

## **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

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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  $\geq 16$  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

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- 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.

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## **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.

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