

FACULTY AND DISCLOSURES



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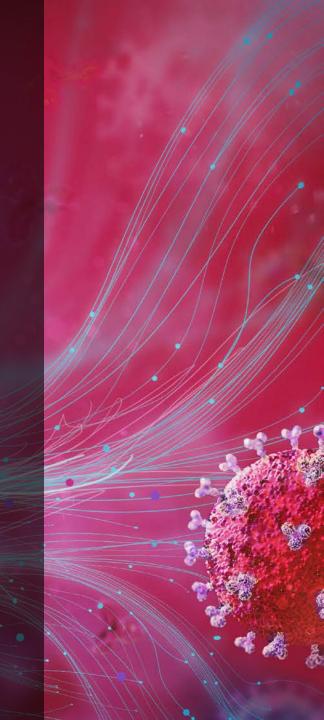


WE ENCOURAGE INTERACTION

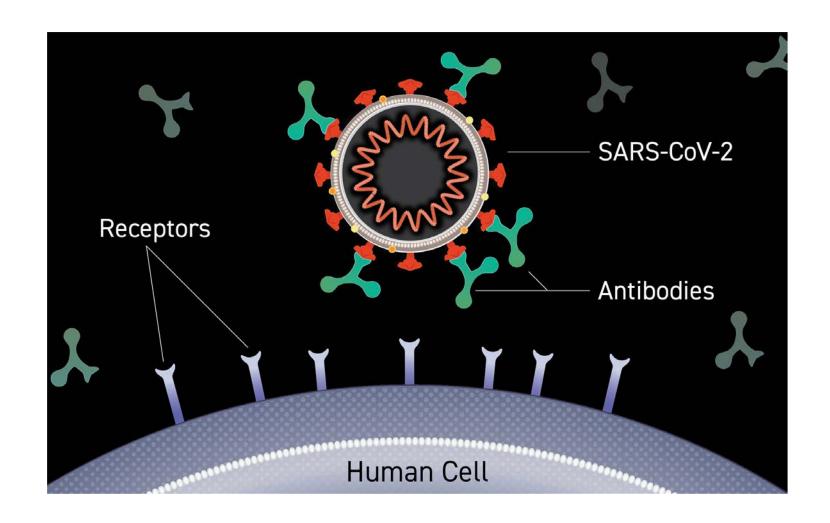
Polling questions

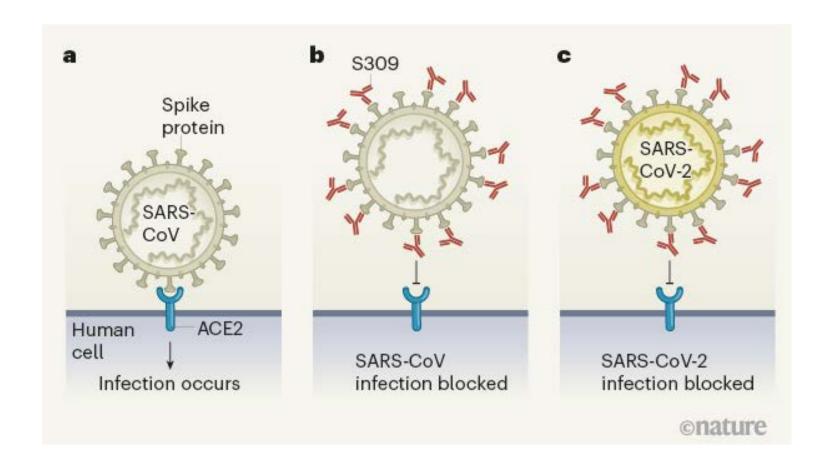
Submit your questions anytime

This continuing medical education activity will include reference(s) to unlabeled or unapproved uses of drugs or devices.









WHAT NEUTRALIZING mAbs HAVE EUA?

Bamlanivimab¹

NOVEMBER

Single mAb

Casirivimab/ imdevimab²

NOVEMBER

Combination mAb Combination mAb

Bamlanivimab/ etesevimab³

FEBRUARY

https://www.covid19.lilly.com/assets/pdf/bamlanivimab/lilly-antibodies-playbook.pdf. Accessed January 11, 2021.
 https://www.regeneron.com/casirivimabimdevimab. Accessed January 11, 2021.
 https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-authorizes-monoclonal-antibodies-treatment-covid-19-0. Accessed February 10, 2021.

EXPERT PANEL GUIDELINES



INSUFFICIENT DATA

to recommend for or against use



Recommend **AGAINST** routine use in ambulatory patients with COVID-19

In patients at high-risk a **REASONABLE** treatment option (uncertain benefit and risk)

PEDIATRIC CONSENSUS STATEMENT

Recommend AGAINST routine use in children and adolescents

COVID-19 is usually mild, so there is limited evidence of safety and efficacy in this population

WHICH OF THE FOLLOWING STATEMENTS REGARDING NEUTRALIZING mabs for treating covid-19 <u>Best</u> apply to your practice?

- A. Have prescribed neutralizing mAbs
- B. Have administered neutralizing mAbs
- C. Never utilized neutralizing mAbs in treatment of COVID-19
- D. Plan to utilize neutralizing mAbs in treatment of COVID-19



WHY WERE THESE GRANTED EUA STATUS?

SINGLE NEUTRALIZING mAb1

ORIGINAL ARTICLE

SARS-CoV-2 Neutralizing Antibody LY-CoV555 in Outpatients with Covid-19

Peter Chen, M.D., Ajay Nirula, M.D., Ph.D., Barry Heller, M.D., Robert L. Gottlieb, M.D., Ph.D., Joseph Boscia, M.D., Jason Morris, M.D., Gregory Huhn, M.D., M.P.H.T.M., Jose Cardona, M.D., Bharat Mocherla, M.D., Valentina Stosor, M.D., Imad Shawa, M.D., Andrew C. Adams, Ph.D., Jacob Van Naarden, B.S., Kenneth L. Custer, Ph.D., Lei Shen, Ph.D., Michael Durante, M.S., Gerard Oakley, M.D., Andrew E. Schade, M.D., Ph.D., Janelle Sabo, Pharm.D., Dipak R. Patel, M.D., Ph.D., Paul Klekotka, M.D., Ph.D., and Daniel M. Skovronsky, M.D., Ph.D., for the BLAZE-1 Investigators*

COMBINATION NEUTRALIZING mAb²

ORIGINAL ARTICLE

REGN-COV2, a Neutralizing Antibody Cocktail, in Outpatients with Covid-19

D.M. Weinreich, S. Sivapalasingam, T. Norton, S. Ali, H. Gao, R. Bhore, B.J. Musser, Y. Soo, D. Rofail, J. Im, C. Perry, C. Pan, R. Hosain, A. Mahmood, J.D. Davis, K.C. Turner, A.T. Hooper, J.D. Hamilton, A. Baum, C.A. Kyratsous, Y. Kim, A. Cook, W. Kampman, A. Kohli, Y. Sachdeva, X. Graber, B. Kowal, T. DiCioccio, N. Stahl, L. Lipsich, N. Braunstein, G. Herman, and G.D. Yancopoulos, for the Trial Investigators*

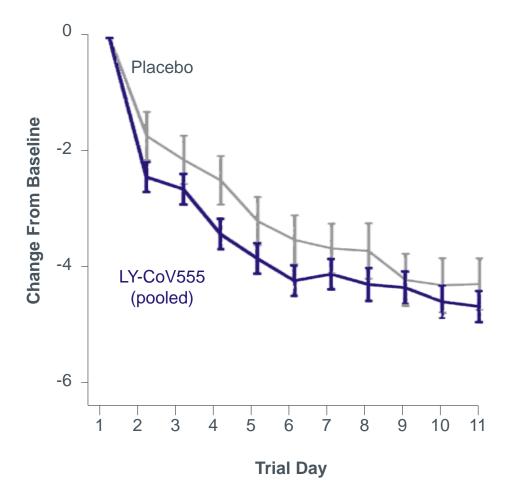
COMBINATION NEUTRALIZING mAb³

JAMA | Original Investigation

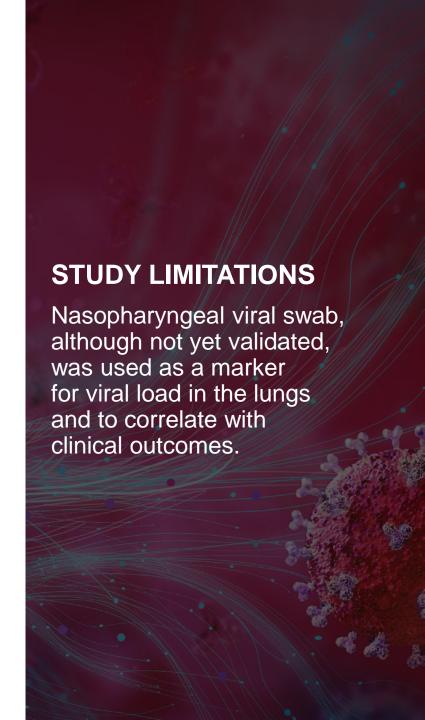
Effect of Bamlanivimab as Monotherapy or in Combination With Etesevimab on Viral Load in Patients With Mild to Moderate COVID-19 A Randomized Clinical Trial

Robert L. Gottlieb, MD, PhD; Ajay Nirula, MD, PhD; Peter Chen, MD; Joseph Boscia, MD; Barry Heller, MD; Jason Morris, MD, MS; Gregory Huhn, MD, MPHTM; Jose Cardona, MD; Bharat Mocherla, MD; Valentina Stosor, MD; Imad Shawa, MD; Princy Kumar, MD; Andrew C. Adams, PhD; Jacob Van Naarden, BS; Kenneth L. Custer, PhD; Michael Durante, MS; Gerard Oakley, MD; Andrew E. Schade, MD, PhD; Timothy R. Holzer, PhD; Philip J. Ebert, PhD; Richard E. Higgs, PhD; Nicole L. Kallewaard, PhD; Janelle Sabo, PharmD; Dipak R. Patel, MD, PhD; Paul Klekotka, MD, PhD; Lei Shen, PhD; Daniel M. Skovronsky, MD, PhD

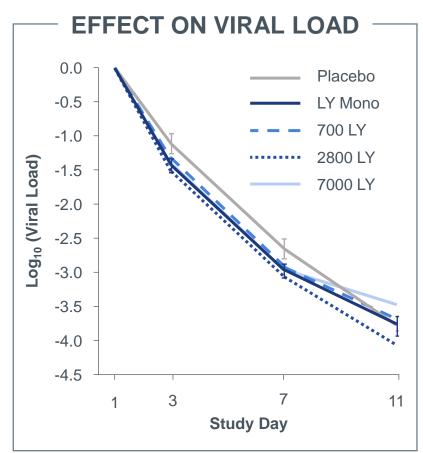
BAMLANIVIMAB: SYMPTOM IMPROVEMENT ACROSS 8 MEASURED DOMAINS

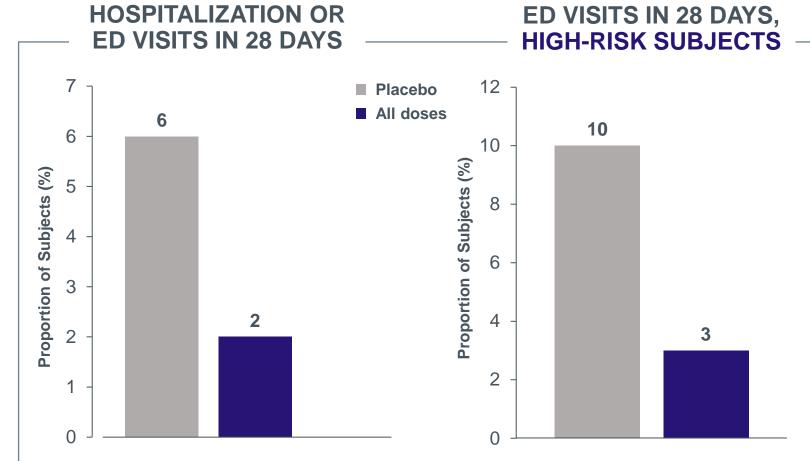


	Delta Value (95% CI)	
Day 2	-0.79 (-1.35 to -0.24)	
Day 3	-0.57 (-1.12 to -0.01)	
Day 4	-1.04 (-1.60 to -0.49)	
Day 5	-0.73 (-1.28 to -0.17)	
Day 6	-0.79 (-1.35 to -0.23)	
Day 7	-0.50 (-1.06 to 0.07)	
Day 8	-0.65 (-1.28 to -0.02)	
Day 9	-0.15 (-0.75 to 0.45)	
Day 10	-0.32 (-0.94 to 0.29)	
Day 11	-0.44 (-1.02 to 0.15)	



DATA FROM FACT SHEET FOR EUA: BAMLANIVIMAB

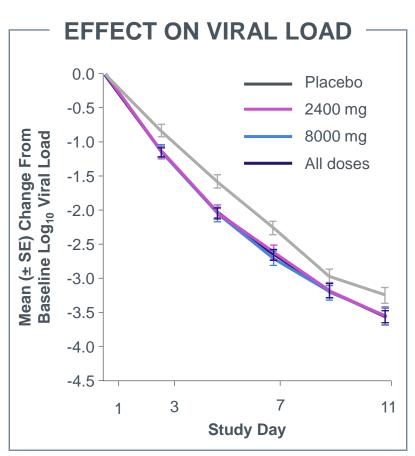


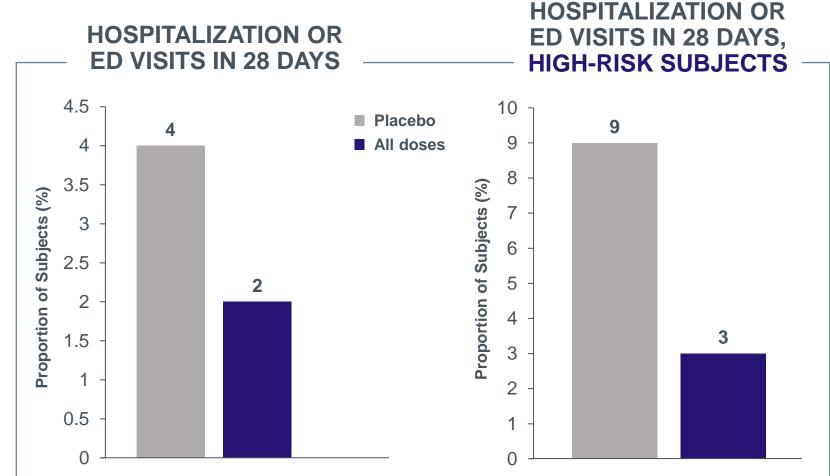


LY Mono=all bamlanivimab doses. 700 LY=bamlanivimab 700 mg. 2800 LY=bamlanivimab 2800 mg. 7000 LY=bamlanivimab 7000 mg. ED=emergency department. https://www.fda.gov/media/143603/download. Accessed February 2, 2021.

HOSPITALIZATION OR

DATA FROM FACT SHEET FOR EUA: CASIRIVIMAB/IMDEVIMAB







WHAT ARE THE EUA CRITERIA?

CLINICAL FACTORS

Positive direct SARS-CoV-2 viral test

Mild to moderate COVID-19

Within 10 days of symptom onset

Age ≥12 years and >40 kg

At high risk for progressing to severe COVID-19 and/or hospitalization





Chronic kidney disease



Diabetes mellitus



Immunosuppressive disease or treatment



Age ≥65 years



Age ≥55-64 years and have

- Cardiovascular disease
- Hypertension
- Chronic pulmonary disease

BMI=body mass index.

- 1. https://www.covid19.lilly.com/assets/pdf/bamlanivimab/lilly-antibodies-playbook.pdf. Accessed January 11, 2021. 2. https://www.regeneron.com/casirivimabimdevimab. Accessed January 11, 2021.



BMI ≥85th percentile for age and gender



Sickle cell disease



Congenital or acquired cardiac disease



Neurodevelopmental disorder



Medical-related technological dependence



Asthma or chronic respiratory disease requiring daily medication

^{1.} https://www.covid19.lilly.com/assets/pdf/bamlanivimab/lilly-antibodies-playbook.pdf. Accessed January 11, 2021.

^{2.} https://www.regeneron.com/casirivimabimdevimab. Accessed January 11, 2021.

WHEN ARE NEUTRALIZING mAbs NOT INDICATED?





Oxygen requirements

- New need for supplemental oxygen
- Increase in baseline oxygen flow rate due to COVID-19



PREGNANCY AND BREASTFEEDING NOT CONTRAINDICATIONS

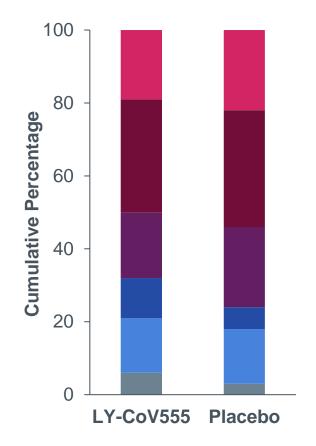
- 1. https://www.covid19.lilly.com/assets/pdf/bamlanivimab/lilly-antibodies-playbook.pdf. Accessed January 11, 2021. 2. https://www.regeneron.com/casirivimabimdevimab. Accessed January 11, 2021.



mAbs IN HOSPITALIZED PATIENTS

PULMONARY ORDINAL OUTCOME ON DAY 5

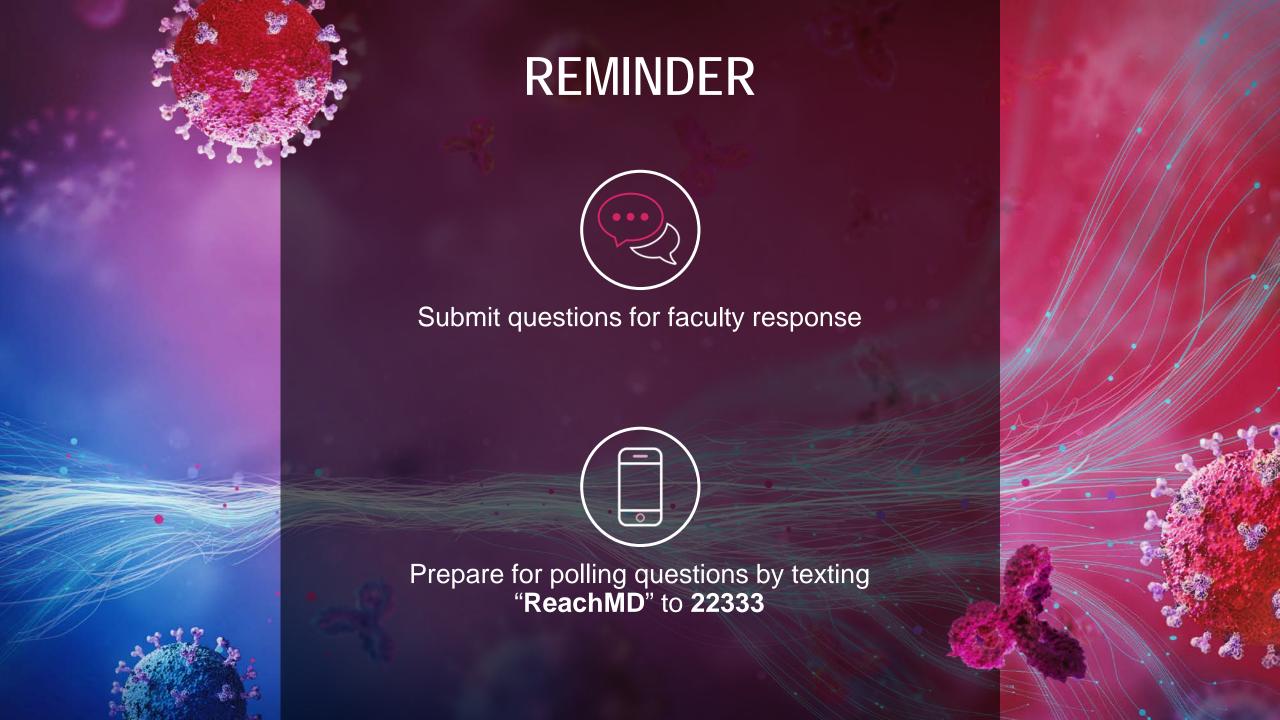
		LY-CoV555	Placebo
Category		Number of Patients (%)	
Better	1	31 (19.3)	33 (22.0)
Ğ	2	50 (31.1)	48 (32.0)
	3	29 (18.0)	231 (20.7)
Worse	4	17 (10.6)	11 (7.3)
	5	25 (15.5)	22 (14.7)
	6	8 (5.0)	5 (3.3)
	1 7	1 (0.6)	0 (0.0)



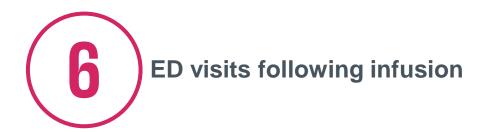
- Can independently undertake usual activities with minimal or no symptoms
- No supplemental oxygen; symptomatic and unable to independently undertake usual activities
- Supplemental oxygen <4 L/min
- Supplemental oxygen ≥4 L/min or end-organ manifestations
- Noninvasive ventilation, high-flow oxygen, or severe stroke (NIHSS score >14)
- Invasive ventilation, ECMO, mechanical circulatory support, renal replacement therapy, or vasopressor
- Death

Summary odds ratio: 0.85 (95% CI, 0.56-1.29); *P*=0.45

STUDY LIMITATIONS: It is not possible to make definitive statements about the safety of LY-CoVSSS compared with placebo because the sample size was smaller and the duration of follow-up was shorter than planned.











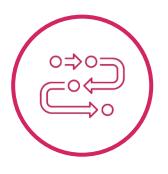
Current post-infusion deaths noted

- Passive data collection
- Causality to infusion or COVID cannot be made

ADRS

PRACTICE MANAGEMENT CONSIDERATIONS FROM THE FIELD (CONT.)

NEED A PROCESS IN PLACE BEFORE YOU START YOUR PROGRAM



Passive reporting by patients vs actively engaging patients for ADRS

HOW DO PATIENTS REPORT ADRS?



Phone number
Email address
Patient portal reminders
Actively call patients



WHICH OF THE FOLLOWING COVID-POSITIVE PATIENTS WOULD <u>NOT</u> BE APPROPRIATE FOR ADMINISTRATION OF A NEUTRALIZING mAb?

- A. Patient in an Emergency Department with CKD on room air
- B. Patient in an infusion center on chemotherapy and on continuous, unchanged supplemental O₂
- C. Patient in a nursing home with stable COPD on room air
- D. Patient in the ICU, vented on ECMO





Bamlanivimab Selection Criteria

Patients must have positive diagnostic PCR test for SARS-CoV-2 with onset of symptoms within 10 days of planned administration

AND

Fit one of the following priority level tiers

	*		
Priority	Level Tier ONE		
Age ≥65yrs AND ≥1 of the high-risk criteria	Age ≥18yrs AND BMI >35 AND ≥ 1 high-risk criteria		
Priorit	y Level Tier TWO		
Age ≥65yrs	Age ≥18yrs AND BMI >35		
Priority	Level Tier THREE		
12-64yrs AND ≥2 high-risk EUA criteria	Age 12-17yrs AND any one of the following: BMI above the 85th percentile for age/gender from CDC growth charfs: https://www.cdc.gov/growthchards/clinical_charts.htm Congenital or acquired chronic heart disease Neurodevelopmental disorders (e.g. Cerebral palsy, Huntington's disease) Known history of active sickle cell disease Chronic trach patients Chronic respiratory disease that requires chronic medication management (e.g. asthma)		
Priority	Level Tier FOUR		

12-64yrs AND 1 high-risk criteria

- · Chronic hypertension
- · chronic cardiac disease
- · chronic respiratory disease (typically requiring ongoing medical assessments)

HIGH RISK CRITERIA

- BMI > 35
- · Chronic Kidney Disease (eGFR < 50)
- Diabetes (on long term oral medication(s) and/or insulin)
- . Currently immunosuppressed, defined as any one of these:
 - o >20 mg prednisone (or equivalent steroid) daily for 2 weeks or greater
 - o Chemotherapy in the past 3 months
 - Treatment with active biologic agent in past 3 months
 - Organ transplant on active immune suppression
 - Other high dose immune suppression used for medical treatment
 - o HIV with CD4 < 200
 - Congenital immune deficiency
- COPD
- Chronic cardiac disease (documented CAD, CHF, cardiomyopathy)

- Patients hospitalized with COVID -19 illness
- Patients who require oxygen or increase of chronic oxygen needs due to COVID -19 illness
- COVID-19 infection, but failure to meet above inclusion criteria
- Weight < 40 kg
- 1. https://www.covid19.lilly.com/assets/pdf/bamlanivimab/lilly-antibodies-playbook.pdf. Accessed January 11, 2021.
- 2. https://www.regeneron.com/casirivimabimdevimab. Accessed January 11, 2021.

Exclusions for Therapy:

- . Symptoms of COVID ≥10 days
- · Hospitalized due to COVID-19
- NEW Requirement for Oxygen therapy due to COVID-19

___Congenital immune deficiency

Chronic cardiac disease (documented CAD, CHF, cardiomyopathy)

___COPD

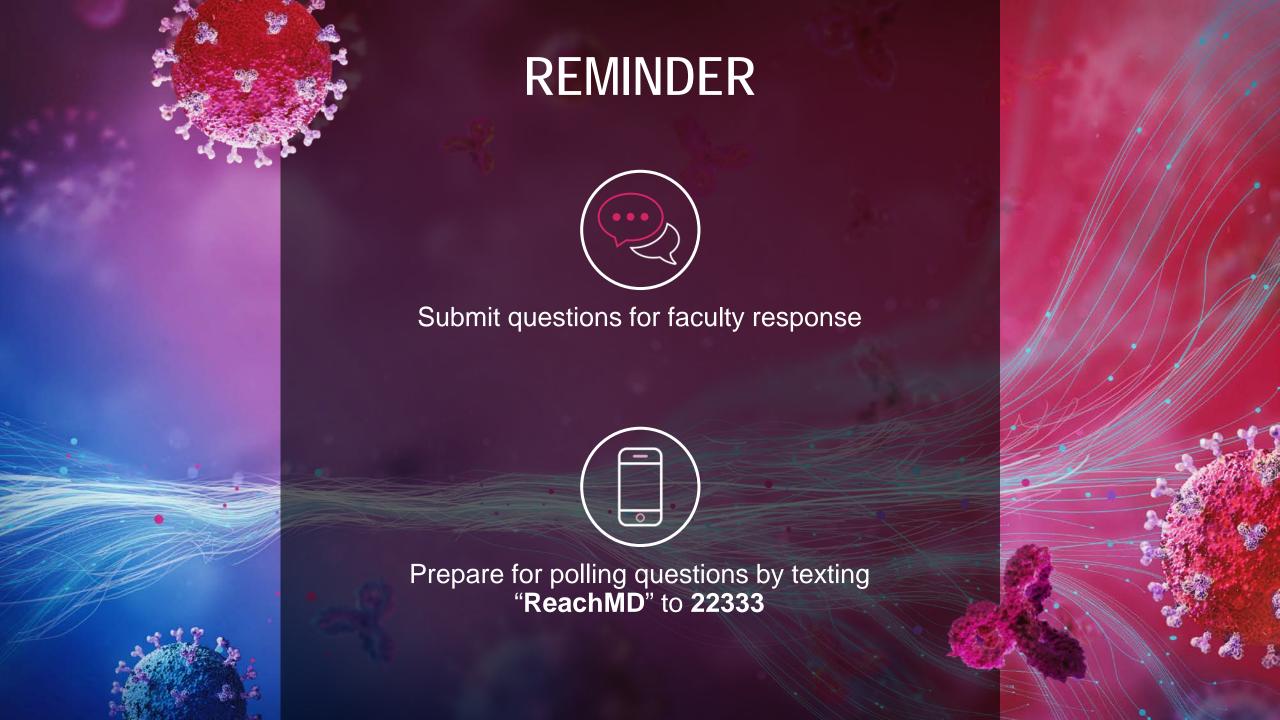
· Increased oxygen flow rate requirement due to COVID-19 when previously on oxygen therapy

Inclusion for Therapy:					
Patients must have positive diagnostic test for SARS-CoV-2 with onset of symptoms within 10 days of planned administration AND Weigh ≥40kg					
AND					
Fit ONE of the following criteria:					
Age ≥ 65 years					
Patients aged 18 years or older AND 1 or more high-risk criteria (listed below)					
Age ≥55 AND either cardiovascular disease OR hypertension OR COPD					
12-17 years AND one of the following: BMI 85 th percentile for height and weight based on CDC growth chart Sickle cell disease Congenital or acquired heart disease Neurodevelopmental disorder (example: cerebral palsy) Chronic tracheostomy, PEG or positive pressure ventilation Asthma or chronic respiratory disease that requires daily medication for control					
Any pediatric patients referred to the program will be reviewed in conjunction with our pediatric infectious diseases colleague					
•					
HIGH RISK CRITERIA					
BMI > 35					
Chronic Kidney Disease (eGFR < 50)					
Diabetes (on long term oral medication(s) and/or insulin)					
Currently immunosuppressed, defined as any one of these:>20 mg prednisone (or equivalent steroid) daily for 2 weeks or greaterChemotherapy in the past 3 monthsTreatment with active biologic agent in past 3 monthsOrgan transplant on active immune suppressionOther high dose immune suppression used for medical treatmentHIV with CD4 < 200					

EMR REPORT ELEMENTS

PRACTICE MANAGEMENT CONSIDERATIONS FROM THE FIELD

Age	Last BMI	Diahoto 2	Last GFR	Current Medications	Problem List	Order Date	Davioused	Symptom Opent
							Reviewed	Symptom Onset
80 y.o.	28.5	Yes	44	aspirin 81 mg chewable tablet; chlorthalidone	Infectious Disease Problems: Tinea pedis; Other: Type 2	01/18/2021		
				tablet; eplerenone (INSPRA) 25 mg tablet; ezetimibe (ZETIA) 10 mg tablet; fexofenadine (ALLEGRA ALLERGY) 180 mg tablet; indomethacin (INDOCIN) 25 mg capsule; insulin glargine (LANTUS U-100 INSULIN) 100 unit/mL injection; lansoprazole (PREVACID) 30 mg capsule; lisinopriL (PRINIVIL,ZESTRIL) 40 mg tablet; magnesium 200 mg tablet; metFORMIN XR (GLUCOPHATE-XR) 500 mg 24 hr tablet; metoprolol succinate XL (TOPROL-XL) 50 mg 24 hr tablet; MULTIVITAMIN ORAL; simvastatin (ZOCOR) 40 mg tablet; UBIDECARENONE (COQ-10 ORAL)	aneurysm (AAA) (CMS/HCC); CAD in native artery; Pseudophakia; Mixed hyperlipidemia; Shoulder pain; Hypertension; Low back pain; Gastroesophageal reflux disease; Obstructive sleep apnea syndrome; Diabetes mellitus (CMS/HCC); History of primary laryngeal cancer; Seborrheic keratosis; Fatty liver; COVID-19 virus infection		~	
79 y.o.		No		bamlanivimab (LY-CoV555) 700 mg in NS 200 mL - COMPOUNDED; bisoprolol (ZEBETA) 5 mg tablet; Bystolic 5 mg tablet; Dulera 100-5 mcg/actuation inhaler; Eliquis 5 mg tablet ANTICOAGULANT; furosemide (LASIX) 20 mg tablet	Heart murmur; Malignant neoplasm of prostate (CMS/HCC); Asthma; COVID-19 virus infection	01/19/2021	~	
76 y.o.	32.6	No	>60	There are too many medications to display. Please see the patient's chart for a complete list of medications.		01/18/2021	~	1/14/2021
76 y.o.	26.8	Yes	52	acetaminophen (TYLENOL) 325 mg tablet; aspirin 325 mg tablet; atorvastatin (LIPITOR) 40 mg tablet; benzonatate (TESSALON) 100 mg capsule; blood sugar diagnostic (glucose blood) strip; blood-glucose meter misc; cyanocobalamin (vitamin B-12) 1,000 mcg tablet; lancets misc; losartan (COZAAR) 25 mg tablet; metFORMIN (GLUCOPHAGE) 1,000 mg tablet;	Type 2 diabetes mellitus (CMS/HCC); Deviated nasal septum; Anxiety disorder; Hyperlipidemia; Atherosclerosis of coronary artery; Acquired trigger finger; Sensorineural hearing loss, bilateral; Obstructive sleep apnea syndrome, severe; Moderate episode of recurrent major depressive disorder (CMS/HCC); Vasomotor rhinitis; Dry eyes; Combined form of	01/18/2021	~	





KEY MESSAGES



This will require resources



Engage the public



Engage providers in your network



Don't forget to review your data→ can you do better?

- Groups served
- Time from positive test until infusion
- General health after infusion (5-14 days)
- Admissions
- ADRS, etc

THERAPY ADMINISTRATION



Can only use 0.9% sodium chloride for Injection



Polyvinyl chloride (PVC), polyethylene (PE)-lined PVC, or polyurethane (PU) infusion set



In-line or add-on 0.2 micron polyethersulfone (PES) filter



Vial(s)

 Pharmacy preparation of bag or connection devices



Timing

- Prep time until delivery= realistically is 1-1.5 hours
 - Vials must come to room temperature prior to dilution
- 1 hour infusion
- 1 hour monitoring
- 4 hours per patient

2. https://www.regeneron.com/casirivimabimdevimab. Accessed January 11, 2021.

^{1.} https://www.covid19.lilly.com/assets/pdf/bamlanivimab/lilly-antibodies-playbook.pdf. Accessed January 11, 2021.

START SMALL FIND OUT WHAT WORKS LOGISTICALLY FOR YOU!

Early December Early February



Site 1 7 days a week 42 slots a week



Site 2 Monday-Friday adds 15 slots a week



Site 3 Monday-Friday adds 20 slots a week



Site 4 Wednesday-Friday adds 18 slots a week



Site 5 7 days a week adds 24 slots a week



Site 6 Monday-Friday adds 10 slots a week

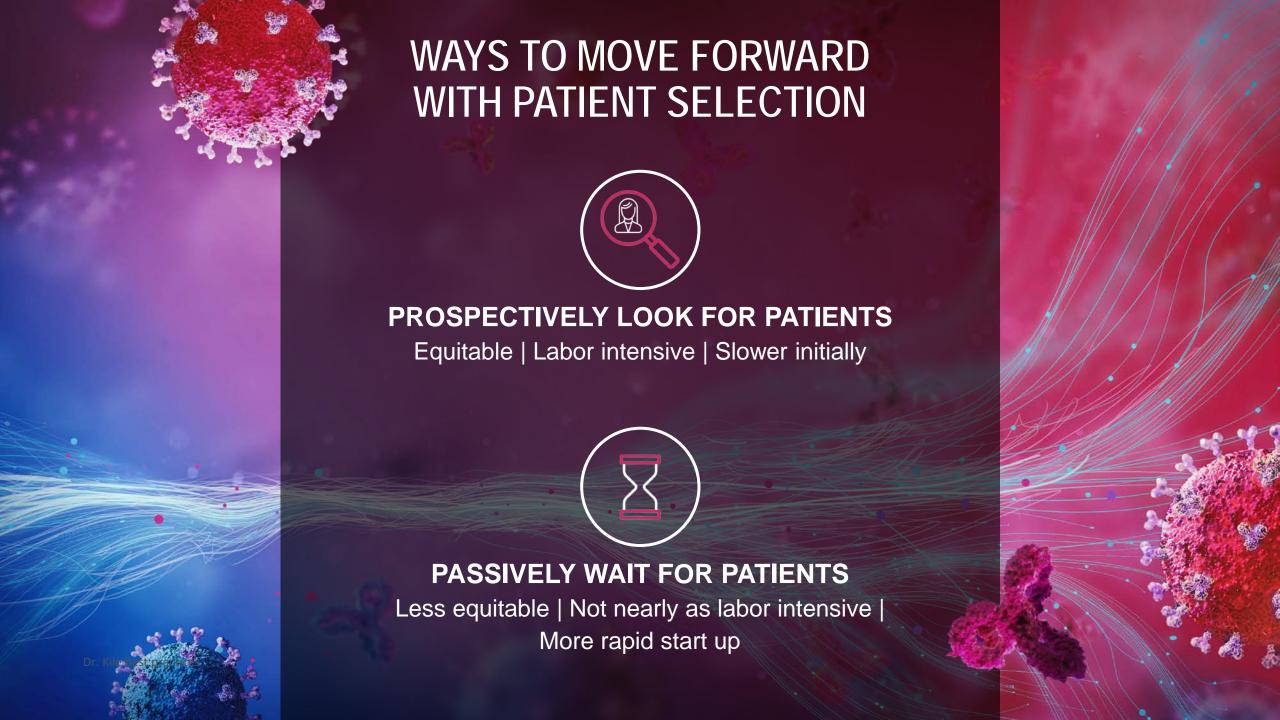
TOTAL SLOTS PER WEEK

129

WHAT IS YOUR GREATEST CHALLENGE IN THE USE OF NEUTRALIZING mAbs?

- A. I am concerned about the safety of these therapies
- B. I am unclear who the right patients are
- C. I am not in a large medical center, so I am not clear how to connect patients with an infusion center
- D. It is too late by the time that I see patients
- E. I don't know how to get infusions covered
- F. Other





LVHN EXPERIENCE

612 mAb referrals

247 infusions

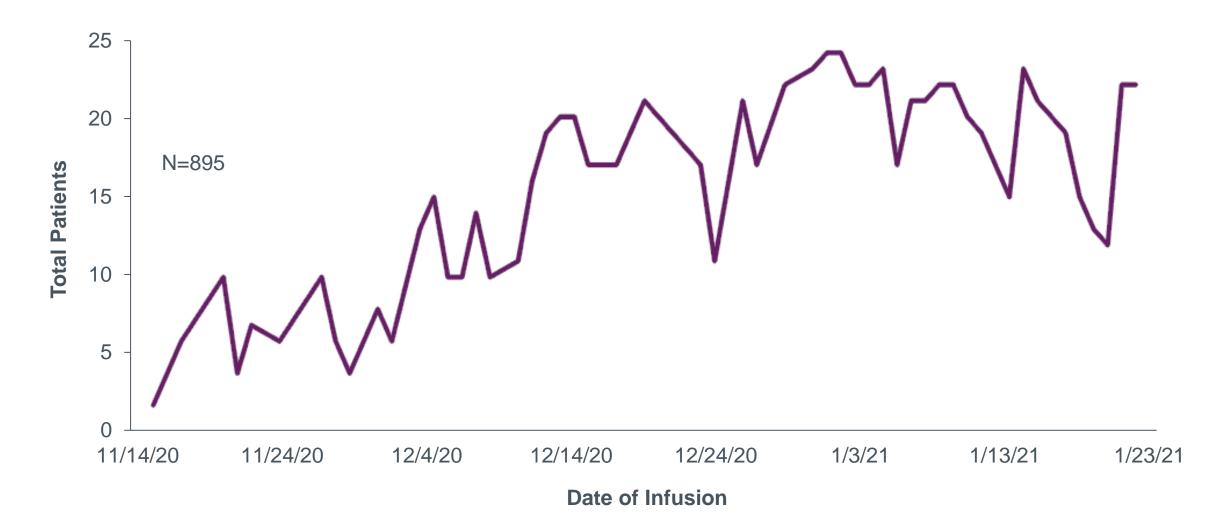
87% Caucasian

RISK FACTORS				
	% of Cohort			
Chronic kidney disease	19%			
Chronic obstructive pulmonary disorder	23%			
Diabetes	29%			
Age ≥65	43%			
Immunocompromised	15%			

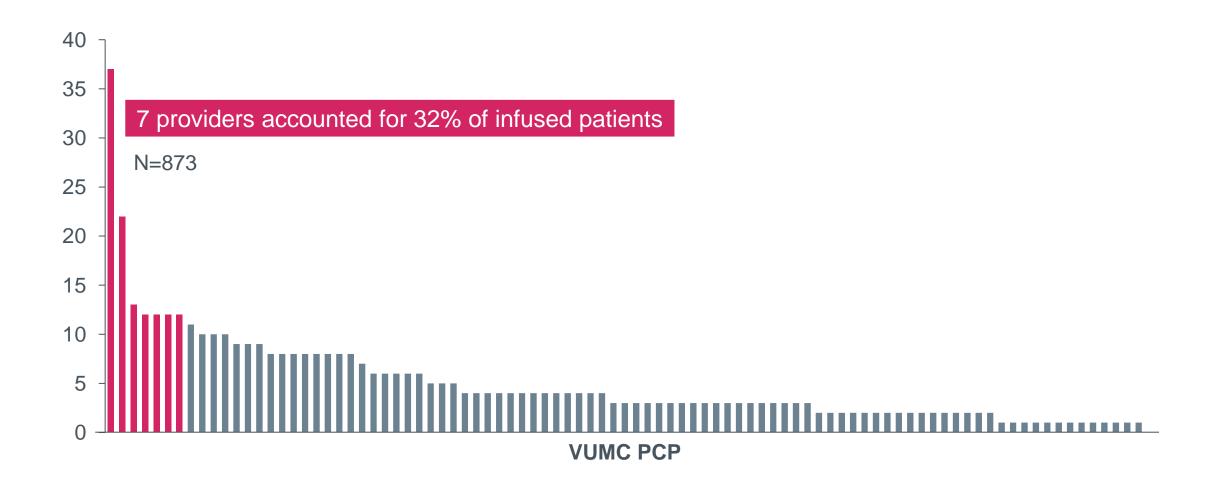
CHARACTERISTICS			
Age Range	% of Cohort		
20-29	2%		
30-39	3%		
40-49	10%		
50-59	15%		
60-69	24%		
70-79	20%		
80-89	15%		
≥90	11%		

VUMC PATIENT INFUSIONS

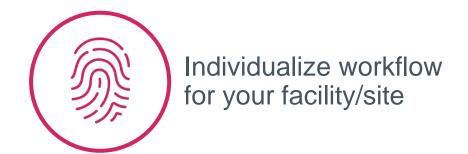
TREND OVER TIME



INFUSIONS BY PRIMARY CARE PROVIDER (PCP)



SUMMARY





Process needs to capture patients early in disease



Benefits

- Decreases rates of hospitalization for high-risk populations
- Decreases burden on over-extended hospitals and staffs





A 45-year-old man is referred for consideration of nAb therapy. He notes onset of cough and fever 2 days ago. A nasal swab is positive for SARS-CoV-2 by PCR.

WHICH OF THE FOLLOWING CONDITIONS WOULD MAKE THIS PATIENT ELIGIBLE FOR nAb THERAPY BASED ON THE CURRENT EUAs?

- A. Human immunodeficiency virus (HIV) with CD4 count <200
- B. Cirrhosis
- C. Hypertension
- D. Coronary artery disease

E. Injection drug use



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- C. Hypertension
- D. Coronary artery disease
- E. Injection drug use

The FDA emergency use authorization (EUA) for monoclonal antibodies defines high-risk patients to include:

Age ≥18 years AND one of the following:

- BMI ≥25
- Chronic kidney disease
- Diabetes
- Immunosuppressive disease
- Currently receiving immunosuppressive treatment

≥65 years of age

≥55 years of age AND one of the following:

- Cardiovascular disease
- Hypertension
- Chronic obstructive pulmonary disease/ other chronic respiratory disease

12-17 years of age AND have

BMI ≥85th percentile for their age and gender based on CDC growth charts, OR sickle cell disease, OR congenital or acquired heart disease, OR neurodevelopmental disorders, OR a medical-related technological dependence, OR asthma, reactive airway or other chronic respiratory disease that requires daily medication for control

Immunosuppressive is not specifically defined in the EUA but would include primary conditions such as chronic variable immunodeficiency (CVID) and secondary conditions such as HIV with CD4 count of <200 or organ transplantation.

Cardiovascular disease, including hypertension and coronary artery disease are defined as high-risk conditions for patients older than 54 years of age. Cirrhosis and injection drug use are not included as high-risk conditions in the EUAs.

Food and Drug Administration. Fact Sheet For Health Care Providers Emergency Use Authorization (EUA) Of Bamlanivimab. https://www.fda.gov/media/143603/download. Published December 2020. Food and Drug Administration. Coronavirus (COVID-19) Update: FDA Authorizes Monoclonal Antibodies for Treatment of COVID-19. https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-authorizes-monoclonal-antibodies-treatment-covid-19. Published November 21, 2020.

TREATMENT WITH BAMLANIVIMAB AND CASIRIVIMAB/IMDEVIMAB IS ASSOCIATED WITH WHICH OF THE FOLLOWING?

- A. Reduction in hospitalization and emergency room visits
- B. Reduction in death from COVID-19
- C. Shortened duration of patient isolation
- D. Reduction in rates of secondary transmission of infection



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- A. Reduction in hospitalization and emergency room visits
- B. Reduction in death from COVID-19
- C. Shortened duration of patient isolation
- D. Reduction in rates of secondary transmission of infection

Clinical trials for the mAbs showed a reduction in hospitalizations and emergency room visits that was most pronounced in patients at high risk for developing severe disease. The number of patients studied was not sufficient to evaluate for an effect on mortality. Treatment with neutralizing mAbs does not shorten the CDC recommendations for duration of isolation for COVID-19. While the clinical trials did show a decrease in SARS-CoV-2 nasopharyngeal viral loads, there was no evidence in these trials that treatment reduced transmission.

WHICH OF THE FOLLOWING WOULD MAKE A PATIENT INELIGIBLE FOR NEUTRALIZING mAbs THERAPY BASED ON THE CURRENT EUAs?

- A. Pregnancy
- B. New need for supplemental oxygen
- C. Evaluation in the emergency department
- D. Chest imaging with ground glass opacities
- E. Creatinine of 2.8



WHICH OF THE FOLLOWING WOULD MAKE A PATIENT INELIGIBLE FOR NEUTRALIZING mAbs THERAPY BASED ON THE CURRENT EUAs?

- A. Pregnancy
- B. New need for supplemental oxygen
- C. Evaluation in the emergency department
- D. Chest imaging with ground glass opacities
- E. Creatinine of 2.8

Based on the current EUAs, neutralizing mAbs are not authorized for use in patients who are hospitalized, require oxygen therapy due to COVID-19, or require an increase in baseline oxygen flow rate due to COVID-19. In these populations, treatment is not associated with improved outcomes.

There are limited data on the use of neutralizing mAbs in pregnant women or nursing mothers. The EUAs specify that neutralizing mAbs can be considered in high-risk patients in whom the potential benefit outweighs the potential risk for the mother and fetus. The NIH treatment guidelines recommend that neutralizing mAbs should not be withheld from a pregnant individual who has a condition that poses a high risk to progression to severe COVID-19.

There is no restriction of use of neutralizing mAbs for patients with COVID-19 and laboratory or imaging abnormalities.

WHICH IS A <u>NOT</u> AN APPROPRIATE SPOT FOR INFUSION OF NEUTRALIZING mAbs?

- A. Emergency department
- B. Infusion center
- C. Nursing home
- D. Prison
- E. None of the above



WHICH IS A NOT AN APPROPRIATE SPOT FOR INFUSION OF NEUTRALIZING mAbs?

- A. Emergency department
- B. Infusion center
- C. Nursing home
- D. Prison
- E. None of the above

If proper steps are followed as outlined (prepared and infused by a qualified healthcare professional) in the EUA, nearly any site can be utilized for administration of neutralizing mAbs.