

# FACT SHEET FOR HEALTHCARE PROVIDERS: EMERGENCY USE AUTHORIZATION FOR EVUSHELD™ (tixagevimab co-packaged with cilgavimab)

## HIGHLIGHTS OF EMERGENCY USE AUTHORIZATION (EUA)

These highlights of the EUA do not include all the information needed to use EVUSHELD™ under the EUA. See the FULL FACT SHEET FOR HEALTHCARE PROVIDERS for EVUSHELD.

EVUSHELD (tixagevimab) injection; (cilgavimab) injection, co-packaged for intramuscular use

Original EUA Authorized Date: 12/2021

## RECENT MAJOR CHANGES

Warnings and Precautions (5.2): addition of new warning	05/2022
Dosage and Administration (2.3)	05/2022
Dosage and Administration (2.1, 17): modification of initial dosage and repeat dosing	06/2022
Adverse Reactions (6.1, 12.3): addition of TACKLE data	02/2022
Microbiology (12.4): updated neutralizing data	06/2022

## EUA FOR EVUSHELD

The U.S. Food and Drug Administration has issued an EUA for the emergency use of the unapproved product EVUSHELD (tixagevimab co-packaged with cilgavimab), SARS-CoV-2 spike protein-directed attachment inhibitor, for the pre-exposure prophylaxis of coronavirus disease 2019 (COVID-19) in adults and pediatric individuals (12 years of age and older weighing at least 40 kg):

- Who are not currently infected with SARS-CoV-2 and who have not had a known recent exposure to an individual infected with SARS-CoV-2 and
  - Who have moderate to severe immune compromise due to a medical condition or receipt of immunosuppressive medications or treatments and may not mount an adequate immune response to COVID-19 vaccination or
  - For whom vaccination with any available COVID-19 vaccine, according to the approved or authorized schedule, is not recommended due to a history of severe adverse reaction to a COVID-19 vaccine(s) and/or COVID-19 vaccine component(s).

EVUSHELD may only be prescribed for an individual patient by physicians, advanced practice registered nurses, and physician assistants that are licensed or authorized under state law to prescribe drugs in the therapeutic class to which EVUSHELD belongs (i.e., anti-infectives).

EVUSHELD has been authorized by FDA for the emergency use described above. EVUSHELD is not FDA-approved for any use, including use for pre-exposure prophylaxis of COVID-19. (1)

EVUSHELD is authorized only for the duration of the declaration that circumstances exist justifying the authorization of the emergency use of EVUSHELD under section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

## LIMITATIONS OF AUTHORIZED USE

- EVUSHELD is not authorized for use in individuals:
  - For treatment of COVID-19, or
  - For post-exposure prophylaxis of COVID-19 in individuals who have been exposed to someone infected with SARS-CoV-2.
- Pre-exposure prophylaxis with EVUSHELD is not a substitute for vaccination in individuals for whom COVID-19 vaccination is recommended. Individuals for whom COVID-19 vaccination is recommended, including individuals with moderate to severe immune compromise who may derive benefit from COVID-19 vaccination, should receive COVID-19 vaccination.
- In individuals who have received a COVID-19 vaccine, EVUSHELD should be administered at least two weeks after vaccination.

See Full Fact Sheet for Healthcare Providers for examples of medical conditions or treatments that may result in moderate to severe immune compromise and an inadequate immune response to COVID-19 vaccination, the justification for emergency use of drugs during the COVID-19 pandemic, information on available alternatives, and additional information on COVID-19. (1)

## DOSAGE AND ADMINISTRATION

The dosage of EVUSHELD for emergency use is:

- Initial dose:** 300 mg of tixagevimab and 300 mg of cilgavimab administered as two separate consecutive intramuscular injections. (2.1)
- Dosing for Individuals Who Initially Received 150 mg of Tixagevimab and 150 mg Cilgavimab**  
For individuals who initially received 150 mg tixagevimab and 150 mg cilgavimab:
  - Initial dose ≤3 months prior: 150 mg tixagevimab and 150 mg cilgavimab.
  - Initial dose >3 months prior: 300 mg tixagevimab and 300 mg cilgavimab. (2.1)
- Repeat dose:** 300 mg of tixagevimab and 300 mg of cilgavimab every 6 months. Repeat dosing should be timed from the date of the most recent EVUSHELD dose. (2.1)

See Full Fact Sheet for Healthcare Providers for detail on preparation and administration. (2)

## DOSAGE FORMS AND STRENGTHS

Injection:

- tixagevimab 150 mg/1.5 mL (100 mg/mL) in a single-dose vial. (3)
- cilgavimab 150 mg/1.5 mL (100 mg/mL) in a single-dose vial. (3)

## CONTRAINDICATIONS

EVUSHELD is contraindicated in individuals with previous severe hypersensitivity reactions, including anaphylaxis, to EVUSHELD. (4)

## WARNINGS AND PRECAUTIONS

- Hypersensitivity Including Anaphylaxis:** Serious hypersensitivity reactions, including anaphylaxis, have been observed with EVUSHELD. If signs and symptoms of a clinically significant hypersensitivity reaction or anaphylaxis occur, immediately discontinue administration and initiate appropriate medications and/or supportive therapy. Clinically monitor individuals after injections and observe for at least 1 hour. (5.1)
- Risk of Cross-Hypersensitivity with COVID-19 Vaccines:** EVUSHELD contains polysorbate 80, which is in some COVID-19 vaccines and is structurally similar to polyethylene glycol (PEG), an ingredient in other COVID-19 vaccines. For individuals with a history of severe hypersensitivity reaction to a COVID-19 vaccine, consider consultation with an allergist-immunologist prior to EVUSHELD administration. (5.2)
- Clinically Significant Bleeding Disorders:** As with any other intramuscular injection, EVUSHELD should be given with caution to individuals with thrombocytopenia or any coagulation disorder. (5.3)
- Cardiovascular Events:** A higher proportion of subjects who received EVUSHELD versus placebo reported myocardial infarction and cardiac failure serious adverse events. All of the subjects with events had cardiac risk factors and/or a prior history of cardiovascular disease, and there was no clear temporal pattern. A causal relationship between EVUSHELD and these events has not been established. Consider the risks and benefits prior to initiating EVUSHELD in individuals at high risk for cardiovascular events, and advise individuals to seek immediate medical attention if they experience any signs or symptoms suggestive of a cardiovascular event. (5.4)

## ADVERSE REACTIONS

Most common adverse events (all grades, incidence ≥3%) are headache, fatigue, and cough. (6.1)

**You or your designee must report all SERIOUS ADVERSE EVENTS or MEDICATION ERRORS potentially related to EVUSHELD (1) by submitting FDA Form 3500 online, (2) by downloading this form and then submitting by mail or fax, or (3) contacting the FDA at 1-800-FDA-1088 to request this form. Please also provide a copy of this form to AstraZeneca by Fax at 1-866-742-7984 or call 1-800-236-9933. (6.4)**



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# FULL FACT SHEET FOR HEALTHCARE PROVIDERS

## 1 EMERGENCY USE AUTHORIZATION

The U.S. Food and Drug Administration (FDA) has issued an Emergency Use Authorization (EUA) for the emergency use of the unapproved product EVUSHELD (tixagevimab co-packaged with cilgavimab) for the pre-exposure prophylaxis of coronavirus disease 2019 (COVID-19) in adults and pediatric individuals (12 years of age and older weighing at least 40 kg):

- Who are not currently infected with SARS-CoV-2 and who have not had a known recent exposure to an individual infected with SARS-CoV-2 **and**
  - Who have moderate to severe immune compromise due to a medical condition or receipt of immunosuppressive medications or treatments **and** may not mount an adequate immune response to COVID-19 vaccination<sup>1</sup> **or**
  - For whom vaccination with any available COVID-19 vaccine, according to the approved or authorized schedule, is not recommended due to a history of severe adverse reaction to a COVID-19 vaccine(s) and/or COVID-19 vaccine component(s) [see [Warnings and Precautions \(5.2\)](#)].

EVUSHELD may only be prescribed for an individual patient by physicians, advanced practice registered nurses, and physician assistants that are licensed or authorized under state law to prescribe drugs in the therapeutic class to which EVUSHELD belongs (i.e., anti-infectives).

EVUSHELD has been authorized by FDA for the emergency use described above. EVUSHELD is not FDA-approved for any use, including use for pre-exposure prophylaxis of COVID-19.

EVUSHELD is authorized only for the duration of the declaration that circumstances exist justifying the authorization of the emergency use of EVUSHELD under section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

Medical conditions or treatments that may result in moderate to severe immune compromise and an inadequate immune response to COVID-19 vaccination include but are not limited to<sup>1</sup>:

- Active treatment for solid tumor and hematologic malignancies
- Receipt of solid-organ transplant and taking immunosuppressive therapy
- Receipt of chimeric antigen receptor (CAR)-T-cell or hematopoietic stem cell transplant (within 2 years of transplantation or taking immunosuppression therapy)
- Moderate or severe primary immunodeficiency (e.g., DiGeorge syndrome, Wiskott-Aldrich syndrome)
- Advanced or untreated HIV infection (people with HIV and CD4 cell counts <200/mm<sup>3</sup>, history of an AIDS-defining illness without immune reconstitution, or clinical manifestations of symptomatic HIV)
- Active treatment with high-dose corticosteroids (i.e., ≥20 mg prednisone or equivalent per day when administered for ≥2 weeks), alkylating agents, antimetabolites, transplant-related immunosuppressive drugs, cancer chemotherapeutic agents classified as severely immunosuppressive, tumor-necrosis (TNF) blockers, and other biologic agents that are immunosuppressive or immunomodulatory (e.g., B-cell depleting agents)

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<sup>1</sup> For additional information please see <https://www.cdc.gov/vaccines/covid-19/clinical-considerations/covid-19-vaccines-us.html>. Healthcare providers should consider the benefit-risk for an individual patient.

## LIMITATIONS OF AUTHORIZED USE

- EVUSHELD is not authorized for use in individuals:
  - For treatment of COVID-19, or
  - For post-exposure prophylaxis of COVID-19 in individuals who have been exposed to someone infected with SARS-CoV-2.
- Pre-exposure prophylaxis with EVUSHELD is not a substitute for vaccination in individuals for whom COVID-19 vaccination is recommended. Individuals for whom COVID-19 vaccination is recommended, including individuals with moderate to severe immune compromise who may derive benefit from COVID-19 vaccination, should receive COVID-19 vaccination.
- In individuals who have received a COVID-19 vaccine, EVUSHELD should be administered at least two weeks after vaccination.

### Justification for Emergency Use of Drugs During the COVID-19 Pandemic

There is currently an outbreak of COVID-19 caused by SARS-CoV-2, a novel coronavirus. The Secretary of HHS has declared that:

- A public health emergency related to COVID-19 has existed since January 27, 2020.
- Circumstances exist justifying the authorization of emergency use of drugs and biological products during the COVID-19 pandemic (March 27, 2020 declaration).

An EUA is a FDA authorization for the emergency use of an unapproved product or unapproved use of an approved product (i.e., drug, biological product, or device) in the United States under certain circumstances including, but not limited to, when the Secretary of HHS declares that there is a public health emergency that affects the national security or the health and security of United States citizens living abroad, and that involves biological agent(s) or a disease or condition that may be attributable to such agent(s). Criteria for issuing an EUA include:

- The biological agent(s) can cause a serious or life-threatening disease or condition;
- Based on the totality of the available scientific evidence (including data from adequate and well-controlled clinical trials, if available), it is reasonable to believe that
  - The product may be effective in diagnosing, treating, or preventing the serious or life-threatening disease or condition; and
  - The known and potential benefits of the product - when used to diagnose, prevent, or treat such disease or condition - outweigh the known and potential risks of the product, taking into consideration the material threat posed by the biological agent(s);
- There is no adequate, approved, and available alternative to the product for diagnosing, preventing, or treating the serious or life-threatening disease or condition.

### Information Regarding Available Alternatives for the EUA Authorized Use

There are no adequate, approved and available alternatives to EVUSHELD for the pre-exposure prophylaxis of COVID-19 in individuals who may not mount an adequate immune response to COVID-19 vaccination or for whom COVID-19 vaccination is not recommended due to a history of severe adverse reaction to a COVID-19 vaccine or its components.

For information on clinical studies of EVUSHELD and other therapies for the prophylaxis of COVID-19, see [www.clinicaltrials.gov](http://www.clinicaltrials.gov).

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Dosage for Emergency Use of EVUSHELD

#### Initial Dosing

The initial dosage of EVUSHELD in adults and pediatric individuals (12 years of age and older weighing at least 40 kg) is **300 mg of tixagevimab and 300 mg of cilgavimab** administered as two separate consecutive intramuscular (IM) injections [see [Clinical Pharmacology \(12.3\)](#)]. Refer to Table 1 below.

#### Dosing for Individuals Who Initially Received 150 mg of Tixagevimab and 150 mg of Cilgavimab

Individuals who have already received the previously authorized initial dose (150 mg of tixagevimab and 150 mg of cilgavimab) **should receive an additional EVUSHELD dose as soon as possible, with the dose based on the following criteria:**

- If the patient received their initial dose  $\leq$  3 months ago, the patient should receive a dose of 150 mg of tixagevimab and 150 mg of cilgavimab, refer to Table 2 below.
- If the patient received their initial dose  $>$  3 months ago, the patient should receive a dose of 300 mg of tixagevimab and 300 mg of cilgavimab, refer to Table 1 below.

#### Repeat Dosing

The repeat dosage of EVUSHELD in adults and pediatric individuals (12 years of age and older weighing at least 40 kg) is **300 mg of tixagevimab and 300 mg of cilgavimab** administered every 6 months, refer to Table 1 below. Repeat dosing should be timed from the date of the most recent EVUSHELD dose.

The recommendations for dosing are based on the totality of the scientific evidence including clinical pharmacology data, antiviral activity data, and clinical trial data [see [Clinical Pharmacology \(12.3\)](#), [Microbiology \(12.4\)](#), and [Clinical Studies \(14\)](#)]. EVUSHELD has only been studied for the prophylaxis of COVID-19 at the EVUSHELD (150 mg of tixagevimab and 150 mg of cilgavimab) dose. There are no data available in a prophylaxis setting for the EVUSHELD (300 mg of tixagevimab and 300 mg of cilgavimab) dose. The clinical safety of the EVUSHELD (300 mg of tixagevimab and 300 mg of cilgavimab) dose is supported by safety data from a treatment study in subjects with mild to moderate COVID-19 [see [Adverse Reactions \(6.1\)](#)]. There are limited safety and no efficacy data available with repeat dosing.

To access the most recent EVUSHELD Fact Sheets, please visit <http://www.evusheld.com> or scan the QR code:



### 2.2 Dosage Adjustment in Specific Populations

No dosage adjustment is recommended in pregnant or lactating individuals, in geriatrics, and in individuals with renal impairment [see [Use in Specific Populations \(8\)](#)].

## 2.3 Dose Preparation and Administration

Each EVUSHELD carton contains two vials; one of each antibody. Each vial contains an overfill to allow the withdrawal of 150 mg (1.5 mL).

**Table 1 Dosage of 300 mg of Tixagevimab and 300 mg of Cilgavimab**

<b>EVUSHELD*</b> (tixagevimab co-packaged with cilgavimab)	<b>Antibody dose</b>	<b>Number of vials needed</b>	<b>Volume to withdraw from vial(s)</b>
	tixagevimab 300 mg	2 vials	3 mL
	cilgavimab 300 mg	2 vials	3 mL

\* 300 mg of tixagevimab and 300 mg of cilgavimab are to be administered as separate, consecutive intramuscular injections

**Table 2 Dosage of 150 mg of Tixagevimab and 150 mg of Cilgavimab**

<b>EVUSHELD*</b> (tixagevimab co-packaged with cilgavimab)	<b>Antibody dose</b>	<b>Number of vials needed</b>	<b>Volume to withdraw from vial</b>
	tixagevimab 150 mg	1 vial	1.5 mL
	cilgavimab 150 mg	1 vial	1.5 mL

\* 150 mg of tixagevimab and 150 mg of cilgavimab are to be administered as separate, consecutive intramuscular injections

### Preparation

- Tixagevimab and cilgavimab must be prepared by a qualified healthcare provider.
- Tixagevimab and cilgavimab are each supplied in individual single-dose vials. Do not shake the vials.
- Visually inspect the vials for particulate matter and discoloration. Tixagevimab and cilgavimab are clear to opalescent, colorless to slightly yellow solutions. Discard the vials if the solution is cloudy, discolored or visible particles are observed.
- Administer EVUSHELD as TWO separate, consecutive intramuscular (IM) injections, 1 injection of tixagevimab and 1 injection of cilgavimab.
- Withdraw the appropriate amount of tixagevimab solution and the appropriate amount of cilgavimab solution into TWO separate syringes (see Table 1 and Table 2). Discard unused portion in vials.
- This product is preservative-free and therefore, the prepared syringes should be administered immediately. If immediate administration is not possible, and the prepared tixagevimab and cilgavimab syringes need to be stored, the total time from vial puncture to administration must not exceed 4 hours:
  - in a refrigerator at 2°C to 8°C (36°F to 46°F), or
  - at room temperature up to 25°C (77°F).

## Administration

- Tixagevimab and cilgavimab should be administered by a qualified healthcare provider with appropriate medical support to manage severe hypersensitivity reactions.
- Administer the two components of EVUSHELD consecutively.
- Administer the IM injections at different injection sites, preferably one in each of the gluteal muscles, one after the other.
  - For the 300 mg tixagevimab and 300 mg cilgavimab dose, ensure that the administration sites are appropriate for the volume (3 mL per injection).
- Clinically monitor individuals after injections and observe for at least 1 hour [see [Warnings and Precautions \(5.1, 5.2\)](#)].

## **3 DOSAGE FORMS AND STRENGTHS**

EVUSHELD is available as an individual single-dose vial of tixagevimab as a clear to opalescent, colorless to slightly yellow solution co-packaged with an individual single-dose vial of cilgavimab as a clear to opalescent, colorless to slightly yellow solution as:

- Injection: 150 mg/1.5 mL (100 mg/mL) of tixagevimab
- Injection: 150 mg/1.5 mL (100 mg/mL) of cilgavimab

## **4 CONTRAINDICATIONS**

EVUSHELD is contraindicated in individuals with previous severe hypersensitivity reactions, including anaphylaxis, to EVUSHELD [see [Warnings and Precautions \(5.1, 5.2\)](#)].

## **5 WARNINGS AND PRECAUTIONS**

There are limited clinical data available for EVUSHELD. Serious and unexpected adverse events may occur that have not been previously reported with EVUSHELD use.

### **5.1 Hypersensitivity Including Anaphylaxis**

Serious hypersensitivity reactions, including anaphylaxis, have been observed with EVUSHELD [see [Adverse Reactions \(6.1\)](#)]. Signs and symptoms of hypersensitivity reactions may include: dyspnea, chills, fatigue/asthenia, tachycardia, chest pain or discomfort, nausea/vomiting, angioedema, dizziness, urticaria, wheezing, pruritus, flushing, hyperhidrosis, myalgia, vaso-vagal reactions (e.g., pre-syncope, syncope), or throat irritation.

Administration of EVUSHELD should be done under the supervision of a healthcare provider with appropriate medical support to manage severe hypersensitivity reactions. If signs and symptoms of a clinically significant hypersensitivity reaction or anaphylaxis occur while taking EVUSHELD, immediately discontinue administration and initiate appropriate medications and/or supportive care. Clinically monitor individuals after injections and observe for at least 1 hour.

### **5.2 Risk of Cross-Hypersensitivity with COVID-19 Vaccines**

EVUSHELD contains polysorbate 80, which is in some COVID-19 vaccines and is structurally similar to polyethylene glycol (PEG), an ingredient in other COVID-19 vaccines [see [Description \(11\)](#)]. For individuals with a history of a severe hypersensitivity reaction to a COVID-19 vaccine, consider consultation with an allergist-immunologist prior to EVUSHELD administration.

Administration of EVUSHELD should be done under the supervision of a healthcare provider with appropriate medical support to manage severe hypersensitivity reactions. If signs and symptoms of a clinically significant hypersensitivity reaction or anaphylaxis occur while taking EVUSHELD, immediately discontinue administration and initiate appropriate medications and/or supportive care. Clinically monitor individuals after injections and observe for at least 1 hour.

### **5.3 Clinically Significant Bleeding Disorders**

As with any other intramuscular injection, EVUSHELD should be given with caution to individuals with thrombocytopenia or any coagulation disorder.

### **5.4 Cardiovascular Events**

In PROVENT there was a higher rate of cardiovascular serious adverse events (SAEs), including myocardial infarction (one fatal SAE) and cardiac failure, in subjects who received EVUSHELD compared to placebo [see [Adverse Reactions \(6.1\)](#)]. All subjects who experienced cardiac SAEs had cardiac risk factors and/or a prior history of cardiovascular disease, and there was no clear temporal pattern. A causal relationship between EVUSHELD and these events has not been established. There was no signal for cardiac toxicity or thrombotic events identified in the nonclinical studies.

Consider the risks and benefits prior to initiating EVUSHELD in individuals at high risk for cardiovascular events, and advise individuals to seek immediate medical attention if they experience any signs or symptoms suggestive of a cardiovascular event.

## **6 ADVERSE REACTIONS**

### **6.1 Adverse Reactions from Clinical Studies**

The following adverse events have been observed in the clinical studies of EVUSHELD that supported the EUA. The adverse event rates observed in these clinical studies cannot be directly compared to rates in the clinical studies of other products and may not reflect the rates observed in clinical practice. Additional adverse events associated with EVUSHELD may become apparent with more widespread use.

Approximately 4,220 subjects have been exposed to EVUSHELD (150 mg of tixagevimab and 150 mg of cilgavimab) in two ongoing Phase III trials, PROVENT and STORM CHASER, for the prophylaxis of COVID-19. The primary safety analysis was based on data through to event driven efficacy data cut-offs, such that individual subjects had variable follow-up times [see [Clinical Studies \(14\)](#)], with a median (range) of follow-up of 83 days (3-166 days) for PROVENT and 49 days (5-115 days) for STORM CHASER. An additional data cut-off was conducted to provide updated analyses with a median (range) of follow-up of 6.5 months (3-282 days) for PROVENT and approximately 6 months (5-249 days) for STORM CHASER. The median and range of follow-up times were similar between EVUSHELD and placebo recipients in each trial.

Four hundred and fifty two (452) non-hospitalized subjects (with the exception of those hospitalized for isolation purposes) with mild to moderate COVID-19 have been exposed to EVUSHELD (300 mg of tixagevimab and 300 mg of cilgavimab) in one ongoing Phase III clinical trial, TACKLE. The median

(range) duration of follow-up was 84 days (1-183 days). EVUSHELD is not authorized for treatment of COVID-19 [see [Limitations of Authorized Use \(1\)](#)].

In all studies, adults received EVUSHELD administered as two separate, consecutive IM injections of tixagevimab and cilgavimab or placebo [see [Clinical Studies \(14\)](#)].

**PROVENT (EVUSHELD [150 mg of tixagevimab and 150 mg of cilgavimab])**

PROVENT enrolled adults ≥18 years of age who were either ≥60 years of age, had pre-specified co-morbidities [see [Clinical Studies \(14\)](#)], or were at increased risk of SARS-CoV-2 infection due to their living situation or occupation. Subjects could not have previously received a COVID-19 vaccine or have known prior or current SARS-CoV-2 infection. Subjects received a single dose of EVUSHELD (N= 3,461) or placebo (N= 1,736).

Adverse events were reported in 1,221 (35%) subjects receiving EVUSHELD and 593 (34%) receiving placebo. SAEs were reported in 50 (1%) subjects receiving EVUSHELD and 23 (1%) receiving placebo. There was 1 adverse event reported as anaphylaxis among subjects who received EVUSHELD. The event began within minutes of EVUSHELD administration and was treated with epinephrine. The event resolved.

Of the reported adverse events (N= 4,507), the majority were mild (73%) or moderate (24%) in severity. All adverse events, occurring in at least 1% of subjects, were reported at similar incidence rates among subjects receiving EVUSHELD compared to those receiving placebo (difference <1%). The most common treatment-emergent adverse events, occurring in at least 3% of subjects receiving EVUSHELD or placebo are shown in Table 3.

**Table 3 Adverse Events (All Grades) Regardless of Causality Occurring in at Least 3% of Subjects Receiving EVUSHELD or Placebo in Primary Safety Analysis**

	<b>EVUSHELD N= 3,461</b>	<b>Placebo N= 1,736</b>
Headache	6%	5%
Fatigue	4%	3%
Cough	3%	3%

At the additional data cut-off (median follow-up 6.5 months), the overall adverse event profile for subjects who received EVUSHELD remained similar to events displayed in Table 3.

**Cardiac Serious Adverse Events**

Through the additional data cut-off in PROVENT, a higher proportion of subjects who received EVUSHELD versus placebo in PROVENT reported myocardial infarction SAEs, one of which resulted in death, and cardiac failure SAEs (see Table 4 below). All subjects who experienced cardiac SAEs had cardiac risk factors and/or a prior history of cardiovascular disease at baseline. There was no clear temporal pattern, with events reported from several hours after EVUSHELD receipt through the end of the follow-up period.

**Table 4 Cardiac SAEs Regardless of Causality in PROVENT with Onset Prior to Day 183 Using the Median 6-Month Data Cut-off Date**

	<b>EVUSHELD N= 3,461</b>	<b>Placebo N= 1,736</b>
Subjects with any cardiac SAE*	22 (0.6%)	3 (0.2%)

	<b>EVUSHELD N= 3,461</b>	<b>Placebo N= 1,736</b>
SAEs related to coronary artery disease or myocardial ischemia <sup>†</sup>	10 (0.3%)	2 (0.1%)
Myocardial infarctions <sup>‡</sup>	8 (0.2%)	1 (0.1%)
SAEs related to cardiac failure <sup>§</sup>	6 (0.2%)	1 (0.1%)
SAEs related to an arrhythmia <sup>¶</sup>	4 (0.1%)	1 (0.1%)
Other (cardiomegaly, cardiomyopathy, and cardio-respiratory arrest)	3 (0.1%)	0

\* One EVUSHELD recipient and one placebo recipient had two cardiac SAEs each.

<sup>†</sup> Includes the preferred terms angina pectoris, coronary artery disease, arteriosclerosis, troponin increased, acute myocardial infarction, and myocardial infarction.

<sup>‡</sup> Includes the preferred terms acute myocardial infarction, myocardial infarction, and troponin increased (with a discharge diagnosis of myocardial infarction).

<sup>§</sup> Includes the preferred terms cardiac failure congestive, acute left ventricular failure, cardiac failure, and cardiac failure acute.

<sup>¶</sup> Includes the preferred terms atrial fibrillation, arrhythmia, paroxysmal atrioventricular block, and heart rate irregular.

### STORM CHASER (EVUSHELD [150 mg tixagevimab and 150 mg cilgavimab])

STORM CHASER enrolled adults ≥18 years of age following potential exposure (within 8 days) to an identified individual with a laboratory-confirmed SARS-CoV-2 infection (symptomatic or asymptomatic). Subjects could not have previously received a COVID-19 vaccine, have symptoms consistent with COVID-19, or have a known prior SARS-CoV-2 infection. Subjects received a single dose of EVUSHELD (N= 749) or placebo (N= 372).

Adverse events were reported in 162 (22%) subjects receiving EVUSHELD and 111 (30%) receiving placebo. SAEs were reported in 5 (<1%) subjects receiving EVUSHELD and 3 (<1%) receiving placebo. Of the reported adverse events (N= 777), the majority were mild (75%) or moderate (23%) in severity.

At the additional data cut-off (median follow-up approximately 6 months), the overall adverse event profile for subjects who received EVUSHELD remained similar to earlier results. EVUSHELD is not authorized for post-exposure prophylaxis of COVID-19 in individuals who have been exposed to someone infected with SARS-CoV-2 [see [Emergency Use Authorization \(1\)](#)].

#### *Cardiac Serious Adverse Events*

In STORM CHASER (N= 1,121) no cardiac SAEs were reported (median follow-up approximately 6 months). Compared to PROVENT, the subjects in STORM CHASER were younger (median age 48 versus 57 years) and had fewer baseline cardiac risk factors (24% versus 36% with hypertension, 11% versus 14% with diabetes, and 3% versus 8% with cardiovascular disease in STORM CHASER versus PROVENT, respectively).

### TACKLE (EVUSHELD [300 mg tixagevimab and 300 mg cilgavimab])

TACKLE enrolled adults ≥18 years of age with mild to moderate COVID-19 who were within ≤7 days of symptom onset. Approximately 90% of study subjects had risk factors that put them at high risk for progression to severe COVID-19. Subjects received a single dose of EVUSHELD (N= 452) or placebo (N= 451).

Adverse events were reported in 132 (29%) subjects receiving EVUSHELD and 163 (36%) receiving placebo. Serious adverse events were reported in 33 (7%) subjects receiving EVUSHELD and 54 (12%) receiving placebo. Of the reported adverse events (N= 520), the majority were mild (56%) or

moderate (27%) in severity. There were no reports of anaphylaxis or serious hypersensitivity reactions.

Adverse events of insomnia (1% vs. <1%) and dizziness (1% vs. none) were reported at a higher rate with EVUSHELD compared to placebo. No other treatment-emergent adverse events, occurring in at least 1% of subjects, were reported at higher incidence rates (difference  $\geq 1\%$ ) among subjects receiving EVUSHELD compared to those receiving placebo.

#### *Cardiac Serious Adverse Events*

In TACKLE (N= 903) four subjects reported cardiac SAEs. Acute myocardial infarction was reported for two subjects who received EVUSHELD (one of whom also experienced cardiac failure leading to death) and sudden cardiac death was reported for one subject who received EVUSHELD. One subject who received placebo reported arrhythmia. All subjects who experienced cardiac SAEs had cardiac risk factors and/or a prior history of cardiovascular disease at baseline.

### **6.4 Required Reporting for Serious Adverse Events and Medication Errors**

The prescribing healthcare provider and/or the provider's designee is/are responsible for mandatory reporting of all serious adverse events\* and medication errors potentially related to EVUSHELD within 7 calendar days from the healthcare provider's awareness of the event, using FDA Form 3500 (for information on how to access this form, see below). The FDA requires that such reports, using FDA Form 3500, include the following:

- Patient demographics and baseline characteristics (e.g., patient identifier, age or date of birth, gender, weight, ethnicity, and race)
- A statement "EVUSHELD use for COVID-19 under Emergency Use Authorization (EUA)" under the "**Describe Event, Problem, or Product Use/Medication Error**" heading
- Information about the serious adverse event or medication error (e.g., signs and symptoms, test/laboratory data, complications, timing of drug initiation in relation to the occurrence of the event, duration of the event, treatments required to mitigate the event, evidence of event improvement/disappearance after stopping or reducing the dosage, evidence of event reappearance after reintroduction, clinical outcomes)
- Patient's preexisting medical conditions and use of concomitant products
- Information about the product (e.g., dosage, route of administration, NDC #)

Submit adverse event and medication error reports, using Form 3500, to FDA MedWatch using one of the following methods:

- Complete and submit the report online: [www.fda.gov/medwatch/report.htm](http://www.fda.gov/medwatch/report.htm)
- Complete and submit a postage-paid FDA Form 3500 (<https://www.fda.gov/media/76299/download>) and return by:
  - Mail to MedWatch, 5600 Fishers Lane, Rockville, MD 20852-9787, or
  - Fax to 1-800-FDA-0178, or
- Call 1-800-FDA-1088 to request a reporting form

In addition, please provide a copy of all FDA MedWatch forms to AstraZeneca:

- Fax 1-866-742-7984

and to report adverse events please:

- Visit <https://contactazmedical.astrazeneca.com>, or

- Call AstraZeneca at 1-800-236-9933.

The prescribing healthcare provider and/or the provider's designee is/are responsible for mandatory responses to requests from FDA for information about adverse events and medication errors following receipt of EVUSHELD.

\*Serious adverse events are defined as:

- Death
- A life-threatening adverse event;
- A persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions;
- A congenital anomaly/birth defect;
- Other important medical event, which may require a medical or surgical intervention to prevent death, a life-threatening event, hospitalization, disability, or congenital anomaly;
- Inpatient hospitalization or prolongation of existing hospitalization.

## 6.5 Other Reporting Requirements

Healthcare facilities and providers will report therapeutics information and utilization data as directed by the U.S. Department of Health and Human Services.

## 7 DRUG INTERACTIONS

Drug-drug interaction studies have not been performed.

Tixagevimab and cilgavimab are not renally excreted or metabolized by cytochrome P450 (CYP) enzymes; therefore, interactions with concomitant medications that are renally excreted or that are substrates, inducers, or inhibitors of CYP enzymes are unlikely [see [Clinical Pharmacology \(12.3\)](#)].

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

There are insufficient data to evaluate a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. EVUSHELD should only be used during pregnancy if the potential benefit outweighs the potential risk for the mother and the fetus.

Nonclinical reproductive toxicity studies have not been conducted with tixagevimab and cilgavimab. In a tissue cross-reactivity study assessing off-target binding of tixagevimab and cilgavimab to human fetal tissues no binding of clinical concern was observed. Human immunoglobulin G1 (IgG1) antibodies are known to cross the placental barrier; therefore, tixagevimab and cilgavimab have the potential to be transferred from the mother to the developing fetus. It is unknown whether the potential transfer of tixagevimab and cilgavimab provides any treatment benefit or risk to the developing fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In

the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

## 8.2 Lactation

### Risk Summary

There are no available data on the presence of tixagevimab or cilgavimab in human milk or animal milk, the effects on the breastfed infant, or the effects of the drug on milk production. Maternal IgG is known to be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for EVUSHELD and any potential adverse effects on the breastfed infant from EVUSHELD.

## 8.4 Pediatric Use

EVUSHELD is not authorized for use in pediatric individuals under 12 years of age or weighing less than 40 kg. The safety and effectiveness of EVUSHELD have not been established in pediatric individuals. The dosing regimen is expected to result in comparable serum exposures of tixagevimab and cilgavimab in individuals 12 years of age and older and weighing at least 40 kg as observed in adults, since adults with similar body weight have been included in the trials PROVENT, STORM CHASER and TACKLE [see [Adverse Reactions \(6.1\)](#) and [Clinical Studies \(14\)](#)].

## 8.5 Geriatric Use

Of the 2,555 subjects in the pooled pharmacokinetics (PK) analysis (Phase I and Phase III studies), 21% (N= 533) were 65 years of age or older and 3% (N= 81) were 75 years of age or older. There is no clinically meaningful difference in the PK of tixagevimab and cilgavimab in geriatric subjects ( $\geq 65$  years) compared to younger subjects.

## 8.6 Renal Impairment

Tixagevimab and cilgavimab are not eliminated intact in the urine, renal impairment is not expected to affect the exposure of tixagevimab and cilgavimab. Similarly, dialysis is not expected to impact the PK of tixagevimab and cilgavimab.

## 8.7 Hepatic Impairment

The effect of hepatic impairment on the PK of tixagevimab and cilgavimab is unknown.

## 8.8 Other Specific Populations

Based on a population PK analysis, the PK profile of tixagevimab and cilgavimab was not affected by sex, age, race, or ethnicity. Population PK model-based simulations suggest that body weight had no clinically relevant effect on the PK of tixagevimab and cilgavimab in healthy adults over the range of 36 kg to 177 kg.

## 10 OVERDOSAGE

Treatment of overdose with EVUSHELD should consist of general supportive measures including the monitoring of the clinical status of the individual. There is no specific treatment for overdose with EVUSHELD.

## 11 DESCRIPTION

Tixagevimab, a SARS-CoV-2 spike protein-directed attachment inhibitor, is a human immunoglobulin G1 (IgG1 $\kappa$ ) monoclonal antibody produced in Chinese hamster ovary (CHO) cells by recombinant DNA technology. The molecular weight is approximately 149 kDa.

Tixagevimab injection is a sterile, preservative-free, clear to opalescent and colorless to slightly yellow solution supplied in a single-dose vial for intramuscular use. The vial stoppers are not made with natural rubber latex. Each 1.5 mL contains 150 mg tixagevimab, L- histidine (2.4 mg), L- histidine hydrochloride monohydrate (3.0 mg), polysorbate 80 (0.6 mg), sucrose (123.2 mg), and Water for Injection, USP. The pH is 6.0.

Cilgavimab, a SARS-CoV-2 spike protein-directed attachment inhibitor, is a human IgG1 $\kappa$  monoclonal antibody produced in CHO cells by recombinant DNA technology. The molecular weight is approximately 152 kDa.

Cilgavimab injection is a sterile, preservative-free, clear to opalescent and colorless to slightly yellow solution supplied in a single-dose vial for intramuscular use. The vial stoppers are not made with natural rubber latex. Each 1.5 mL contains 150 mg cilgavimab, L- histidine (2.4 mg), L- histidine hydrochloride monohydrate (3.0 mg), polysorbate 80 (0.6 mg), sucrose (123.2 mg), and Water for Injection, USP. The pH is 6.0.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Tixagevimab and cilgavimab are two recombinant human IgG1 $\kappa$  monoclonal antibodies with amino acid substitutions to extend antibody half-life (YTE), reduce antibody effector function, and minimize the potential risk of antibody-dependent enhancement of disease (TM). Tixagevimab and cilgavimab can simultaneously bind to non-overlapping regions of the receptor binding domain (RBD) of SARS-CoV-2 spike protein. Tixagevimab, cilgavimab, and their combination bind to spike protein with equilibrium dissociation constants of  $K_D = 2.76$  pM, 13.0 pM and 13.7 pM, respectively, blocking its interaction with human ACE2, the SARS-CoV-2 receptor, which is required for virus attachment. Tixagevimab, cilgavimab, and their combination blocked RBD binding to human ACE2 with  $IC_{50}$  values of 0.32 nM (48 ng/mL), 0.53 nM (80 ng/mL), and 0.43 nM (65 ng/mL), respectively.

### 12.3 Pharmacokinetics

A summary of PK parameters and properties of tixagevimab and cilgavimab following administration of a single EVUSHELD (300 mg of tixagevimab and 300 mg of cilgavimab) intramuscular dose is provided in Table 5.

**Table 5 Summary of PK Parameters and Properties of Tixagevimab and Cilgavimab Following a Single EVUSHELD (300 mg Tixagevimab and 300 mg Cilgavimab) Intramuscular Dose**

PK Parameters	Tixagevimab	Cilgavimab
C <sub>max</sub> (µg/mL)*	21.9 (61.7)	20.3 (63.6)
T <sub>max</sub> (day) <sup>†</sup>	14.9 (1.1 – 86)	15.0 (1.1 – 85)
C <sub>2</sub> (µg/mL) <sup>‡</sup>	9.5 (77)	9.1 (80)
C <sub>84</sub> (µg/mL) <sup>§</sup>	15 (48)	14 (51)
AUC <sub>0-84</sub> (day•µg/mL)*	1408 (54)	1307 (58)
<b>Absorption</b>		
Bioavailability <sup># ¶</sup>	68.5	65.8
<b>Distribution</b>		
Apparent Volume of Distribution (L) <sup>#</sup>	7.7 (1.97)	8.7 (2.73)
<b>Elimination</b>		
Half-life (days) <sup># ¶</sup>	87.9 (13.9)	82.9 (12.3)
Apparent Clearance (L/day) <sup>#</sup>	0.062 (0.019)	0.074 (0.028)
<i>Metabolism</i>	Catabolic pathways; Same manner as endogenous IgG	
<i>Excretion</i>	Not likely to undergo renal excretion	

\* Geomean (geometric %CV)

<sup>†</sup> Median (range)

<sup>‡</sup> Observed geomean (geometric %CV) concentration 2 day after dosing

<sup>§</sup> Observed geomean (geometric %CV) concentration 84 days after dosing

<sup>#</sup> Arithmetic mean (SD)

<sup>¶</sup> Based on a single EVUSHELD (150 mg tixagevimab and 150 mg cilgavimab)

In the PROVENT repeat dose sub-study, following a second IM dose of EVUSHELD (150 mg of tixagevimab and 150 mg of cilgavimab) administered 10 to 14 months after the initial IM dose of EVUSHELD (150 mg of tixagevimab and 150 mg of cilgavimab) (N= 53), the geometric mean serum concentration was 26.4 µg/mL on post-administration Day 29. This serum concentration was similar to the geometric mean drug concentration on post-administration Day 29 (23.3 µg/mL) following the initial IM EVUSHELD dose (150 mg of tixagevimab and 150 mg of cilgavimab) in the PROVENT parent study.

The primary analysis in the clinical efficacy study PROVENT was conducted prior to the emergence of the Omicron variant; the dominant variants in circulation at that time were Alpha, Beta, Gamma, and Delta. Pharmacokinetic and pharmacodynamic modeling using cell-based EC<sub>50</sub> values of EVUSHELD against the currently circulating variants in the U.S. suggest in vivo activity against these variants may be retained at drug concentrations achieved following a single EVUSHELD initial dose of 300 mg tixagevimab and 300 mg cilgavimab for 6 months [see [Dosage and Administration \(2.1\)](#)].

### Specific Populations

The PK profile of tixagevimab and cilgavimab were not affected by sex, age, race or ethnicity. Body weight had no clinically relevant effect on the PK of tixagevimab and cilgavimab in adults over the range of 36 kg to 177 kg.

### *Pediatric Population*

The PK of tixagevimab and cilgavimab in pediatric individuals have not been evaluated.

The dosing regimen is expected to result in comparable plasma exposures of tixagevimab and cilgavimab in pediatric individuals ages 12 years of age or older who weigh at least 40 kg as observed in adult individuals [see [Use in Specific Populations \(8.4\)](#)].

#### *Renal impairment*

Tixagevimab and cilgavimab are not eliminated intact in the urine.

Renal impairment is not expected to impact the PK of tixagevimab and cilgavimab, since monoclonal antibodies with molecular weight >69 kDa are known not to undergo renal elimination. Similarly, dialysis is not expected to impact the PK of tixagevimab and cilgavimab.

There is no difference in the clearance of tixagevimab and cilgavimab in individuals with mild or moderate renal impairment compared to individuals with normal renal function. There were insufficient subjects with severe renal impairment to draw conclusions [see [Use in Specific Populations \(8.6\)](#)].

#### *Hepatic impairment*

No specific studies have been conducted to examine the effects of hepatic impairment on the PK of tixagevimab and cilgavimab. The impact of hepatic impairment on the PK of tixagevimab and cilgavimab is unknown [see [Use in Specific Populations \(8.7\)](#)].

#### Drug Interaction Studies

Drug-drug interaction studies have not been performed. Based on key elimination pathways, tixagevimab and cilgavimab interactions with concomitant medications that are renally excreted or that are substrates, inducers, or inhibitors of CYP enzymes are unlikely [see [Drug Interactions \(7\)](#)].

## **12.4 Microbiology**

#### Antiviral Activity

In a neutralization assay on Vero E6 cells, tixagevimab, cilgavimab, and their combination neutralized SARS-CoV-2 (USA-WA1/2020 isolate) with EC<sub>50</sub> values of 60.7 pM (9 ng/mL), 211.5 pM (32 ng/mL), and 65.9 pM (10 ng/mL), respectively.

Tixagevimab, cilgavimab, and their combination showed reduced or no antibody-dependent cell-mediated cytotoxicity (ADCC), antibody-dependent cellular phagocytosis (ADCP), or antibody-dependent natural killer cell activation (ADNKA) in cell culture studies. Tixagevimab, cilgavimab, and their combination did not mediate antibody-dependent complement deposition (ADCD) activity with guinea pig complement proteins.

#### Antibody Dependent Enhancement (ADE) of Infection

The potential of tixagevimab and cilgavimab to mediate antibody-dependent viral entry was assessed in FcγRII-expressing Raji cells co-incubated with recombinant virus-like particles (VLPs) pseudotyped with SARS-CoV-2 spike protein, with antibody concentrations at a range of 6.6 nM (1 μg/mL) to 824 pM (125 ng/mL). Tixagevimab, cilgavimab, and their combination did not mediate entry of VLPs into these cells under the tested conditions.

The potential for ADE was also evaluated in a non-human primate model of SARS-CoV-2 using EVUSHELD. Intravascular administration prior to virus inoculation resulted in a dose-dependent improvement in all measured outcomes (total viral RNA in the lungs or nasal mucosae, infectious

virus levels in the lungs based on TCID<sub>50</sub> measurements, or lung injury and pathology based on histology measurements). No evidence of enhancement of viral replication or disease was observed at any dose evaluated, including sub-neutralizing doses down to 0.04 mg/kg.

### Antiviral Resistance

There is a potential risk of treatment failure due to the development of viral variants that are resistant to tixagevimab and cilgavimab. Prescribing healthcare providers should consider the prevalence of SARS-CoV-2 variants in their area, where data are available, when considering prophylactic treatment options.

Escape variants were identified following serial passage in cell culture of SARS-CoV-2 or replication competent recombinant vesicular stomatitis virus (VSV) expressing SARS-CoV-2 spike protein in the presence of tixagevimab or cilgavimab individually or in combination. Variants which showed reduced susceptibility to cilgavimab expressed spike protein amino acid substitutions R346I (>200-fold), K444E (>200-fold), and K444R (>200-fold). No escape variants to tixagevimab, or the tixagevimab and cilgavimab combination were selected.

In neutralization assays using recombinant VLPs pseudotyped with SARS-CoV-2 spike and harboring individual spike amino acid substitutions identified in circulating SARS-CoV-2, variants with reduced susceptibility to cilgavimab alone included those with R346I (>200-fold), K444E (>200-fold), K444Q (>200-fold), K444R (>200-fold), V445A (21- to 51-fold), G446V (4.2-fold), N450K (9.1-fold), or L452R (5.8-fold) substitutions. Variants with reduced susceptibility to tixagevimab alone included those with Q414R (4.6-fold), L455F (2.5- to 4.7-fold), G476S (3.3-fold), E484D (7.1-fold), E484K (6.2- to 12-fold), E484Q (3.0-fold), F486S (>600-fold), F486V (121- to 149-fold), Q493K (2.4- to 3.2-fold), Q493R (7.9-fold), E990A (6.1-fold), or T1009I (8.2-fold) substitutions. Variants harboring an E484K (2.4- to 5.4-fold), Q493R (3.4-fold), E990A (5.7-fold), or T1009I (4.5-fold) substitution exhibited low level reduced susceptibility to tixagevimab and cilgavimab in combination.

VLPs pseudotyped with the SARS-CoV-2 spike of variant strains with reduced susceptibility to cilgavimab included those with R346K:E484K:N501Y (Mu, 21-fold), and those with reduced susceptibility to tixagevimab included those harboring E484K (Alpha, 18.5-fold; Beta, 3.5- to 15-fold; Zeta, 7.3-fold). Similar results were observed, where data was available, in neutralization assays using authentic SARS-CoV-2 variant strains.

VLPs pseudotyped with the SARS-CoV-2 spike of Omicron BA.1 or BA.1.1 (BA.1+R346K) showed reduced susceptibility to tixagevimab (>600- to >1,000-fold or 460-fold, respectively) and to cilgavimab (>700- to >1,000-fold or >500-fold, respectively). VLPs pseudotyped with the SARS-CoV-2 spike of Omicron BA.2 or BA.2.12.1 showed reduced susceptibility to tixagevimab (>1,000-fold or >500-fold, respectively) but not to cilgavimab (1.9-fold or 2-fold, respectively). VLPs pseudotyped with the SARS-CoV-2 spike of Omicron BA.3 showed reduced susceptibility to tixagevimab (>5,000-fold) but not to cilgavimab (4-fold). VLPs pseudotyped with the SARS-CoV-2 spike of Omicron BA.4/BA.5 showed reduced susceptibility to tixagevimab (>10,000-fold) and cilgavimab (7.5- to 9-fold). The effects of the individual substitutions in Omicron spike glycoproteins on neutralization susceptibility are being investigated.

The neutralizing activity of tixagevimab and cilgavimab in combination was tested against pseudotyped VLPs and/or authentic SARS-CoV-2 variant strains harboring all spike substitutions identified in Alpha (B.1.1.7, 0.5- to 5.2-fold), Beta (B.1.351, 1.0- to 3.8-fold), Gamma (P.1, 0.4- to 2.0-fold), Delta (B.1.617.2, 0.6- to 1.2-fold), and Delta [+K417N] (AY.1/ AY.2, 1.0-fold) variants of

concern, and Eta (B.1.525, 3.1-fold), Iota (B.1.526, 0.3- to 3.4-fold), Kappa (B.1.617.1, 0.5- to 3.4-fold) Lambda (C.37, 0.7-fold), and Mu (B.1.621, 7.5-fold) variants of interest. Tixagevimab and cilgavimab in combination was also tested against Epsilon (B.1.427 / B.1.429, 0.8- to 3.5-fold), R.1 (3.5-fold), B.1.1.519 (1.4-fold), C.36.3 (2.3-fold), B.1.214.2 (0.8-fold), and B.1.619.1 (3.3-fold) variant alerts for further monitoring and B.1.616 (0.5-fold), A.23.1 (0.4-fold), A.27 (0.8-fold), and AV.1 (5.9-fold) variants de-escalated from further monitoring (Table 6).

Preliminary data for the neutralizing activities of tixagevimab and cilgavimab in combination against circulating Omicron subvariants are available. VLPs pseudotyped with the SARS-CoV-2 spike of Omicron BA.1 or BA.1.1 (BA.1+R346K) showed reduced neutralizing activity (132- to 183-fold or 424-fold, respectively), Omicron BA.2 showed no change in neutralizing activity (3.2-fold). VLPs pseudotyped with the spike of Omicron BA.2.12.1, BA.3, or BA.4/BA.5 showed 5-fold, 16-fold, and 33- to 65-fold reductions in neutralizing activity, respectively. Authentic Omicron BA.1 (12- to 30-fold) and BA.1.1 (176-fold) viruses showed reduced susceptibility, Omicron BA.2 showed minimal change in neutralizing activity (5.4-fold).

Data collection is ongoing to better understand how the reductions in activity seen in pseudotyped VLP assays or authentic SARS-CoV-2 assays may correlate with clinical outcomes.

**Table 6 EVUSHELD Pseudotyped Virus-Like Particles and Authentic SARS-CoV-2 Neutralization Data for SARS-CoV-2 Variants**

Lineage with Spike Protein Substitution	Country First Identified	WHO Nomenclature	Key Substitutions Tested	Fold Reduction in Susceptibility* (Pseudotyped VLPs†)	Fold Reduction in Susceptibility* (Authentic virus‡)
B.1.1.7	UK	Alpha	N501Y	0.5- to 5.2-fold	No Change§
B.1.351	South Africa	Beta	K417N+E484K+N501Y	No Change§	No Change§
P.1	Brazil	Gamma	K417T+E484K+N501Y	No Change§	No Change§
B.1.617.2	India	Delta	L452R+T478K	No Change§	No Change§
AY.1/ AY.2	India	Delta [+K417N]	K417N+L452R+T478K	No Change§	No Change§
BA.1	Botswana	Omicron (BA.1)	G339D+S371L+S373P+S375F+K417N+N440K+G446S+S477N+T478K+E484A+Q493R+G496S+Q489R+N501Y+Y505H	132- to 183-fold#	12- to 30-fold
BA.1.1	Multiple country origin	Omicron (BA.1.1) [+R346K]	G339D+R346K+S371L+S373P+S375F+K417N+N440K+G446S+S477N+T478K +E484A+Q493R+G496S+Q489R+N501Y+Y505H	424-fold	176-fold
BA.2	Multiple country origin	Omicron (BA.2)	G339D+S371F+S373P+S375F+T376A+D405N+R408S+K417N+N440K+S477N+T478K+E484A+Q493R+Q498R+N501Y+Y505H	No Change§	5.4-fold

Lineage with Spike Protein Substitution	Country First Identified	WHO Nomenclature	Key Substitutions Tested	Fold Reduction in Susceptibility* (Pseudotyped VLPs <sup>†</sup> )	Fold Reduction in Susceptibility* (Authentic virus <sup>‡</sup> )
BA.2.12.1	United States	Omicron (BA.2.12.1)	G339D+S371F+S373P+S375F+T376A+D405N+R408S+K417N+N440K+L452Q+S477N+T478K+E484A+Q493R+Q498R+N501Y+Y505H	5-fold	ND
BA.3	Multiple country origin	Omicron (BA.3)	G339D+S371F+S373P+S375F+D405N+K417N+N440K+G446S+S477N+T478K+E484A+Q493R+Q498R+N501Y+Y505H	16-fold	ND
BA.4/5	Multiple country origin	Omicron (BA.4/5)	+G339D+S371F+S373P+S375F+T376A+D405N+R408S+K417N+N440K+L452R+S477N+T478K+E484A+F486V+Q498R+N501Y+Y505H	33- to 65-fold	ND
B.1.525	Multiple country origin	Eta	E484K	No Change <sup>§</sup>	ND
B.1.526	United States	Iota	E484K	No Change <sup>§</sup>	No Change <sup>§</sup>
B.1.617.1	India	Kappa	L452R+E484Q	No Change <sup>§</sup>	No Change <sup>§</sup>
C.37	Peru	Lambda	L452Q+F490S	No Change <sup>§</sup>	ND
B.1.621	Colombia	Mu	R346K+E484K +N501Y	7.5-fold	ND
B.1.427 / B.1.429	United States	Epsilon	L452R	No Change <sup>§</sup>	No Change <sup>§</sup>
R.1	Multiple country origin	-	E484K	No Change <sup>§</sup>	ND
B.1.1.519	Multiple country origin	-	T478K	No Change <sup>§</sup>	ND
C.36.3	Multiple country origin	-	R346S:L452R	No Change <sup>§</sup>	ND
B.1.214.2	Multiple country origin	-	Q414K:N450K	No Change <sup>§</sup>	ND
B.1.619.1	Multiple country origin	-	N440K:E484K	No Change <sup>§</sup>	ND
P.2	Brazil	Zeta	E484K	No Change <sup>§</sup>	ND
B.1.616	France	-	V483A	No Change <sup>§</sup>	ND
A.23.1	UK	-	V367F	No Change <sup>§</sup>	ND
A.27	Multiple country origin	-	L452R+N501Y	No Change <sup>§</sup>	ND
AV.1	Multiple country origin	-	N439K+E484K	5.9-fold	ND

\* Range of reduced potency across multiple variants of each lineage using research-grade pseudotyped VLP neutralization assays; mean fold change in half maximal effective concentration (EC<sub>50</sub>) of mAb required for a 50% reduction in infection compared to wild type reference strain

<sup>†</sup> Pseudotyped virus-like particles expressing the entire SARS-CoV-2 spike variant protein and individual characteristic spike substitutions except L452Q were tested including Alpha (+L455F, E484K, F490S, Q493R, and/or S494P), and Delta (+K417N) harboring additional indicated RBD substitutions that are no longer detected or detected at extremely low levels within these lineages

<sup>‡</sup> Authentic SARS-CoV-2 expressing the entire variant spike protein were tested including Alpha (+E484K or S494P) harboring additional indicated RBD substitutions that are no longer detected or detected at extremely low levels within these lineages

<sup>§</sup> No change: <5-fold reduction in susceptibility

# EC<sub>50</sub> value = 1.13 – 1.83 nM (171 - 277 ng/mL)  
ND, not determined; RBD, receptor binding domain

It is not known how pseudotyped VLPs or authentic SARS-CoV-2 neutralization susceptibility data correlate with clinical outcome.

In PROVENT, illness visit sequencing data were available for 21 of 33 subjects with SARS-CoV-2 infection (6 who received tixagevimab and cilgavimab and 15 placebo). Fourteen subjects were infected with variants of concern or variants of interest, including 8 subjects with Alpha (B.1.1.7) (8 who received placebo), 1 subject with Beta (B.1.351) (1 who received tixagevimab and cilgavimab), 3 subjects with Delta (B.1.617.2) (3 who received placebo), and 2 subjects with Epsilon (B.1.429) (2 who received tixagevimab and cilgavimab). Seven additional subjects were infected with B.1.375 (1 who received tixagevimab and cilgavimab) or the A\_1 set of lineages containing a constellation of spike protein substitutions including D614G and P681H or Q677P (3 who received tixagevimab and cilgavimab and 3 placebo). Additional spike protein RBD substitutions detected at low frequency (between 3% and 24%) included V503F in the tixagevimab and cilgavimab group.

In STORM CHASER, illness visit sequencing data was available for 19 of 19 subjects with SARS-CoV-2 infections (12 of 12 who received tixagevimab and cilgavimab and 7 of 7 placebo). At an allele fraction  $\geq 25\%$ , 12 of 19 subjects were infected with variants of concern or variants of interest, including 9 subjects with Alpha (B.1.1.7) (5 who received tixagevimab and cilgavimab and 4 placebo) and 3 subjects with Epsilon (B.1.427 / B.1.429) (2 who received tixagevimab and cilgavimab and 1 placebo). Seven additional subjects were infected with B.1.1.519 (1 who received tixagevimab and cilgavimab) or the A\_1 set of lineages containing a constellation of spike protein substitutions including D614G and D138H, Q675H, Q677H, or V1176F (4 who received tixagevimab and cilgavimab and 2 placebo). Additional spike protein RBD substitutions detected at an allele fraction  $\geq 3\%$  included S325P, Del342, C361W, Del428, F429V, and F515C in the tixagevimab and cilgavimab group.

Evaluation of neutralization susceptibility of variants identified through global surveillance and in subjects who received tixagevimab and cilgavimab is ongoing.

It is possible that variants resistant to tixagevimab and cilgavimab could have cross-resistance to other monoclonal antibodies targeting the RBD of SARS-CoV-2. The combination of tixagevimab and cilgavimab retained activity against pseudotyped VLPs harboring individual SARS-CoV-2 spike substitutions (K417E/N, D420N, K444Q, V445A, Y453F, L455F, N460K/S/T, E484D/K/Q, F486V, F490S, Q493K/R, and S494P) identified in neutralization escape variants of other monoclonal antibodies targeting the RBD of SARS-CoV-2 spike protein.

## 12.6 Immunogenicity

There are no immunogenicity data available for the currently authorized dosing regimen (EVUSHELD [300 mg of tixagevimab and 300 mg cilgavimab] administered every 6 months).

There was no apparent clinically significant effect of anti-EVUSHELD antibodies (ADA) on the safety or effectiveness of EVUSHELD in PROVENT (EVUSHELD [150 mg of tixagevimab and 150 mg cilgavimab]), but data are limited at this time. There is up to a 26% decrease, on average, in serum concentrations of EVUSHELD over time through 183 days post-administration in subjects with positive ADA after the initial dose compared to subjects who tested negative for ADA after the initial dose; the clinical significance of this decrease is unknown.

In PROVENT, following a single IM dose of EVUSHELD (150 mg of tixagevimab and 150 mg cilgavimab) (baseline: study Day 1) through study Day 183, treatment-emergent anti-tixagevimab, anti-cilgavimab and anti-EVUSHELD antibodies were detected in 3% (101/3152), 4% (113/3068) and 5% (156/3158) ADA-evaluable participants, respectively, who received EVUSHELD (150 mg of tixagevimab and 150 mg of cilgavimab). The average Day 8, 29, and 183 serum concentrations of EVUSHELD were approximately 0%, 12%, and 26% lower, respectively, in subjects who tested positive for ADA after the initial dose versus subjects who tested negative for ADA after the initial dose.

In the PROVENT repeat dose sub-study, following a subsequent single IM dose of EVUSHELD (150 mg of tixagevimab and 150 mg cilgavimab) (baseline: sub-study Day 1) through sub-study Day 29, treatment-emergent anti-tixagevimab, anti-cilgavimab and anti-EVUSHELD antibodies were detected in 0% (0/49), 10% (5/49) and 10% (5/49) ADA-evaluable subjects, respectively. The average Day 29 concentration of EVUSHELD was approximately 14% lower in subjects who tested positive for ADA after the second dose versus subjects who tested negative for ADA after the second dose. The time between repeat doses was 10 to 14 months (first IM dose administered in the original PROVENT study to second IM dose administered in the PROVENT sub-study).

The observed incidence of ADA is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of ADA in the studies described above with the incidence of ADA in other studies.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

Carcinogenicity, genotoxicity, and reproductive toxicology studies have not been conducted with tixagevimab and cilgavimab.

### **13.2 Animal Toxicology and Pharmacology**

In a toxicology study in cynomolgus monkeys, tixagevimab and cilgavimab had no adverse effects when administered via IM injection.

In tissue cross-reactivity studies with tixagevimab and cilgavimab using human adult and fetal tissues no binding of clinical concern was detected.

Tixagevimab and cilgavimab have been assessed in rhesus macaque and cynomolgus macaque models of SARS-CoV-2 infection. Prophylactic administration of tixagevimab and cilgavimab (N= 4 rhesus macaque; N= 3 cynomolgus macaque) three days prior to infection prevented SARS-CoV-2 infection of the upper and lower respiratory tracts in dose-dependent manner. Prophylactic administration of 4 mg/kg tixagevimab and cilgavimab resulted in a 7- $\log_{10}$  reduction in viral sub-genomic messenger RNA (sgmRNA) in nasopharyngeal swabs and 5 to 6- $\log_{10}$  reduction in sgmRNA or infectious virus titer in bronchoalveolar lavage samples at Day 2 post-challenge in all animals relative to placebo-treated animals. Compared to placebo, prophylactic administration of tixagevimab and cilgavimab (N= 3 cynomolgus macaque) reduced lung injury associated with SARS-CoV-2 infection.

The applicability of these findings to a clinical setting is not known.

## 14 CLINICAL STUDIES

The data supporting this EUA are based on analyses from the Phase III trials PROVENT (NCT04625725) and STORM CHASER (NCT04625972). Both trials are evaluating the safety and efficacy of EVUSHELD (150 mg of tixagevimab and 150 mg of cilgavimab) for the prophylaxis SARS-CoV-2 symptomatic illness (COVID-19).

### Efficacy Data from PROVENT

PROVENT is an ongoing Phase III, randomized (2:1), double-blind, placebo-controlled clinical trial studying EVUSHELD for the pre-exposure prophylaxis of COVID-19 in adults  $\geq 18$  years of age. All subjects were either  $\geq 60$  years of age, had a pre-specified co-morbidity (obesity, congestive heart failure, chronic obstructive pulmonary disease, chronic kidney disease, chronic liver disease, immunocompromised state, or previous history of severe or serious adverse event after receiving any approved vaccine), or were at increased risk of SARS-CoV-2 infection due to their living situation or occupation. Subjects could not have previously received a COVID-19 vaccine. Subjects received a single dose (administered as two IM injections) of EVUSHELD or placebo. The study excluded subjects with a history of laboratory-confirmed SARS-CoV-2 infection or SARS-CoV-2 antibody positivity at screening. Once COVID-19 vaccines were locally available, subjects were permitted on request to unblind to make an informed decision on vaccine timing and to receive COVID-19 vaccination.

The baseline demographics were balanced across the EVUSHELD and placebo arms. The median age was 57 years (with 43% of subjects aged 60 years or older), 46% of subjects were female, 73% were White, 3% were Asian 17% were Black/African American, and 15% were Hispanic/Latino. Of the 5,197 subjects, 78% had baseline co-morbidities or characteristics associated with an increased risk for severe COVID-19, including obesity (42%), diabetes (14%), cardiovascular disease (8%), cancer, including a history of cancer (7%), chronic obstructive pulmonary disease (5%), chronic kidney disease (5%), chronic liver disease (5%), immunosuppressive medications (3%) and immunosuppressive disease (<1%).

For the primary endpoint, a subject was defined as a COVID-19 case if their first case of SARS-CoV-2 RT-PCR-positive symptomatic illness occurred after administration and prior to Day 183. The primary analysis included 5,172 subjects who were SARS-CoV-2 RT-PCR-negative at baseline, of which 3,441 received EVUSHELD and 1,731 received placebo. Only events that occurred prior to unblinding or vaccine receipt were included. EVUSHELD receipt resulted in a statistically significant (p-value <0.001) 77% reduction in incidence of SARS-CoV-2 RT-PCR-positive symptomatic illness (COVID-19) when compared to placebo (Table 7). At the time of analysis the median follow-up time post-administration was 83 days (range 3 to 166 days).

Similar results were observed for EVUSHELD recipients compared to placebo recipients in the reduction in incidence of SARS-CoV-2 RT-PCR-positive symptomatic illness or death from any cause (12/3,441 versus 19/1,731, respectively) with relative risk reduction of 69% (95% CI: 36, 85; p-value= 0.002), and in the reduction in incidence of SARS-CoV-2 RT-PCR-positive symptomatic illness regardless of unblinding or vaccine receipt (10/3,441 versus 22/1,731, respectively) with relative risk reduction of 77% (95% CI: 52, 89 ; p-value <0.001).

**Table 7 Incidence of Symptomatic COVID-19 in Adults (PROVENT)**

	N*	Number of events, n (%)	Relative Risk Reduction, % (95% CI)
EVUSHELD†	3,441	8 (0.2%)	77% (46, 90)
Placebo	1,731	17 (1.0%)	

N = number of subjects in analysis; CI = Confidence Interval

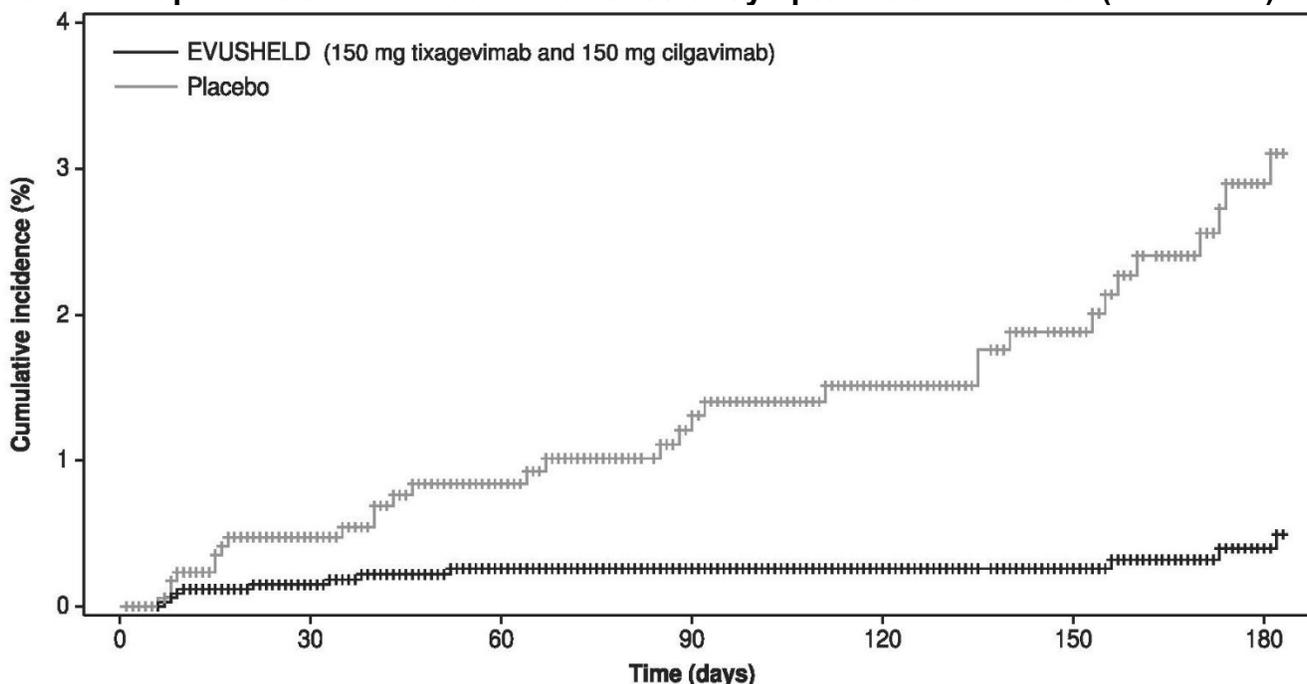
\* subjects were censored after receiving the vaccine or being unblinded to consider the vaccine, whichever occurred earlier

† EVUSHELD dose (150 mg tixagevimab and 150 mg cilgavimab)

Among subjects who received EVUSHELD, there were no severe/critical COVID-19 events (defined as SARS-CoV-2 RT-PCR-positive symptomatic illness characterized by a minimum of either pneumonia [fever, cough, tachypnoea or dyspnea, and lung infiltrates] or hypoxemia [SpO<sub>2</sub> <90% in room air and/or severe respiratory distress] and a WHO Clinical Progression Scale score of 5 or higher) compared to one event (0.1%) among subjects who received placebo.

An additional data cut was conducted to provide post-hoc updated efficacy and safety analysis, the median follow-up was 6.5 months for subjects in both EVUSHELD and placebo arms. The relative risk reduction of SARS-CoV-2 RT-PCR-positive symptomatic illness was 83% (95% CI: 66, 91) with 11/3,441 (0.3%) events in the EVUSHELD arm and 31/1,731 (1.8%) events in the placebo arm, see Figure 1. These results are consistent with the duration of protection predicted by population PK modelling. Among subjects who received EVUSHELD there were no severe/critical COVID-19 events compared to five events among subjects who received placebo.

**Figure 1 Kaplan Meier: Cumulative Incidence of Symptomatic COVID-19\* (PROVENT)**



Number of participants at risk

EVUSHELD	3441	2957	2393	2054	1815	1667	1044
Placebo	1731	1483	1177	991	856	774	472

\* Subjects who do not experience a primary endpoint event (and had not discontinued) are censored at Day 183. Subjects who were unblinded/vaccinated prior to an event are also censored at the earlier time of unblinding/vaccination.

### Efficacy Data from STORM CHASER

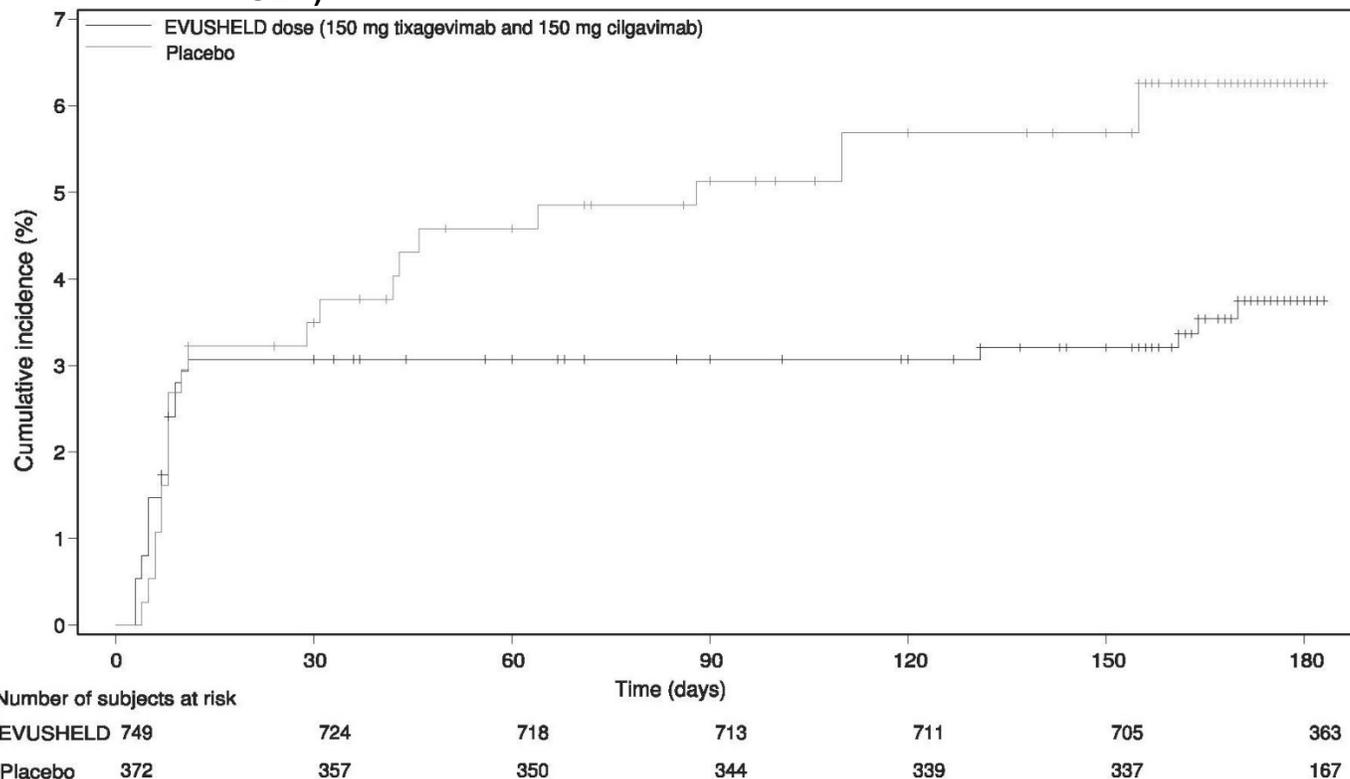
STORM CHASER is an ongoing Phase III randomized (2:1), double-blind, placebo-controlled clinical trial of EVUSHELD for the post-exposure prophylaxis of COVID-19 in adults  $\geq 18$  years of age. Subjects who had not previously received a COVID-19 vaccine were enrolled following potential exposure (within 8 days) to an identified individual with a laboratory-confirmed SARS-CoV-2 infection (symptomatic or asymptomatic). Subjects received a single dose (administered as two IM injections) of EVUSHELD or placebo. The study excluded subjects with a history of laboratory-confirmed SARS-CoV-2 infection or SARS-CoV-2 antibody positivity at screening. Once COVID-19 vaccines were locally available, subjects were permitted on request to unblind to make an informed decision on vaccine timing and to receive COVID-19 vaccination.

Of the 1,121 subjects who were randomized and received EVUSHELD (N= 749) or placebo (N= 372), 48 subjects were positive for SARS-CoV-2 (RT-PCR analysis of nasopharyngeal swabs) at baseline.

The primary efficacy analysis, comparison of the incidence of a subject's first case of SARS-CoV-2 RT-PCR-positive symptomatic illness occurring post-dose and before Day 183, did not demonstrate a statistically significant effect for EVUSHELD versus placebo with 23 cases of symptomatic COVID-19 in the EVUSHELD arm (3.1%) and 17 cases in the placebo arm (4.6%) (relative risk reduction of 33%, 95% CI: -26, 65). At the time of analysis the median follow-up time post-administration was 49 days (range 5 to 115 days).

The study did not demonstrate benefit for EVUSHELD in preventing symptomatic COVID-19 in the first 30 days after randomization, leading to the limitation of use for post-exposure prophylaxis [see [Emergency Use Authorization \(1\)](#)]. However, there was a higher proportion of symptomatic COVID-19 cases among placebo recipients after Day 29 (see Figure 2 below, data from the post-hoc updated efficacy analysis with a median follow-up time of 6.5 months). EVUSHELD is not authorized for post-exposure prophylaxis of COVID-19 in individuals who have been exposed to someone infected with SARS-CoV-2.

**Figure 2 Kaplan Meier: Cumulative Incidence of Symptomatic COVID-19\* (STORM CHASER)**



\* Subjects who do not experience a primary endpoint event (and had not discontinued) are censored at Day 183.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### How Supplied

Each EVUSHELD co-packaged carton contains two vials (Table 8):

- 1 single-dose vial of tixagevimab injection as a sterile, preservative-free, clear to opalescent and colorless to slightly yellow solution.
- 1 single-dose vial of cilgavimab injection as a sterile, preservative-free, clear to opalescent and colorless to slightly yellow solution.

**Table 8 EVUSHELD co-packaged carton contents**

Carton (2 vials per pack)	Components	
	1 vial of Tixagevimab 150 mg/1.5 mL (100 mg/mL) (dark grey cap)	1 vial of Cilgavimab 150 mg/1.5 mL (100 mg/mL) (white cap)
NDC 0310-7442-02	NDC 0310-8895-01	NDC 0310-1061-01

### Storage and Handling

Store unopened vials in a refrigerator at 2°C to 8°C (36°F to 46°F) in the original carton to protect from light. Discard any unused portion.

DO NOT FREEZE. DO NOT SHAKE.

## 17 PATIENT COUNSELING INFORMATION

As a prescribing healthcare practitioner, you must communicate to the patient, parent and caregiver information consistent with the “FACT SHEET FOR PATIENTS, PARENTS OR CAREGIVERS” and provide them with a copy of this Fact Sheet prior to administration of EVUSHELD.

### Dosing

Inform individuals that they will need to receive additional doses of EVUSHELD every 6 months if ongoing protection is needed [see [Dosage and Administration \(2.1\)](#), and [Clinical Pharmacology \(12.3\)](#)].

### Cardiovascular Events

Inform individuals that a higher proportion of subjects who received EVUSHELD versus placebo reported cardiovascular serious adverse events (myocardial infarctions and heart failure). Advise individuals to seek immediate medical attention if they experience any signs or symptoms suggestive of a cardiovascular event [see [Warnings and Precautions \(5.4\)](#)].

For additional information, please visit the website or call the telephone number provided below.

To access the most recent EVUSHELD Fact Sheets, please scan the QR code provided below.

Website	Telephone number
<a href="http://www.evusheld.com">http://www.evusheld.com</a> 	1-800-236-9933

## 18 MANUFACTURER INFORMATION

**Distributed by:** AstraZeneca Pharmaceuticals LP, Wilmington, DE 19850

**Manufactured for:** AstraZeneca Pharmaceuticals LP, Wilmington, DE 19850



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