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Title: Healthcare Providers' Awareness of the Risks and Safety Associated With BLINCYTO® use: A 2021 REMS Assessment Survey

#### **Amgen Protocol Number 20210065**

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#### 1. BACKGROUND AND RATIONALE

BLINCYTO® (blinatumomab) is a bispecific T-cell engager indicated for the treatment of relapsed or refractory (R/R) CD19-positive B-cell precursor acute lymphoblastic leukemia (ALL). A Risk Evaluation and Mitigation Strategy (REMS) with goals to mitigate the risks of cytokine release syndrome (CRS), neurologic toxicities, and preparation and administration errors, was identified at the time of approval of the biological license application (BLA). The REMS communication plan consists of REMS Letters for Healthcare Providers (HCPs, including physicians and nurses), REMS Letter for Hospital and Home Healthcare Pharmacists, and REMS Letter for Professional Societies; a REMS Fact Sheet for Healthcare Providers; dissemination of REMS information at scientific meetings; and a REMS program website. Previous REMS assessment surveys have studied three populations: prescribers such as medical doctors, physician assistants, and nurse practitioners; nurses; and pharmacists. Results from the 5-year REMS assessment (submitted December 2019) indicated that surveyed physicians, pharmacists and nurses demonstrated adequate knowledge of the risks of cytokine release syndrome and neurological toxicity associated with BLINCYTO. Surveyed pharmacists and nurses, however, had lower understanding of the risk of preparation and administration errors associated with the use of BLINCYTO. The present REMS assessment conducted 7 years after the launch of BLINCYTO in the US will assess awareness and knowledge of preparation and administration errors associated with BLINCYTO use among pharmacists and nurses.

#### 2. OBJECTIVES

The broad objective of this study is to determine the level of awareness of the risks and safety associated with BLINCYTO therapy and certain aspects of the BLINCYTO REMS Program among pharmacists and nurses who have used BLINCYTO for patients in the treatment of relapsed or refractory B-cell precursor acute lymphoblastic leukemia (ALL). The specific objective is to:

 Evaluate the awareness and understanding of the preparation and administration errors associated with BLINCYTO use among pharmacists who have prepared BLINCYTO, and nurses who have administered BLINCYTO.

## 3. STUDY POPULATION/SAMPLE SIZE/STATISTICAL ANALYSES PLANS

#### Study Design

An online cross-sectional survey will be conducted among pharmacists and nurses who have dispensed, prepared and/or administered BLINCYTO in the US in the past

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12 months outside the clinical trial setting. Previous similar surveys were conducted at 18 months, 3 years and 5 years after the launch of BLINCYTO. This cross-sectional survey is being conducted 7-years after the launch of BLINCYTO in the US.

#### **Study Population**

Inclusion criteria include HCPs, defined as nurses (RNs, BSNs), and hospital and/or home healthcare pharmacists who have dispensed, prepared and/or administered BLINCYTO therapy to patients outside of the clinical trial setting in the past 12 months. HCPs or their immediate family members (eg, spouse, children, and/or parent) who are or were employed by Amgen, Naxion, or the FDA will be excluded from participation. HCPs who have been part of previous assessments (at 18 months, 3 years, and 5 years after the launch of BLINCYTO) will also be eligible to participate.

A list of HCPs targeted by the REMS Program will be matched to the survey vendor's Panels and/or other target sources to determine a list of respondents. All HCPs that are identified via these sources will be invited to participate in this survey.

#### Survey Pre-testing

The main data collection method for this assessment will be online surveys. Before actual data collection, Naxion will conduct telephone-assisted online pilot surveys with appropriate HCPs (eg, approximately 5 each of oncology nurses and hospital-based pharmacists) on the proposed survey questions. Pre--tests will be used to assess the survey research instrument for each of the following:

- Directionality: Confirm that all questions are clearly understood by pre-test respondents.
- Survey duration: An estimation of the average duration of the survey will assist in planning the duration of the actual study.
- Completeness: Confirm that the response options provided are exhaustive and that no reasonable response options are omitted from closed-ended list questions.
- Question order effects: Determine whether there are question order effects (influence of previous question text or response on a following question) that can be controlled for by re-ordering questions.

The findings from the pre-test will be used to improve the survey instrument and generate a final document for the survey.

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## Survey Methodology

Healthcare providers will be initially invited to participate in the survey by email (recruitment material, Appendix B). Majority of the surveys will be administered online and supplemented with telephone surveys. For those HCPs that opt for responding by telephone, the survey will be administered using computer-assisted telephone interviewing (CATI). In addition, direct mail invitations to participate in the online survey and/or hard copy surveys will be used to reach our target of completed surveys.

Screening questions will be placed at the beginning of the survey in order to determine whether HCPs are eligible to take part in a study. HCPs deemed ineligible by these questions are then terminated from the survey.

All possible answers for each survey question (not including screening questions) will be randomized. Participants will not be allowed to return to questions or be allowed to skip ahead during the survey administration. The correct answer choices will be provided on a screen at the end of the online survey. If the survey is completed by telephone, the correct answer choices will be provided by mail.

## **Survey Questions**

The survey instrument includes questions about:

- screening and demographics
- the risk of preparation and administration errors associated with BLINCYTO use
- preparation instructions, access to checklists and Product Information/Package Insert (PI) in the workplace setting of pharmacists and nurses
- awareness and utilization of REMS materials.
- specific questions about preparation and administration errors including frequency of errors, medication errors (for example underdosing and overdosing), adherence to instructions and guidelines for change of infusion bags, and reconstitution of BLINCYTO.

The survey questions are included as Appendix A.

#### **Endpoints**

The main endpoint of interest in this assessment is the awareness of the risk of preparation and administration errors associated with use of BLINCYTO

#### Sample Size

The sample size for this assessment will be 200, including 100 pharmacists and 100 nurses. The precision for the estimates of the awareness of different endpoints specified above for samples sizes of 100 each for pharmacists and nurses, and a pooled

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sample of 200 healthcare workers are shown in Table 1 below assuming 5% level of significance.

Table 1. Precisions for Sample Sizes of 100 and 200 at Varying Proportions With the Outcome and at 95% Confidence

Sample size	Proportion with outcome					
	10%	20%	30%	40%	50%	
100	0.059	0.078	0.090	0.096	0.098	
200	0.042	0.055	0.064	0.068	0.069	

#### **Descriptive Analyses**

Separate analyses will be performed for nurses and pharmacists, as well as a pooled analysis of the two groups to assess the participants' understanding of the preparation and administration errors associated with the use of BLINCYTO. Categorical variables will be summarized using frequencies and proportions while quantitative data will be summarized using means and standard deviation for normally distributed data and medians and interquartile range for skewed data. For each survey question, the proportion and 95% CI of each response option including the 'not sure' and 'I routinely look it up' response categories will be reported. For each knowledge question, the proportion of HCPs selecting the correct response and corresponding 95% CI will be calculated. Analyses for each of the objectives are described in detail below.

Results will be presented for each HCP type separately, as well as pooled. For the main endpoint of the study, the understanding of preparation and administration errors, an individual participant must correctly answer at least 75% of the items to be considered to have knowledge. Specifically, knowledge will be assessed as follows:

- Nurses: Must correctly identify at least 75% of Questions 7, 10, and 11 (ie, 6 out of 8 items) to be considered to have knowledge (see Appendix A)
- Pharmacists: Must correctly identify at least 75% of Questions 8, 10, and 11 (ie, 6 out of 8 items) to be considered to have knowledge (see Appendix A)

A threshold knowledge score and corresponding 95% CI will be estimated as the proportion of HCPs (by type and overall) having knowledge of preparation and administration errors. Furthermore, the proportion of respondents deemed to have knowledge (ie, the proportion of respondents who have correctly identified at least 75% of the items) will be evaluated against a pre-specified threshold of 80% of a given HCP type. The percentage of respondents above and below the threshold knowledge score

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will also be calculated. Responses for questions related to preparation instructions and access to checklists and Product Information/Package Insert (PI) in the workplace setting and knowledge of indication for BLINCYTO will be described with proportions and 95% CIs for each response option. Similarly, proportions and 95% CIs will be reported for the awareness and use of the REMS materials (responses for Questions 15 to 32 in Appendix A).

## 4. COLLECTION, RECORDING, AND REPORTING OF SAFETY INFORMATION AND PRODUCT COMPLAINTS

In the situation that an adverse event, product complaint and/or other safety finding is identified/reported, these will be reported to Amgen Safety consistent with standard practices.

#### 4.1 Definition of Reportable Events

#### 4.1.1 Adverse Events

An adverse event is any untoward medical occurrence in a subject/patient 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), (eg, appearance of new symptoms)

It is Naxion's responsibility to evaluate whether an adverse event is related to an Amgen product prior to reporting the adverse event to Amgen.

# 4.1.2 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 patient at immediate risk of death)
- 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

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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 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.

### 4.1.3 Other Safety Findings

Other Safety Findings (regardless of association with an adverse) 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).

### 4.1.4 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. Amgen will collect product complaints for BLINCYTO.

## 4.2 Safety Collection, Recording and Submission to Amgen Requirements

This study is collecting information from HCPs at a point in time (survey). All reportable events (adverse events, product complaints, and other safety findings) reported by the HCP or interviewer that occur in patients treated with BLINCYTO will be collected from HCP enrollment to final study contact during the pretest and main survey. The Vendor (Naxion) is responsible for ensuring that all reportable events (adverse events, product

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complaints and other safety findings) they become aware of during the study period (including the pretest and main survey) are recorded in the appropriate study documentation. Additionally, these reportable events must be reported by the HCP or interviewer that occur in patients treated with BLINCYTO after study enrollment through the final study contact and are recorded in the HCP's study documentation. If further safety related data is needed to fulfill any regulatory reporting requirements for a reportable event, then additional information may need to be collected from the subject's/patient's records and provided by the nurse or pharmacist..

All reportable events must be submitted as individual case safety reports to Amgen via the applicable Amgen Safety Reporting Form (paper or electronic form) within 1 business day of awareness (Table 1). Non-serious Adverse Events (AEs) must be reported in an expeditious manner, not to exceed 15 calendars days of Vendor (Naxion) awareness.

Reportable events that are suspected to be related to any medicinal product where there is no exposure to Blincyto must be reported to the local authority in line with the local country requirements.

See Appendix C. for the Amgen Safety Reporting Form, Appendix D. for Additional Safety Reporting Information regarding the adverse event grading scale used in this study, and Appendix E. for sample Pregnancy and Lactation Notification Forms.

The HCP may be asked to provide additional information for any event submitted, which may include a discharge summary or extracts from the medical record. Information provided about the event must be consistent with medical records and information recorded in the study documentation where safety data may also be recorded.

Table 1 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)	Within 1 business day from when < <investigator vendor="">&gt; first</investigator>	
<ul> <li>Product Complaints (serious and non- serious)</li> </ul>	becomes aware of the event	
<ul> <li>Other Safety Findings (serious and non-serious)</li> </ul>		
Pregnancy and/or Lactation Exposure		

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Non-serious Adverse Events (related and non-related)
 Within 15 calendar days from when Investigator/Vendor first becomes aware of the event

#### **Female Subjects Who Become Pregnant**

The Vendor (Naxion) will collect pregnancy information on any female subject/patient who becomes pregnant following exposure to BLINCYTO through 48 hours.

Information will be recorded on the Pregnancy Notification Form (see Appendix E). The form must be submitted to Amgen Safety within 1 business day of learning of when the Vendor first becomes aware the subject'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 will provide Investigator with a consent form and questionnaire to collect additional information. After obtaining the female subject's signed consent for release of pregnancy and infant health information, the Vendor will collect pregnancy and infant health information and complete the pregnancy questionnaire for any female subject who becomes pregnant following exposure to BLINCYTO through 48 hours of the BLINCYTO. This information will be forwarded to Amgen Safety. 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, regardless of fetal status (presence or absence of anomalies) or indication for procedure. While pregnancy itself is not considered to be an adverse event or serious adverse event, 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 (eg, female subject 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.

<sup>\*</sup> Please note, more stringent reporting timelines may apply per local requirements

Collection of Pregnancy and Lactation Information

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## Male Subjects with Partners who Become Pregnant [or Were Pregnant at the Time of Enrollment]

In the event a male subject fathers a child following exposure to BLINCYTO, and for an additional 48 hours after discontinuing BLINCYTO, 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: The 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 will provide Investigator with a consent form and questionnaire to collect additional information. The Vendor 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, the Vendor 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.

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 Global Patient Safety 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 subject who breastfeeds while taking BLINCYTO through 48 hours.

Information will be recorded on the Lactation Notification Form (see Appendix E) and submitted to Amgen Safety within 1 business day of when the Vendor first becomes aware of the lactation exposure. With the female subjects signed consent for release of mother and infant health information, the Vendor will collect mother and infant health information and complete the lactation questionnaire on any female subject who breastfeeds while taking BLINCYTO through 48 hours after discontinuing BLINCYTO.

## 4.2.1 Safety Reporting Requirement to Regulatory Bodies

Amgen will report safety data as required 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.

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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.

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#### 5. SUBJECT CONFIDENTIALITY

This study will comply with all applicable laws regarding subject privacy. No direct subject contact or collection of additional subject data will occur. Study results will be in tabular form and aggregate analyses that omits subject identification. Any reports will not include subject identifiers.

#### 6. PUBLICATION INTENT

There is no intent to publish the results of these analyses.

## 7. COMPENSATION

Healthcare professionals will receive payment for their participation in the surveys.

This compensation will be based on a Fair Market Value (FMV) assessment (eg, time and effort).

**Table 2: Survey Respondent Compensation** 

Healthcare provider	Compensation for online survey (\$)
Pharmacist	\$65
Registered nurse	\$65

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## Appendix A. Questionnaire

## Screening questions:

Have you personally prepared, dispensed, and/or administered BLINCYTO
therapy to patients <u>outside of the clinical trial setting</u> in the last 12 months?
(Select all that apply)

a. I have personally prepared BLINCYTO therapy outside the clinical trial setting	0	
b. I have personally dispensed BLINCYTO therapy outside the clinical trial setting	0	
c. I have personally administered BLINCYTO therapy outside the clinical trial setting	0	
d. None of the above	0	TERMINATE

## PROGRAMMING:

#### 1) Ask all respondents

1a. Approximately how many BLINCYTO infusions have you prepared, dispensed, or administered <u>outside of the clinical trial setting</u> in the last 12 months?

	Number of infusions	
-		

#### PROGRAMMING:

#### 1) Ask all respondents

1b. How many patients have you prescribed, dispensed, prepared, and/or administered BLINCYTO therapy to <u>outside of the clinical trial setting</u> in the past 12 months?

[#]	patients	who	have	received	<b>BLINC</b>	YTO
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#### PROGRAMMING:

- 1) Ask all respondents
- 2) Terminate if 0

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2. In what country is your workplace located? If you workplace in more than one country, please select the primary country in which you work.

(Select one answer)

[Drop down list of standard responses]

#### PROGRAMMING:

1) Ask all respondents

- 2) If workplace is located in the U.S. and territories, proceed to Question 3; others TERMINATE
- 3. In what state is your workplace located? If you work in more than one state, please select the state where you consider your primary workplace to be located.

(Select one answer)

[Drop down list of states]

#### PROGRAMMING:

- 1) Ask all respondents
- 2) VT and ME responders: give option to continue but decline compensation
- 4. Are you or any member of your immediate family (household) currently, or have been previously, employed in any capacity (eg, clinical investigator, consultant, researcher, etc.) by Amgen, Naxion, or the FDA?

(Select one answer)

a. Yes	TERMINATE
b. No	

## **PROGRAMMING:**

1) Ask all respondents

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5. What type of healthcare provider are you?

(Select one answer)

a. Doctor (MD, DO)	0	TERMINATE
b. Physician Assistant/Nurse Practitioner	0	TERMINATE
c. Registered Nurse	0	
d. Hospital-Based Clinical Pharmacist	0	
e. Home Healthcare Pharmacist	0	
f. Director of Pharmacy	0	
g. Other (please specify:)	0	TERMINATE

#### PROGRAMMING:

- 1) Ask all respondents
- 2) Question to be asked of all responders. Subsequent survey questions are to be asked based on the type of healthcare provider the responder identifies as. Responders selecting response option "c" to be asked specific questions for "nurses" and "all responders". Responders selecting response option "d", "e", or "f" to be asked specific questions for "pharmacists" and "all responders".

You have qualified for our study, and we'd like to invite you to participate in our survey.

The survey will require about 15 minutes to complete. We ask for your undivided attention as you **complete the survey in one sitting**.

If you do not have 15 minutes right now, please click "stop," and return any time during the next 24 hours when you have an <u>uninterrupted</u> 15 minutes.

Again, please note that your responses will remain confidential, and will be reported only in the aggregate.

From time to time, surveys are conducted to evaluate the effectiveness of pharmaceutical company communications. The goal of this particular survey is to gauge healthcare providers' knowledge and current understanding of the labeling for BLINCYTO® (blinatumomab). Please note that this particular survey pertains to all indications in the labeling for BLINCYTO® (blinatumomab).

We want to emphasize that this is not a "test" of HCPs; rather, it is an attempt to assess pharmaceutical company educational activities.

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Please read each question carefully and select the answer that you feel is most accurate, based only on your current knowledge and understanding of the educational materials you have reviewed. We want to inform you that you should not look-up online or other outside information while taking the survey. You should answer the questions based on your memory of the labeling and pharmaceutical company communications for BLINCYTO® (blinatumomab).

Note that your participation in this survey will NOT affect your ability to prescribe BLINCYTO<sup>®</sup> (blinatumomab).

For some of the survey questions, images are provided to give you a visual example of the document that we are referring to in the question. The writing in the image is intentionally blurred because we would like you to answer questions about the documents from memory.

#### PROGRAMMING:

1) Ensure that question instructions are clearly visible to responders by using appropriate font size and bold font

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## **Survey questions:**

## **Key Risk Message Questions**

7. According to the BLINCYTO <u>Prescribing Information/Package Insert</u>, please answer if the following statements are true or false. If you are not sure, please select "not sure."

	BLINCYTO Preparation and Administration	True	False	Not sure
L1	Preparation and administration errors have occurred with BLINCYTO treatment.  NOTE: We are not asking whether you have personally seen these issues at your facility.	0	0	0
L2	The recommended dose for BLINCYTO is based on patient body surface area (BSA) for patients who weigh less than 45 kg and is fixed (ie, not based on BSA) for patients who weigh greater than or equal to 45 kg.	0	0	0
L3	Medication errors such as underdosing and overdosing can occur if BLINCYTO is prepared or administered incorrectly.  NOTE: We are not asking whether you have personally seen these issues at your facility.	0	0	0
L4	When preparing BLINCYTO, you should follow the preparation instructions provided in the Full Prescribing Information.	0	0	0
L5	The BLINCYTO infusion line or intravenous catheter should not be flushed when changing infusion bags because it can result in excess dosage.	0	0	0
L6	The use of BLINCYTO prepared with benzyl alcohol preservative is recommended for use in adult and pediatric patients across all weight ranges.	0	0	0

## PROGRAMMING:

- 1) Ask NURSE respondents
- 2) Example Prescribing Information visual aid to be displayed on screen
- 3) Display rows L4 and L6 ONLY if Q1 answer includes "a"
- 4) Randomize order of rows

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8. Based on the BLINCYTO <u>Prescribing Information/Package Insert,</u> please answer if the following statements are true or false. If you are not sure, please select "not sure."

	BLINCYTO Preparation and Administration	True	False	Not sure
L1	Preparation and administration errors have occurred with BLINCYTO treatment.	0	0	0
	NOTE: We are not asking whether you have personally seen these issues at your facility.			
L2	The recommended dose for BLINCYTO is based on patient body surface area (BSA) for patients who weigh less than 45 kg, and is fixed (ie, not based on BSA) for patients who weigh greater than or equal to 45 kg.	0	0	0
L3	Medication errors such as underdosing and overdosing can occur if BLINCYTO is prepared or administered incorrectly.  NOTE: We are not asking whether you have personally seen these issues at your facility.	0	0	0
L4	When preparing BLINCYTO, you should follow the preparation instructions provided in the Full Prescribing Information.	0	0	0
L5	Reconstitute BLINCYTO with IV Solution Stabilizer for Injection.	0	0	0

#### PROGRAMMING:

- 1) Ask PHARMACIST respondents
- 2) Example Prescribing Information visual aid to be displayed on screen
- 3) Randomize order of rows
- The Full Prescribing Information/Package Insert contains the most complete instructions on BLINCYTO preparation (including admixing) and administration to minimize medication errors (including underdose and overdose).

(Select one answer)

a. True	
b. False	
c. I am not sure	

#### PROGRAMMING:

1) Ask all respondents

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11. Aseptic technique must be strictly observed when preparing or administering the BLINCYTO solution for infusion.

(Select one answer)

a. True
b. False
c. I am not sure

## PROGRAMMING:

## 1) Ask all respondents

12a. Which of the following are true of your workplacesetting:

(Select all that apply)

a. Step-by-step instructions for preparing BLINCYTO are kept open for reference when BLINCYTO is prepared	
b. Preparation instructions were developed by our facility based on prescribing information/package insert	
c. Prescribing information/package insert is kept open for reference when BLINCYTO is prepared	
d. Preparation of BLINCYTO is checked by two pharmacists	
e. Proper dosing calculations for BLINCYTO are programmed into my facility's EMR	

## PROGRAMMING:

- 1) Ask all PHARMACIST respondents
- 2) Randomize order of rows

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13a.	Which of the	following	are true of	vour workr	nlace setting.
ısa.	WILLIAM OF THE	IOIIOWIIIQ	are true or	voui worki	nace sellina.

(Select all that apply)

a. Tubing is primed by pharmacy staff before BLINCYTO is delivered for administration	
b. Dose on bag is checked by two nurses before BLINCYTO is administered	
c. Check-list for proper BLINCYTO administration is delivered, on paper, along with drug	
d. Check-list for proper BLINCYTO administration is kept on floor with similar information about other oncolytic agents	
e. Check-list for proper BLINCTYO administration is part of EMR	

#### PROGRAMMING:

- 1) Ask all NURSE respondents
- 2) Randomize order of rows

## **HCPs awareness and utilization of BLINCYTO REMS materials**

15. Prior to today, were you aware of the BLINCYTO REMS Website (www.blincytorems.com)?

(Select one answer)

a. Yes	
b. No	

### PROGRAMMING:

- 1) Ask all respondents
- 2) If "Yes," proceed to Question 16; if "No," skip to Question 18
- 16. Prior to today, have you accessed the BLINCYTO REMS website?

(Select one answer)

a. Yes	
b. No	

#### PROGRAMMING:

- 1) Ask if Q15 is "Yes"
- 2) If "No," proceed to Question 17a; if "Yes," skip to Question 17b

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17a. Why have you not accessed the BLINCYTO REMS website?

(Select all that apply)

- a. I have all the product information I need (eg, Full Prescribing Information/Package Insert) without referring to the website
- b. I prefer to obtain information from other sources (eg, Lexicomp, colleagues, sales representatives, societies)
- c. I do not have time in my workplace to access websites

#### PROGRAMMING:

- 1) Ask if Q16 is "No"
- 17b. How familiar are you with the content of the BLINCYTO REMS website?

(Select one answer)

- a. Very familiar
- b. Somewhat familiar
- c. Not very familiar

#### PROGRAMMING:

1) Ask if Q16 is "Yes"

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18. From what sources have you learned about the risk of preparation and administration errors associated with the use of BLINCYTO? Select all that apply.

(Select one answer in each row)

Source	Yes	No
Full Prescribing Information/Package Insert		
BLINCYTO REMS Fact Sheet		
BLINCYTO REMS Website		
BLINCYTO promotional materials		
BLINCYTO product website		
Sales representatives from the manufacturer		
Medical science liaisons from the manufacturer		
Other healthcare professionals/colleagues		
BLINCYTO REMS communications (email, letters)		
Press Releases		
Professional Societies (eg, Oncology Nursing Society [ONS], American Society of Clinical Oncology [ASCO])		
Drug and prescribing information databases (eg, Physician's Desk Reference, Epocrates, Micromedex, Lexi-comp, others)		
Other (please specify:)		

## PROGRAMMING:

- 1) Ask all respondents
- 2) Randomize rows
- 3) Free text field for the "Other" response option is a force response

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19. Prior to today, were you aware of the **BLINCYTO REMS Letter or email for Healthcare Providers?** 

(Select one answer)

a. Yes
b. No
c. I am not sure

#### PROGRAMMING:

- 1) Ask all respondents
- 2) Example BLINCYTO REMS Letter or Email for Healthcare Providers visual aid to be displayed on screen
- 3) If "Yes," proceed to Question 20; if "No" or "I am not sure," skip to Question 22
- 20. Did you receive and/or do you have access to the **BLINCYTO REMS Letter or** email for Healthcare Providers?

(Select one answer)

a. Yes	
b. No	
c. I am not sure	

#### PROGRAMMING:

- 1) Ask if Q19 is "Yes"
- 2) Example BLINCYTO REMS Letter or Email for Healthcare Providers visual aid to be displayed on screen
- 3) If "Yes," proceed to Question 21; if "No" or "I am not sure," skip to Question 22
- 21. Which of the following best describes how much of the **BLINCYTO REMS Letter**or email for Healthcare Providers
  you had an opportunity to read?

(Select one answer)

a. All of it	
b. Most of it	
c. Some of it	
d. None of it	

## PROGRAMMING:

1) Ask if Q20 is "Yes"

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2) Example BLINCYTO REMS Letter or Email for Healthcare Providers visual aid to be displayed on screen

22. Prior to today, were you aware of the BLINCYTO REMS materials through information disseminated by **Professional Societies**?

(Select one answer)

a. Yes	
b. No	
c. I am not sure	

#### PROGRAMMING:

- 1) Ask all
- 2) Example BLINCYTO REMS materials disseminated by Professional Societies visual aid to be provided on screen
- 3) If "Yes," proceed to Question 23; if "No" or "I am not sure," skip to Question 25
- 23. Did you receive and/or do you have access to the **BLINCYTO REMS Letter or** email for Professional Societies?

(Select one answer)

a. Yes
b. No
c. I am not sure

#### PROGRAMMING:

- 1) Ask if Question 22 is "Yes"
- 2) Example BLINCYTO REMS materials disseminated by Professional Societies visual aid to be provided on screen
- 3) If "Yes," proceed to Question 24; if "No" or "I am not sure," skip to Question 25 if PHARMACIST respondent OR skip to Question 28 if RN respondent
- 24. Which of the following best describes how much of the **BLINCYTO REMS Letter**or email for Professional Societies you had an opportunity to read?

a. All of it	
b. Most of it	
c. Some of it	
d. None of it	

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#### PROGRAMMING:

1) Ask if Question 23 is "Yes"

- 2) Example BLINCYTO REMS materials disseminated by Professional Societies visual aid to be provided on screen
- 25. Prior to today, were you aware of the **BLINCYTO REMS Letter or email for Hospital and Home Healthcare Pharmacists?**

(Select one answer)

a. Yes	
b. No	
c. I am not sure	

#### PROGRAMMING:

- 1) Ask all PHARMACIST respondents
- 2) Example BLINCYTO REMS Letter or email for Hospital and Home Healthcare Pharmacists visual aid to be provided on screen
- 3) If "Yes," proceed to Question 26; if "No" or "I am not sure," skip to Question 28
- 26. Did you receive and/or do you have access to the **BLINCYTO REMS Letter or**email for Hospital and Home Healthcare Pharmacists?

(Select one answer)

a. Yes
b. No
c. I am not sure

## **PROGRAMMING:**

- 1) Ask if Q25 is "Yes"
- 2) Example BLINCYTO REMS Letter or email for Hospital and Home Healthcare Pharmacists visual aid to be provided on screen
- 3) If "Yes," proceed to Question 27; if "No" or "I am not sure," skip to Question 28
- 27. Which of the following best describes how much of the **BLINCYTO REMS Letter**or email for Hospital and Home Healthcare Pharmacists you had an opportunity to read?

a. All of it	
b. Most of it	
c. Some of it	
d. None of it	

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#### PROGRAMMING:

- 1) Ask if Q26 is "Yes"
- 2) Example BLINCYTO REMS Letter or email for Hospital and Home Healthcare Pharmacists visual aid to be provided on screen
- 28. Prior to today, were you aware of the **BLINCYTO REMS Fact Sheet**?

(Select one answer)

a. Yes	
b. No	
c. Lam not sure	

#### **PROGRAMMING:**

- 1) Ask all respondents
- 2) Example BLINCYTO REMS Fact Sheet visual aid to be provided on screen
- 3) If "Yes," proceed to Question 29; if "No" or "I am not sure," skip to Question 31
- 29. Did you receive and/or do you have access to the **BLINCYTO REMS Fact**

## Sheet?

(Select one answer)

a. Yes	
b. No	
c. I am not sure	

#### PROGRAMMING:

- 1) Ask if Question 28 is "Yes"
- 2) Example BLINCYTO REMS Fact Sheet visual aid to be provided on screen
- 3) If "Yes," proceed to Question 30; if "No" or "I am not sure," skip to Question 31
- 30. Which of the following best describes how much of the **BLINCYTO REMS Fact Sheet** you had an opportunity to read?

a. All of it
b. Most of it
c. Some of it
d. None of it

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#### PROGRAMMING:

- 1) Ask if Question 29 is "Yes"
- 2) Example BLINCYTO REMS Fact Sheet visual aid to be provided on screen
- 31. Did you receive and/or do you have access to the Full Prescribing Information for BLINCYTO?

(Select one answer)

a. Yes	
b. No	
c I am not sure	

#### PROGRAMMING:

- 3) Ask all respondents
- 4) Example Full Prescribing Information for BLINCYTO visual aid to be provided on screen
- 5) If "Yes," proceed to Question 32; if "No" or "I am not sure," skip to Question 33
- 32. Have you read the Full Prescribing Information for BLINCYTO?

(Select one answer)

a. Yes	
b. No	

#### PROGRAMMING:

- 1) Ask if Question 31 is "Yes"
- 2) Example Full Prescribing Information for BLINCYTO visual aid to be provided on screen

## **Demographic Questions**

35. How long have you worked as a healthcare provider (starting with the completion of your postgraduate training, if applicable)?

- a. Less than 1 year
- b. 1 to 5 years
- c. 6 to 10 years
- d. More than 10 years

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## PROGRAMMING:

1) Ask all respondents

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#### **Appendix B. Recruitment Material (Sample Letter)**

FIRST\_NAME LAST\_NAME ADDRESS 1 ADDRESS 2 CITY, STATE ZIP

Dear FIRST NAME LAST NAME,

## The US Food and Drug Administration requires periodic surveys on awareness of the risks of Blincyto<sup>®</sup>.

NAXION is conducting a nationwide survey concerning Blincyto® usage among physicians and healthcare professionals, and we would greatly appreciate your participation. We strongly encourage you to participate, so that all representative types of hospitals will be included in this research.

You will be asked a few brief questions and if you qualify, you will be eligible to participate. The survey should take approximately 15 minutes to complete. In return for your time and participation, we are offering a \$60.00 honorarium. For your convenience, this survey is being conducted via the internet and must be completed in one sitting. Please be assured that -- as in *all* of our research – your responses will be held in the strictest confidence. All data from the project will be tabulated and reported in the aggregate only. To participate, please direct your web browser to:

https://www.naxionsurvey.com/launch/QX29113.aspx

User ID: USERID Password: PASSWORD

We will close the survey website when we reach the required number of interviews, so everyone benefits if you act sooner rather than later. If you have any questions or concerns, please call PPD at PPD at

We very much appreciate your help. Thanks for considering to participate in this important survey.

Sincerely,	
PPD	
NAXION	
PPD	
116	Ph.D.
Chief Executive Officer	

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## Appendix C. Amgen Safety Reporting Form

Project ID: 20		Observational Research				Date of Reporter Awareness:				
		Α	Safety Re	Form	Date Reported to Amgen:					
		Amgen S 1-888-814 or	<b>afety Fax</b> : I-8653	email: <u>svc-ags-in-us@amgen.com</u>						
1. Initial:	F	ollow-up:	]							
2. Site Number			ct Number:							
3. Indicate (PC)	event type	: (Please tick	all that apply)		Safety Findi  Device Effect	· –	Product Complaint			
		ndor/Investi		5.	Reporter ID					
Name	Phone	F	ax	Name or ID		Phone	Fax			
Address				Address						
City	State/Pro	vince		City		State/Prov	vince			
Postal Code	Country			Postal Code	!	Country				
6. HCP Co	ntact Detail	s (if other th	an reporter)	7.	Patient					
Name				Initials (optional)	Sex	Age (at time of event)	Was consent obtained to follow-up with HCP?			
Country				, ,	□ F □	,	, ☐ Yes			
Address					M		□ No			
City	State	/Province	Postal Code	Weight	Height	Race	Is patient also			
Phone	F	ax			□in		reporter?			
				lbs	☐ cm		□No			
8. Medical	History (in	clude	9. Suspe	kg ct Produc	t Information	include d	osing details)			
	diagnosis)	Siddo	0. Guopa	000110000		· (iiioiaao a	oonig dotailo/			
			Product/Device:							
			Indication:							
			Start Date day month year		top Date month year	Dose	Route Frequency			
			D (III 10 : -				\ \n' \cdot \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \n' \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n' \cdot \n'			
Pregnant? ☐ Yes Yes ☐ No	□ No L	actating?	Prefilled Syringe?  ☐ No	∐ Yes	Lot #	n	Vial Size			
Allergy: Other Device					Serial #	dele / Heden eco				
Allergy:			——————————————————————————————————————		Unavaila	able / Unknow	n			
10. AF Oth	er Safety Ei	nding, or PC	ADE information	1			HCP ONLY			
Finding (List main event first; one event per line)	Ornest (I	Resolved Date f patient died,	Hospitalization ospitalized? ☐ Yes ☐ o rolonged ospitalization? ☐ Yes ☐	Serious ( 01 Fatal 02 Immedialife-threate	ately ning 1=none 2=dose reduced lization 3=dose		e Severit Relationship y 1 mild 2=moder ce			

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			(provide autopsy repo	ort)   -	Admitting dx  Date Admitte  Discharged	d Date	disability /incapacity 05 Congenital anomaly/birth defect 06 Other significant medical hazard 07 Non serious	4=drug withdrawn 5=drug rechallenge (state outcome)	03 Not recovered/n ot resolved 04 Recovered/ resolved with sequelae 05 Fatal		have b	ent may een I by the ct/Device
		day month year	day month y	ear	day month year	day month year			06 Unknown		Produ	ct Device
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7	7+					ΥN	I Y
											V N	. N
											ΥN	N
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											ΥN	ΙY
11. (	Conco	mitant Me	dications (	ea. c	chemoth	erapy)						' N
Medication N		Start Date	Stop Date		suspect	Continuin	g Dose	Route	Frequer	ıcy Tr	eatmen	t Meds
		Day Month	Day Month	No	Yes	No						
		Year	Year			Yes						
12. F	Releva	nt Labora	tory Value	s (in	clude da	tes, allerg	ies, and any re	elevant pric	or therapy	)		
Date	Test											
Day Month	Unit											
Year												
13. (	Other I	Relevant T	est (diagn	ostic	cs and pr	ocedures	5)					
	Date			Add	ditional T	ests	Resu	Its		Units		
Day	Month \	<b>Y</b> ear										
14. [	)escri	<b>ption:</b> Prov	vide chrono	logic	cal summa	ary and de	tails of AE sym	ptoms, PC	or ADE tha	at are l	isted i	n
							ns including those ເ					

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## Appendix D. Additional Safety Reporting Information

Adverse Event Severity Scoring System

Grade	Amgen Standard Adverse Event Severity Scoring System
1	MILD: Aware of sign or symptom, but easily tolerated
2	MODERATE: Discomfort enough to cause interference with usual activity
3	SEVERE: Incapacitating with inability to work or do usual activity

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## Appendix E. Pregnancy and Lactation Notification Forms

## **Pregnancy Notification Form**

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

I. Gase Au	IIIIIISuauve IIII	omation			
☐ Study Design	: Interventional Retrospective)	☑ <u>Observationa</u>		onal ☑ <u>Prospective</u>	
2. Contact	Information				
Investigator N	lame			Site #	
Phone ()	Fax (	)		Email	
Institution					
Address					
3. Subject Information					
Subject ID #	Subject Gend	der:	∐ Male <b>S</b> u	ibject age (at onset): (in	<u>years)</u>
4. Amgen Product Exposu	ure				
Amgen Product	Dose at time of conception	Frequency	Route	Start Date	
BUNOVTO (UE (CONT.)	conception				
BLINCYTO (blinatumomab)				mm/dd/yyy	/y
Was the Amgen product (or study drug) discontinued?					
5. Pregnancy Information					
Pregnant female's last menstrual		m/ dd	/ yyyy	Unknown	□ N/A
Estimated date of delivery mm/ dd/ yyyy  If N/A, date of termination (actual or planned) mm/ dd/ yyyy					
Has the pregnant female already delivered?					
If yes, provide date of delivery: mm/ dd/ yyyy					
Was the infant healthy? ☐ Yes ☐ No ☐ Unknown ☐ N/A					
If any Adverse Event was experienced by the infant, provide brief details:					
Form Completed by:					
Print Name: Title:					
				Amgen Proprietary - For Internal	Use Only
CONFIDENTI	ΔΙ			AMO	EN®

Signature:	Date:

## **AMGEN**<sup>®</sup> Lactation Notification Form

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

1. Case Administrative Information				
Protocol/Study Number: Amgen Protocol Number: 20210065				
Study Design: Interventional				
0. 0				
2. Contact Information Investigator Name				Site #
Phone ()	Fax (	)		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
BLINCYTO (blinatumomab)				mm/dd/yyyy
Was the Amgen product (or study drug) discontinued? ☐ Yes ☐ No  If yes, provide product (or study drug) stop date: mm/dd/yyyy  Did the subject withdraw from the study? ☐ Yes ☐ No				
5. Breast Feeding Informa	tion			
Did the mother breastfeed or provide	de the infant with pur	nped breast milk whi	le actively tal	king an Amgen product? ☐ Yes ☐ No
If No, provide stop date: m	ım/dd	/yyyy		
Infant date of birth: mm/d	ld/yyyy			
Infant gender: ☐ Female ☐ Male				
Is the infant healthy? ☐ Yes ☐ No ☐ Unknown ☐ N/A				
If any Adverse Event was experienced by the mother or the infant, provide brief details:				
Form Completed by:				
Print Name: Title:				
				Answer Description - For Interest U.S. Och

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## **Approval Signatures**

**Document Name:** Protocol-Published Original Blinatumomab 20210065

**Document Description:** 

**Document Number:** CLIN-000270195

Approval Date: 09 Jun 2021

**Type of Study Protocol:** Original

**Protocol Amendment No.:** 

	Document Approvals		
R	Reason for Signing: Functional Area	Name: Gerhard Zugmaier Date of Signature: 09-Jun-2021 13:03:43 GMT+0000	