

DEPARTMENT OF HEALTH

TO:Vermont Health Care Providers and Health Care Facilities**FROM:**Jennifer S. Read, MD, FIDSA, Medical Epidemiologist

Monoclonal Antibody Treatment for COVID-19

The <u>Health Update of March 3, 2021</u> provided information regarding SARS-CoV-2 monoclonal antibodies for the treatment of COVID-19. As noted, several monoclonal antibody preparations have been developed for the treatment of COVID-19.

- 1. National guidelines exist and are continuously being updated regarding utilization of these treatments. In order to have the most up-to-date information, it is important to access and review these guidelines on a regular basis.
 - a. According to the <u>National Institutes of Health COVID-19 Treatment Guidelines</u> and <u>the</u> <u>COVID-19 Treatment Guidelines Panel's Statement on the Emergency Use Authorization</u> <u>of the Bamlanivimab Plus Etesevimab Combination for the Treatment of COVID-19</u>:
 - **Bamlanivimab** and the **casirivimab plus imdevimab combination** should not be considered standard of care for the treatment of patients with COVID-19.
 - The Panel recommends the use of **bamlanivimab 700 mg plus etesevimab 1,400 mg** for the treatment of outpatients with mild to moderate COVID-19 who are at high risk of clinical progression*. Treatment should be started as soon as possible after the patient has received a positive result on a SARS-CoV-2 antigen or nucleic acid amplification test and within 10 days of symptom onset.
 - Laboratory studies suggest that bamlanivimab and etesevimab have activity against the SARS-CoV-2 B.1.1.7 variant but have markedly reduced activity against the B.1.351 variant. At this time, the B.1.351 variant has rarely been detected amongst SAR-CoV-2 samples sequenced in the United States. Ongoing population-based genomic surveillance of the types and frequencies of circulating SARS-CoV-2 variants will be important in defining the utility of bamlanivimab plus etesevimab in the future.
 - The Panel recommends against the use of **bamlanivimab 700 mg plus** etesevimab 1,400 mg for patients who are hospitalized because of COVID-19, except in a clinical trial. However, **bamlanivimab 700 mg plus etesevimab 1,400** mg should be considered for persons with mild to moderate COVID-19 who are hospitalized for a reason other than COVID-19 but who otherwise meet the EUA criteria.
 - There are insufficient pediatric data to recommend either for or against the use of **bamlanivimab plus etesevimab or other monoclonal antibody products** for

You have received this message based upon the information contained within our emergency notification data base. If you have a different or additional e-mail address or fax number that you would like us to use please contact your Health Alert Network (HAN) Coordinator at: <u>vthan@vermont.gov</u>



children with COVID-19 who are not hospitalized but who have risk factors for severe disease. Based on adult studies, **bamlanivimab plus etesevimab** may be considered on a case-by-case basis for children who meet EUA criteria, especially those who meet more than one criterion or are aged ≥ 16 years. In such cases, consultation with a pediatric infectious disease specialist is recommended.

- b. Recommendations in the <u>Infectious Diseases Society of America treatment guidelines</u> are as follows:
 - Among ambulatory patients with mild to moderate COVID-19 at high risk for progression to severe disease, the IDSA guideline panel suggests
 bamlanivimab/etesevimab rather than no bamlanivimab/etesevimab.
 - Patients with mild to moderate COVID-19 who are at high risk* of progression to severe disease admitted to the hospital for reasons other than COVID-19 may also receive **bamlanivimab/etesevimab**.
 - For patients at high risk* for progression to severe disease, the data are strongest for bamlanivimab/etesevimab. Bamlanivimab monotherapy or casirivimab/imdevimab may have similar clinical benefit, but data are more limited.
 - There are limited data on efficacy of **bamlanivimab/etesevimab** in high-risk patients between 12 and 18 years of age.
 - Among hospitalized patients with severe COVID-19, the IDSA guideline panel recommends against **bamlanivimab monotherapy**.

*The U.S. Food and Drug Administration's Emergency Use Authorization allows for the use of **bamlanivimab plus etesevimab** for the treatment of COVID-19 in non-hospitalized adults and children aged ≥12 years and weighing ≥40 kg who are at high risk for progressing to severe COVID-19 and/or hospitalization. High-risk individuals are those who meet at least one of the following criteria:

- BMI ≥35
- Chronic kidney disease
- Diabetes mellitus
- Immunocompromising condition
- Currently receiving immunosuppressive treatment
- Aged ≥65 years
- Aged ≥55 years and have:
 - o Cardiovascular disease; or

You have received this message based upon the information contained within our emergency notification data base. If you have a different or additional e-mail address or fax number that you would like us to use please contact your Health Alert Network (HAN) Coordinator at: <u>vthan@vermont.gov</u>



- o Hypertension; or
- Chronic obstructive pulmonary disease/other chronic respiratory disease.
- Aged 12 to 17 years and have:
 - BMI ≥85th percentile for their age and gender based on the Centers for Disease Control and Prevention growth charts; or
 - Sickle cell disease; or
 - Congenital or acquired heart disease; or
 - Neurodevelopmental disorders, for example, cerebral palsy; or
 - A medical-related technological dependence, for example, tracheostomy, gastrostomy, or positive pressure ventilation (not related to COVID-19); or
 - Asthma or a reactive airway or other chronic respiratory disease that requires daily medication for control.
- 2. Monoclonal antibodies for COVID-19 treatment are no longer being allocated by the state. Infusion sites can order these therapies directly. Sites with recent orders can be found here: <u>https://protect-public.hhs.gov/pages/therapeutics-distribution#distribution-locations</u>
- 3. The <u>Health Update of March 3, 2021</u> provided contact information for three of the medical facilities offering SARS-CoV-2 monoclonal antibody treatment in Vermont: Gifford Hospital, Northeastern Vermont Regional Hospital, and Rutland Regional Medical Center. Contact information for two additional facilities are listed here:
 - **Porter Medical Center:** Referring providers can contact the PMC Infusion Center at (802) 388-4701.
 - Brattleboro Memorial Hospital: Referring providers can call (802) 257-8838 for infusion services.
- Because circulating SARS-CoV-2 variants may be resistant to monoclonal antibodies. Clinicians can refer to the following website for reports of viral variants of importance in their region: <u>https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variantproportions.html</u>

Because of the sustained increase in SARS-CoV-2 variants in the U.S. that are resistant to **bamlanivimab** monotherapy, and the availability of other authorized monoclonal antibody therapies that are expected to retain activity to these variants (**bamlanivimab plus etesevimab** and **casirivimab plus imdevimab**), the U.S. Government (in coordination with Eli Lilly and Company, stopped the distribution of **bamlanivimab** alone (monotherapy) starting on March 24, 2021.

You have received this message based upon the information contained within our emergency notification data base. If you have a different or additional e-mail address or fax number that you would like us to use please contact your Health Alert Network (HAN) Coordinator at: <u>vthan@vermont.gov</u>



Requested Actions:

- 1. Be familiar with current national recommendations regarding use of monoclonal antibodies for the treatment of COVID-19.
- 2. Be familiar with the location of sites where monoclonal antibody infusions for the treatment of COVID-19 are available.

If you have any questions, please contact the HAN Coordinator at 802-859-5900 or <u>vthan@vermont.gov.</u>

HAN Message Type Definitions

Health Alert: Conveys the highest level of importance; warrants immediate action or attention.

Health Advisory: Provides important information for a specific incident or situation may not require immediate action.

Health Update: Provides updated information regarding an incident or situation; unlikely to require immediate action.

Info Service Message: Provides general correspondence from VDH, which is not necessarily considered to be of an emergent nature.

You have received this message based upon the information contained within our emergency notification data base. If you have a different or additional e-mail address or fax number that you would like us to use please contact your Health Alert Network (HAN) Coordinator at: <u>vthan@vermont.gov</u>