

Lilly's bamlanivimab and etesevimab together reduced hospitalizations and death in Phase 3 trial for early COVID-19

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- New data show therapy reduced risk of hospitalizations and death by 87 percent
- Second positive Phase 3 trial readout for bamlanivimab and etesevimab together
- Results support use of bamlanivimab 700 mg and etesevimab 1400 mg, the dose authorized in U.S. and several countries around the world

INDIANAPOLIS, March 10, 2021 /PRNewswire/ -- Eli Lilly and Company (NYSE: LLY) today announced new data from the randomized, double-blind, placebo-controlled BLAZE-1 Phase 3 study, demonstrating bamlanivimab (LY-CoV555) 700 mg and etesevimab (LY-CoV016) 1400 mg together significantly reduced COVID-19 related hospitalizations and deaths ("events") in high-risk patients recently diagnosed with COVID-19. These results provide additional efficacy and safety data that support the use of the dose recently granted both Emergency Use Authorization by the U.S. Food and Drug Administration (FDA) and a positive scientific opinion by the European Medicines Agency's (EMA) Committee for Medicinal Products for Human Use (CHMP).

This new Phase 3 cohort of BLAZE-1 included 769 high-risk patients, aged 12 and older with mild to moderate COVID-19 (therapy: n=511; placebo: n=258). There were four events in patients taking bamlanivimab with etesevimab and 15 events in patients taking placebo, representing an 87 percent risk reduction (p<0.0001). Bamlanivimab and etesevimab together also demonstrated statistically significant improvements on key secondary endpoints. These results are consistent with those seen in other data sets from BLAZE-1: in the previous Phase 3 cohort, bamlanivimab 2800 mg with etesevimab 2800 mg reduced the risk of hospitalizations and deaths by 70 percent and in the Phase 2 cohort, bamlanivimab alone reduced the risk of hospitalizations and ER visits by approximately 70 percent. The viral load reductions were also consistent with what was observed in the previous Phase 3 cohort of the study.

In this new Phase 3 cohort, there were four deaths total, all of which were deemed related to COVID-19 and all of which occurred in patients taking placebo; no deaths occurred in patients receiving treatment with bamlanivimab and etesevimab together. Across the two Phase 3 cohorts of the study that have been analyzed to date, there have been no deaths in patients receiving treatment with bamlanivimab and etesevimab together, and 14 deaths in patients receiving placebo, 13 of which were deemed COVID-19 related. In this data set, the safety profile of bamlanivimab and etesevimab together was consistent with observations from other Phase 1, Phase 2 and Phase 3 trials evaluating these antibodies.

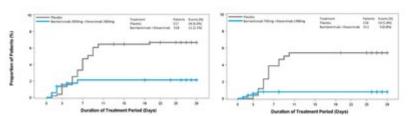


Figure 1: Time to COVID-19 related hospitalization

"These positive results reinforce our previous findings and support the authorized dose of bamlanivimab 700 mg with etesevimab 1400 mg. These compelling data – in addition to the recent EUA from FDA, the CHMP decision from EMA and the recommendation for the therapy in the National Institutes of Health's COVID-19 Treatment Guidelines – give healthcare providers additional information regarding the use of bamlanivimab and etesevimab together as a potentially life-saving treatment to help those most at risk for severe complications of COVID-19," said Daniel Skovronsky, M.D., Ph.D., Lilly's chief scientific officer and president of Lilly Research Laboratories. "The consistent results observed in multiple cohorts of this trial over several months, even as new strains of COVID-19 have emerged, indicate bamlanivimab with etesevimab maintains its effects against a range of variants, particularly those circulating in the U.S."

Lilly continues to engage with global regulators to make bamlanivimab alone and bamlanivimab and etesevimab together available around the world. Bamlanivimab alone and bamlanivimab with etesevimab together are authorized under special/emergency pathways, in the context of the pandemic, in the U.S. and the European Union. In addition, bamlanivimab alone is authorized for emergency use in Canada, Panama, Kuwait, the UAE, Israel, Rwanda, Morocco and numerous other countries. Through Lilly's work with the Bill & Melinda Gates Foundation, Lilly is providing doses of bamlanivimab free of charge in Rwanda and Morocco.

For more information about the use of bamlanivimab alone or bamlanivimab and etesevimab together for the treatment of mild to moderate COVID-19 in high-risk patients under the FDA's emergency use authorization, contact Lilly's 24-hour support line at 1-855-LillyC19 (1-855-545-5921). Patients and physicians can visit <u>Jillyantibody.com</u> to learn more, including how to find a potential treatment location.

For media resources, including product images and fact sheets, please click here.

Important Information about bamlanivimab alone and bamlanivimab and etesevimab together

Bamlanivimab and etesevimab together and bamlanivimab alone have not been approved by the FDA for any use. It is not known if bamlanivimab and etesevimab together or bamlanivimab alone are safe and effective for the treatment of COVID-19.

Bamlanivimab and etesevimab together and bamlanivimab alone are authorized under Emergency Use Authorization only for the duration of the declaration that circumstances exist justifying the authorization of the emergency use under Section 564(b)(1) of the Act, 21 U.S.C § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

Healthcare providers should review the Fact Sheet for information on the authorized use of bamlanivimab and etesevimab together and bamlanivimab alone and mandatory requirements of the EUA. Please see the <u>FDA Letter of Authorization</u>, <u>Fact Sheet for Healthcare Providers</u>, and Fact Sheet for Patients, Parents and Caregivers (<u>English</u>) (<u>Spanish</u>) for bamlanivimab and etesevimab together. Please see the <u>FDA Letter of Authorization</u>, <u>Fact Sheet for Healthcare Providers</u>, and Fact Sheet for Patients, Parents and Caregivers (<u>English</u>) (<u>Spanish</u>) for bamlanivimab alone.

Authorized Use and Important Safety Information

Bamlanivimab and etesevimab together and bamlanivimab alone are authorized for use under EUA for treatment of mild to moderate COVID-19 in adults and pediatric patients (12 years of age and older weighing at least 40 kg) with positive results of direct SARS-CoV-2 viral testing, and who are at high risk for progressing to severe COVID-19 and/or hospitalization.

Limitations of Authorized Use

- Bamlanivimab and etesevimab together and bamlanivimab alone are not authorized for use in patients:
 - o 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.
- Treatment with bamlanivimab and etesevimab together has not been studied in patients hospitalized due to COVID-19. Benefit of treatment with bamlanivimab alone has not been observed in patients hospitalized due to COVID-19. Monoclonal antibodies, such as bamlanivimab and etesevimab, may be associated with worse clinical outcomes when administered to hospitalized patients with COVID-19 requiring high flow oxygen or mechanical ventilation.

Important Safety Information

There are limited clinical data available for bamlanivimab and etesevimab together and bamlanivimab alone. Serious and unexpected adverse events may occur that have not been previously reported with bamlanivimab and etesevimab together and bamlanivimab alone.

Hypersensitivity Including Anaphylaxis and Infusion-Related Reactions

Serious hypersensitivity reactions, including anaphylaxis, have been observed with administration of bamlanivimab and etesevimab together and bamlanivimab alone. If signs and symptoms of a clinically significant hypersensitivity reaction or anaphylaxis occur, immediately discontinue administration and initiate appropriate medications and/or supportive care.

Infusion-related reactions have been observed with administration of bamlanivimab and etesevimab together and bamlanivimab alone. These reactions may be severe or life threatening. Signs and symptoms of infusion-related reactions may include:

• fever, difficulty breathing, reduced oxygen saturation, chills, fatigue, arrhythmia (e.g. atrial fibrillation, sinus tachycardia, bradycardia), chest pain or discomfort, weakness, altered mental status, nausea, headache, bronchospasm, hypotension, hypertension, angioedema, throat irritation, rash including urticaria, pruritus, myalgia, dizziness, and diaphoresis.

If an infusion-related reaction occurs, consider slowing or stopping the infusion and administer appropriate medications and/or supportive care.

Clinical Worsening After Bamlanivimab Administration

Clinical worsening of COVID-19 after administration of bamlanivimab has been reported and may include signs or symptoms of fever, hypoxia or increased respiratory difficulty, arrhythmia (e.g., atrial fibrillation, sinus tachycardia, bradycardia), fatigue, and altered mental status. Some of these events required hospitalization. It is not known if these events were related to bamlanivimab use or were due to progression of COVID-19.

Limitations of Benefit and Potential Risk in Patients with Severe COVID-19

Treatment with bamlanivimab and etesevimab together has not been studied in patients hospitalized due to COVID-19. Benefit of treatment with bamlanivimab alone has not been observed in patient hospitalized due to COVID-19. Monoclonal antibodies, such as bamlanivimab and etesevimab, may be associated with worse clinical outcomes when administered to hospitalized patients with COVID-19 requiring high flow oxygen or mechanical ventilation. See Limitations of Authorized Use.

Adverse Events

Bamlanivimab and etesevimab together

Based on Phase 2 data from BLAZE-1, nausea was the most commonly reported adverse event, reported by 4% of subjects in both bamlanivimab and etesevimab together and placebo groups. Pruritus and pyrexia were more frequently reported from subjects treated with both bamlanivimab and etesevimab (2% and 1%) compared to placebo (1% and 0%, respectively).

Based on Phase 3 data from BLAZE-1, the most common adverse events were nausea, dizziness, and rash. These events each occurred in 1% of subjects treated with bamlanivimab and etesevimab together and in 1% of placebo subjects.

Bamlanivimab alone

Adverse events reported in at least 1% of BLAZE-1 clinical trial participants on bamlanivimab 700 mg alone or placebo were 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%).

Use in Specific Populations

Pregnancy

There are insufficient data on the use of bamlanivimab and etesevimab together and bamlanivimab alone during pregnancy. Bamlanivimab and etesevimab together and bamlanivimab alone should only be used during pregnancy if the potential benefit outweighs the potential risk for the mother

and the fetus.

Breastfeeding

There are no available data on the presence of bamlanivimab or etesevimab in human or animal milk, the effects on the breastfed infant, or the effects on milk production. Breastfeeding individuals with COVID-19 should follow practices according to clinical guidelines to avoid exposing the infant to COVID-19.

About bamlanivimab

Bamlanivimab is a recombinant, neutralizing human IgG1 monoclonal antibody (mAb) directed against the spike protein of SARS-CoV-2. It is designed to block viral attachment and entry into human cells, thus neutralizing the virus, potentially treating COVID-19. Bamlanivimab emerged from the collaboration between Lilly and AbCellera to create antibody therapies for the prevention and treatment of COVID-19. Lilly scientists rapidly developed the antibody in less than three months after it was discovered by AbCellera and the scientists at the National Institute of Allergy and Infectious Diseases (NIAID) Vaccine Research Center. It was identified from a blood sample taken from one of the first U.S. patients who recovered from COVID-19.

Lilly has successfully completed a Phase 1 study of bamlanivimab in hospitalized patients with COVID-19 (NCT04411628). A Phase 2/3 study in people recently diagnosed with COVID-19 in the ambulatory setting (BLAZE-1, NCT04427501) is ongoing. A Phase 3 study of bamlanivimab alone or bamlanivimab and etesevimab together in residents and staff at long-term care facilities (BLAZE-2, NCT04497987) is also ongoing. In addition, bamlanivimab is being tested in the National Institutes of Health-led ACTIV-2 study in ambulatory COVID-19 patients.

About etesevimab

Etesevimab (LY-CoV016, also known as JS016) is a recombinant fully human monoclonal neutralizing antibody, which specifically binds to the SARS-CoV-2 surface spike protein receptor binding domain with high affinity and can block the binding of the virus to the ACE2 host cell surface receptor. Point mutations were introduced into the native human IgG1 antibody to mitigate effector function. Lilly licensed etesevimab from Junshi Biosciences after it was jointly developed by Junshi Biosciences and the Institute of Microbiology, Chinese Academy of Science (IMCAS). Junshi Biosciences leads development in Greater China, while Lilly leads development in the rest of the world.

Lilly has successfully completed a Phase 1 study (NCT04441931) of etesevimab in healthy U.S. volunteers to evaluate the safety, tolerability, pharmacokinetics and immunogenicity. A Phase 2/3 study in people recently diagnosed with COVID-19 in the ambulatory setting (BLAZE-1, NCT04427501) is ongoing. Junshi Biosciences has completed a similar Phase 1 study in healthy volunteers in China and has initiated Phase 1b/2 trials in COVID-19 patients globally.

About BLAZE-1

BLAZE-1 (NCT04427501) is a randomized, double-blind, placebo-controlled Phase 2/3 study designed to assess the efficacy and safety of bamlanivimab alone or bamlanivimab and etesevimab together for the treatment of symptomatic COVID-19 in the outpatient setting. To be eligible, patients were required to have mild or moderate symptoms of COVID-19 as well as a positive SARS-CoV-2 test based on a sample collected no more than three days prior to drug infusion.

In the Phase 2 portion of BLAZE-1, cohorts of mild to moderate recently diagnosed COVID-19 patients, were randomized to one of three doses of bamlanivimab (700 mg, 2800 mg, and 7000 mg), bamlanivimab 2800 mg plus etesevimab 2800 mg, or placebo. Results from the Phase 2 cohorts of BLAZE-1 were published in the <u>New England Journal of Medicine</u> and <u>The Journal of the American Medical Association</u>.

In the Phase 3 portion of BLAZE-1, the combination therapy arms enrolled mild to moderate, recently diagnosed COVID-19 patients who are at high risk for progressing to severe COVID-19 and/or hospitalization, studying bamlanivimab 2800 mg plus etesevimab 2800 mg versus placebo, and bamlanivimab 700 mg plus etesevimab 1400 mg versus placebo. The primary outcome measure for the Phase 3 portion of the BLAZE-1 trial was the percentage of participants who experience COVID-related hospitalizations or death from any cause by day 29. The key secondary endpoints were change from baseline to day 7 in SARS-CoV-2 viral load, persistently high SARS-CoV-2 viral load on day 7, time to sustained symptom resolution, and COVID-related hospitalization, ER visit or death from any cause from baseline by day 29. Additional endpoints include change from baseline in viral load at other time points, symptom improvement, symptom resolution, as well as safety.

The study is ongoing with additional treatment arms.

About Lilly's COVID-19 Efforts

Lilly is bringing the full force of its scientific and medical expertise to attack the coronavirus pandemic around the world. Existing Lilly medicines are being studied to understand their potential in treating complications of COVID-19, and the company is collaborating with partner companies to discover and develop novel antibody treatments for COVID-19. Lilly is testing both single antibody therapy as well as combinations of antibodies as potential therapeutics for COVID-19. Click here for resources related to Lilly's COVID-19 efforts.

About Eli Lilly and Company

Lilly is a global healthcare leader that unites caring with discovery to create medicines that make life better for people around the world. We were founded more than a century ago by a man committed to creating high-quality medicines that meet real needs, and today we remain true to that mission in all our work. Across the globe, Lilly employees work to discover and bring life-changing medicines to those who need them, improve the understanding and management of disease, and give back to communities through philanthropy and volunteerism. To learn more about Lilly, please visit us at www.lilly.com/news. P-LLY

Lilly Cautionary Statement Regarding Forward-Looking Statements

This press release contains forward-looking statements (as that term is defined in the Private Securities Litigation Reform Act of 1995) about bamlanivimab (LY-CoV555) alone or bamlanivimab and etesevimab (LY-CoV016) together as potential treatments for patients with COVID-19, as well as its supply and distribution, and reflects Lilly's current beliefs and expectations. However, as with any such undertaking, there are substantial risks and uncertainties in the process of drug development and commercialization. Among other things, there can be no guarantee that future study results will be consistent with the results to date, that bamlanivimab alone or bamlanivimab and etesevimab together will prove to be safe and effective treatments or successful preventative therapies for COVID-19, that bamlanivimab alone or bamlanivimab and etesevimab together will receive regulatory approvals or additional authorizations, or that Lilly can provide an adequate supply of bamlanivimab alone or bamlanivimab and etesevimab together in all circumstances. For a further discussion of these and other risks and uncertainties that could cause actual results to differ from Lilly's expectations, please see Lilly's most recent Forms 10-K and 10-Q filed with the U.S. Securities and Exchange Commission. Lilly undertakes no duty to

update forward-looking statements.

Refer to: Molly McCully; mccully_molly@lilly.com; 317-478-5423 (Media)

Dani Barnhizer: dbarnhizer@lilly.com; 317-607-6119 (Media) Kevin Hern; hern-kevin-r@lilly.com; 317-277-1838 (Investors)



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