

#### Mechanism of Action

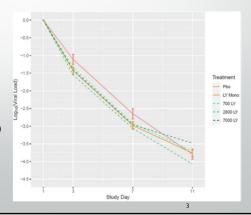
- Bamlanivimab is a recombinant neutralizing human IgG1k monoclonal antibody (mAb) to the spike protein of SARS-CoV-2, and is unmodified in the Fc region.
- Bamlanivimab binds to spike protein and blocks attachment to the human ACE2 receptor.

#### End Points of BLAZE-1 Trial

- Primary
  - Decrease in Viral Load
- Secondary
  - Decrease in Hospitalization/ER vs Placebo (1-2% vs 6%)
  - High risk population (2-5% vs 10%)

Figure:

SARS-CoV-2 viral load change from baseline



#### EUA Authorization of Bamlanivimab by FDA

- Bamlanivimab is authorized for use for treatment of mild to moderate COVID-19 in adults and pediatric patients with positive results of direct SARS-CoV-2 viral testing who are 12 years of age and older weighing at least 40 kg, and who are at high risk for progressing to severe COVID-19 and/or hospitalization.
- Bamlanivimab is not authorized for use in patients:
  - who are hospitalized due to COVID-19, OR
  - who require oxygen therapy due to COVID-19, OR
  - who require an increase in baseline oxygen flow rate due to COVID-19 in those on chronic oxygen therapy due to underlying non-COVID-19 related comorbidity.

#### Adverse Reactions

- Infusion-related Reactions including Hypersensitivity and Anaphylaxis
  - Fever, chills, nausea, headache, bronchospasm, hypotension, angioedema, throat irritation, rash including urticaria, pruritus, myalgia, dizziness.
  - If an infusion-related reaction occurs, consider slowing or stopping the infusion and administer appropriate medications (IV Benadryl/Epinephrine) and/or supportive care.
- Adverse Events (Bamlanivimab 700 mg IV vs placebo)
  - Nausea (3% vs 4%), Diarrhea (1% vs 5%), Dizziness (3% vs 2%), Headache (3% vs 2%), Pruritus (2% vs 1%) and Vomiting (1% vs 3%).

Administration Protocol

- Coordinated Effort between State Health Department, Local Hospitals and Pharmacies, Facilities and Staff
- Place Orders into PCC. Enter the Care Plan for each resident.
- Consent needs obtained using the Patient Fact Sheet (Lilly) and documented in PCC.
- Pharmacy will deliver premixed IV bags of bamlanivimab to the SNF.
   Refrigerate upon arrival.
- Remove BAM IV bag 30 minutes prior to infusion and bring to room temperature. Infuse 700 mg/200ml NS over 60 minutes using IV infusion set with inline filter and IV pump.
- Monitor VS (BP HR RR O2Sat Temp) q15 min during infusion and for one hour after. Flush line and port with NS at end of infusion.

#### Administration Protocol

- Monitor for reactions per above Protocol, administer Benadryl, etc. if needed and adjust rate or discontinue infusion if needed.
- Have on hand (emergency ER Box and out of Cubex): IV Pole, IV Pump, IV Start Kit, Benadryl 50 mg vial Inj (syringe and needle to administer), Epinephrine 1 mg vial inj (syringe and needle to administer), ondansetron 4 mg po, cetirizine 10 mg po (house stock), famotidine 40 mg po, Solu-Medrol inj.
- Document IV insertion, complete PCC nursing note when infusion begins and baseline VS, PCC nursing note when infusion completes, and a final PCC nursing note 1 hour after infusion ends.
- The NP administering the infusion should document a note in PCC as well.

# Ohio Infusion Center – Risk Assessment Scoring

**Symptom Onset Date**: Must be within 10 days **Require a score of 8 or greater**.

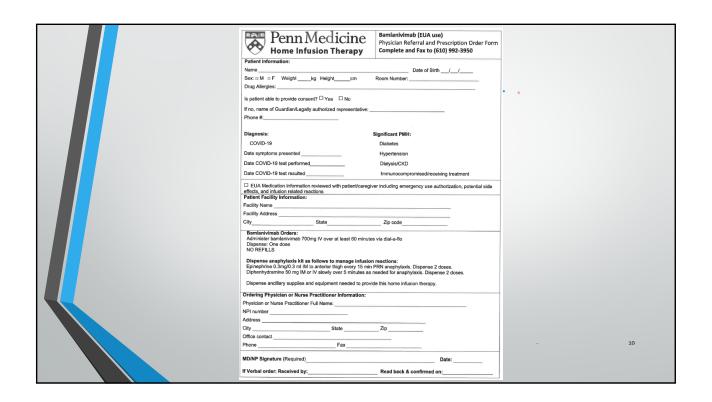
Illness Severity: 3- Moderate (fever, SOB, abnormal CXR)

 $\begin{tabular}{ll} $\textbf{1-Mild}$ \\ (fever with mild respiratory symptoms, sore throat, malaise) \end{tabular}$ 

Age >65 3
BMI>35 3
Immunosuppressed 3
CKD Stage 3 or above 2
Diabetes with HBA1c>8 2
Age >65 with COPD 2
Age >55 with HTN or CAD/CHF 1

### CVS to Pilot Administration in LTC facilities

- Department of Health and Human Services selected CVS to pilot the administration of a limited supply of Bamlanivimab to eligible COVID-19 patients in long-term care facilities or at their homes.
- CVS Health's specialty pharmacy and infusion care business, Coram, began administering 1,000 doses of monoclonal antibody therapies.
- 7 Cities:
  - Boston, Chicago, Cleveland, Los Angeles, Milwaukee, Minneapolis and Tampa



# UnitedHealth, Eli Lilly partner to study Bamlanivimab

- UnitedHealth will enroll 500,000 Medicare Advantage members who are diagnosed with COVID in the study and follow them through their treatment via daily symptom tracking and in-home testing.
- For those who need Bamlanivimab, the drug will be administered via home infusion.
- Patients who volunteer for the study will be directed to download Optum's ProtectWell app and complete questionnaires each day. Those with symptoms will take an in-home test for COVID-19, and those who are positive will be contacted by an Optum infusion nurse to schedule a treatment.
- For the study, patients will receive the therapy with no copay for the drug or infusion services

## Payment during Public Health Emergency

- The federal government has paid \$1,250 per dose for 300,000 doses of Bamlanivimab.
- The United States has the option to buy another 650,000 doses.
- CMS announced that coverage would extend to beneficiaries in nursing homes at no cost during the public health emergency.

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# Regeneron

- Regeneron COVID-19 antibody cocktail has shown the most benefit in patients who had not mounted their own immune response prior to treatment.
- The company is also seeking an EUA.

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