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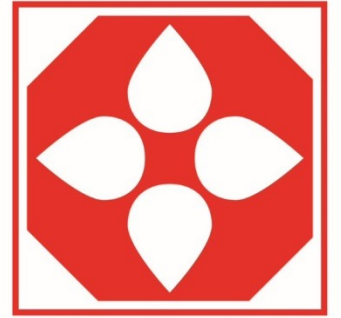
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The Changing Face of COVID-19: What it Means for the Immunocompromised

January 12, 2023

**12 PM PT, 1 PM MT
2 PM CT, 3 PM ET**

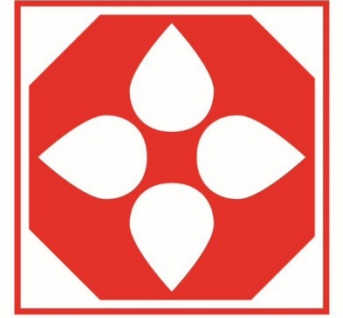
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Speakers



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S. Shahzad Mustafa, MD
Lead Physician – Allergy,
Immunology, & Rheumatology,
Rochester Regional Health, Clinical
Associate Professor of Medicine,
University of Rochester School of
Medicine and Dentistry



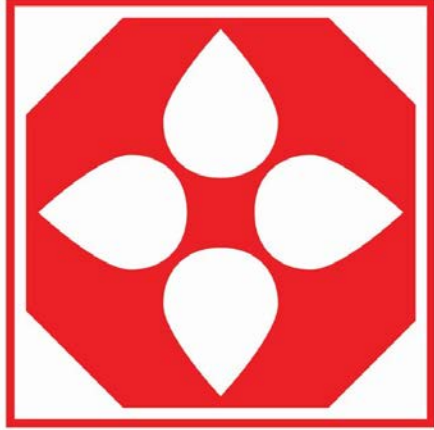
Robyn Brumble, MSN, RN
Director of Scientific Affairs and Research
CLL Society



Andres Chang, MD, PhD
Instructor, Department of
Hematology and Medical Oncology
at Winship Cancer Institute of
Emory University



Moderator
Brian Koffman, MDCM (retired) MS Ed
Executive Vice President and Chief Medical
Officer
CLL Society



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Prevention of COVID-19 in CLL

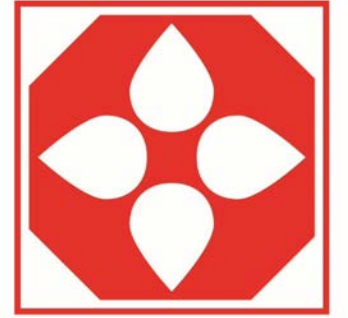
S Shahzad Mustafa, MD

Chief – Allergy, Immunology, & Rheumatology
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Clinical Associate Professor of Medicine
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January 2023

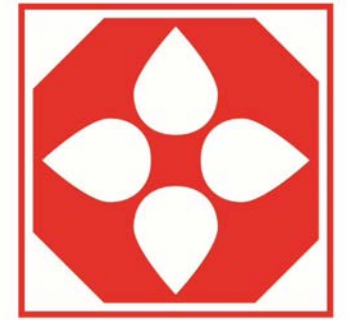
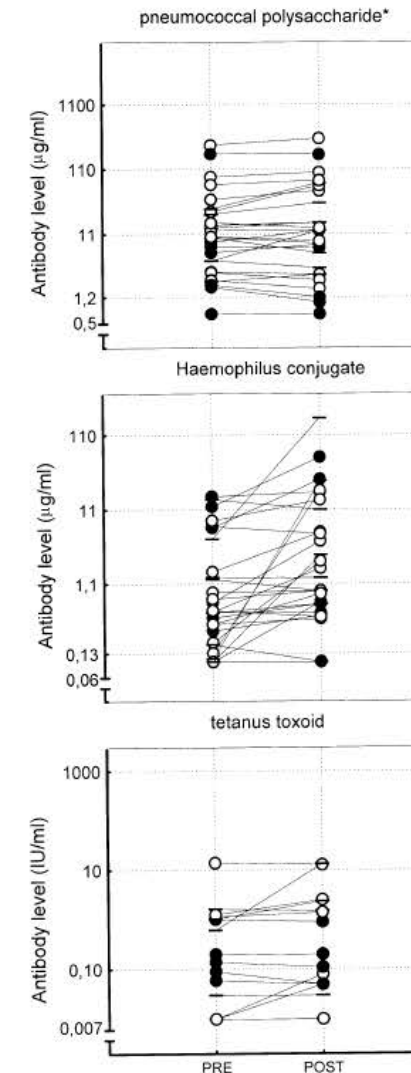
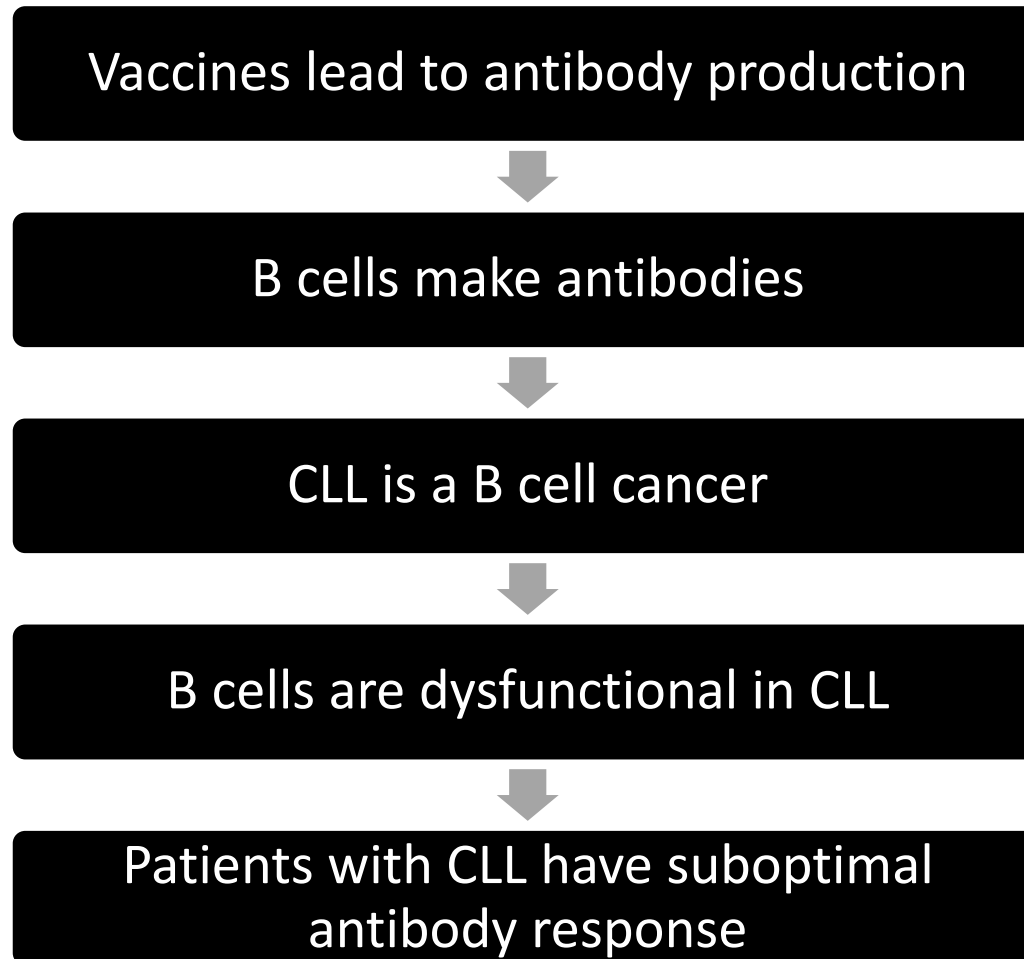
Learning Objectives



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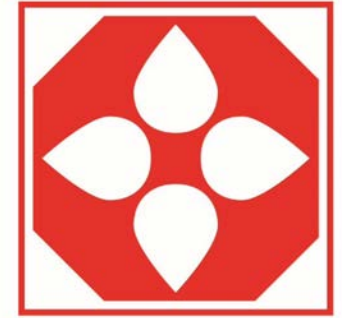
- To understand special considerations regarding COVID-10 for individuals with CLL/SLL
- To understand current strategies for prevention

Vaccination in CLL

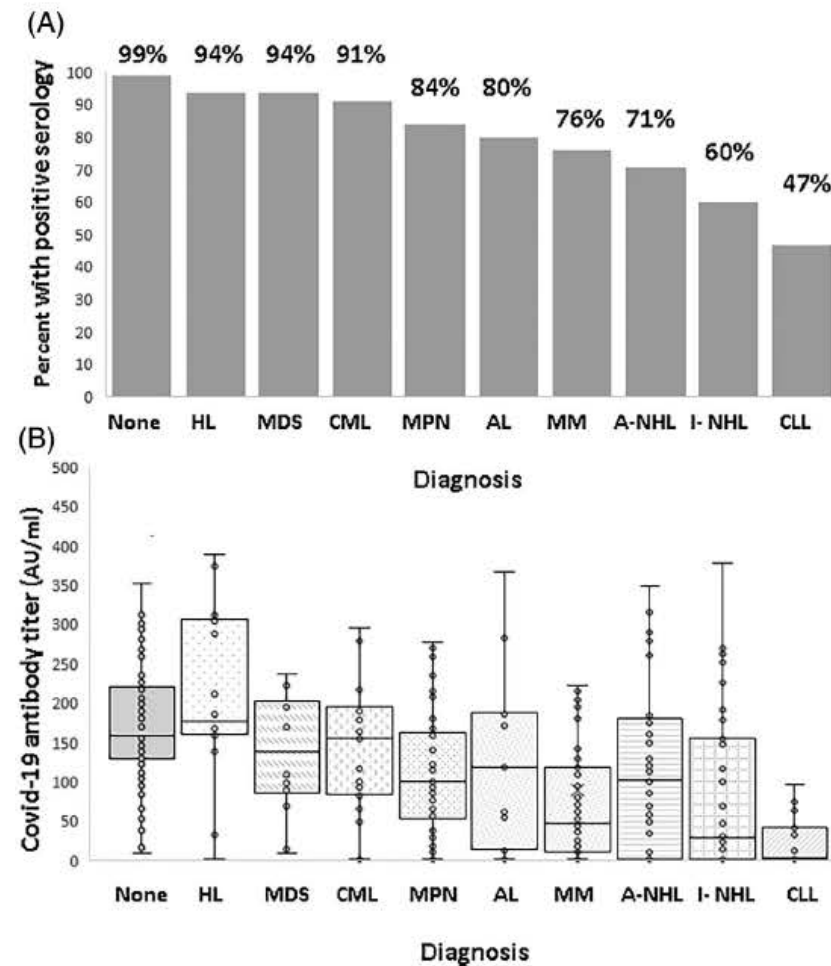
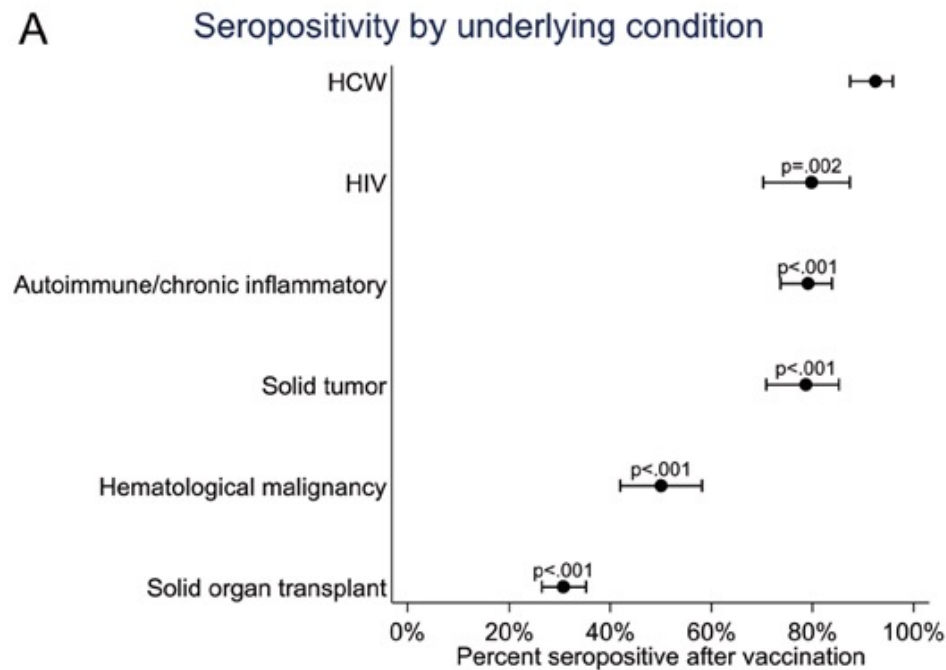


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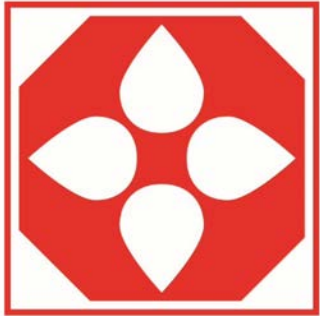
COVID-19 Vaccine in Blood Cancers



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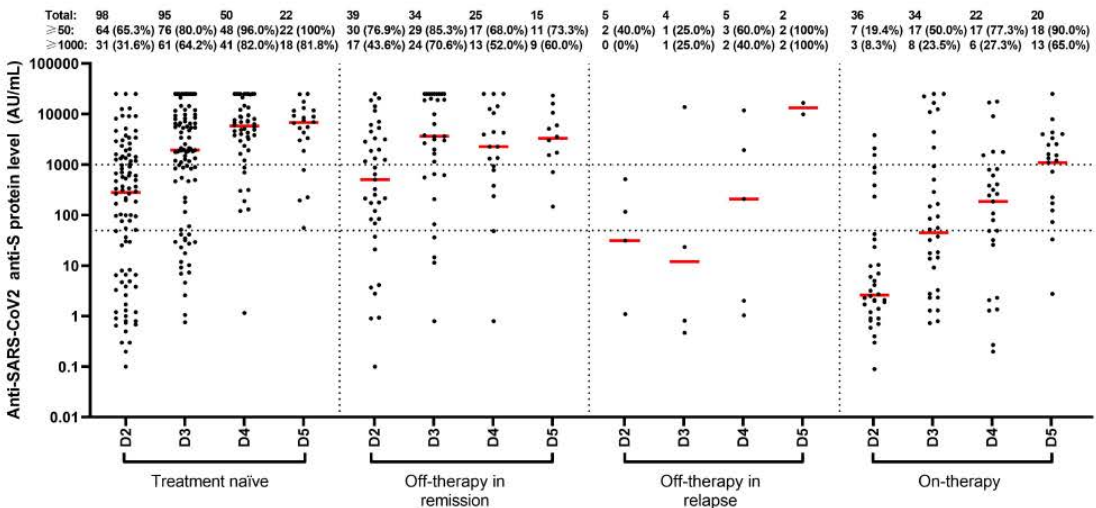
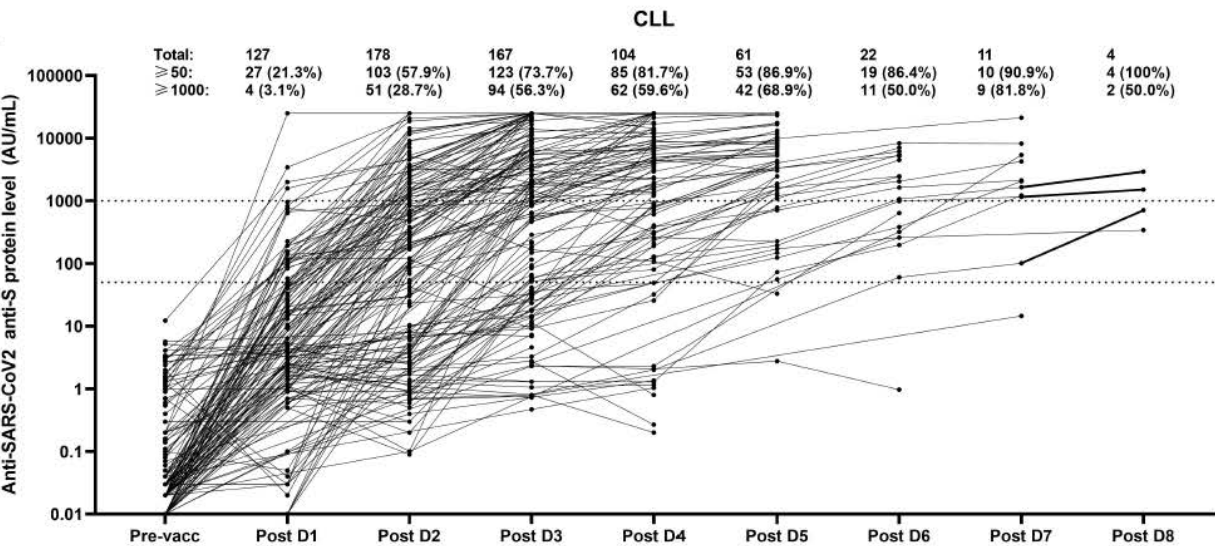


Additional Doses of COVID-19 Vaccine

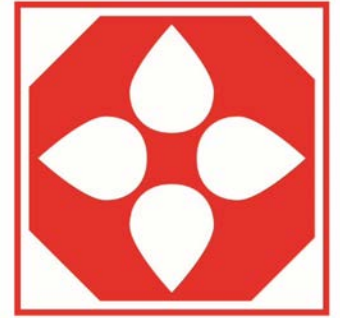


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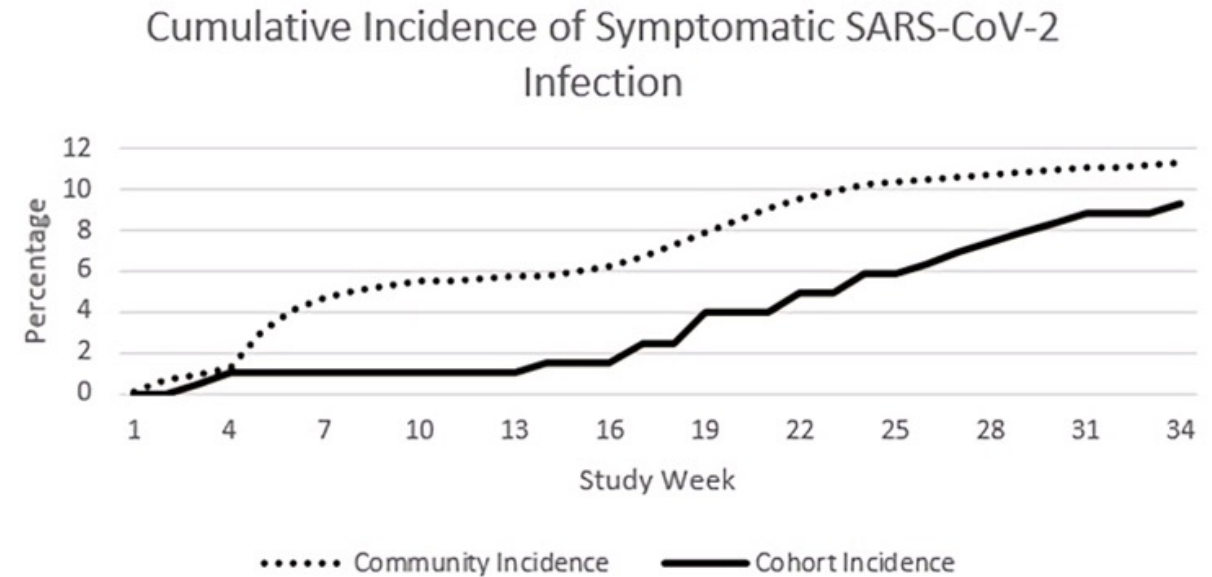
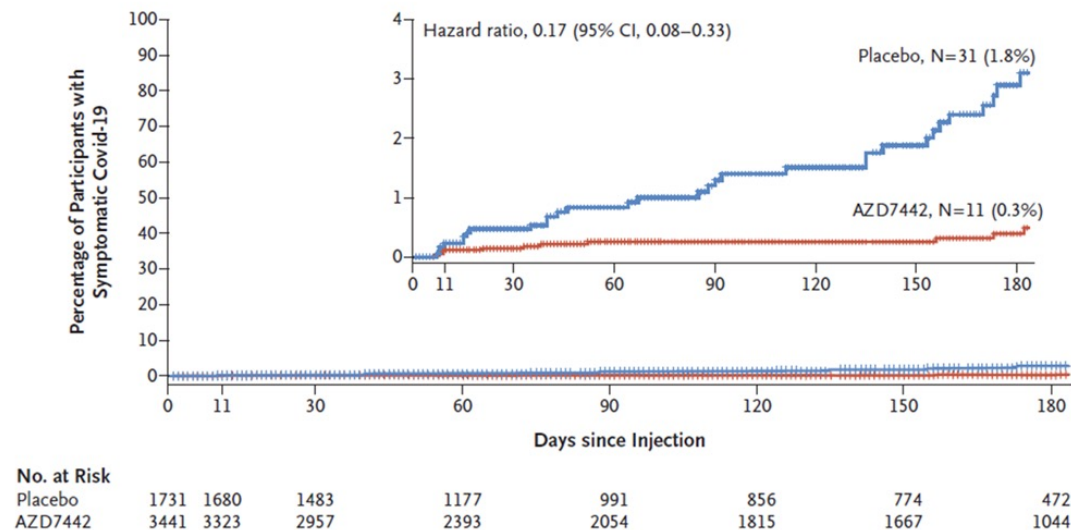
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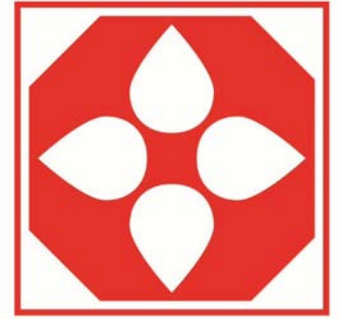
Evusheld – Tixagevimab + Cilgavimab



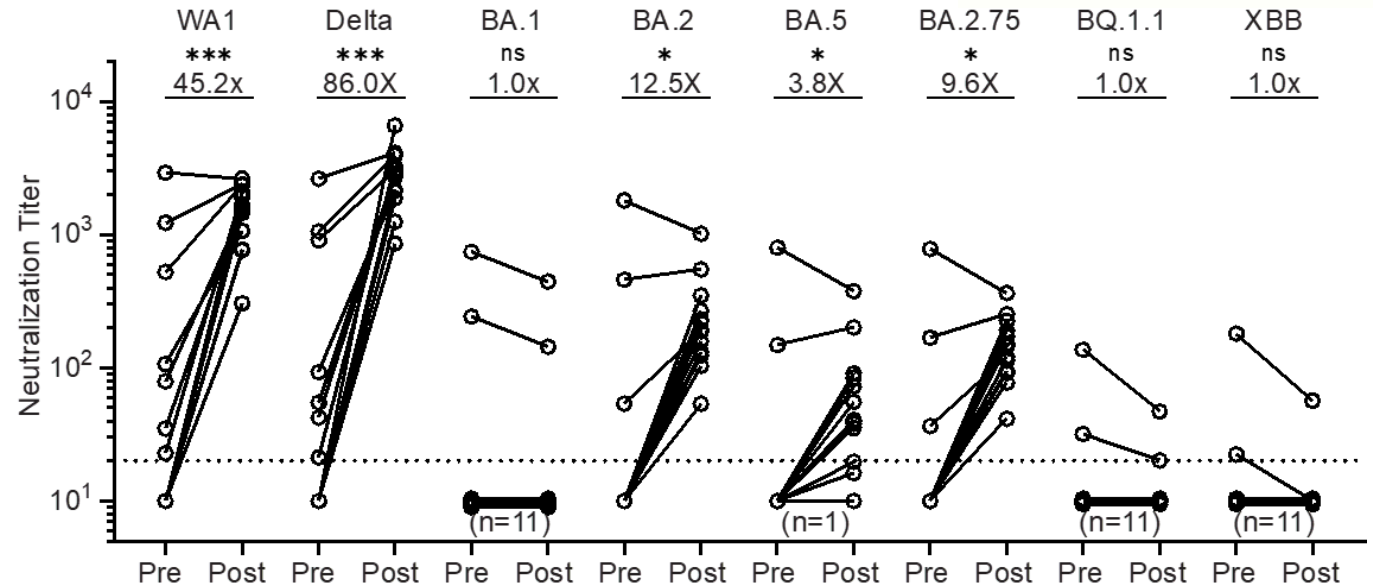
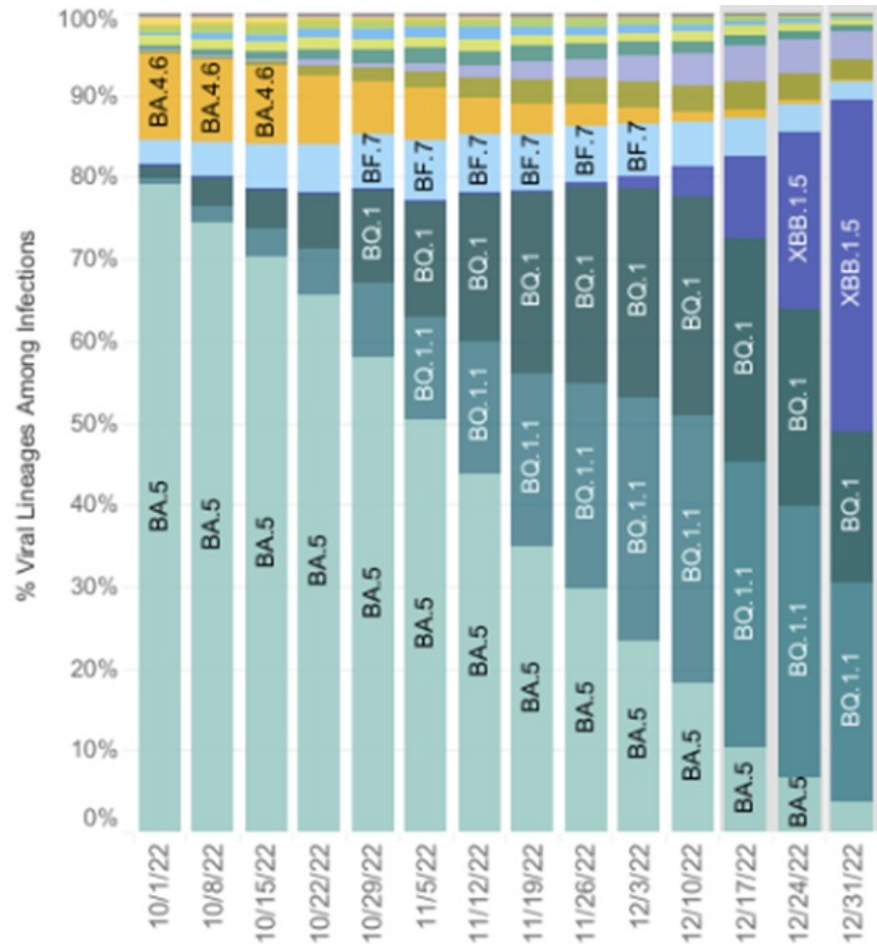
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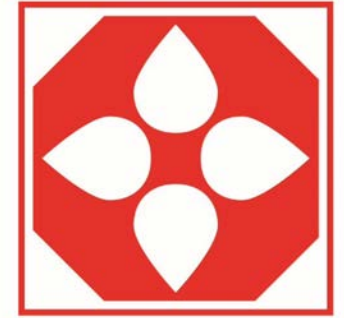
Evusheld – Tixagevimab + Cilgavimab



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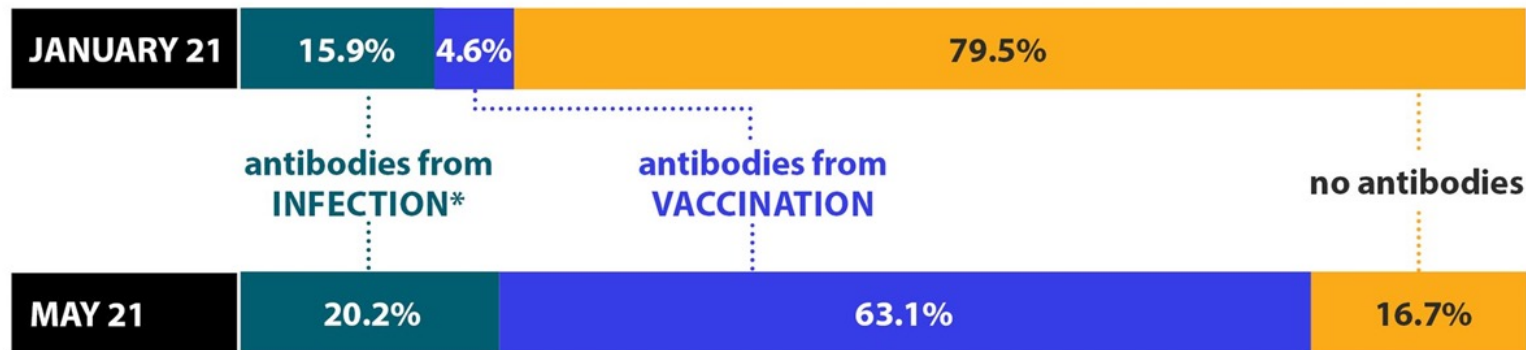


Ig Replacement



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COVID-19 vaccines rapidly increased the percentage of Americans with antibodies



* includes unknown percentage of vaccinated people

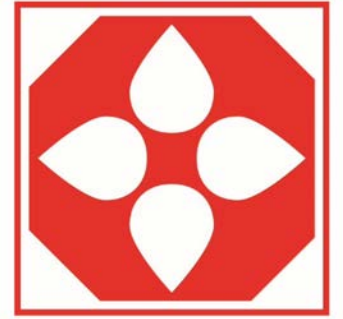


Get vaccinated to protect yourself from severe disease caused by COVID-19

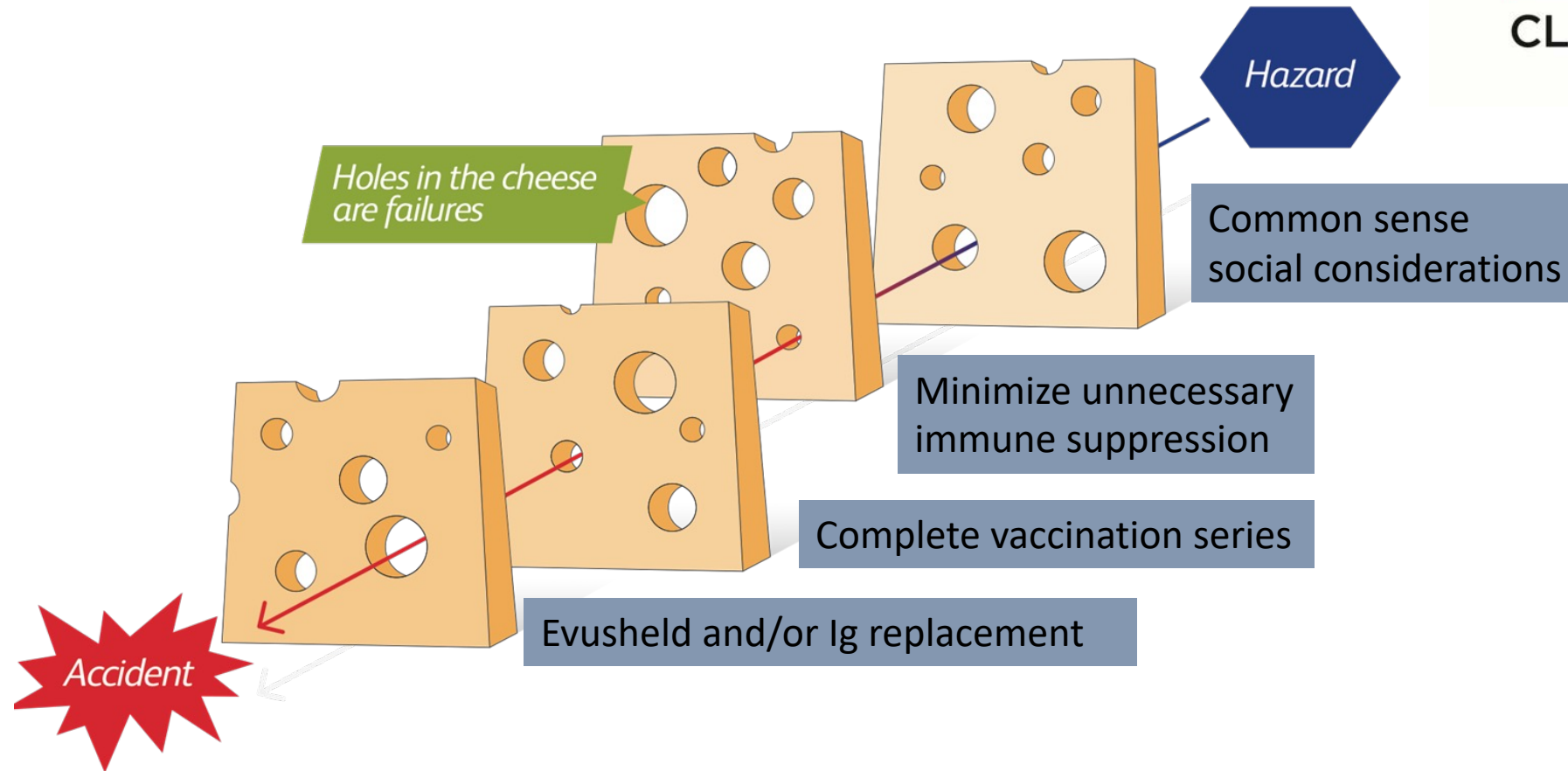
cdc.gov/coronavirus

CS326588-A 09/02/2021

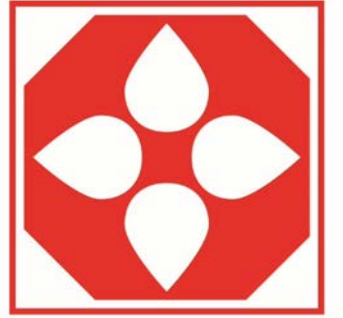
COVID-19 Risk Mitigation



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Thank You



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COVID-19 Variants and Treatments

Andres Chang, MD, PhD
Instructor

Winship Cancer Institute of Emory University
Department of Hematology and Medical
Oncology

1/12/2023

Learning Objectives

- To understand the meaning of SARS-CoV-2 variants and its implication in human health
- To understand the current outpatient and inpatient treatment of COVID-19 disease



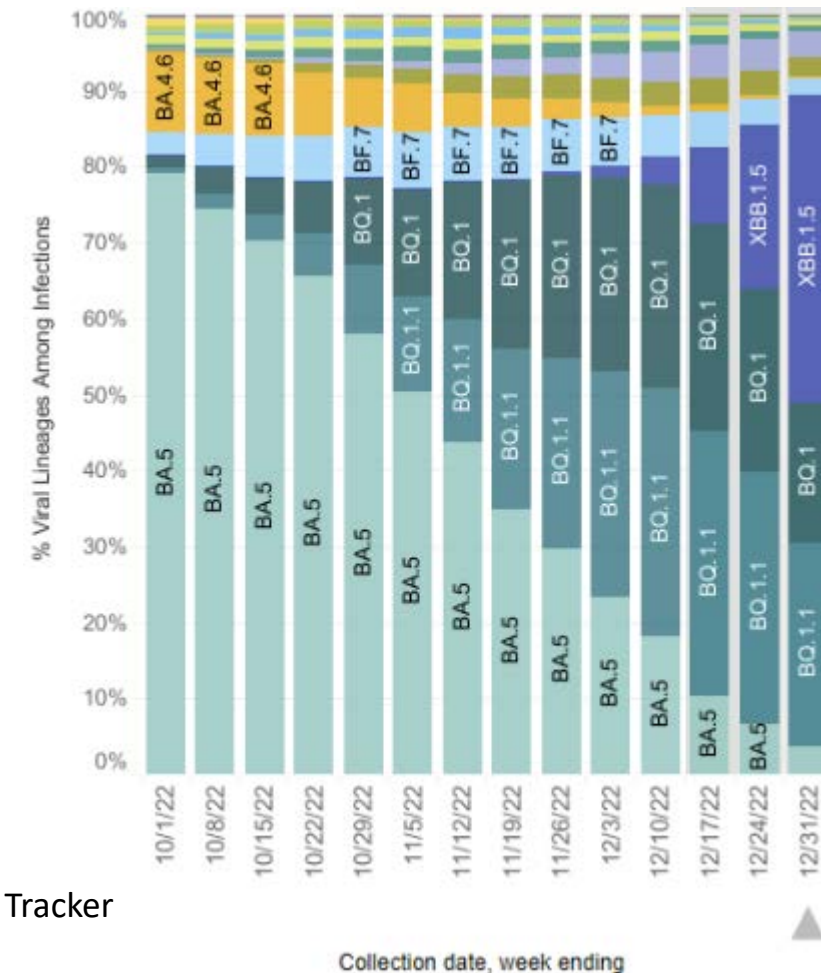
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SARS-CoV-2 Variants

- Viruses with new mutations in its genetic code
- Expected outcome of viral evolution
- More “fit” viruses will replace “less fit” variants
- Select for mutations that confer an advantage to the virus
 - Increase infectivity
 - Immune escape
 - Treatment resistance*



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Source:
COVID Data Tracker
CDC.gov

Management of COVID-19 Infections – Outpatient 1/2023



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- Prompt initiation of therapy (within 5 days)



~90% risk reduction for hospitalization or death
(Hammond, et. al. NEJM 2022)



~30% risk reduction for hospitalization or death
(Bernal, et. al. NEJM 2022)

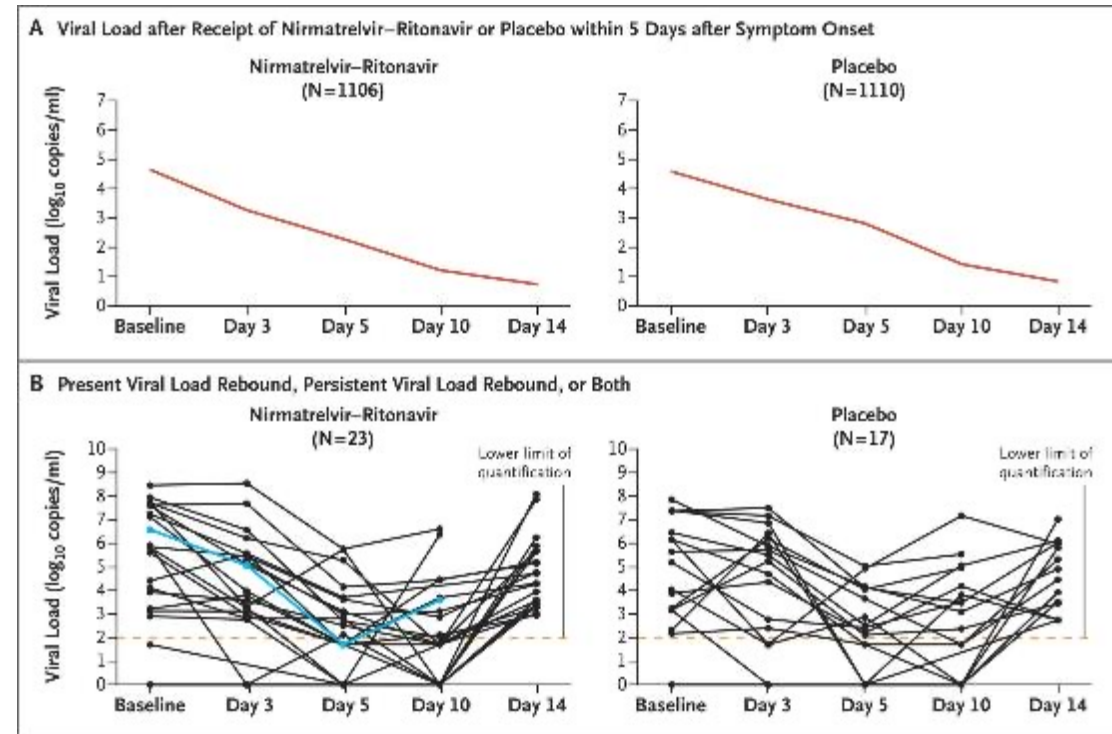
- Remdesivir* (IV medication)
- Convalescent plasma (in immunosuppressed)*
- No effective monoclonal antibodies approved

COVID-19 “Rebound”

- Incidence: less than 5% for most studies
- Occurs with all antivirals (and placebo)
- Likely due to undertreatment
- Clinical significance unclear



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Anderson, et. al. NEJM 2022

Management of COVID-19 Infections – Hospitalized 1/2023



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- Remdesivir (Veklury®) – start within 7 days
- Agents that modulate inflammation*
 - Dexamethasone (RECOVERY Group, NEJM 2021)
 - Baricitinib (JAK inhibitor, Kalil, et. al., NEJM 2021)
 - Tofacitinib (JAK inhibitor, Guimaraes, et. al. NEJM 2021)
 - Tocilizumab (anti-IL6, RECOVERY Group, Lancet 2021 and Salama et. al. NEJM 2021)
 - Sarilumab (anti-IL6, Lescure, et. al., Lancet Resp. Med., 2021)
- Anticoagulation prophylaxis
- Supportive care

Conclusions



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- Emergence of COVID-19 variants is a natural and inevitable process
 - Some variants will cause worse disease than others
- Early initiation of treatment is essential
 - No monoclonal antibodies available for treatment
 - **New treatments are on the horizon**

ORIGINAL ARTICLE

VV116 versus Nirmatrelvir–Ritonavir for Oral Treatment of Covid-19

Zhujun Cao, M.D., Ph.D., Weiyi Gao, M.D., Ph.D., Hong Bao, M.D., Ph.D., Haiyan Feng, M.D., Shuya Mei, M.D., Ph.D., Peizhan Chen, Ph.D., Yueqiu Gao, M.D., Ph.D., Zhilei Cui, M.D., Ph.D., Qin Zhang, M.D., Ph.D., Xianmin Meng, Ph.D., Honglian Gui, M.D., Ph.D., Weijing Wang, M.D., Ph.D., et al.

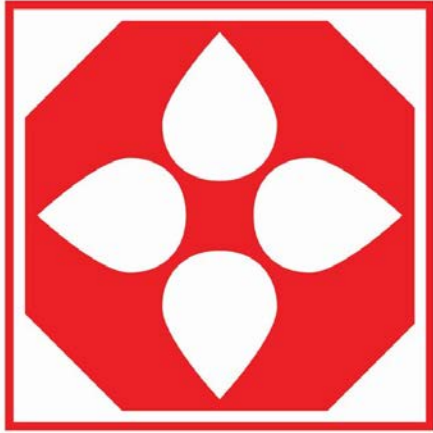
Cao et. al., NEJM Dec 28, 2022

- Prevention is better than treatment



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Thank You



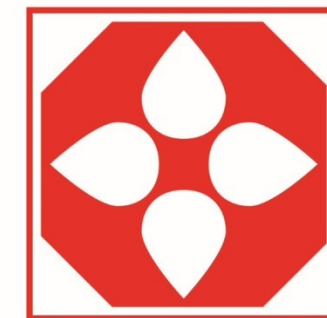
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CLL Society's COVID-19 Action Plan

Robyn Brumble, RN, MSN
Director of Scientific Affairs
CLL Society

Complete Prior to COVID-19 Exposure



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Directions for Completing the COVID-19 Planning Checklist

CLL Society highly encourages individuals living with CLL to prepare ahead of time and have a comprehensive COVID-19 Plan already in place just in case you have either a known exposure or receive a positive test result. The following are guidelines to assist you in completing your personalized COVID-19 Planning Checklist. Please keep all printed information in a designated COVID-19 Planning Folder that can be easily accessed if needed.

- 1) Obtain an oxygen (O2) pulse oximeter (O2 saturation monitoring device) and have it readily available in your home. Inexpensive O2 pulse oximeters can be purchased on Amazon or from your local drug store.
- 2) Have a reliable digital thermometer available. If you only have oral thermometers in your home, consider purchasing one for each member of the household to prevent spreading the virus to other family members.
- 3) Know ahead of time where you will go to get tested for COVID-19, and confirm they will perform the necessary testing:
 - The location you choose should be willing to offer you BOTH the rapid test and the PCR test at the same time. Remember, the Rapid test can indicate evidence of COVID-19 infection, but the PCR is typically more accurate. (Please also note, some rapid tests will not detect variants).
 - Always err on the side of caution and get tested right away should you experience *any respiratory symptoms*, or if you have known exposure to COVID-19. Do not dismiss allergy or cold symptoms!
 - The earlier you know, the earlier you can receive treatment, which is of utmost importance.
- 4) High titer convalescent plasma should be administered early after diagnosis and is authorized under the EUA (Emergency Use Authorization) for the treatment of **hospitalized** patients with COVID-19 and impaired immunity. That would include CLL patients. It is not used in severe COVID-19. Convalescent plasma may need to be administered more than once.
- 5) Monoclonal antibodies directed against the COVID-19 spike protein have proven to help high-risk patients and should be given **within 10 days** of diagnosis and can be given **outpatient**. The earlier the better! You *must* investigate ahead of time which hospitals in your area provide rapid access to this *critical* COVID-19 treatment! COVID-19 monoclonal antibody therapies are not available everywhere and are most likely *not* available at your local small community hospital. So please spend time finding out exactly where you can access them quickly should you need them. It is also important to understand the criteria that make you eligible for receiving this critical COVID-19 treatment should there be any pushback when you advocate for receiving it:
 - Search [this map](#) to find the hospitals in your area that have monoclonal antibody therapy available, and make it part of your plan to visit their emergency room if COVID-19 treatment becomes necessary.



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COVID-19 PLANNING CHECKLIST

Complete Prior To Exposure

Obtain Necessary Monitoring Supplies

- ☐ Oxygen Monitoring Device (Pulse Oximeter)
- ☐ Digital Thermometer for Each Individual in the Household

Know Where to Go for COVID-19 Testing

- ☐ Ensure Testing Facility Will Perform BOTH the Rapid Test & the PCR Test
- ☐ Name of Testing Location: _____

Determine Where Critical COVID-19 Treatments Are Available Nearby

- ☐ Convalescent Plasma: _____
- ☐ Monoclonal Antibodies: _____

Healthcare Team Contact Information

- ☐ CLL Provider's Contact Info: _____
- ☐ Create a List of All Healthcare Providers and Place in Planning Folder

Personal Paperwork to Place in COVID-19 Planning Folder

- ☐ List of All Medications, Vitamins/Supplements, & Vaccination Information
- ☐ Copy of Living Will, Power of Attorney, & Advance Directives
- ☐ Insurance Cards

CLL Society Documents to Place in COVID-19 Planning Folder

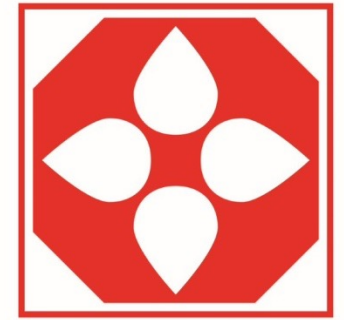
- ☐ CLL Society's Official Statement for Prioritizing CLL Patients Emergency Room Care related to COVID-19
- ☐ Print CLL Society's Pre-COVID Exposure Planning Document

Quarantine Plan


- ☐ Complete Quarantine Plan Checklist and Place a Copy in Planning Folder
- ☐ Discuss Quarantine Plan with Others in the Household


Please Refer to the COVID-19 Planning Checklist
Directions Sheet for Detailed Instructions

Known Exposure, Positive Result, and How to Quarantine




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**CHECKLIST FOR KNOWN EXPOSURE TO COVID-19 WITHOUT A POSITIVE TEST RESULT**

**READ THROUGH YOUR COVID-19 PLANNING FOLDER AND ACTIVATE YOUR HOUSEHOLD QUARANTINE PLAN**

- ☐ Closely monitor for symptoms of COVID-19. Symptoms can appear anywhere from 2-14 days after exposure and may or may not include headache, fever or chills, cough, shortness of breath or difficulty breathing, increased fatigue, worsening muscle or body aches, headache, loss of taste or smell, sore throat, congestion, runny nose, nausea, vomiting, and diarrhea.
- ☐ Contact your healthcare provider(s) right away to arrange for possible urgent treatment with the anti-COVID-19 monoclonal antibodies, **regardless of whether or not you have had a positive test or symptoms.**
- ☐ Immediately schedule appointments for testing 3-5 days following the date of known exposure. Availability for testing can be limited during times of surging cases.


**TESTING RECOMMENDATIONS FOR COVID-19**


- ☐ The CDC recommends testing 3-5 days following the date of the known exposure, even without symptoms. But if you begin to have symptoms, arrange to get tested right away.
- ☐ If possible, have both the rapid and PCR tests performed. If both are not available, the PCR test is much preferred due to increased accuracy. Know that if you test negative, you were not infected *at the time* your sample was collected. The test result only means that you did not have COVID-19 *at the time of testing*. Continue to take steps to protect yourself and others by wearing a mask and distancing.
- ☐ If symptoms develop, but you had a negative test, you should immediately get retested. If you test positive, refer to the COVID-19 Action Plan for the next steps.

**QUARANTINE RECOMMENDATIONS FOR CLL**

- ☐ If you received a negative PCR test result AND if no symptoms have been detected during daily monitoring, quarantine can end after Day 10.
- ☐ For those that did not get tested and never experienced any symptoms of COVID-19, quarantine must last for the full 14 days following exposure.

Please visit cllsociety.org for more information.

**HOUSEHOLD QUARANTINE PLAN**

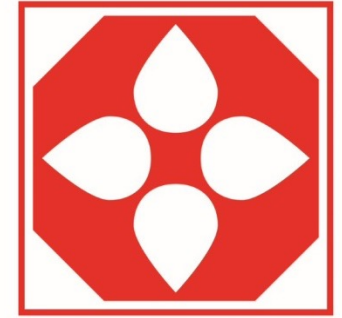
**Why Is It Important To Have a Quarantine Plan in Place Before You Become Infected with COVID-19?**

Receiving a COVID-19 diagnosis can be stressful and confusing, especially if you are not prepared. Having a self-quarantine plan will help everyone in the household know exactly what to do should the virus infect someone within the home. In addition to this checklist, learn as much as you can *in advance* about standard infection control precautions that may help decrease the possibility of spread. Place this document within your COVID-19 planning folder to refer to if needed.

- ☐ **Have plenty of masks available.** Everyone in the household should plan on wearing a tightly-fitted mask (preferably an N-95) over their nose and mouth as much as possible, especially when in direct contact with anyone else in the home.
- ☐ **Keep your distance from others.** Stay in a designated room by yourself and use a bathroom separate from the one used by others in the household. Keep your bedroom and bathroom door closed when possible. Have someone else prepare meals and leave them outside your bedroom door.
- ☐ **Do not leave your home (unless necessary for medical care).** Identify family, friends, or community groups to help deliver groceries, medications, and other supplies to your front door. Have their contact information readily available as part of your quarantine plan.
- ☐ **If living with others, increase ventilation within your home.** Open windows and outside doors (when the weather permits), operate attic/window fans or run a window air conditioner with the vent control open to increase the indoor/outdoor airflow.
- ☐ **Have necessary supplies on hand.** Consider creating a kit that includes items such as thermometers for each person in the home, electrolytes, teas, over-the-counter medications, cleaning supplies, hand sanitizer, disposable gloves, Kleenex, etc. Speak with your healthcare provider about what vitamins or over-the-counter medications might be helpful to have readily available as well.
- ☐ **Wipe down high-touch areas every day with a disinfectant.** This includes doorknobs, light switches, phones, remote controls, appliances, sink, toilet, countertops, etc. Let someone else disinfect high-touch surfaces in the common areas of the home. But you should also clean and disinfect your designated sick room and bathroom if possible.
- ☐ **Do not share any items with others in your home.** This includes dishes, drinking glasses, eating utensils, towels, or bedding. It is important to wash all items used by the infected person thoroughly with soap and water after using them.

For more information, please visit cllsociety.org

What Do I Do If I Do Get COVID-19?



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COVID-19 ACTION PLAN

Do These Things After Testing Positive for COVID-19




ACTIVATE YOUR PLAN! ACT EARLY-EVEN IF YOU FEEL FINE. REMEMBER, TIME IS OF THE ESSENCE.

- ☐ Access your COVID-19 Planning Folder.
- ☐ Read through your COVID-19 Planning Checklist and Instructions again.
- ☐ Contact your healthcare provider(s) **immediately** to discuss arranging urgent treatment with the anti-COVID-19 monoclonal antibodies and any other possible early therapies **as soon as possible**.
- ☐ Activate your Household Quarantine Plan.




IMPORTANT PEOPLE TO CONTACT

- ☐ Contact anyone you have been around in the previous 48 hours and inform them of your positive test result. By notifying close contacts of possible exposure, you may be helping them prevent the spread of COVID-19 to their friends and family.
- ☐ Someone from the health department may call you. This is completely normal, and it is important to answer the call to assist with contact tracing, which may also help slow the spread.
- ☐ Call your healthcare provider(s) to notify them of your positive test result. Stay in touch with them periodically to ask questions and/or inform them of your status. And do not hesitate to call your healthcare provider(s) to report any symptoms that are severe or concerning to you.




SCHEDULED APPOINTMENTS

- ☐ If you have an in-person medical appointment that cannot be avoided, call the office ahead of time to remind them you have been diagnosed with COVID-19. This will help the office put measures in place to protect the staff and other patients when you arrive.




KEEP A LOG OF YOUR VITAL SIGNS AND SYMPTOMS

- ☐ Begin recording a list of all measured vital signs, especially oxygen saturation levels and temperatures
- ☐ Keep track of when you experience any new symptoms such as cough, chills, shortness of breath, fatigue, muscle/body aches, vomiting, diarrhea, or loss of taste/smell.
- ☐ Include the time and date when you are logging them.
- ☐ Call your healthcare provider(s) to inform them if your oxygen saturation is consistently reading below 95%, fever >100.4, or with worsening symptoms.



SEEKING EMERGENCY CARE

- ☐ Call 911 immediately if emergency warning signs for COVID-19 develop such as difficulty breathing, rapid breathing, oxygen saturation consistently reading <92%, persistent pain or pressure in the chest, difficulty staying awake, confusion, or discolored lips/nail beds.
- ☐ Should you need to seek emergency care via ambulance, you must request to be taken to the hospital that you have already determined ahead of time can provide you with rapid access to critical COVID-19 therapies. If they are not informed, they are required to transfer you to the nearest local hospital.
- ☐ Take your COVID-19 Planning Folder along with you to the hospital so you have quick access to the important documents (the "Official Statement for Prioritizing CLL Patient's Emergency Room Care").
- ☐ Most importantly, ADVOCATE for your best care! **Remember, EARLY administration of critical COVID-19 therapies, such as convalescent plasma and SARS-CoV-2 monoclonal antibodies, is extremely important for those who are immunocompromised** (as recommended by Emergency Use Authorization and other clinical guidelines). Data shows both reduced morbidity and mortality in CLL patients with both of these treatments.

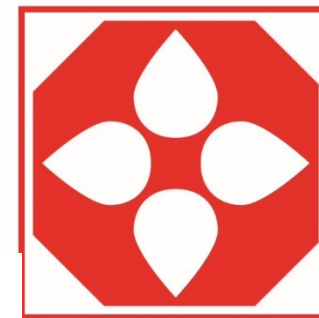


AFTER YOUR DISEASE HAS RUN ITS COURSE

- ☐ Please consult with your healthcare provider(s) to find out when you can safely be around others. **If you have any symptoms, it is important to get tested again.** Routine testing after COVID-19 is not advised in the general population. However, your healthcare provider may recommend repeated testing, as some CLL patients have difficulty clearing the virus that causes COVID-19 and *may remain contagious* after symptoms resolve.

Please visit cllsociety.org for more information.

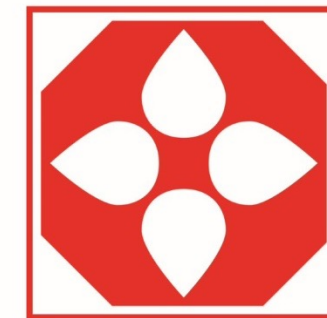
Where to Find the COVID-19 Action Plan On CLL Society's Website



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The screenshot shows the CLL Society website. At the top left is the CLL Society logo and the tagline "Smart Patients Get Smart Care™". To the right are links for "Newsletter Sign Up", a red "Donate Now" button, and a "Select Language" dropdown. Below this is a search bar with the placeholder text "How can we help you?". The main navigation menu includes "HOME", "What's New", "CLL Information & Management", "Programs & Support", "COVID-19", "Living with CLL", "About Us", and "Donate". The "COVID-19" menu item is circled in black, and a large yellow arrow points to it from the right. Below the navigation bar is a large blue banner for "COVID-19 UPDATE". The banner features two virus-like icons on the left: a black one and a white one with red dots. The text on the banner reads: "Staying vigilant is still vital for vaccinated CLL patients." followed by a quote: "Data suggest immune response to COVID-19 vaccination might be reduced in some immunocompromised people..." and a "READ MORE" button. At the bottom of the page are three sections: "Actively Enrolling Clinical Trials in CLL" (with a teal background), "BRUIN CLL-321 CLINICAL TRIAL" (for patients with prior treatment with a covalent BTK inhibitor, with a call to 855-LOXO or clinicaltrials.gov), and "CLL CLINICAL TRIAL" (evaluating a trial drug for people whose blood cancer has returned or has not responded to treatment). A teal box on the far right says "To access additional clinical trials please search clinicaltrials.gov".

Where to Find the COVID-19 Action Plan On CLL Society's Website



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CLL SOCIETY The World's Leading Authority for Chronic Lymphocytic Leukemia Patients

Newsletters Sign Up [Donate Now](#) Select Language

How can we help you?

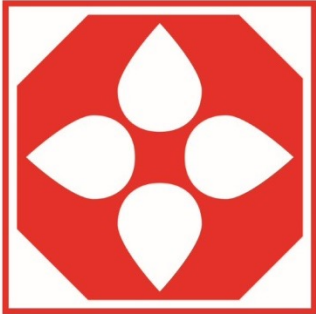
HOME What's New CLL Information & Management Programs & Support **COVID-19** Living With CLL About Us Donate

COVID-19

COVID-19 has recently been the defining problem for the world at large, but it has had an oversized impact on immunocompromised CLL patients. CLL Society will keep you up to date on the latest research and guidelines.

- ➔ **COVID-19 Action Plan**
- ➔ COVID-19 Updates
- ➔ COVID-19 Prevention & Treatment
- ➔ COVID-19 Official Statements
- ➔ COVID-19 Virtual Community Meetings
- ➔ COVID-19 General Information


Where to Find the COVID-19 Action Plan On CLL Society's Website



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CLL SOCIETY The World's Leading Authority for Chronic Lymphocytic Leukemia Patients

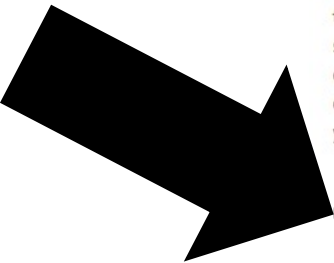
HOME What's New CLL Information & Management Programs & Support COVID-19 Living With CLL About Us Donate

 **COVID-19 Action Plan**

**Checklists for Chronic Lymphocytic Leukemia (CLL)
Preparing for Pre- and Post-COVID-19 Exposure**

Downloading and completing the CLL Society's COVID-19 Action Plan could save your life.

Complete and print this action plan, which will help you prepare in advance for possible exposure, testing positive, time sensitive therapies, and home management, including what you need for safe isolation, and much more. Preparing in advance can minimize the panic that many experience when exposed or diagnosed because you will have a written plan to guide you. If you do only one thing to protect yourself and your loved ones during the pandemic, please complete your family's COVID-19 Action Plan. The life you save might be your own.



[COVID-19 Action Plan](#)

[COVID-19 Updates](#)

[COVID-19 Prevention & Treatment](#)

[COVID-19 Official Statements](#)

[COVID-19 Virtual Community Meetings](#)

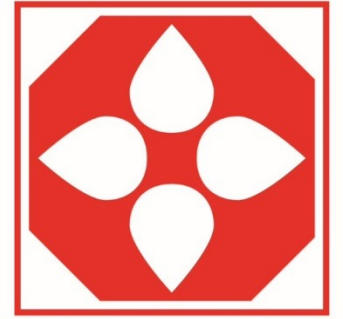
[COVID-19 General Information](#)

RECENT NEWS

When appropriate, the CLL Society will be posting updates and background information on the present Coronavirus pandemic focusing on reliable primary sources of

Important Takeaways

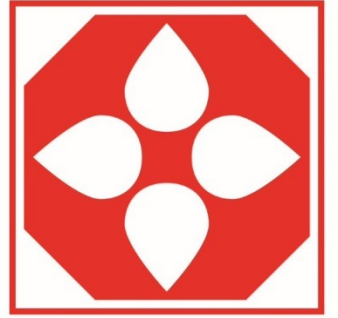
- Complete the checklists ahead of time-BE PREPARED!
- Keep them in an easily accessible place, such as a folder
- Discuss your plan with others within the household
- If you have known exposure, symptoms, or a positive test result-pull out the plan and act fast! Time is of the essence.



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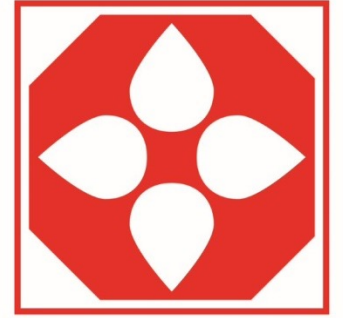
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Thank You for Attending!



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Please take a moment to complete our **post-event survey**, your feedback is important to us

If your question was not answered, please feel free to email asktheexpert@cllsociety.org

Join us on February 9th for our webinar **ASH 2022 Comes to You!**

CLL Society is invested in your long life. Please invest in the long life of the CLL Society by supporting our work

cllsociety.org/donate-to-cll-society/