	54/83 (65.06%)	53.8%	75.2%	-11.3%; +10.1%	+/-10.3%
70%	58/83 (69.88%)	58.8%	79.5%	-11.1%; +9.6%	+/-9.9%
75%	62/83 (74.70%)	64.0%	83.6%	-10.7%; +8.9%	+/-9.4%
80%	66/83 (79.52%)	69.2%	87.6%	-10.3%; +8.1%	+/-8.7%
85%	71/83 (85.54%)	76.1%	92.3%	-9.4%; +6.8%	+/-7.6%
90%	75/83 (90.36%)	81.9%	95.7%	-8.5%; +5.4%	+/-6.3%
95%	79/83 (95.18%)	88.1%	98.7%	-7.1%; +3.5%	+/-4.6%
100%	83/83 (100.00%)	95.7%	100%	-4.3%; +0.0%	+/-0.0%

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8.7.13.1.2 Description of Participant Characteristics

HCPs who have been certified in the BKEMV REMS and who have not been debarred or sanctioned will be invited to participate in this survey.

8.7.13.2 Analysis of the Primary, Secondary, and Exploratory Endpoint(s)

Exact binomial 2-sided CIs are used to indicate that for an estimated comprehension level, the true population level of comprehension is at least as high as the lower limit of the 95% CI and may be as high as the upper limit of the 95% CI.

8.7.13.2.1 Stratified Analysis

N/A

8.7.13.2.2 Sensitivity Analysis for Residual Confounding and Bias

N/A

8.7.13.2.3 Other Sensitivity Analysis

N/A

8.7.14 Analysis of Safety Endpoint(s)/Outcome(s)

Safety data will not be collected or analyzed in this study.

8.8 Quality Control

The UBC Pathways® Knowledge Survey System programming will be reviewed by UBC's Quality Control (QC) and simulated users [User Acceptance Testing (UAT)] prior to implementation. At the completion of data collection, the Knowledge Survey System data will be mapped to SAS datasets (SAS v9.4 or higher) by a SAS programmer/designee. These original SAS datasets will be validated by double programming and QC. The validated original SAS datasets will then be used by a SAS programmer to create a set of summary tables and listings according to the analysis text and mock-up tables. If derived analysis datasets are required to produce these summary tables, the derived analysis datasets will be created and independently validated according to Standard Operating Procedures (SOPs). All TL (Tables and Listings) output will be independently validated and documented according to the established SOPs. Summary tables will be reviewed by the appropriate team members and included in the assessment report that is sent to Amgen along with the final document to be submitted to the FDA. No respondent contact information is included in the tables or in the assessment report.

8.9 Limitations of the Research Methods

The HCP KAB Survey recruitment strategies are intended to recruit BKEMV REMS-certified HCPs who have not been debarred or otherwise sanctioned. Participants will be self-selected because they will voluntarily respond to the invitation to participate, so the potential exists that those who choose to respond to the survey may differ in their understanding of the REMS Program requirements from those who elect not to participate. This is a common limitation of all studies that rely on voluntary participation.

The second limitation is that the survey can assess HCPs' understanding of the REMS requirements, but it cannot clearly determine which channel the respondents gained the

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information from. While the survey asks HCPs where the information was gained, recall of information may not be reliable. Inherent in survey research is the reliance on the respondent's recall of whether or not the REMS educational materials were received and read. It is possible, however, that respondents may simply not recall receiving and/or reading any one or more of the REMS educational materials that were, in fact, received and/or read. It is also possible that the respondents have acceptable understanding of the important product information associated with the use of BKEMV despite not receiving or recalling that s/he received and/or read the REMS educational materials prior to completing the survey.

A third limitation is that of social desirability where respondents are more likely to answer "yes" when they are asked "did you read this?" or "did you do this?" because they assume this is the expected answer. Social desirability bias tends to result in higher scores, particularly for questions with a true/false response.

BKEMV is a rare disease drug, therefore, the population of HCPs may be limited.

8.9.1.1 **Measurement Error(s)/Misclassification(s)**

N/A

8.9.1.2 **Information Bias**

Controls will be in place to ensure the survey is conducted in a professional manner and to minimize biases, including the following:

- A standardized script will be used for telephone interviews, and all telephone interviewers will be carefully trained in interview techniques to minimize interviewer bias.
- The survey will be programmed to ensure:
 - Questions are asked in the appropriate sequence and all questions will be presented in a standard order to reduce exposure bias.
 - Respondents cannot skip ahead and will only allow for missing data when caused by skip patterns.
 - The list of response options within a multi-item question are randomized to minimize the potential for positional bias.

Regardless of modality, internet or telephone respondents will be instructed that they cannot go back to a question once they have progressed to the next question and cannot (internet and telephone). Both the telephone and the internet questionnaire will be programmed with a standardized approach.

Respondents will be provided with a unique code during the recruitment process and will then be asked to provide the unique code to gain access to the internet-based system or when calling the SCC. The code will be inactivated after use to minimize exposure bias and fraud.

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8.9.1.3 Selection Bias

Potential participants will be self-selected since they will voluntarily respond to the invitation to participate. Reminder letters will be sent to non-responders to reduce non-response bias.

Additionally, the following measures are in place to assist in minimizing potential biases in the survey sample:

The population of potential participants are those as defined in Section 8.2.3. No random sampling will be performed.

- To reduce exposure bias, the following will be excluded:
 - Respondents who do not agree to participate in the survey.
 - Respondents who are currently working for and/or whose immediate family members are currently working for or are consultants to Amgen, UBC, or the FDA.
 - Respondents who report having a conflict of interest.
- Respondents who have previously participated may be eligible to participate in future surveys. This eligibility criteria will be dependent upon the number of REMS-certified prescribers available via the REMS database, prior to launch of subsequent survey waves.
- Two methods are available for survey completion: internet and telephone. Providing more than 1 method for survey data collection allows for wide survey access to a heterogeneous population and minimizes intervention bias.
- The list of respondent names will be checked for duplicates so that an individual's responses will not be included in the survey assessment more than once.

8.9.1.4 Confounding

N/A

8.9.2 External Validity of Study Design

N/A

8.9.3 Analysis Limitations

N/A

8.9.4 Limitations Due to Missing Data and/or Incomplete Data

N/A

8.10 Other Aspects

If any protocol deviations occur during survey processing that may have an impact on the survey data and analysis, they will be reported in the final assessment report.

9. Protection of Human Participants

9.1 Informed Consent

The survey will begin with an introduction to the survey providing the respondents with general information about the research sponsor and the survey expectations followed by

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letting them know how their information will be used, how their privacy will be protected. how they can learn more about the survey, and instructions on taking the survey. Once this information is reviewed and the respondents proceed to the first survey question, they will be presented with one final statement which is: "Your agreement to participate in this survey confirms mutual understanding in connection with completion of the survey and compensation to be rendered in connection with those services", concluding with their first guestion asking if they agree to participate in the survey about BKEMV. If respondents select "Yes" they will proceed through the screening module to confirm respondents' eligibility and should they select "No", the survey will immediately terminate, and their session will end. If deemed ineligible, respondents participating via the internet-based survey are immediately notified with a "thank you" message that survey participation has ended. For those respondents participating in the survey via the telephone with the SCC, the SCC Associate will communicate the "thank you" message that, based on the respondent's answer, they are not eligible to participate.

9.2 Institutional Review Board/Independent Ethics Committee (IRB/IEC)

It is the responsibility of UBC to have prospective approval of the study protocol, protocol amendments, materials describing the consent process (e.g., statement regarding agreement to participate), and other relevant documents, (e.g., recruitment advertisements), if applicable, from the IRB. All correspondence with the IRB should be retained by UBC. Copies of IRB approvals should be forwarded to Amgen.

Please note that IRB approval is not required for this study.

9.3 **Participant Confidentiality**

The investigator must ensure that the participant's confidentiality is maintained for documents submitted to Amgen.

Participants will be assigned a unique identifier by the sponsor. All parties will comply with all applicable laws, including laws regarding the implementation of organizational and technical measures to ensure protection of participant personal data. Such measures will include omitting participant names or other directly identifiable data in any reports, publications, or other disclosures, except where required by applicable laws.

Participant personal data will be stored at UBC in encrypted electronic form and will be password protected to ensure that only authorized study staff have access. UBC will implement appropriate technical and organizational measures to ensure that the personal data can be recovered in the event of disaster. In the event of a potential personal data breach, UBC shall be responsible for determining whether a personal data breach has in fact occurred and, if so, providing breach notifications as required by law.

To protect the rights and freedoms of natural persons regarding the processing of personal data, when study data are compiled for transfer to Amgen and other authorized parties, any participants names will be removed and will be replaced by a single, specific, numerical code. All other identifiable data transferred to Amgen or other authorized parties will be identified by this single, participant-specific code. UBC will maintain a confidential list of participants who participated in the study, linking each participant's numerical code to his or her actual identity. In the case of data transfer, Amgen will maintain high standards of confidentiality and protection of participants' personal data consistent with the vendor contract and applicable privacy laws.

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For serious adverse events reported to Amgen, participants are to be identified by their unique participant identification number, initials (for faxed reports, in accordance with local laws and regulations), and age (in accordance with local laws and regulations).

Documents that are not submitted to Amgen (e.g., signed informed consent forms) are to be kept in confidence by the investigator, except as described below.

In compliance with [governmental regulations/ICH GCP Guidelines], it is required that the investigator and institution permit authorized representatives of the company, of the regulatory agency(s), and the [IRB/IEC] direct access to review the participant's original medical records for verification of data. Direct access includes examining, analyzing, verifying, and reproducing any records and reports that are important to the evaluation of the study. The investigator is obligated to inform and obtain the consent of the participant to permit such individuals to have access to his/her study-related records, including personal information.

9.4 Participants Decision to Withdraw

Participants have the right to withdraw from the study at any time and for any reason.

Withdrawal of consent for a study means that the participant does not wish to or is unable to continue further study participation. Participant data up to withdrawal of consent will be included in the analysis of the study and, where permitted, publicly available data can be included after withdrawal of consent. As per local regulations, upon withdrawal of consent, the participant has the right to request removal of their data that was collected and not have it further processed. The investigator is to discuss with the participant appropriate steps for withdrawal of their consent from the study.

10. Collection, Recording, and Reporting of Safety Information and Product Complaints

10.1 Definition of Reportable Events

10.1.1 Adverse Events

An adverse event is any untoward medical occurrence in a participant administered a pharmaceutical product(s) irrespective of a causal relationship with this treatment.

An adverse event can therefore be any unfavorable and unintended sign (including an abnormal laboratory finding, for example), symptom, or disease temporally associated with the use of a product(s), whether or not considered related to the product(s). The definition of an adverse event includes:

- Worsening of a pre-existing condition or underlying disease
- Events associated with the discontinuation of the use of a product(s), (e.g., appearance of new symptoms)

10.1.2 Serious Adverse Events

A serious adverse event is any adverse event as defined above that meets at least one of the following serious criteria:

- is fatal
- is life threatening (places the participant/patient at immediate risk of death)

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- requires in-patient hospitalization or prolongation of existing hospitalization
- results in persistent or significant disability/incapacity
- is a congenital anomaly/birth defect
- is an "other medically important serious event" that does not meet any of the above criteria

A hospitalization meeting the regulatory definition for "serious" is any in-patient hospital admission that includes a minimum of an overnight stay in a healthcare facility.

"Other medically important serious events" refer to important medical events that may not be immediately life threatening or result in death or hospitalization but may jeopardize the participant/patient or may require intervention to prevent one of the other outcomes listed in the definition above. Examples of such events could include allergic bronchospasm, convulsions, and blood dyscrasias, drug-induced liver injury, events that necessitate an emergency room visit, outpatient surgery, or other events that require other urgent intervention.

10.1.3 Other Safety Findings

Other Safety Findings (regardless of association with an adverse event) include:

- Medication errors, overdose/underdose, whether accidental or intentional, misuse, addiction, or abuse involving an Amgen product,
- Use of an Amgen product while pregnant and/or breast feeding,
- Transmission of infectious agents,
- Reports of uses outside the terms for authorized use of the product including -off label use,
- Accidental or Occupational exposure,
- Any lack or loss of intended effect of the product(s).

10.1.4 Product Complaints

Product Complaints include any written, electronic, or oral communication that alleges deficiencies related to the identity, quality, durability, reliability, safety, effectiveness, or performance of a drug, combination product, or device after it is released for distribution to market or clinic. This includes any drug(s), device(s) or combination products provisioned and/or repackaged/modified by Amgen. Drug(s) or device(s) or combination product(s) includes investigational product.

10.2 Safety Collection, Recording and Submission to Amgen Requirements

This study is collecting information from Healthcare Professionals prospectively at one point in time through the completion of an online-based survey or telephone-based survey. All reportable events (adverse events, product complaints, and other safety findings) considered to have occurred following exposure to BKEMV will be collected following Healthcare Professional enrollment within the study through to the final study contact. The Vendor is responsible for ensuring that all reportable events they become aware of during the study period are recorded in the appropriate study documentation. It is the Vendor's responsibility to evaluate whether an adverse event is related to an Amgen product prior to reporting the adverse event to Amgen. If further safety-related data is needed to fulfill

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any regulatory reporting requirements for a reportable event, then additional information may need to be collected from the Vendor/participants. All reportable events must be submitted as individual safety reports to Amgen Safety via the applicable Amgen Safety Reporting Form (paper or electronic form) within the timelines stated in Table 6: Types of Safety Data to be Collected and Reported in Primary Data Collection Studies Collecting all Reportable Events.

Table 6: Types of Safety Data to be Collected and Reported in Primary Data Collection Studies Collecting all Reportable Events

Reportable Events/Event Type	* Reporting Timeframe
 Serious Adverse Events (related and non-related) Other Safety Events (related and non-related) Product Complaints (serious and non-serious) Other Safety Findings (serious and non-serious) Pregnancy and/or Lactation Exposure 	Within 1 business day from when Vendor first becomes aware of the event
Non-serious Adverse Events (related and non-related)	Within 15 calendar days from when Investigator/Vendor first becomes aware of the event

* Please note, more stringent reporting timelines may apply per local requirements

Reportable events that are suspected to be related to any Amgen medicinal product, combination product or device where there is no exposure to BKEMV should be spontaneously reported to Amgen within 1 business day of vendor's awareness. A list of all Amgen medicinal products can be found in the following link: https://www.ext.amgen.com/amgen-worldwide

To spontaneously report a reportable event to Amgen, refer to the following link to locate your Local Amgen contact information by country: https://www.ext.amgen.com/contact-us/product-inquiries

Additional details on what to collect and report to Amgen for the reportable event can be found in the following link: https://www.ext.amgen.com/products/global-patient-safety/adverse-event-reporting

Reportable events suspected to be related to any non-Amgen medicinal product should be reported to the local authority in line with the local country requirements.

See <u>Appendix C</u> for sample Safety Report Form(s) and <u>Appendix D</u> for sample Pregnancy and Lactation Notification Forms. The Investigator may be asked to provide additional information for any event submitted. Information provided about the event must be consistent with information recorded in the study documentation where safety data may also be recorded.

10.2.1 Collection of Pregnancy and Lactation Information

Female Patients Who Become Pregnant

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Vendor will collect pregnancy information on any female patient who becomes pregnant following exposure to BKEMV if reported by the Healthcare Professional during completion of the online-based survey or telephone-based survey.

Information will be recorded on the Pregnancy Notification Form (see Appendix D). The worksheet must be submitted to Amgen Safety within 1 business day of when Vendor first becomes aware of the patient's pregnancy (Note: Vendor is not required to provide any information on the Pregnancy Notification Form that violates the country or regions local privacy laws).

After receipt of the Pregnancy Notification Form, Amgen Safety or designee will provide the reporter with a consent form and questionnaire to collect additional information. After obtaining the reporter's signed consent for release of pregnancy and infant health information, Amgen Safety or designee will collect pregnancy and infant health information and complete the pregnancy questionnaire for any female patient who becomes pregnant following exposure to BKEMV through [6 months after the last dose of BKEMV. This information will be forwarded to Amgen Safety per applicable processes. Generally, infant follow-up will be conducted up to 12 months after the birth of the child (if applicable).

Any termination of pregnancy will be reported to Amgen Safety per applicable processes, regardless of fetal status (presence or absence of anomalies) or indication for procedure.

While pregnancy itself is considered another safety finding, any pregnancy complication or report of a congenital anomaly or developmental delay, fetal death, or suspected adverse reactions in the neonate will be reported as an adverse event or serious adverse event. Note that an elective termination with no information on a fetal congenital malformation or maternal complication is generally not considered an adverse event, but still must be reported to Amgen as a pregnancy exposure case.

If the outcome of the pregnancy meets a criterion for immediate classification as a serious adverse event (e.g., female patient experiences a spontaneous abortion, stillbirth, or neonatal death or there is a fetal or neonatal congenital anomaly) the Vendor will report the event as a serious adverse event.

Male Patients with Partners who Become Pregnant or Were Pregnant at the Time of **Enrollment**

In the event the HCP notifies the vendor of a male patient who fathers a child following exposure to BKEMV the information will be recorded on the Pregnancy Notification Form. The form (see Appendix E) must be submitted to Amgen Safety within 1 business day of when the Vendor first becomes aware of the pregnancy. (Note: Vendor is not required to provide any information on the Pregnancy Notification Form that violates the country or region's local privacy laws).

After receipt of the Pregnancy Notification Form, Amgen Safety or designee will provide the respondent with a consent form and questionnaire to collect additional information. Amgen Safety or designee will attempt to obtain a signed consent for release of pregnancy and infant health information directly from the pregnant female partner to obtain additional pregnancy information.

After obtaining the female partner's signed consent for release of pregnancy and infant health information, Amgen Safety or designee will collect pregnancy outcome and infant health information on the pregnant partner and her baby and complete the pregnancy questionnaires. This information will be forwarded to Amgen Safety per applicable processes.

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Generally, infant follow-up will be conducted up to 12 months after the birth of the child (if applicable).

Any termination of the pregnancy will be reported to Amgen Safety per applicable processes regardless of fetal status (presence or absence of anomalies) or indication for procedure.

Collection of Lactation Information

Vendor will collect lactation information on any female patient who breastfeeds while taking BKEMV through 6 months after last dose if reported by the healthcare professional during completion of the online-based survey or telephone-based survey.

Information will be recorded on the Lactation Notification Form (see Appendix D) and submitted to Amgen Safety within 1 business day of when the Vendor's first becomes aware of the lactation exposure.

With the female patient's signed consent for release of mother and infant health information, Amgen Safety or designee will collect mother and infant health information and complete the lactation questionnaire on any female patient who breastfeeds while taking BKEMV through 6 months after last dose after discontinuing BKEMV.

10.2.2 Safety Reporting Requirement to Regulatory Bodies

Amgen will report safety data as required in accordance with local requirements to regulatory authorities, Investigators/institutions, IRBs/IECs, or other relevant ethical review board(s) in accordance with Pharmacovigilance guidelines and in compliance with local regulations. The Investigator is to notify the appropriate IRB/IEC or other relevant ethical review board of reportable events in accordance with local procedures and statutes.

11. Administrative and Legal Obligations

11.1 Protocol Amendments and Study Termination

Amgen may amend the protocol at any time. When Amgen amends the protocol and distributes the protocol amendment to the sites, written agreement from the Investigator must be obtained where applicable per local governing law and/or regulations. The IRB must be informed of all amendments and give approval for all protocol amendments that Amgen provides to the site. The Investigator **must** send a copy of the approval letter from the IRB to Amgen.

Amgen reserves the right to terminate the study at any time. Both Amgen and the Investigator reserve the right to terminate the Investigator's participation in the study according to the contractual agreement. The Investigator is to notify the IRB in writing of the study's completion or early termination and send a copy of the notification to Amgen.

12. Plans for Disseminating and Communicating Study Results

Once the survey results are finalized, if applicable, a discussion will be included to address the extent to which the REMS goals related to knowledge are met, how that determination is made, and if the demonstrated understanding is below the pre-specified threshold, outline steps to achieve the desired knowledge rates (e.g., enhancing REMS educational materials or outreach activities as outlined the BKEMV REMS Supporting Document).

During the reporting phase, all data analyses tables and listings will be generated in Excel and provided to Amgen for inclusion for submission to FDA.

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The REMS Survey methodology protocol and instrument will be submitted to FDA in both a Portable Document Format and Word Format.

In the event of any prohibition or restriction imposed (e.g., clinical hold) by an applicable competent authority in any area of the world, or if the party responsible for collecting data from the participant is aware of any new information which might influence the evaluation of the benefits and risks of an Amgen product, Amgen should be informed immediately.

In addition, the investigator will inform Amgen immediately of any urgent safety measures taken by the party responsible for collecting data from the participant to protect the study participants against any immediate hazard, and of any serious breaches of this non-interventional study protocol that party becomes aware of.

12.1 Publication Policy

The results of this study will not be submitted for publication.

13. Compensation

All respondents, regardless of modality of survey completion, who complete the survey and who provide their contact information will receive a mailing to begin distribution at survey close and will be sent directly to the respondent based on the address provided during survey completion. This mailing will include:

- Thank you letter for completing the BKEMV REMS KAB Survey.
- Compensation meeting a fair market value amount will be provided for their time in completing the survey.
- Correct answers to important survey questions about the safe use of BKEMV.

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14. References

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15. Appendices

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Appendix A. List of Stand-alone Documen	Appendix A.	List of	Stand-alone	Document
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None

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Appendix B. ENCePP Checklist for Study Protocols [Delete this Appendix if not a PASS study.]t

<<A copy of the European Network of Centres for Pharmacoepidemiology and Pharmacovigilance (ENCePP) Checklist for study protocols is available at the following location: http://www.encepp.eu/standards and guidances/checkListProtocols.shtml . It is to be completed and signed by the main author, as listed on the title page of the study protocol, and should be included in Appendix B. The checklist will facilitate the review of the protocol and evaluation of whether investigators have considered important methodological aspects.>>>

<< In question 9.5 of the Checklist Revision 1:

- "Study start" means "Start of data collection"
- "Study progress" means "Progress Report(s)"
- "Study completion" means "End of data collection"
- "Reporting" means "final report of the study results">>>

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LIST OF FIGURES

Not applicable.

ANNEX 1: LIST OF STAND-ALONE DOCUMENTS

None

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ANNEX 2: PARTICIPANT QUALITATIVE RESEARCH PLAN AND SCREENER

Qualitative Research to Evaluate HCP Knowledge, Attitudes, and Behavior (KAB)

Survey Questions for the BKEMV™ (eculizumab) REMS

Amgen Inc.

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List of Abbreviations

Adverse Event
Atypical Hemolytic Uremic Syndrome
Amgen Inc.
Advanced Practice Registered Nurse
Doctor of Osteopathy
Food and Drug Administration
Healthcare Providers
Health Insurance Portability and Accountability Act
Knowledge, Attitudes, and Behavior
Doctor of Medicine
Medical Information Request
Physician Assistant
Product Complaint
Paroxysmal Nocturnal Hemoglobinuria
Qualitative Research
Risk Evaluation and Mitigation Strategy
Safety Event Project Specific Procedure
Telephone In-Depth Interviews
United BioSource LLC
Uniform Resource Locator
United States

Protocol Number: 20240216 V2.0

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OVERVIEW

Product: BKEMV™ (eculizumab-aeeb)

BKEMV™ (eculizumab-aeeb) is indicated for the treatment of adults with paroxysmal nocturnal hemoglobinuria (PNH) to reduce hemolysis and for the treatment of adult and pediatric patients with aHUS to inhibit complement-mediated thrombotic microangiopathy. Eculizumab-aeeb binds to human C5 in the region of the protein that becomes C5b and blocks cleavage, thereby inhibiting the complement cascade and ultimately blocking terminal complement-mediated intravascular hemolysis.

Because of the increased risk of serious meningococcal infections (septicemia and/or meningitis), a Risk Evaluation and Mitigation Strategy (REMS) was determined necessary for BKEMV by the US Food and Drug Administration (FDA) to ensure that the benefits of the drug outweigh the risks. Amgen Inc. (hereinafter referred to as "Amgen") received the FDA's approval of BKEMV and the BKEMV REMS on 28 May 2024.

A component of the BKEMV REMS Assessment Plan is the conduct of a quantitative evaluation survey of REMS-certified prescribers, hereinafter referred to as healthcare providers (HCPs), to assess their awareness of the REMS materials, knowledge of the risks associated with BKEMV, and knowledge of the requirements of the BKEMV REMS. This noninterventional study (hereinafter referred to as the HCP KAB Survey) is part of the BKEMV REMS Assessment and is a commitment to the FDA.

To effectively evaluate the HCP KAB Survey, qualitative research, hereinafter referred to as QR, will be conducted on a subset of questions from the draft Wave 1 HCP KAB Survey with a representative sample of HCPs who are treating PNH will be identified via direct outreach by a recruitment facility. The recruitment facility will utilize its nationwide proprietary database of HCPs who have expressed interest in participating in market research and opted-in to be contacted about potential research opportunities.

QR will be carried out in a double-blind manner, i.e., respondents will not know the identity of Amgen and the product under study; however, Amgen will know the respondents who participated in the study based on the requirements for reporting payments to the Centers for Medicare & Medicaid Services reporting requirements (otherwise known as the "Sunshine Act") (Patient Protection and Affordable Care Act, 2010), (hereinafter referred to as the "Sunshine Act"). Note that in the event an HCP reports information that meets the criteria as defined in the Safety Event Project Specific Procedure (SE PSP), the identity of the HCP may be provided to Amgen.

Feedback elicited from the QR interviews will be used to support the identification of terms, questions, or topics that may require clarification or revision based on any areas of confusion or miscomprehension reported by interviewed participants.

Upon concluding this research, a findings presentation will be delivered by UBC, the KAB Survey Administrator, the company responsible for conducting this research, on behalf of Amgen. Findings and recommendations from QR will be reviewed and incorporated as appropriate to update the questions and response options prior to the implementation of the Wave 1 HCP KAB Survey.

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RESEARCH DESIGN

This QR plan outlines the goals and objectives, research methodology, eligibility criteria, and interview design to be used in the qualitative evaluation of the HCP knowledge, attitudes, and behaviors around the survey questions, and response options being testing for the BKEMV KAB Survey.

Objectives

The objectives of this research include the following:

- Review of survey questions and response options with respect to comprehension, relevance, and clarity.
- Identify terms, questions, or topics that require clarification or revision based on areas of confusion or miscomprehension by interviewed participants.
- Evaluate participants' overall understanding of the survey questions and response options; and
- Make recommendations for potential changes to the survey questions and/or response options based on QR findings.

Methodology

The goal of the qualitative research is to conduct twelve (12), 60-minute one-on-one Telephone In-Depth Interviews (TDIs) with a representative sample of HCPs who are treating patients with PNH and aHUS.

All interviews will be conducted by an experienced research moderator (hereinafter referred to as "moderator") to ensure consistency between participant interviews using a detailed discussion guide. All interviews will be audio recorded with the participants' consent and subsequently transcribed.

Eligibility Criteria

Inclusion Criteria:

Include 12 HCPs who:

- Are located in the US.
- Are treating patients with PNH and aHUS.
- Do not work for or have immediate family who work for or are consultants of a pharmaceutical company, UBC, or the FDA.
- Who have not been debarred or otherwise sanctioned
- Have access to a computer/tablet with access to the internet during the interview.
- Are willing and able to sign an Interview Release Form to participate in the research.

Exclusion Criteria:

HCPs who do not meet all the inclusion criteria as listed above.

Recruitment

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UBC will work with a recruitment vendor to identify participants who meet eligibility (Eligibility Criteria). Recruitment will consist of direct outreach to each potential participant, utilizing various outreach methods including mail, email and/or telephone calls. Up to 3 attempts will be made targeting non-responders. Eligible participants who complete the interview and would like to receive compensation can choose to receive compensation as fair market value for their time spent participating in the interview. All potential participants have the option of participating and not receiving compensation. Thank you materials can be found in, Appendix 4 of this document.

Participants will be screened (Appendix A) for eligibility as outlined in the Eligibility Criteria. When a respondent meets all eligibility criteria, the recruitment vendor will:

- Collect the participant's information and schedule an interview.
- E-mail/fax/mail and collect the Interview Release Form from the participant.
- E-mail/fax/mail participant confirmation letters which include the interview date and time, the teleconference dial-in information, and detailed instructions on how to join the interview.
- Notify participants at the completion of the interview and once the Interview Release Form that s/he will be compensated for their time spent participating in this 60-minute qualitative interview process.
 - If Physician: \$350
 - If APRN (including NP)/Physician Assistant (PA): \$300

The recruitment vendor will only share participant information with UBC that is necessary to determine eligibility, to coordinate the research interview with participants, to comply with the requirements of the Federal Physician Payment Sunshine Act Reporting (hereinafter referred to as the "Sunshine Act"), and/or to comply with reporting of information as outlined in the SE PSP. Depending on the information being gueried, UBC may share information with Amgen to further the decision in support of this research.

If the participant does not want to be contacted about future research studies, their information will be removed from future contact attempts. If for any reason, the recruitment vendor is unsure about a participant's eligibility as it relates to this program, the recruitment vendor will contact UBC who will confirm with Amgen as needed.

INTERVIEW DESIGN

Prior to the Interview

Upon confirmation of each participant's eligibility and availability, the recruitment vendor will e-mail or fax an interview confirmation letter to each participant.

Each participant will be informed that the interview will be conducted online where the moderator will share a screen with the participant and present the materials for review. As such, the participant will be advised that a computing device of reasonable size (i.e. desktop, laptop, or tablet; not a smartphone) will be needed with access to the internet at the time of the interview.

During the Interview

All participant interviews will follow a standard process and will be guided by a pre-scripted discussion guide. When the participant joins the interview, the moderator will go through introductions and disclosures with the participant. For example:

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 General introductions – The moderator will thank the participant for being part of the research and inform the participant that the interview will be audio taped only to help prepare a written report for research purposes. The moderator will reconfirm with the participant that audio taping may begin and will initiate recording upon the participant's agreement.

- 2. Confidentiality The moderator will inform the participant that the information gathered is for research purposes only and s/he will not be identified by name in any reports. The moderator will assure the participants that their input and opinions will be reported in aggregate and are important to improve the program's research or educational materials.
- 3. Potential Adverse Event (AE), Other Safety Findings (OSF), Potential Product Complaint (PC), Potential Medical Information Request (MIR), and/or Potential REMS-related Questions, Reporting The moderator will inform the participant that should any Potential AE, OSF, PC, MIR, and/or REMS-related Questions be reported, the moderator is required to forward this information to the research sponsor and ask the participant if they are willing to waive their confidentiality for Potential AE, OSF, PC, MIR, and/or REMS-related Questions reporting purposes only.
- 4. Rapport building The moderator will learn a little bit about the participant.
- 5. The moderator will remotely assist the participant in logging in to the secure website to review the materials via screen share.

After the above steps, the moderator will then review the associated question items with each participant. Additional details on interview content and conduct will be included in the HCP Moderator's Discussion Guide.

At the close of the interview, the participant will be thanked for his/her time and will log off the online platform. The participant will be informed that the recruitment vendor will mail compensation in the amount determined as fair market value, if eligible, for their time and efforts. For more information regarding compensation for participation efforts please refer to Recruitment.

INTERVIEW RELEASE PROCEDURES

All participants will provide a signed Interview Release Form prior to the interview. All participants will provide verbal consent to be audio recorded. Participants will be informed that the transcribed interviews may be shared with the sponsor and regulatory agencies; however, the moderator will explain that neither the participant's name nor other identifying information will be associated with the audio recording, or the responses provided during the interview. If a participant does not consent to the recording of their interview, the interview will be terminated, and another participant will be scheduled.

POTENTIAL ADVERSE EVENT, PRODUCT COMPLAINT, MEDICAL INFORMATION REQUEST, AND REMS-RELATED QUESTION REPORTING REQUIREMENTS

The SE PSP has been created to establish a process for the proper handling of potential AEs, OSF, PCs, MIRs, and/or REMS-Related Questions should personnel conducting this research become aware of such information.

While it is not the intent that any participant in QR will report information that meets the criteria of a potential AE, OSF, PC, MIR, and/or REMS-Related Question, it is possible that a participant may spontaneously report information that meets these criteria. If

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information pertaining to a potential AE, OSF, PC, MIR, and/or REMS Related Question is mentioned during a QR interview, a UBC QR team member will document the information and the participant's contact information, if consent to provide contact information is given. Information on all reports that may constitute a potential AE, OSF, PC, MIR, and/or REMS Related Question will be forwarded to Amgen, according to the UBC KAB SE PSP and the Amgen requirements for management and reporting such information.

QUALITATIVE ANALYSIS & REPORTING

Data from all research interviews, including transcripts, and interviewer notes, will be thoroughly reviewed by UBC staff. A systematic content analysis approach will be used to assess the participant's understanding of the select KAB survey questions and response options evaluated. Emphasis will be placed on identifying areas of ambiguity or disagreement with, and/or gaps in understanding the survey questions and/or response options, and suggested changes for clarification and revision.

The QR findings will be reported in two formats. One format will consist of a PowerPoint presentation that will include but not be limited to:

- Participants select survey questions and response options
- QR findings that place emphasis on identifying specific points of confusion, disagreement or ambiguity
- UBC recommendations based on participant feedback
- Final decisions made by Amgen

The second format consists of a final report prepared by UBC in Microsoft Word. This final Summary Report will include an overview of the goals and objectives of the research, participant inclusion/exclusion criteria, methodology, a description of the participant demographics, a high-level summary of qualitative findings, and final decisions made by Amgen as applicable on any modifications required to the survey questions and/or response options. Additionally, this final Summary Report, along with the QR Plan and Screener, Recruitment Materials, Discussion Guide used to conduct QR, Interview Transcripts, and the Findings Presentation, will be available for inclusion as part of the submission to the regulatory authorities.

As this research is qualitative and exploratory in nature with a limited sample size, the number of participants who made a particular comment about specific language in the survey questions/response options will not be quantified in the final Summary Report (e.g., # of participants said that this question of the survey was easy to understand). Instead, the qualitative findings will highlight overall, common themes (e.g., most participants felt that...) to help qualitatively inform any revisions to the materials.

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Appendix A: Participant Online Screener

TOPIC: HCP Qualitative Research (QR)

Participant SCREENER

LIST(S): GENERAL POPULATION OF HCPS WHO ARE TREATING PATIENTS WITH PNH AND AHUS.

SUNSHINE REPORTING IS REQUIRED.

PART 1	- INTRODUCTION FOR	OUTBOUND	CALLS
--------	--------------------	-----------------	-------

PART 1 - INTRODUCTION FOR OUTBOUND CALLS:
[IF OUTBOUND CALL] Hello, my name is and I am calling on behalf of [recruitment vendor]. May I speak with? [INSERT CONTACT NAME]
We are contacting you because we are conducting research interviews with healthcare providers to evaluate select survey questions and their response options to evaluate clarity.
[IF OUTBOUND CALL AND VOICEMAIL RECEIVED] Hello, my name is and I am calling on behalf of UBC. I am calling to speak with [INSERT CONTACT NAME]
We are contacting you because we are conducting research interviews with healthcare providers to evaluate select survey questions and their response options. If you are interested in participating, please return the call to [INSERT PHONE NUMBER], ask to speak to [INSERT SCREENER NAME].
[PROCEED TO PART 2 - SCREENING PREAMBLE AND SCREENING QUESTIONS]
PART 1 - INTRODUCTION FOR INBOUND CALLS:
[IF INBOUND CALL IN RESPONSE TO INITIAL OUTREACH] Thank you for your call. My name is Can you please provide me with your first and last name? [CONFIRM NAME IS ON LIST] [IF NAME IS ON THE LIST] I would like to confirm that you are calling about a research interview for survey questions related to a specific medication. (WAIT FOR RESPONSE AND CONTINUE.)
We are contacting you because we are conducting research interviews with healthcare providers to evaluate select survey questions and their response options related to a

medication.

[PROCEED TO PART 2 - SCREENING PREAMBLE AND SCREENING QUESTIONS]

PART 2 - SCREENING PREAMBLE AND SCREENING QUESTIONS:

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[CONTINUE FOR EITHER OUTBOUND OR INBOUND CALL]

This research interview is confidential and is part of a Food and Drug Administration requirement to further understand healthcare providers' knowledge, attitudes and beliefs associated with a medication. It is for informational purposes only and is not an attempt to sell you anything or promote a product.

qualify be a go	this is a convenient time, I would like to ask you a few questions to determine if you qualify for participation in this research study. [IF NOT CONVENIENT ASK: When would be a good time to schedule a few minutes to go through a few screening questions? Call back on DATE: TIME:]								
[ONLIN	E SCREENER]								
[Introd	uction]								
	you for your interest in this research to evaluate select survey questions and their se options related to a medication.								
the foll	ualify and agree to participate in this research study, the answers you provide to wing screening questions will be shared with UBC, the company conducting this h, and Amgen Inc, the sponsor of this survey. We respect that the privacy of your all information is important to you.								
and rep kept co used if reportin Sunshi informa or rent may be	iswers to these survey questions will be combined with answers given by others orted in an anonymous form to the sponsor. All the information you provide will be infidential in accordance with all applicable laws. Your personal information will be we are required to comply with a law or regulation, including without limitation, go payments made to healthcare providers under the Federal Physician Payment and Act. You will not be contacted for marketing purposes based on your personal tion or your answers to the survey. Neither the sponsor nor its contractors will sell your information. Your privacy will be protected; however, research survey records inspected by the regulatory authorities. Your choice to allow the sponsor to use ormation is entirely voluntary but necessary to take part in this research.								
60 min	ualify and agree to participate, the research interview should take approximately utes and we'll work to find an available time that fits your schedule. Following ion of the research interview, you will receive compensation, if eligible, based on ket value for your time and efforts.								
1)	Based on the information given, would you like to proceed with the following questions to determine if you are eligible to participate?								
	□ Yes □ No [TERMINATE]								
2)	What type of healthcare provider are you?								

Doctor of Medicine (MD)

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	☐ Imm☐ Inte☐ Neu☐ Rhe					
	☐ Imm☐ Inte	nunology rnal Medicine irology				
	☐ Hematology/Oncology ☐ Immunology					
2)) What is your primary specialty? (Select one response)					
	 Less than 1 year 1 − 5 years 6 − 10 years More than 10 years 					
-	In total, respons	how many years have you been a healthcare professional? (Select one se)				
		Cancer Atypical Hemolytic Uremic Syndrome Paroxysmal Nocturnal Hemoglobinuria Polymyalgia Rheumatica				
,	select	see or treat patients with the following conditions? Respondents MUST either Atypical Hemolytic Uremic Syndrome AND/OR Paroxysmal nal Hemoglobinuria to continue				
		Physician Assistant (PA) Other (Specify):				
	_	Practitioner (CNP), Clinical Nurse Specialist (CNS), Certified Registered Nurse Anesthetist (CRNA), Certified Nurse-Midwife (CNM).				
		Doctor of Osteopathy (DO) Advanced Practice Registered Nurse (APRN)* including Certified Nurse				

4) Are you or a member of your immediate family currently employed by or consultants of a pharmaceutical company, UBC, or the FDA?

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	☐ Yes☐ No☐ I do		[TERMIN [CONTIN	NUE]					
	[RECC	ORD AN	D CONT	INUE]					
5)	[IF MA	ASSACI	HUSETT	u licensed to S, MINNES FNOT, CON	OTA, NEV	V JERSE	Y, AND/	OR VERM	ONT
5a)	be paid Jersey	d to thos , or Verr	se who a mont. You nterview [ons exist stare licensed to ur opinion is without comp CONTINUE TERMINATE	o practice i valuable to pensation? TO Q6]	n Massad	chusetts, l	Minnesota,	New
6)	review	materia	-	nterview, yo you have a c terview?			=		
		Yes No	г	TERMINATE	[]				
7)			ollowing all that ap	best describe	es the type	of health	ncare faci	lity in which	ı you
		Clinic-b Hospita Hospita Univers Sleep (Govern	pased prival-based prival-based sity-or-me Center (A	vate practice vate practice, non practice, teadedical-school academic) hospital (Gopecify)	(Commun i-teaching l ching hosp I based hos	ity) nospital ((ital (Comi spital (Aca	munity)	y)	

ELIGIBILITY SCRIPT:

Thank you for your time; you qualify for participation in this research.

The interview will last for approximately **60 minutes**, will be conducted by telephone and online, and will be audio taped for research purposes. This research is confidential and is for informational purposes only; it will not be used for commercial purposes. Your answers will be combined with answers given by other people participating in these interviews. Your answers and all information collected during the interviews will be shared with the study team involved in these research interviews and may also be shared with the

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regulatory authorities. Your answers will remain anonymous (they will not be attributed to you).

If during the interview you mention a product complaint or an adverse event related to a product that is marketed by the sponsor even if you have already reported it to the sponsor or regulatory authorities, you acknowledge that the moderator will ask you to confirm if you are willing to receive follow-up from the sponsor in order to discuss this further. A product complaint or adverse event report will be provided to the sponsor. The information within this report will only be used by the sponsor to satisfy its internal or regulatory requirements relating to the quality or safety of its product. You understand that your personal information will only be included in this report if you provide your consent.

[DISPLAY IF RESPONSE TO QUESTION 5 ≠ MASSACHUSETTS, MINNESOTA, NEW JERSEY, AND/OR VERMONT]

You are eligible to receive compensation for your time and effort for completing the interview. Upon receipt of the Interview Release Form and completion of the interview, you may elect to receive compensation based on fair market value for your time in participating:

If Physician: \$350If NP/PA: \$300

Would you like to receive compensation?

□ Yes

■ No

[RECORD AND CONTINUE TO SCHEDULE]

[DISPLAY IF RESPONSE TO QUESTION 5a = YES]

Based on the response(s) to the question above, we want to remind you that you are not eligible for compensation for your time and effort in completing the Interview; but we do appreciate your participation!

[CONTINUE TO SCHEDULE]

SCHEDULING:

Now I would like to schedule your interview. These are the dates and times that are currently available. Please let me know what date and time works best with your schedule. [INTERVIEWER: review calendar of availability to confirm interview date and time.]

Thank you again for your time. I will send you a confirmation letter with information about the interview session, Interview Release Form, and instructions for returning these documents.

TERMINATION LANGUAGE TO BE USED THROUGHOUT

Thank you so much for your time. Based on one [or more] of your answers, you do not qualify for this research study.

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STUDY SPECIFICATIONS SUMMARY

ATTEMPT TO RECRUIT 12 HCPs WHO:

- See/treat patients with PNH and aHUS
- Are located in the United States
- Include a mix of years in practice, and practice setting
- Do not work for or have immediate family who work for or consultants of a pharmaceutical company, UBC, or the FDA
- Have access to a computer/tablet with access to the internet during the interview
- Are willing and able to sign an Interview Release Form to participate in the research

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ANNEX 3: HEALTHCARE PROVIDER QUESTIONNAIRE

Survey Legend

- * Indicates field is required.
- ------indicates beginning and end of a unique page.
- [PAGE TITLE] indicates new page/ screen (only specify if needed).
- **[PROGRAMMER]** is used to indicate directions to the programmer and is set in bold, red, uppercase letters between square brackets.
- (INTERVIEWER) is used to indicate directions to the phone interviewer and is set in bold, blue text between parentheses. This text appears when content is to be administered by phone only (for example, spontaneous AE reporting).
- [<MODALITY>] indicates a section is to be displayed for a specific modality (i.e., Online, Phone).
- [BEGIN <Section Description>] and [END <Section Description>] represents the beginning and the end of a section (for example, Welcome Page).
- [BEGIN INCLUSION/EXCLUSION QUESTIONS] and [END INCLUSION/EXCLUSION QUESTIONS] are displayed next to responses that represent the beginning and the end of the inclusion/exclusion survey content.
- [BEGIN KEY MESSAGE DOMAIN AND SAFE USE QUESTIONS] and [END KEY MESSAGE DOMAIN AND SAFE USE QUESTIONS] are displayed next to responses that represent the beginning and the end of the main survey content.
- **[TERMINATE]** is displayed next to responses that should cause the survey to end. The following termination language will be programmed into the survey or read by the interviewer unless a different language is specified with the guestion.

Thank you very much for your time today. Based on your answer, you are not eligible to take this survey. We appreciate your interest in the survey.

- **[RANDOMIZE LIST]** is inserted before questions to indicate to the programmer that the responses should be randomized for both the online and telephone survey. Responses such as "I don't know/I don't remember," "Prefer not to answer," All of the above" or "None of the above" will always appear at the end of the randomized responses, where applicable.
- **[KEEP IN POSITION]** Indicates that the option / choice will remain in position. Note this is only needed if the list of randomized.
- [MAKE URL ACTIVE] Used to indicate that the URL provided should be made into an active link.
- **[EXCLUSIVE]** Used to indicate that the option / choice should unselect all other options / choices in the question.
- indicates that the free text field will be included in the Free Text Review module.
- [ANSWER TO Q#] indicates dynamic text is present. This instruction should be placed on the question where the dynamic text should display. An instruction does not need to be added to the question from which the dynamic text is taken.
- **[TEXT LEN##]** indicates a single line text box with a max length of the number specified. Default is 200 unless otherwise noted.
- [MULTI LEN##] indicates a single line text box with a max length of the number specified. Default is 200 unless otherwise noted.

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• **[NUM LEN##]** indicates a single line text box with a max length of the number specified numeric values only.

• [DROP-DOWN LIST INPUT WITH US STATES/TERRITORY TABLE] indicates to the programmer that the response should be a drop-down list containing the states in the table below.

Alabama	Guam	Mississippi	Ohio	Virginia
Alaska	Hawaii	Missouri	Oklahoma	Washington
American	Idaho	Montana	Oregon	West Virginia
Samoa	Illinois	Nebraska	Pennsylvania	Wisconsin
Arizona	Indiana	Nevada	Puerto Rico	Wyoming
Arkansas	Iowa	New	Rhode Island	
California	Kansas	Hampshire	South Carolina	
Colorado	Kentucky	New Jersey	South Dakota	
Connecticut	Louisiana	New Mexico	Tennessee	
Delaware	Maine	New York	Texas	
District of	Maryland	North Carolina	US Virgin	
Columbia	Massachusetts	North Dakota	Islands	
Florida	Michigan	Northern	Utah	
Georgia	Minnesota	Mariana Islands	Vermont	

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The following is used to categorize survey populations into standard geographic regions, but it is not displayed in the survey.

Geographic Distribution (based on address)¹: Northeast, Midwest, South, and West regions

Northeast Region

New England Division - ME, NH, VT, MA, RI, CT Middle Atlantic Division - NY, NJ, PA

Midwest Region

East North Central Division - OH, IN, IL, MI, WI

West North Central Division - MN, IA, MO, ND, SD, NE, KS

South Region

South Atlantic Division - DE, MD, DC, VA, WV, NC, SC, GA, FL

East South-Central Division - KY, TN, AL, MS

West South-Central Division - AR, LA, OK, TX

West Region

Mountain Division - MT, ID, WY, CO, NM, AZ, UT, NV

Pacific Division - WA, OR, CA, AK, HI

Other

Puerto Rico, Northern Mariana Islands, US Virgin Islands, American Samoa, and Guam

¹US Census Bureau, last revised 01 April 2020

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[BEGIN SURVEY HELP SECTION] If you have questions or problems with the survey, please contact the BKEMV Risk Evaluation and Mitigation Strategy (REMS) Knowledge, Attitudes, and Behavior (KAB) Survey Coordinating Center at [XXX] [END SURVEY HELP SECTION]

[BEGIN WELCOME PAGE]

Welcome! Thank you for deciding to participate in this very important survey. This survey should take approximately 25 minutes to complete.

If you are eligible to take the survey, please complete all survey questions as presented to you. If you are eligible to receive compensation and elect to receive compensation for participation in the survey (if eligible), you will be asked to provide your medical license information and your contact information [e.g., full name and mailing address].

You will be offered fair market value compensation in the amount of \$175.00 for your time spent completing the survey; however, you can choose not to be paid and still complete the survey. Please be aware for the purposes of this survey, it has been determined that for healthcare providers who are licensed and practice in Minnesota, Massachusetts, New Jersey, or Vermont, you will not be compensated for survey participation, but you are still welcome to participate.

Your contact information will be used to provide you with compensation, if eligible, the correct answers to important survey questions once you complete the survey. Your contact information may also be used if it is required to comply with federal or state law or regulation, including without limitation, reporting compensation made to healthcare providers under the Federal Physician Payment Sunshine Act provisions.

Consider the following important information before you start the survey:

- The application will time out after 30 minutes of inactivity. We ask that you please consider completing this survey in one sitting. If your session times out, and you wish to continue via telephone, please contact the BKEMV Survey Coordinating Center for assistance.
- Payment is provided only for surveys that meet a completed status.

If you are ready, click Continue to begin the survey. If you do not have enough time now, click Return Later and return to this site when it is convenient for you.

Note: Do not use the browser's Back button while entering data.

[END WELCOME PAGE]

[BEGIN SURVEY CONTENT]

[BEGIN TELEPHONE/ONLINE PREAMBLE]

Thank you for your interest in this research survey about BKEMV. [BEGIN ONLINE] Before you begin, [END ONLINE] [BEGIN TELEPHONE] Before we begin, [END TELEPHONE] we would like to share some important information about this survey which is being conducted by UBC on behalf of Amgen Inc., the license holder for BKEMV (hereinafter referred to as Amgen). Your participation helps to meet the requirements set forth by the United States Food and Drug Administration that include the assessment of awareness and understanding of the risks associated with BKEMV and the mitigation strategies as outlined in the BKEMV Risk Evaluation and Mitigation Strategy (hereinafter referred to as REMS) goal and objectives. [BEGIN TELEPHONE] The survey will take approximately 25 minutes. [END TELEPHONE]

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Product: BKEMV™ (eculizumab-aeeb) Protocol Number: 20240216 V2.0

Survey participation is voluntary. There are no known risks to you in taking this survey.

You have the option not to participate. You may refuse to take part or withdraw at any time without penalty. You will not directly benefit; however, information may be learned that could benefit others in the future. Your answers to the questions or your decision to take part in the survey or not to take part in the survey will not affect your ability to prescribe BKEMV. You will be informed in a timely manner if new information becomes available that may influence your willingness to participate in the survey.

How We Use Your Information

Your answers to the survey questions will be combined with answers given by other people taking the survey. All answers will be collected by UBC, compiled, and reported in anonymous form to Amgen and the United States Food and Drug Administration. Your name will not be used in any report. If you are eligible to take the survey, complete all the survey questions, and provide your full name, medical license information, and your mailing address, you will receive compensation, if eligible, for participation in the survey. Healthcare providers who are not permitted to receive payment based on the state in which they are licensed, and practice will not receive payment but are still eligible to participate. For the purposes of this survey, it has been determined that healthcare providers who are licensed and practicing in Minnesota, Massachusetts, New Jersey, or Vermont will not be compensated for survey participation but will be welcome to participate. The amount of the compensation does not consider the volume or value of any referrals or business otherwise generated by you. There is no cost to you.

Your name and address will be used to send your compensation, if you are determined eligible and complete all survey questions. The mailing will be sent following the close of the survey which will be on or about March 29, 2026, and will also include a Thank You Letter, and a copy of the correct answers to important survey questions about the safe use of BKEMV. Your contact information may also be used if it is required to comply with federal or state law or regulation, including without limitation, reporting compensation made to healthcare providers under the Federal Physician Payment Sunshine Act provisions. Your contact information may also be used if Amgen has any questions about your survey responses.

For survey respondents who elect not to receive payment but choose to participate, or for those who are not permitted to receive payment and still participate, if you are determined eligible to participate and complete all survey questions, you will still be asked to provide your full name and your mailing address, so we can send you a copy of materials previously listed. You can choose to decline your contact information; thus, you will not receive any follow-up information.

Providing a telephone number is optional. Your telephone number will be used only if there are any questions about your survey answers.

Should you choose to participate in the survey, you agree that any information you provide during the survey may be used or shared with Amgen.

How We Protect Your Privacy

UBC, on behalf of Amgen, respects that the privacy of your personal information is important to you. To the extent permitted by applicable laws and regulations, the records identifying you will not be made publicly available. You will not be contacted for marketing purposes based on the personal information you provide during the survey or based on your answers to the survey questions. Neither Amgen nor its contractors will sell, transfer, or rent your information. Please note that research survey records may be inspected by

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the United States Food and Drug Administration. Your choice to allow Amgen to use your information is entirely voluntary but necessary to take part in this survey.

Please be assured that your contact information and your individual responses will be kept strictly confidential. As noted above, however, information you provide will be combined with information and survey responses provided by others and shared or reported in anonymous form. By participating in the survey, you acknowledge and agree that such combined anonymous data may be shared with and used by Amgen and disclosed to the United States Food and Drug Administration and a company called Sterling Institutional Review Board. By participating, you also acknowledge that the United States Food and Drug Administration and/or Institutional Review Board may inspect the records related to this survey which may include your individual responses. The results of the survey, including your responses, may be presented at meetings or in articles written about the survey. If the results of the survey, including your research information, are published, your identity will remain confidential.

How to Learn More about This Survey

If you have questions about the survey or problems with the survey, please contact the BKEMV REMS Knowledge, Attitudes, and Behavior (hereinafter referred to as KAB) Survey Coordinating Center at [XXX].

Taking the Survey

[BEGIN ONLINE] If you are eligible to take the survey, please complete all the survey questions. Please note that once you have answered a question and moved on, you cannot go back and change your answers. Please note your survey cannot be reset if you have started answering any questions. If you exit this survey prior to completion, you will need to contact the BKEMV REMS KAB Survey Coordinating Center for assistance in finishing the survey via telephone. If you are eligible to receive compensation and elect to receive compensation for participation in the survey, if eligible, you will be asked to provide your contact information. [END ONLINE]

[BEGIN TELEPHONE] Acronyms are being used throughout this survey for ease of reading and clarity with the questions/statements being presented. If during the survey you are uncertain of an acronym, please ask me to provide the word or words that support the acronym to you prior to moving to the next question.

Once I have read the question and you have provided an answer, I cannot go back and change the answers you have provided; therefore, please carefully respond to each question. Once you answer the first question and you end this call prior to completion, the only way to finish it is by returning a call to the BKEMV REMS KAB Survey Coordinating Center to finish via telephone. If you are eligible to receive compensation and elect to receive compensation for participation in the survey, if eligible, you will be asked to provide your contact information.

[END TELEPHONE] Thank you for your participation in this survey.

[END TELEPHONE/ONLINE PREAMBLE]

[BEGIN INCLUSION/EXCLUSION QUESTIONS]

Your agreement to participate in this survey confirms mutual understanding in 1.* connection with completion of the survey and the fair market value of the payment to be rendered in connection with those services.

Do you agree to participate in this survey about BKEMV?

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	O	Yes No [TERMINATE]
1a.*	Have today O O O SIN TEI for clar IS = Ri	NLY AFTER WAVE 1] you ever taken part in a REMS and KAB survey about BKEMV prior to Yes No I don't know _EPHONE] As a reminder, the text below is only needed if respondent ity around acronym. [END TELEPHONE] sk Evaluation and Mitigation Strategy; KAB = Knowledge, Attitudes, and
1b.*	BKEN	you ever taken part in a research interview (not including surveys) about IV prior to today? You would have participated in this research interview in st 2024. Yes No I don't know
1c.*	Wher	was the last time you prescribed BKEMV to a patient?
A B C D E F G	0 0 0 0	Less than 1 month ago 1 to 3 months ago 4 to 6 months ago 7 months to 1 year ago More than 1 year ago Never I don't remember [TERMINATE]
for cla	a cons O O O SIN TEI arity are	ou and/or any of your immediate family members currently working for or as sultant to Amgen, UBC, or the FDA? Yes [TERMINATE] No I don't know [TERMINATE] EPHONE] As a reminder, the text below is only needed if respondent asks ound acronym. [END TELEPHONE] *UBC = United BioSource LLC; FDA = rug Administration
2a.*	given	ou have any conflicts of interest that may affect your answers to this survey it is being conducted of BKEMV REMS-certified HCPs to assess their edge of important safety information associated with the use of BKEMV?
	O O	Yes [TERMINATE] No I don't know [TERMINATE]

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[BEGIN TELEPHONE] As a reminder, the text below is only needed if respondent asks for clarity around acronym. [END TELEPHONE] *HCPs = healthcare providers; REMS = Risk Evaluation and Mitigation Strategy [BEGIN TELEPHONE] (INTERVIEWER: IF RESPONDENT ASKS, "WHAT IS A CONFLICT OF INTEREST," LET THE RESPONDENT KNOW THAT YOU CANNOT ELABORATE ON THE REFERENCE TO CONFLICT OF INTEREST AS IT IS PARTICIPANT TO INTERPRETATION. ALL THAT CAN BE PROVIDED IS THE QUESTION AS STATED.) [END TELEPHONE]

- 3.* In which state or United States territory do you work? [DROP-DOWN LIST INPUT WITH STATES TABLE]
- Please provide your medical license number. [TEXT LEN50]

[BEGIN REMINDER MESSAGE 1]

Please note that if you do not provide a valid medical license number, follow-up will be required to confirm the information, or you may not be eligible to receive compensation. This information will be used by Amgen to report the compensation as required by federal and state laws.

[END REMINDER MESSAGE 1]

[BEGIN REMINDER MESSAGE 2 – [DISPLAY IF Q63 IS NONE OF ('Massachusetts', 'New Jersey', 'Vermont', 'Minnesota')]

If you are <u>licensed and practicing</u> in Massachusetts, Minnesota, New Jersey, or Vermont, just a reminder that we appreciate your participation; however, no compensation for completion of the survey will be provided.

[END REMINDER MESSAGE 2]

[DISPLAY IF Q3 IS NONE OF ('Massachusetts', 'New Jersey', 'Vermont', 'Minnesota')]

- 4.* If you choose to be paid for completing the survey, your full name, and your mailing address, are required for compensation. You may participate in the survey even if you choose not to be paid. Please select <u>one option</u> about your participation in this survey.
- A O I will participate in the survey and provide my contact information.
- B O I will participate in the survey but choose not to be paid.
- C I do not wish to participate in the survey. [TERMINATE]

- 4a.* Please select <u>one option</u> about your participation in this survey.
- A O I will participate in the survey and understand I will not receive compensation.
- B O I do not wish to participate in the survey. [TERMINATE]

[END INCLUSION/EXCLUSION QUESTIONS]

- 5.* What type of healthcare provider are you? Please select one response.
- A O Doctor of Medicine
- B O Doctor of Osteopathy
- C Advanced Practice Registered Nurse
 *Includes certified nurse practitioner, clinical nurse specialist, certified registered nurse anesthetist, and certified nurse midwife

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D E	O	Physician Assistant Other						
IDISP	LAY IF	Q5 = E]						
•		ify: [TEXT LEN200] ◎						
rieas	se spec							
5a.*	about	Have you previously participated in a survey evaluating knowledge that inquired about a meningococcal (<i>Neisseria meningitidis</i>) infection medication that was not BKEMV?						
	Q	Yes						
	O	No						
	O	I don't know						
guess [END	do not the at PREAL	t know the answer to a question, please select 'I d nswer. MBLE 2] MESSAGE DOMAIN AND SAFE USE QUESTIONS		ow' rather	than			
6.*	Sel	ect True, False, or I don't know for each statement. [RANDOMIZE]	True	False	l don't know			
A*	hav pati	-threatening and fatal meningococcal infections e occurred in both vaccinated and unvaccinated ents treated with complement inhibitors such as EMV.	•	•	O			
В*	The in p	e initiation of BKEMV treatment is contraindicated atients with unresolved serious <i>Neisseria</i>	•	•	O			

doctor visit if signs and symptoms of serious meningococcal infection occur.

0

O

O

O

0

0

O

O

0

O

0

O

BKEMV <u>can</u> be started on patients with unknown

Vaccination does <u>not</u> eliminate the risk of serious

meningococcal infections, despite development of

symptoms of serious meningococcal infection and instruct patients to seek immediate medical care if

HCPs should instruct patients to wait until their next

vaccination status without antibacterial drug

HCPs should inform patients of the signs and

antibodies following vaccination.

these signs and symptoms occur.

C*

D*

E*

prophylaxis.

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	Select the <u>best</u> option. Complete or update meningococcal vaccination according to the current ACIP recommendations for patients receiving a complement inhibitor. [RANDOMIZE]							
A B C D	0 0 0	At least 2 weeks prior to administering to At least 8-10 weeks prior to administering to There is no requirement for vaccination None of the above [KEEP IN POSITION IN POSITI	ng the first o					
E	O INI TELE	I don't know [KEEP IN POSITION] [PHONE] The text below is only needed	if roopende	nt ooko for d	olority.			
aroun	d acron	ym. [END TELEPHONE]	•	TIL daks for t	Siarity			
* ACI	P = Adv	isory Committee on Immunization Practi	ces					
8.*		e select the <u>best</u> option. Before starting tr nated against which of the following: [RANDOMIZE]	eatment wit	n BKEMV, p	patients must be			
Α	•	Meningococcal serogroups A, C, W, Y						
В	O	COVID-19						
С	O	Varicella						
Е	O	None of the above [KEEP IN POSITION	N]					
D	•	I don't know [KEEP IN POSITION]						
aroun	d acron	EPHONE] The text below is only needed ym. [END TELEPHONE]	if responde	nt asks for o	clarity			
	VID 10	= coronavirus disease 2019						
9.*	Pleas	= coronavirus disease 2019 e select the <u>best</u> option. Before starting trolved serious meningococcal infections a [RANDOMIZE]		h BKEMV, a	essess the patient			
9.* A	Pleas	e select the <u>best</u> option. Before starting tr olved serious meningococcal infections	and:		 essess the patient			
	Pleas unres	e select the <u>best</u> option. Before starting trolved serious meningococcal infections a [RANDOMIZE]	and: vith these in	fections	 essess the patient			
Α	Pleas unres	e select the <u>best</u> option. Before starting trolved serious meningococcal infections a [RANDOMIZE] Do not initiate BKEMV in any patient was selected.	and: vith these int	fections	 assess the patient			
A B	Pleas unres	e select the <u>best</u> option. Before starting trolved serious meningococcal infections a [RANDOMIZE] Do not initiate BKEMV in any patient was Begin treatment with BKEMV and mon	and: with these int itor the pation	fections ent				
A B C	Please BKEM	e select the <u>best</u> option. Before starting trolved serious meningococcal infections a [RANDOMIZE] Do not initiate BKEMV in any patient was Begin treatment with BKEMV and monopole None of the above [KEEP IN POSITION]	and: with these infinition the pation N] ach option.	fections entAccording t	 o the			
A B C D	Please BKEM	e select the <u>best</u> option. Before starting trolved serious meningococcal infections a [RANDOMIZE] Do not initiate BKEMV in any patient was Begin treatment with BKEMV and mon None of the above [KEEP IN POSITION] I don't know [KEEP IN POSITION] e select True, False, or I don't know for e V REMS, <u>before</u> treatment initiation with	and: with these infinition the pation N] ach option.	fections entAccording t	 o the			

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B*					
	menin the cu menin	s the patient's vaccination status for gococcal and vaccinate according to rrent ACIP recommendations for gococcal vaccinations in patients ing a complement inhibitor	•	•	O
C*		sel the patient using the Patient Safety	•	•	O
IBFGI		and Patient Guide. EPHONE] The text below is only needed if	respondent	asks for cla	ritv
around	d acron	ym. [END TELEPHONE]	-		-
	⊃ = Ad\ tion Str	risory Committee on Immunization Practice	es; REMS =	Risk Evalua	ition and
11.*		ng treatment with BKEMV, patients should ngococcal infection.	be monitore	d for early s	signs of
	O	True			
	\mathbf{C}	False			
	O	I don't know			
12.*		s are required to counsel patients on how to ymptoms of meningococcal infection. True False I don't know	o recognize	and respon	d to the sign
13.	Which				
10.	*******	of the following should HCPs do <u>during</u> the	e patient's tr	eatment:	
10.	VVIIIOI	of the following should HCPs do <u>during</u> the	e patient's tr	eatment: False	l don't know
10.	A*				
		[RANDOMIZE] Assess patients for early signs and symptoms of meningococcal infection Evaluate each patient's vaccination status, as needed, according to the current ACIP recommendations for meningococcal vaccinations for patients	True	False	know
	A*	[RANDOMIZE] Assess patients for early signs and symptoms of meningococcal infection Evaluate each patient's vaccination status, as needed, according to the current ACIP recommendations for meningococcal vaccinations for patients receiving a complement inhibitor Evaluate the patient immediately if	True	False O	know
	A* B*	[RANDOMIZE] Assess patients for early signs and symptoms of meningococcal infection Evaluate each patient's vaccination status, as needed, according to the current ACIP recommendations for meningococcal vaccinations for patients receiving a complement inhibitor Evaluate the patient immediately if infection is suspected	True	False O	know
[BEGI around	A* B* C* N TELI d acron	[RANDOMIZE] Assess patients for early signs and symptoms of meningococcal infection Evaluate each patient's vaccination status, as needed, according to the current ACIP recommendations for meningococcal vaccinations for patients receiving a complement inhibitor Evaluate the patient immediately if infection is suspected EPHONE] The text below is only needed if ym. [END TELEPHONE]	True O O respondent	False O O asks for cla	know
[BEGI around * ACII	A* B* C* N TELI d acron P = Adv	[RANDOMIZE] Assess patients for early signs and symptoms of meningococcal infection Evaluate each patient's vaccination status, as needed, according to the current ACIP recommendations for meningococcal vaccinations for patients receiving a complement inhibitor Evaluate the patient immediately if infection is suspected EPHONE] The text below is only needed if	True O O respondent	False O O asks for cla	know

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15.*	Inform patients to seek immediate medical attention if they develop any of the following signs and symptoms of serious meningococcal infections: fever, fever and a rash, fever with high heart rate, headache with nausea or vomiting, headache and fever, headache with stiff neck or stiff back, confusion, eyes sensitive to light, and muscle aches with flu-like symptoms.
Α	O True
В	O False
С	O I don't know
16.*	In patients being treated for serious meningococcal infection, consider interruption of BKEMV based on the patient's disease status. O True O False O I don't know
17.*	If urgent BKEMV therapy is indicated in a patient who is not up to date with meningococcal vaccines, according to ACIP recommendations, provide the patient with antibacterial drug prophylaxis. O True O False O I don't know
around	TELEPHONE] The text below is only needed if respondent asks for clarity acronym. [END TELEPHONE] = Advisory Committee on Immunization Practices
18.*	Counsel patients on the need to carry the BKEMV Patient Safety Card at all times during treatment, and for 3 months after the last dose. O True O False O I don't know
19.*	Closely monitor patients for early signs and symptoms of meningococcal infections and admit patients for a 5-day observation if infection is suspected. O True O False O I don't know

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20.	BKEMV, a complement inhibitor, increase a patient's susceptibility to serious, life
20.	threatening, or fatal infections caused by meningococcal bacteria.

O True

O False

O I don't know

[END KEY MESSAGE DOMAIN AND SAFE USE QUESTIONS]

[BEGIN PREAMBLE 3]

The next set of questions is about the requirements of the BKEMV REMS.

[END PREAMBLE 3]

[BEGIN TELEPHONE] The text below is only needed if respondent asks for clarity around acronym. **[END TELEPHONE]**

*REMS = Risk Evaluation and Mitigation Strategy

[DISPLAY IF QUESTION 1c DOES NOT = NEVER]

21.* Please respond by answering Always, Often, Sometimes, Rarely, Never or Not currently prescribing BKEMV.

	Always (100%)	Often (75%)	Sometimes (50%)	Rarely (25%)	Never (0%)	Not currentl y prescrib ing BKEMV
How often do you inform patients about the serious risk of BKEMV?	0	0	0	0	0	0

[DISPLAY Q21 If 'Often', OR 'Sometimes', OR 'Rarely', OR 'Never' ARE SELECTED]

21a.*	se select all that apply. Please tell us why you not always inform patients the serious risk of BKEMV?
	Appointments with my patients are not long enough to provide this information.
	Another staff member in my office provides this counseling to the patient.
	The patient receives a copy of the Patient Guide, which includes information about the serious risk of BKEMV.
	It is unnecessary since the patient receives a copy of the Medication Guide with their BKEMV, which includes this information.
	The Patient Guide is not in a language my patients understand.
	Other

[DISPLAY IF Q21a CONTAINS("Other")]

*Please specify: [TEXT LEN200] @

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Please respond by answering Always, Often, Sometimes, Rarely, Never, or Not currently prescribing BKEMV.

	Always (100%)	Often (75%)	Sometime s (50%)	Rarel y (25%)	Never (0%)	Not currently prescribin g BKEMV
How often you do educate patients about serious meningococcal infections?	0	•	•	0	0	0

[DISPLAY Q22 If 'Often', OR 'Sometimes', OR 'Rarely', OR 'Never' ARE SELECTED]

22a.*	se select all that apply. Why do you not always educate patients about us about symptoms of severe meningococcal infection?
	Appointments with my patients are not long enough to provide this information.
	Another staff member in my office provides this counseling to the patient.
	It is unnecessary since the patient receives a copy of the Medication Guide with their BKEMV, which includes this information.
	The Patient Guide is not in a language my patients understand.
	Other

[DISPLAY IF Q22a CONTAINS("Other")]

*PI	ease	specify:	ITFXT	ΙFΙ	N2001	(3)

Please respond by answering Always, Often, Sometimes, Rarely, Never, or Not currently prescribing BKEMV.

	Alway s (100%)	Often (75%)	Sometime s (50%)	Rarely (25%)	Never (0%)	Not currently prescribin g BKEMV
How often do you instruct patients to seek medical attention if they have signs or symptoms serious meningococcal infections?	0	0	•	O	•	•

[DISPLAY Q23 If 'Often', OR 'Sometimes', OR 'Rarely', OR 'Never' ARE SELECTED]

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23a.*	med	Please select all that apply. Why do you not always instruct patients to seek medical attention if they have signs or symptoms of severe meningococcal infection?				
		Appointments with my patients are not long enough to provide this information.				
		Another staff member in my office provides this instruction to the patient.				
		The patient receives a copy of the Patient Guide, which includes				
		information about seeking medical attention if they have signs or symptoms of severe meningococcal infection.				
		It is unnecessary since the patient receives a copy of the Medication Guide with their BKEMV, which includes this information.				
		The Patient Guide is not in a language my patients understand.				
		Other				
[DISPI	LAY IF (Q23a CONTAINS("Other")]				
*Pleas	e specify	y: [TEXT LEN200] ®				
rBEGI	N PREA	MBLE 4]				
-		stions are about informational materials for BKEMV and the BKEMV				
REMS		stions are about informational materials for Bitchiv and the Bitchiv				
[END	PREAM	BLE 4]				
IBEGI	N TELEI	PHONE] As a reminder, the text below is only needed if respondent asks				
		nd acronym. [END TELEPHONE]				
		Evaluation and Mitigation Strategy				
24.*		select all that apply. From what sources have you received information 3KEMV?				
		JS Food and Drug Administration				
		BKEMV US Prescribing Information				
		BKEMV Medication Guide				
		Medical Journals				
		Colleagues				
		Professional Conferences/Seminars Epocrates.com				
		Physicians' Desk Reference				
		PubMed				
		Sales Professional				
		Medical Science Liaison				
		BKEMV REMS Patient Guide				
		BKEMV REMS Patient Safety Card				
		BKEMV REMS Prescriber Enrollment Form BKEMV REMS Healthcare Provider Safety Brochure				
		SKEMV REMS realificate Provider Salety Brochure				
	_	BKEMV website				
		Other				
[DISPI	LAY IF (Q24 CONTAINS("Other")]				
		y: [TEXT LEN200] ◎				

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25.*	Prior to today, were you aware of the United States Prescribing Information including the Medical Guide for BKEMV? O Yes O No
26.*	Prior to today, were you aware of the BKEMV Healthcare Provider Safety Brochure? O Yes O No
27.*	Prior to today, were you aware of the BKEMV Patient Safety Card?
	O Yes O No
28.*	Prior to today, were you aware of the BKEMV REMS website?
	O Yes
	O No
29.*	Prior to today, were you aware of the Patient Guide?
	O Yes
	O No
30.*	Do you have any questions about the BKEMV REMS educational materials or the BKEMV REMS requirements? O Yes O No
for cla	N TELEPHONE] As a reminder, the text below is only needed if respondent asks rity around acronym. [END TELEPHONE] S = Risk Evaluation and Mitigation Strategy
[DISP	LAY IF Q30 = YES]
31.*	What are your questions?
	[MULTI LEN200]
- There	N DEMOGRAPHICS PREAMBLE 1] are just a few more questions to help combine your answers with other care providers' answers.
[END	DEMOGRAPHICS PREAMBLE 1]
32.*	In total, how many years have you been a healthcare professional?
	 Less than 1 year 1 to 5 years 6 to 10 years More than 10 years

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33. What is your primary medical specialty?
O Hematology/Oncology
O Immunology
O Internal Medicine
O Nephrology
O Neurology O Rheumatology
O Other
[DISPLAY IF Q33 CONTAINS ("Other")]
*Please specify: [TEXT LEN200] •
[END SURVEY CONTENT] [END ONLINE/TELEPHONE SURVEY CONTENT]
[TELEPHONE]
[BEGIN AE]
course of this interview. Upon completion, please complete the BKEMV Reportable Event Form and email it to the KAB Ops Team at kab_operational_team@ubc.com and copy the Call Center Manager.) O Yes O No [END AE] [DISPLAY REMAINDER OF PAGE IF AE = Yes] *Enter Safety Adverse Event Verbatim [MULTI LEN 200] (INTERVIEWER: Indicate to the respondent that someone may call back to ask questions about the information provided during the survey.)
[BEGIN ONLINE] 34.* Click here to download the correct answers to the important survey questions for the BKEMV HCP KAB Survey. [DISPLAY 'HCPCorrectAnswers.pdf' IN NEW WINDOW UPON HYPERLINK SELECTION]
Click Next to continue. [END ONLINE]
[BEGIN ONLINE]
35.* Click <u>here</u> to locate all REMS educational materials, including the Prescribing Information and the Medication Guide for BKEMV.
[DISPLAY 'https://www.BKEMVREMS.com' IN NEW WINDOW UPON HYPERLINK SELECTION] Click Next to continue. [END ONLINE]
[BEGIN CLOSING 1 – DISPLAY IF Q4 = A]

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We would like to send you \$175.00 as fair market value compensation for your time spent participating in the survey and the correct answers to important survey questions at the time the survey closes, which is approximately March 29, 2026. We need your full name and mailing address to do so. If you do not provide this information, you will not receive compensation, or the educational materials listed above. [END CLOSING 1]

information, you will not receive compensation, or the educational materials listed above. [END CLOSING 1]
Do you agree to give us your full name and mailing address so we can send you \$175.00 and the BKEMV educational materials? O Yes O No
[DISPLAY IF Q36 = "Yes"] Please note that payment processing begins upon survey close which is targeted to be on or about March 29, 2026. Please allow 4-6 weeks for processing.
[BEGIN ONLINE] Click Next to continue. [END ONLINE]
[BEGIN CLOSING 1A - DISPLAY IF Q4 = B OR Q4a = A]
We would like to send you a copy of the correct answers to important survey questions at the time the survey closes, which is approximately March 29, 2026, but we need your full name and mailing address to do so.
[END CLOSING 1A]
Do you agree to give us your full name and mailing address so we can send you a copy of the correct answers to the survey questions? O Yes O No
[BEGIN ONLINE] Click Next to continue. [END ONLINE]
[BEGIN CLOSING 2]
We would also like to ask for your telephone number. Providing a telephone number is optional. Your telephone number will only be used if any follow-up is required. It will not be used for any telemarketing or shared outside the staff of this survey.
[END CLOSING 2]
Do you want to provide your telephone number?
O Yes O No
[BEGIN ONLINE] Click Next to continue. [END ONLINE]

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[BEGIN CONTACT INFORMATION – DISPLAY IF Q36 = YES OR Q37 = YES OR Q38 YES]

Because you have agreed to provide your contact information, please provide the following:

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q36 = YES OR Q37 = YES]

The required constraint only is applied if: [InSurveyFlow] Equal to True FIRST NAME [TEXT LEN50]

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q36 = YES OR Q37 = YES]

The required constraint only is applied if: [InSurveyFlow] Equal to True LAST NAME [TEXT LEN50]

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q36 = YES OR Q37 = YES]

The required constraint only is applied if: [InSurveyFlow] Equal to True ADDRESS [MULTI LEN200]

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q36 = YES OR Q37 = YES]

The required constraint only is applied if: [InSurveyFlow] Equal to True CITY [TEXT LEN50]

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q36 = YES OR Q37 = YES]

The required constraint only is applied if: [InSurveyFlow] Equal to True STATE [DROP-DOWN LIST INPUT WITH STATES TABLE]

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q36 = YES OR Q37 = YES]

The required constraint only is applied if: [InSurveyFlow] Equal to True [EDIT CHECK: NUMERIC ONLY; MUST BE 5-DIGITS]
ZIP CODE [TEXT LEN5]

The required constraint only is applied if: [InSurveyFlow] Equal to True [EDIT CHECK: NUMERIC ONLY]

[INITIAL VALUE: Q5a]

LICENSE INFORMATION [TEXT LEN50]

The field is displayed if: [InSurveyFlow] Equal to FALSE OR [Q38 = YES] The required constraint only is applied if: [InSurveyFlow] Equal to True [EDIT CHECK: NUMERIC ONLY; MUST BE 10-DIGITS]

TELEPHONE [TEXT LEN10]
[END CONTACT INFORMATION]

[BEGIN END OF SURVEY MESSAGE]

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[END END OF SURVEY MESSAGE] [END SURVEY CONTENT]

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ANNEX 4: RECRUITMENT MATERIALS

Informational Letter to Healthcare Provider

[CURR DATE]

[HEALTHCARE PROVIDER_FIRST_NAME] [HEALTHCARE PROVIDER _LAST NAME], [TITLE]

[HEALTHCARE PROVIDER STREET ADDR]

[HEALTHCARE PROVIDER _CITY], [HEALTHCARE PROVIDER _STATE] [HEALTHCARE PROVIDER _ZIP]

Dear [HEALTHCARE PROVIDER _FULL_NAME]:

We need your help!

Amgen Inc. is conducting a research survey as part of a Food and Drug Administration (FDA) requirement to find out if Healthcare Providers understand important safety information related to the use of BKEMV. We are looking for at least 83 BKEMV REMS-certified Prescribers to complete the survey. The survey should take approximately 25 minutes to complete.

Eligible healthcare providers who complete the survey will be monetarily compensated in the amount of \$175.00 for their time. However, please be aware that healthcare providers who work in Minnesota, Massachusetts, New Jersey, or Vermont will not be eligible to receive payment for survey participation.

Please note, however, that if you work in any of these states, you may still complete the survey without receiving compensation.

UBC will be conducting the survey on behalf of Amgen Inc.

At this time, we are letting you know that because you have been identified as having been trained per the BKEMV REMS requirements.

The survey is expected to be conducted from September 02, 2025 – March 29, 2026.

Sincerely,

The BKEMV REMS KAB Survey Coordinating Center

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HCP Invitation Letter

[CURR_DATE]
[HEALTHCARE PROVIDER_NAME]
[HEALTHCARE PROVIDER _STREET_ADDR]
[HEALTHCARE PROVIDER _CITY], [HEALTHCARE PROVIDER _STATE]
[HEALTHCARE PROVIDER _ZIP]
Dear [HEALTHCARE PROVIDER]:

You will need to provide this code prior to starting the survey: [CODE_ID].

Amgen Inc. is conducting a REMS research survey as part of an FDA requirement to learn if Healthcare Providers (HCPs) understand important safety information related to the use of BKEMV. UBC is the research firm that is conducting the survey on behalf of Amgen Inc.

- Approximately 83 BKEMV REMS-certified HCPs, who are currently prescribing and those who have the potential to prescribe, are being asked to participate in the survey.
- HCPs identified as eligible to participate in the survey are asked to answer all the survey questions, provide their contact information (full name and mailing address), and may be eligible for \$175.00 as monetary compensation for their time.
- The survey should take approximately 25 minutes to complete depending on the method chosen to complete the survey.
- The survey is expected to continue through midnight on March 29, 2026.

Please be aware that HCPs who are licensed and practicing in Minnesota, Massachusetts, New Jersey, or Vermont will not be eligible to receive payment for survey participation. Please note, however, that if you work in any of these states or are a federal government employee, you may still complete the survey without receiving compensation.

Your participation in this survey is completely voluntary. Your answers to the questions or your decision to take part or not to take part in the survey will not affect your ability to prescribe BKEMV. For your convenience, the survey can be completed either online via a secure website or over the telephone with a survey team associate. You are under no obligation to take this survey.

For your convenience, the survey can be completed either online via a secure website or over the telephone with a BKEMV REMS KAB Survey Coordinating Center Associate. Please select the option that you would like to take to complete this very important survey about BKEMV and proceed as noted below.

1. Scan the code below using your smartphone or using a laptop, iPad, or other computing device to visit www.BKEMVKnowledgeSurvey.com

ENTER QR CODE

OR

2. Call [xxx], 8 AM to 8 PM Eastern Time, Monday through Friday.

If you are completing this survey via internet or telephone, please have this letter with you at the time you take the survey.

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We respect that the privacy of your personal information is important to you. If you choose to participate in the survey, you will be asked to provide name, address, medical license information, and your telephone number. Your name, address, and medical license information will be used to send you your monetary compensation; your telephone number will be used only if there are any questions about your survey responses. In addition to the compensation, you will also receive a thank you letter and correct answers to important survey questions about the safe use of BKEMV. Also note that all payments are subject to be reported in compliance with the Federal Physician Payment Sunshine Act.

Your answers to the survey will be combined with answers provided by others. Your name will not be used in any report. You will not be contacted for marketing purposes based on your personal information or your answers to the survey. Your information will not be sold, transferred, or rented.

If you have any questions about this survey, please contact the BKEMV REMS KAB Survey Coordinating Center at [xxx].

Sincerely,

The BKEMV REMS KAB Survey Coordinating Center

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Direct Mail HCP Reminder Letter

[CURR_DATE]
[HEALTHCARE PROVIDER_NAME]
[HEALTHCARE PROVIDER _STREET_ADDR]
[HEALTHCARE PROVIDER _CITY], [HEALTHCARE PROVIDER _STATE]
[HEALTHCARE PROVIDER _ZIP]
Dear [HEALTHCARE PROVIDER]:

Social Validation Messages will be included at the onset of each Reminder Letter Campaign.

You will need to provide this code prior to starting the survey: [CODE_ID].

You recently received a letter asking if you would consider participating in a voluntary survey associated with the use of BKEMV.

On behalf of Amgen Inc., we are contacting you as a reminder to ask you to consider participating in this very important survey about BKEMV. Currently, some of your colleagues have already responded. Each participant in this survey is important and helps to increase accuracy and understanding of effectiveness in communicating important risks associated with BKEMV. This survey will close soon, and your participation is valuable to us!

For your convenience, the survey can be completed either online via a secure website or over the telephone with a BKEMV REMS KAB Survey Coordinating Center Associate. Please select the option that you would like to take to complete this very important survey about BKEMV and proceed as noted below.

For your convenience, the survey can be completed either online via a secure website or over the telephone with a BKEMV REMS KAB Survey Coordinating Center Associate. Please select the option that you would like to take to complete this very important survey about BKEMV and proceed as noted below.

1. Scan the code below using your smartphone or using a laptop, iPad, or other computing device to visit www.BKEMVKnowledgeSurvey.com

ENTER QR CODE

OR

2. Call **[XXX]**, 8 AM to 8 PM Eastern Time, Monday through Friday.

If you are completing this survey via internet or telephone, please have this letter with you at the time you take the survey.

If you have any questions about this survey, please contact the BKEMV REMS KAB Survey Coordinating Center at **[XXX]**.

Sincerely,

The BKEMV REMS KAB Survey Coordinating Center

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Healthcare Provider Thank You Letter - Compensation

[CURR DATE]

[HEALTHCARE PROVIDER_FIRST_NAME] [HEALTHCARE PROVIDER _LAST NAME], [TITLE] [HEALTHCARE PROVIDER _STREET_ADDR]

[HEALTHCARE PROVIDER _CITY], [HEALTHCARE PROVIDER _STATE]

[HEALTHCARE PROVIDER _ZIP]

Dear [HEALTHCARE PROVIDER FULL NAME]:

On behalf of Amgen Inc., we would like to thank you for taking part in the HCP KAB Survey about BKEMV. To express our appreciation for your valuable time, enclosed is \$175.00 as compensation for your time in completing this BKEMV survey.

To ensure that survey participants, like yourself, have accurate information about the risks associated with BKEMV, we have also enclosed the correct answers to important survey questions about the safe use of BKEMV.

We know that sharing important information about BKEMV is vital to ensuring that you understand all the safe use and risks associated with BKEMV. You can locate all the REMS educational materials by copying the link below and retrieving the materials from the BKEMV REMS website: https://www.BKEMVREMS.com.

As it pertains to the \$175.00 gift card, please read the terms and conditions included with this gift card. It is important to know that if the funds on this gift card are not used within 4 months of receipt, an administrative fee of \$3.00 will be deducted monthly until funds are depleted. Also, please note that if you use this card for purchases online, you will be asked to include an address and you should use 933 Canyon Road, Morgantown, WV 26505. If you are trying to use this card as a debit card, you will need to set up a PIN by calling CT Payer (1-800-436-8902), however, you can use the card as a credit card without any PIN. If you have any issues with this card, please contact the BKEMV REMS KAB Survey Coordinator Center at **[XXX]**.

Sincerely,

The BKEMV REMS KAB Survey Coordinating Center

Enclosures:

- A copy of the correct answers to important survey questions about the safe use of BKEMV
- \$175.00 gift card

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Healthcare Provider Thank You Letter – No Compensation

[CURR DATE]

 $[\mbox{HEALTHCARE PROVIDER_FIRST_NAME}] \ [\mbox{HEALTHCARE PROVIDER_LAST NAME}], \ [\mbox{TITLE}]$

[HEALTHCARE PROVIDER _STREET_ADDR]

[HEALTHCARE PROVIDER _CITY], [HEALTHCARE PROVIDER _STATE]

[HEALTHCARE PROVIDER ZIP]

Dear [HEALTHCARE PROVIDER FULL NAME]:

On behalf of Amgen Inc., we would like to thank you for taking part in the HCP KAB Survey about BKEMV.

To ensure that survey participants, like yourself, have accurate information about the risks associated with BKEMV, we have enclosed the correct answers to important survey questions about the safe use of BKEMV.

We know that sharing important information about BKEMV is vital to ensuring that you understand all the safe use and risks associated with BKEMV. You can locate all the REMS educational materials by copying the link below and retrieving the materials from the BKEMV REMS website: https://www.BKEMVREMS.com.

Sincerely

The BKEMV REMS KAB Survey Coordinating Center

Enclosures:

 A copy of the correct answers to important survey questions about the safe use of BKEMV

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ANNEX 5: QUALITATIVE RESEARCH DOCUMENTS

QR Moderator Discussion Guide

QR Redacted Transcripts

QR Findings Presentation

QR Final Summary Report

See Section 8 for more information about these materials.

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Appendix C. Sample Safety Reporting Form(s)

[Delete this Appendix if not applicable to the study.

All studies that report safety data are required to include a sample version of the Form(s) intended to capture all events that must be reported directly to Amgen Safety. This allows sites to familiarize themselves with the form reporting requirements.]

FORM-115199

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AMGEN Pregnancy Notification Form

Report to Amgen at: USTO fax: +1-88	88-814-8653, Non-U	S fax: +44 (0)207-13	6-1046 or em	ail (worldwide): svc-ags-in-us@	amgen.com
1. Case Administrative Inf Protocol/Study Number: _20240					
Study Design: Interventional	○ Observational	(If Observational:	Prospective	e Retrospective)	
2. Contact Information				elfo #	
Investigator Name Phone ()				Site #	
Institution					
Address					
3. Subject Information					
Subject ID #	Subject Gen	der: Female	☐ Male St	ubject age (at onset):(in ye	ears)
4. Amgen Product Exposi	ILE				
	Dose at time of			I	
Amgen Product	conception	Frequency	Route	Start Date	
				mm/dd/ <u>voccx</u>	
Was the Amgen product (or st If yes, provide product (or					
Did the subject withdraw from				_	
	Ш				
5. Pregnancy Information					
Pregnant female's last menstrual p	period (LMP) m	m/ dd	_/ vaccu	Unknown	□N/A
Estimated date of delivery mm_					
If N/A, date of termination (actual or planned) mm/ dd/ www					
If yes, provide date of delivery: mm/ dd/ www					
Was the infant healthy? ☐ Yes ☐ No ☐ Unknown ☐ N/A					
If any Adverse Event was experienced by the infant, provide brief details:					
Form Completed by:		TI	ile:		
Print Name:					
Signature:		Da	ite:		

Effective Date: 24-Sept-2018

Internal Use Only General and Administrative

Version 1.0

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AMGEN Lactation Notification Form

Report to Amgen at: USTO fax: +1-888-814-8653, Non-US fax: +44 (0)207-136-1046 or email (worldwide): svc-ags-in-us@amgen.com

	•					
1. Case Administrative Information						
Protocol/8tudy Number: _20240216						
Study Design: Interventional	8tudy Design: ☐ Inferventional 区 Observational (if Observational: ☐ Prospective ☐ Retrospective)					
2. Contact Information						
Investigator Name				Site #		
Phone ()	Fax (_1		Email		
Institution						
Address						
3. Subject Information						
Subject ID #	Subject age ((at onset): (in ye	ars)			
4. Amgen Product Exposu	ire					
Amgen Product	Dose at time of breast feeding	Frequency	Route	Start Date		
				mm/dd/ava		
Was the Amgen product (or st	ady drug) discontinu	ed7 🗆 Yes 🔲 N	ło			
If yes, provide product (or	r study drug) stop dat	te: mm/dd	-/seco	_		
Did the subject withdraw from	the study? Yes	□ No				
5. Breast Feeding Informa	tion					
Did the mother breastfeed or provide		mped breast milk whi	le actively tai	king an Amgen product? Tyes No		
If No, provide stop date: m		'	,			
Infant date of birth: mm/d						
Infant gender: Female Male						
is the infant healthy?						
If any Adverse Event was experienced by the mother or the infant, provide brief details:						
in any Adverse Event was expensioned by the mother of the infant, provide their details.						
Form Completed by:						
Print Name: Title:						
Signature: Date:						
Signature:						

FORM-115201 Version 1.0 Effective Date: 24-Sept-2018

Internal Use Only General and Administrative

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Appendix D. Additional Safety Reporting Information

Observational Research Safety Reporting Form Instructions
This form is for use for observational studies that are using paper report form

General Instructions

The protocol will provide instruction on what types of events to report for the study. *Indicates a mandatory field.

What to report on this form:

- All adverse events (AEs) are associated with the Amgen drug irrespective of causal relationship of the event to the study drug or seriousness, unless instructed differently by the protocol.
- The following safety findings are to be reported on this form as events regardless of association with an AE:
 - medication errors, overdose, whether accidental or intentional, misuse, or abuse, involving the Amgen product
 - o transmission of infectious agents
 - reports of uses outside the terms for authorized use of the product including off label use
 - occupational exposure
 - any lack or loss of intended effect of the product(s)
 - product complaint (PC)
 - o adverse device effect (ADE)

The following should not be reported on this form and should be reported via the normal process set up for the study

pregnancy and lactation reports

- 1. Initial or Follow-up* Please tick the appropriate box
- 2. Site Number* Enter your assigned site number for this study. Participant Number* Enter the entire number assigned to the participant.
- 3. Indicate event type* Tick the relevant box which applies to the event(s) you are reporting. Please note, more than one box can be ticked.
- **4. Contact Details* –** Provide your name, phone, address, etc. (These contact details should be for the Vendor or Investigator)
- **5. Reporter ID* –** Provide name or ID of reporter, phone, address, etc. (This could be the Investigator details if vendor details are added in section 4.
- **6. HCP Contact Details (if other than reporter)* –** Provide name or ID of reporter, country, phone, address, etc.
- 7. Patient* Enter the participants demographic information.
- 8. Medical History (include primary diagnosis)* Enter medical history that is relevant to the reported event, not the event description. This may include pre-existing conditions that contributed to the event, allergies and any relevant prior therapy, such as radiation. Include dates if available.
- **9. Suspect Product Information (include dosing details)* –** Provide Product/Device information, Indication, start date, stop date, dose, route, frequency, Lot#, Serial#. It is important that all efforts are taken to provide the Lot number, were possible.
- 10. AE, Other Safety Finding, PC/ADE Information*:

AE Diagnosis or Syndrome*:

- ➤ If the diagnosis is known, it should be entered. Do not list all signs/symptoms if they are included in the diagnosis.
- If a diagnosis is not known, the relevant signs/symptoms should be entered.
- > If the event is fatal, the cause of death should be entered and autopsy results should be submitted, when available.

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Onset Date* – Enter date the AE first started rather than the date of diagnosis or hospitalization. For serious events, the start date is the date the event started, not the date on which the event met serious criteria. **This is a mandatory field.**

Resolved Date* – Enter date the AE ended. For serious events, this is not the date when the event no longer met serious criteria. If the event has not ended at the time of the initial report, a follow-up report should be completed when the end date is known. If the event is fatal, enter the date of death as the end date.

Hospitalization* – If the participant was hospitalized, enter admission and discharge dates. Hospitalization is any in-patient hospital admission for medical reasons, including an overnight stay in a healthcare facility, regardless of duration. A pre-existing condition that did not worsen while on study which involved a hospitalization for an elective treatment, is not considered an AE. Protocol specified hospitalizations are exempt.

Serious Criteria Code* – This is a mandatory field for serious events. Select the appropriate code for the event(s) being reported

Action Taken* – State what action has been taken with suspect drug/device.

Outcome* – Enter the code for the outcome of the event at the time the form is completed if outcome is known.

Severity* – State the severity of the safety event being reported.

Relationship to Product/Device*:

Relationship to Amgen drug under study* – The Investigator must determine and enter the relationship of the event to the Amgen drug under study at the time the event is initially reported.

Relationship to Amgen device* – The Investigator must determine and enter the relationship of the event to the Amgen device (e.g., prefilled syringe, auto-injector) at the time the event is initially reported. If the study involves an Amgen device, this is a mandatory field. This question does not apply to non-Amgen devices used in the study (e.g., heating pads, infusion pumps)

11. Concomitant Medications* – Indicate if there are any medications.

Medication Name, Start Date, Stop Date, Dose, Route, and Frequency – Enter information for any other medications the participant is taking. Include any study drugs not included in section 5 (Product Administration) such as chemotherapy, which may be considered co-suspect.

Co-suspect – Indicate if the medication is co-suspect in the event.

Continuing – Indicate if the participant is still taking the medication.

Event Treatment – Indicate if the medication was used to treat the event.

12. Relevant Laboratory Tests* – Indicate if there are any relevant laboratory values.

For each test type, enter the test name, units, date the test was run and the results.

 Other Relevant Tests* - Indicate if there are any tests, including any diagnostics or procedures.

For each test type, enter the date, name, results, and units (if applicable).

14. Description* – Describe Event.

Enter summary of the event. Provide narrative details of the events listed in section 3. Include any therapy administered, such as radiotherapy; (excluding medications, which will be captured in section 6). If necessary, provide additional pages to Amgen.

Complete the signature section at the bottom of each page and fax the form to Amgen.

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Appendix E. Correct Answer Document

Product: BKEMV™ (eculizumab-aeeb)

The correct answers to the key message questions can be found below.

Correct Responses to Select PRESCRIBER Survey Questions about Important Safety Messages for BKEMV™ (eculizumab)

Question	Desired Response			
Select True, False, or I don't know for each statement .				
Life-threatening and fatal meningococcal infections have occurred in both vaccinated and unvaccinated patients treated with complement inhibitors such as BKEMV.	True			
The initiation of BKEMV treatment is contraindicated in patients with unresolved serious <i>Neisseria meningitidis</i> infection.	True			
During treatment with BKEMV, patients should be monitored for early signs of meningococcal infection.	True			
According to the BKEMV REMS, HCPs should be assessing the patient's treatment:	following during the			
Assess patients for early signs and symptoms of infection of meningococcal infection	True			
Evaluate the patient immediately if infection is suspected	True			
Consider interruption of BKEMV in patients who are undergoing treatment for serious meningococcal infection, depending on the risks of interrupting treatment in the disease being treated.	True			
Meningococcal infection may become rapidly life-threatening or fatal if not recognized and treated early.	True			
Closely monitor patients for early signs and symptoms of meningococcal infections and admit patients for a 48-hour observation if infection is suspected.	False			
BKEMV, complement inhibitors, increase a patient's susceptibility to serious, life-threatening, or fatal infections caused by meningococcal bacteria in any serogroup, including non-groupable strains.	True			
Select True, False, or I don't know for each statement .				
Patients with an unknown vaccination status <u>can</u> be started on BKEMV without providing any prior antibacterial drug prophylaxis.	False			
Vaccination does <u>not</u> eliminate the risk of serious meningococcal infections, despite development of antibodies following vaccination.	True			
Please fill in the blank to complete the statement. Complete or update meningococcal vaccination (for serogroups A, C, W, Y, and B) according to the current ACIP recommendations for patients receiving a complement inhibitor.	At least 2 weeks prior to administering the first dose of BKEMV			

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Question	Desired
	Response
Please select the <u>best</u> option. Before starting treatment with	Meningococcal
BKEMV, patients must be vaccinated against which of the	serogroups A, C,
following:	W, Y
Please select the <u>best</u> option. Before starting treatment with	Do not initiate
BKEMV, assess the patient unresolved meningococcal	BKEMV in any
infections and:	patient with these infections
Please select True, False, or I don't know for each option. Acco	
REMS, before treatment initiation with BKEMV you should do v	
Assess the patient's vaccination status for meningococcal A,	True
C, W, Y, and B and vaccinate according to the current ACIP	IIue
recommendations for meningococcal vaccinations in patients	
receiving a complement inhibitor	
According to the BKEMV REMS, HCPs should be assessing the	following during the
patient's treatment:	ionoming daring the
Vaccinate each patient, as needed, according to the current	True
ACIP recommendations for meningococcal vaccinations for	
patients receiving a complement inhibitor	
If urgent BKEMV therapy is indicated in a patient who is not	True
up to date with meningococcal vaccines according to ACIP	
recommendations, provide the patient with antibacterial drug	
prophylaxis.	
Select True, False, or I don't know for each statement .	
Inform patients of the signs and symptoms of serious	True
meningococcal infection and instruct patients to seek	
immediate medical care if these signs and symptoms occur.	
Instruct patients to wait until their next doctor visit if signs and	True
symptoms of serious meningococcal infection occur.	
Please select True, False, or I don't know for each option. Acco	
REMS, before treatment initiation with BKEMV you should do	
Assess the patient for reactions associated with receiving	True
vaccinations	_
HCPs are required to counsel patients on how to recognize	True
and respond to the signs and symptoms of serious	
meningococcal infection.	T
Inform patients to seek immediate medical attention if they	True
develop any of the following signs and symptoms of serious	
meningococcal infections: fever, fever and a rash, fever with high heart rate, headache with nausea or vomiting,	
headache and fever, headache with stiff neck or stiff	
back, confusion, eyes sensitive to light, and muscle	
aches with flu-like symptoms.	
Counsel patients on the need to carry the Patient Safety Card	True
at all times during treatment and for 3 months after the last	
dose of BKEMV.	
Meningococcal infection may become rapidly life-threatening	True
or fatal if not recognized and treated early.	

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If you have any questions please refer to the full US Prescribing Information for BKEMV.



Approval Signatures

Document Name: Protocol Conditionally Approved eculizumab biosimilar 20240216

Document Description: 20240216 BKEMV - Updated post ORRG Meeting for conditional approval

Document Number: CLIN-000359593

Approval Date: 23 Nov 2024

Type of Study Protocol: Conditionally Approved

Protocol Amendment No.:

Document Approvals				
Reason for Signing: Functional Area	Name: PPD Date of Signature: 23-Nov-2024 05:29:29 GMT+0000			