

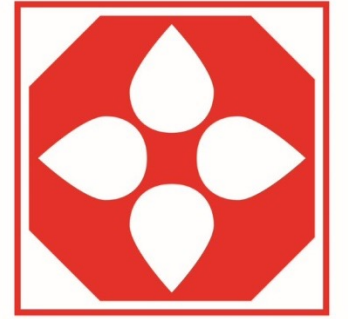
CLL SOCIETY

Smart Patients Get Smart Care™

COVID-19 in 2024: Recommendations and Strategies for Those with CLL and SLL

May 16, 2024

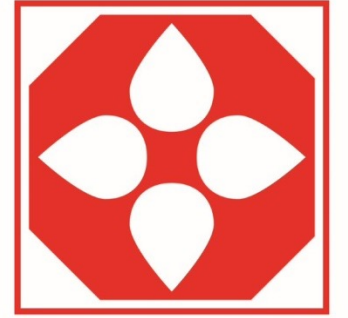
8:30 AM PT, 9:30 AM MT,
10:30 AM CT, 11:30 AM ET



CLL SOCIETY

This Program Was Made Possible
Through Generous Donors Like
You

Speakers



CLL SOCIETY



Moderator and Speaker

Robyn Brumble, MSN, RN

Director of Scientific Affairs and Research
CLL Society

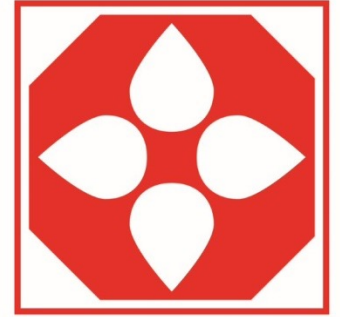


Speaker

S. Shazhad Mustafa, MD

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

CLL Society's COVID-19 Action Plan



CLL SOCIETY

- Encourages individuals to create a plan *ahead of time* to be prepared for when they test positive.
- Includes:
 - Planning Checklist
 - Household Quarantine Plan
 - Checklist for what to do as soon as you test positive

Visit: <https://www.cllsociety.org/covid-19-home/action-plan/>



COVID-19 PLANNING CHECKLIST

- Obtain Necessary Monitoring Supplies
- Know Where to Go for COVID-19 Testing
- Determine Where Critical COVID-19 Treatments Are Available Nearby
- Healthcare Team Contact Information
- Personal Paperwork to Place in COVID-19 Planning Folder
- CLL Society Documents to Place in COVID-19 Planning Folder
- Quarantine Plan

HOUSEHOLD QUARANTINE PLAN

- Have plenty mask (prefer contact with
- Keep your separate from when possible
- Do not leave community group their contact
- If living with (when the we control open
- Have neces for each pers sanitizer, dis over-the-cou
- Wipe down switches, ph disinfect high disinfect you
- Do not shar utensils, tow with soap an

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.

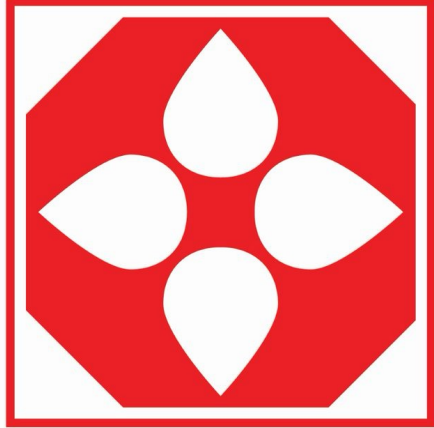
- Access your COVID-19 Planning Folder.
- Read through your COVID-19 Planning Checklist and Instructions again.
- Contact your healthcare provider(s) **immediately** to discuss arranging urgent treatment with the anti-COVID-19 monoclonal antibodies and any other possible early therapies **as soon as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



CLL SOCIETY

Smart Patients Get Smart Care™

Prevention of COVID-19 in CLL

S Shahzad Mustafa, MD

Chief – Allergy, Immunology, & Rheumatology

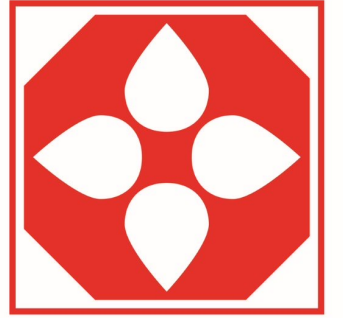
Rochester Regional Health

Clinical Associate Professor of Medicine

University of Rochester School of Medicine & Dentistry

May 16, 2024

Learning Objectives



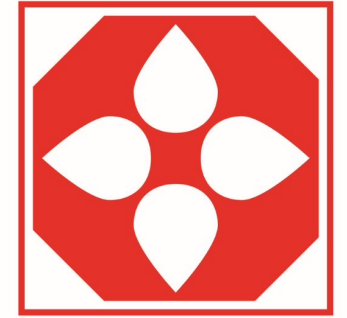
CLL SOCIETY

Current State

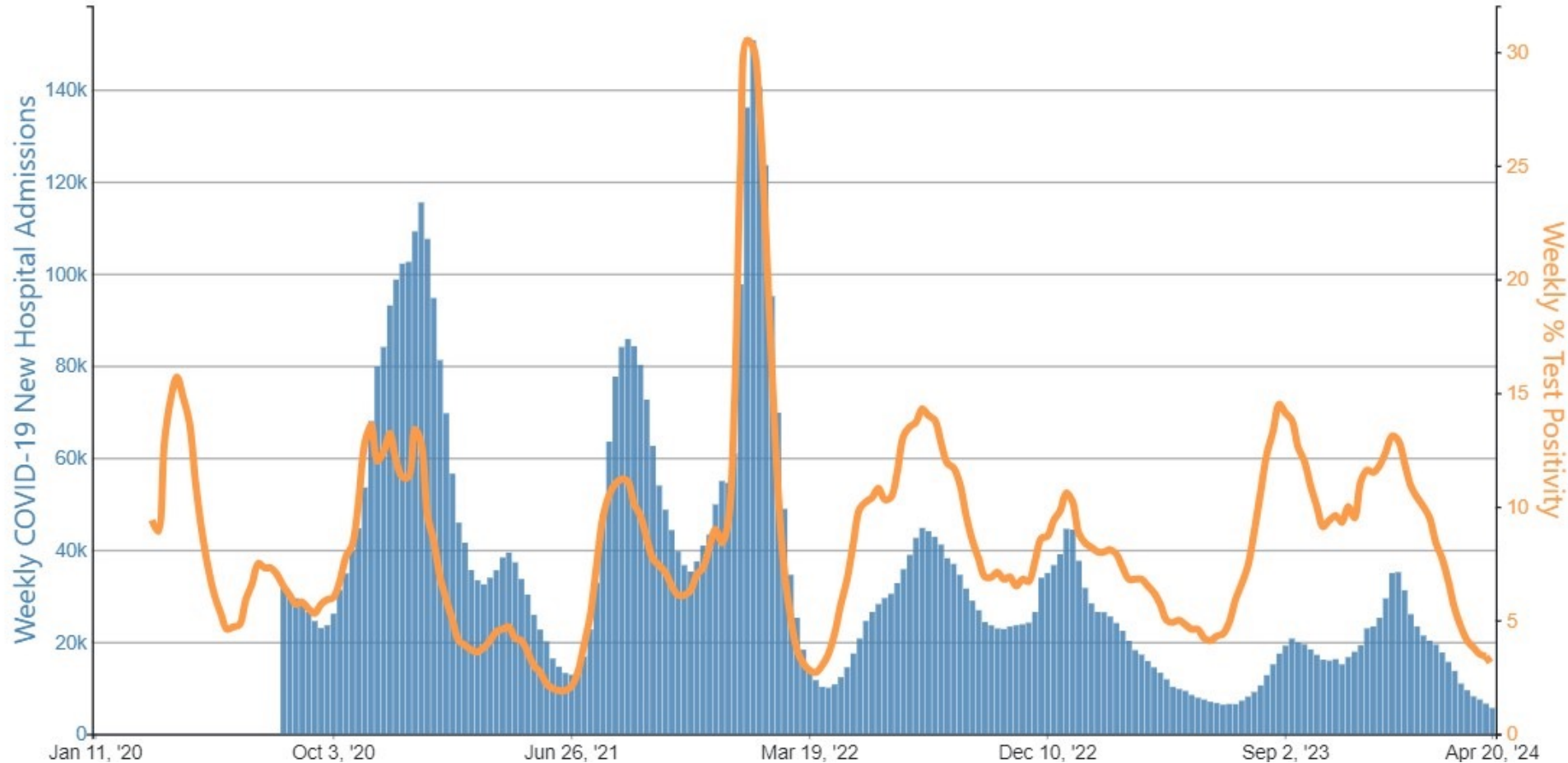
Strategies for
prevention

Management
of acute
infection

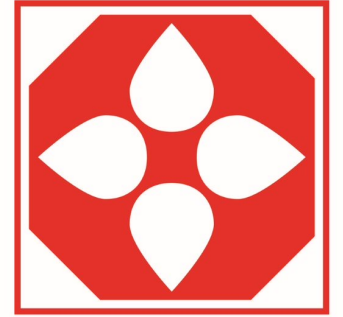
Why Should We Care



CLL SOCIETY



Who is at Risk for Severe COVID-19

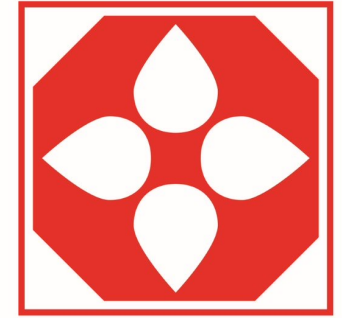


CLL SOCIETY

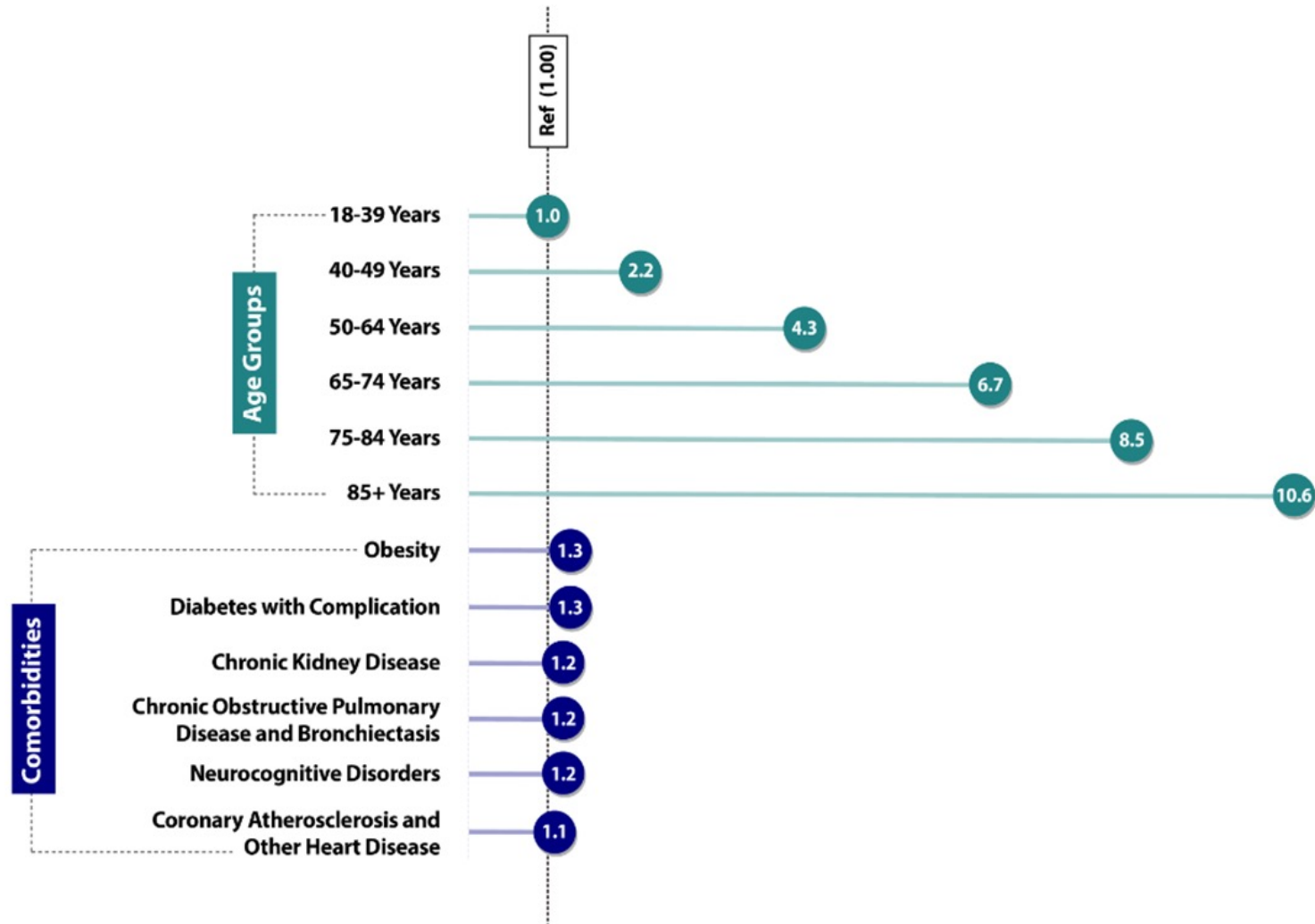
Established, probable, and possible risk factors (comorbidities that have been associated with severe COVID-19 in at least 1 meta-analysis or systematic review, in observational studies, or in case series):

- Age ≥ 65 years[†]
- Asthma
- Cancer
- Cerebrovascular disease
- Children with certain underlying conditions[‡]
- Chronic kidney disease
- Chronic lung disease (interstitial lung disease, pulmonary embolism, pulmonary hypertension, bronchiectasis, COPD)
- Chronic liver disease (cirrhosis, non-alcoholic fatty liver disease, alcoholic liver disease, autoimmune hepatitis)
- Cystic fibrosis
- Diabetes mellitus, type 1 and type 2
- Disabilities (eg, ADHD, cerebral palsy, congenital malformations, limitations with self-care or activities of daily living, intellectual and developmental disabilities, learning disabilities, spinal cord injuries)
- Heart conditions (such as heart failure, coronary artery disease, or cardiomyopathies)
- HIV
- Mental health disorders (mood disorders including depression, schizophrenia spectrum disorders)
- Neurologic conditions (dementia)
- Obesity (BMI ≥ 30 kg/m²) and overweight (BMI 25 to 29 kg/m²), or $\geq 95^{\text{th}}$ percentile in children
- Physical inactivity
- Pregnancy or recent pregnancy
- Primary immunodeficiencies
- Smoking (current and former)
- Sickle cell disease or thalassemia
- Solid organ or blood stem cell transplantation
- Substance use disorders
- Tuberculosis
- Use of corticosteroids or other immunosuppressive medications

Who is at Risk for Severe COVID-19



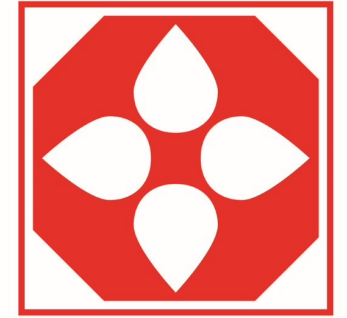
CLL SOCIETY



Role of Masking



Cochrane Database of Systematic Reviews



CLL SOCIETY

Physical interventions to interrupt or reduce the spread of respiratory viruses (Review)

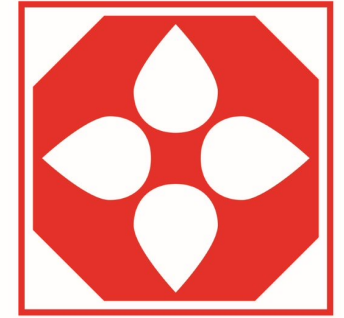
Jefferson T, Dooley L, Ferroni E, Al-Ansary LA, van Driel ML, Bawazeer GA, Jones MA, Hoffmann TC, Clark J, Beller EM, Glasziou PP, Conly JM

“wearing a mask may make little to no difference in how many people caught a flu-like illness/COVID-like illness”

“wearing N95/P2 respirators probably makes little to no difference in how many people have confirmed flu”

While masking may not lower the burden of the disease in the community, it can protect the individual behind the mask.

Impact of COVID-19 Vaccination



CLL SOCIETY

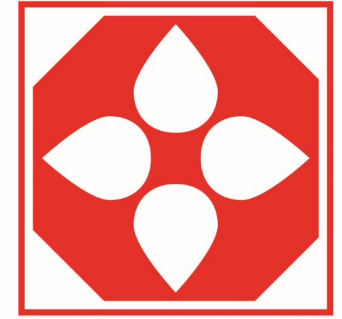
TABLE 4

Hospitalization and Death Rates With the Omicron Variant by Age and Vaccination Status in the State of Washington

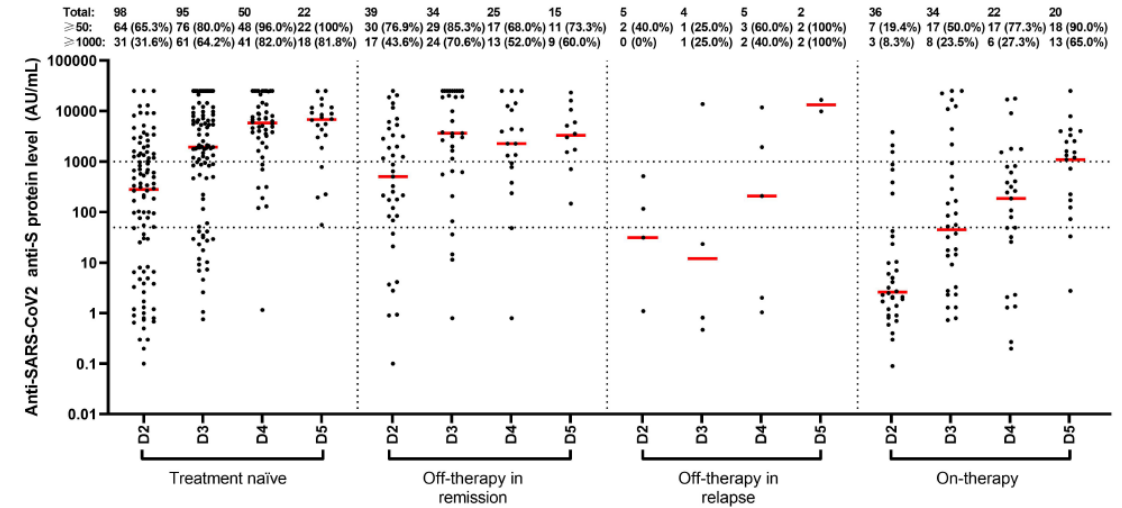
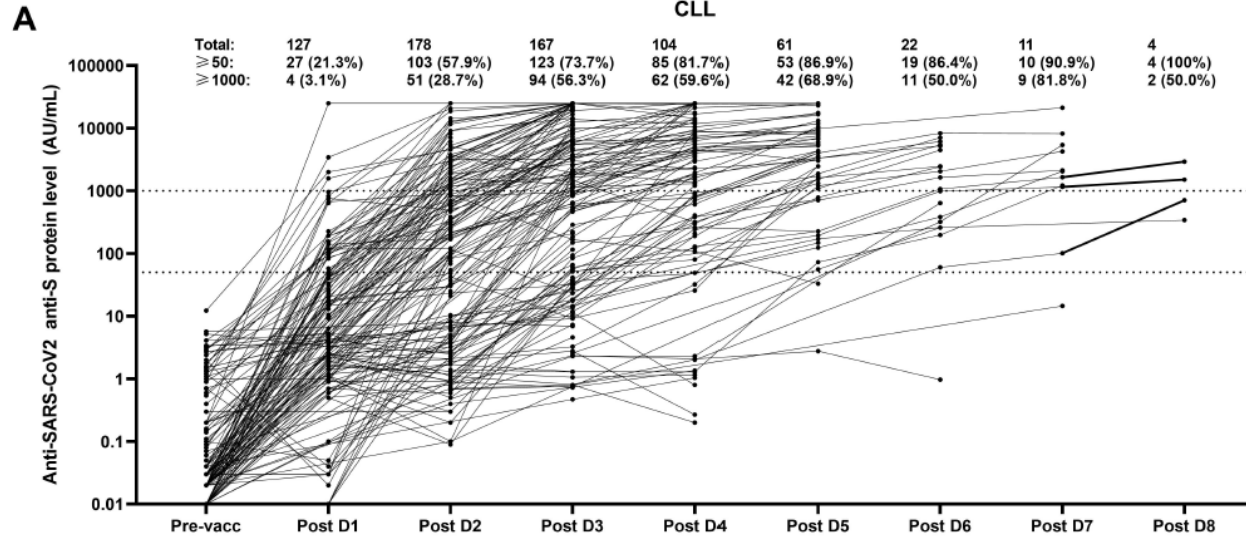
Age group (years)	Unvaccinated		Completed primary series or boosted	
	Hospitalizations per 100,000	Deaths per 100,000	Hospitalizations per 100,000	Deaths per 100,000
12 to 34	13.2	Not reported	3.2	Not reported
35 to 64	42.2	4.5	7.7	0.8
65 and older	233.3	76.2	89.9	26.8

Information from Washington State Department of Health. COVID-19 hospitalizations and deaths by vaccination status in Washington state. February 13, 2023. Accessed March 6, 2023. <https://doh.wa.gov/sites/default/files/2022-02/421-010-CasesInNotFullyVaccinated.pdf>

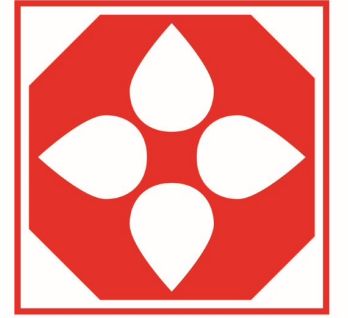
COVID-19 Vaccination in CLL



CLL SOCIETY



Pre Exposure Prophylaxis



CLL SOCIETY

Pemivibart

- Human monoclonal antibody against COVID-19
- EUA as of March 2024

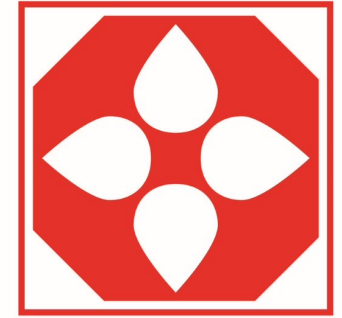
Data

- Based on immunobridging studies
- No published peer reviewed studies

Considerations

- Maintains presumed effectiveness against currently circulating variants
- IV infusion

Outpatient Medications

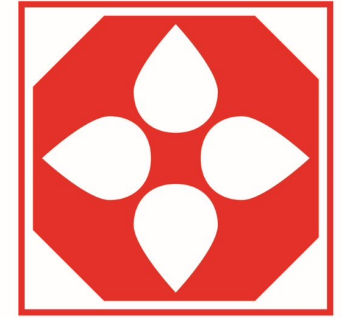


CLL SOCIETY

TABLE I. COVID-19 treatments for nonhospitalized adults

	IV antiviral	Oral antivirals		Blood product
	Veklury (remdesivir)	Paxlovid (nirmatrelvir co-packaged with ritonavir)	Lagevrio (molnupiravir)	High-titer COVID-19 convalescent plasma
NIH recommendations*	Moderate recommendation; moderate quality of evidence (BIIa)	Strong recommendation; moderate quality of evidence (AIIa)	Weak recommendation; moderate quality of evidence (CIIa)	Insufficient evidence to recommend for or against use in hospitalized or nonhospitalized patients
Mechanism of action	Nucleotide analog RNA polymerase inhibitor that halts viral replication	Viral protease inhibitor that halts viral replication	Nucleoside analog that inhibits viral replication by viral mutagenesis	Possible mechanisms of actions include direct neutralization of the virus, control of an overactive immune system (ie, cytokine storm, Th1/Th17 ratio, complement activation) and immunomodulation of a hypercoagulable state
Treatment efficacy per clinical trials	87% reduction in hospitalizations/deaths	89% reduction in hospitalizations/deaths	30% reduction in hospitalizations/deaths	Authorization is based on the totality of clinical evidence available in patients with immunosuppressive disease or receiving immunosuppressive treatment and remains limited, data from additional randomized, controlled trials are needed
Prescribing window	Initiate within 7 d of symptom onset	Initiate within 5 d of symptom onset		Not specified

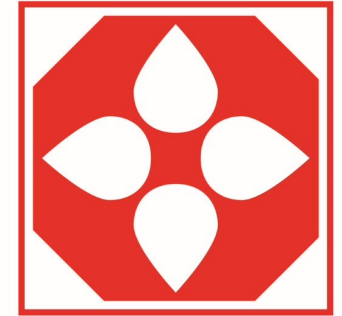
Nirmatrelvir/ritonavir (Paxlovid™)



CLL SOCIETY

Study or Subgroup	Nirmatrelvir/ritonavir		Placebo		Weight	Risk Ratio	Risk Ratio	Risk of Bias																	
	Events	Total	Events	Total		M-H, Random, 95% CI	M-H, Random, 95% CI	A	B	C	D	E	F												
1.3.2 age < 65 years of age																									
EPIC-HR 2021 (1)	7	908	46	909	86.4%	0.15 [0.07, 0.34]		+	?	+	+	+	?												
Subtotal (95% CI)		908		909	86.4%	0.15 [0.07, 0.34]																			
Total events:	7		46																						
Heterogeneity: Not applicable																									
Test for overall effect: Z = 4.67 (P < 0.00001)																									
1.3.3 age ≥ 65 years of age																									
EPIC-HR 2021 (1)	1	131	20	137	13.6%	0.05 [0.01, 0.38]		+	?	+	+	+	?												
Subtotal (95% CI)		131		137	13.6%	0.05 [0.01, 0.38]																			
Total events:	1		20																						
Heterogeneity: Not applicable																									
Test for overall effect: Z = 2.90 (P = 0.004)																									

Paxlovid™ Tolerability

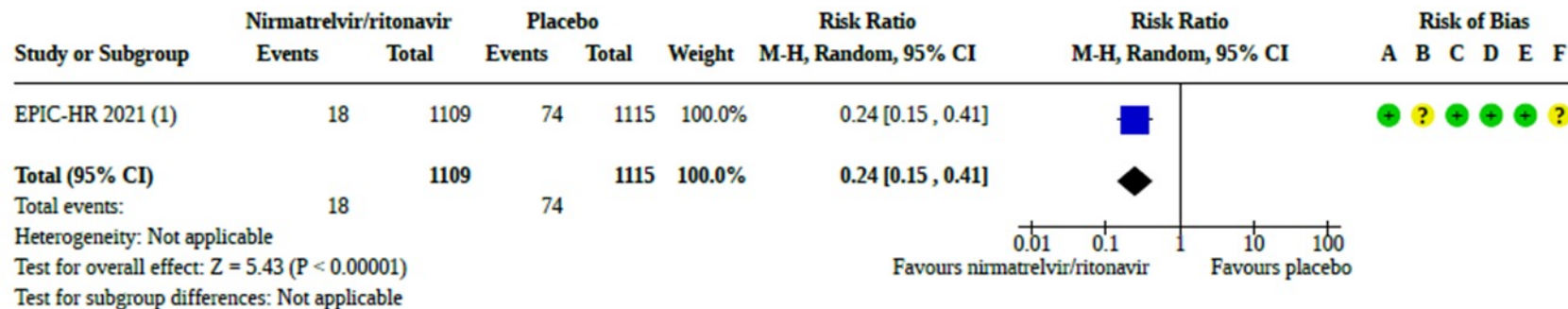


CLL SOCIETY

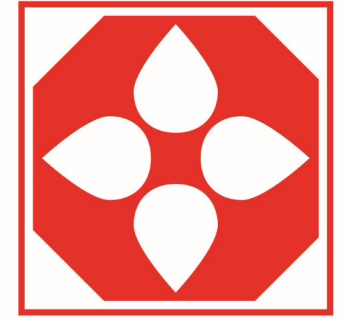
Adverse Event Category	Standard treatment plus Paxlovid group (N = 132)	Standard treatment group (N = 132)	P value
Total number of adverse events ^a - no. of patients (%)	17 (12.90)	13 (9.80)	0.44
Patients with adverse events ^a - no. of patients (%)			
Any adverse event	14 (10.6)	10 (7.6)	0.39
Serious adverse event	6 (4.5)	5 (3.8)	0.76
Event considered to be related to drug interventions	5 (3.8)	2 (1.5)	0.25
Discontinued drug interventions because of adverse events	4 (3.0)	0 (0)	0.04
Had dose reduction or temporary discontinuation owing to adverse event	1 (0.8)	1 (0.8)	>0.99

^aAdverse events were defined as newly developed adverse events or progression of prior existed conditions.

Table 3: Summary of adverse events, serious adverse events, and adverse events leading to discontinuation during the treatment period.



Outpatient Systemic Steroids



CLL SOCIETY

Table 2. Outcomes.*							
Outcome	No. of Included Reports	No. of Glucocorticoid Patients	No. of Control Patients	Odds Ratio	95% CI	P Value for Effect	<i>I</i> ² (%)
Overall population	6	3704	2930				
Mortality†	6	509/3704 (14%)	294/2930 (10%)	1.56‡	1.27–1.92‡	<0.001‡	20
RCTs only	5	90/580 (16%)	145/1130 (13%)	1.34§	1.00–1.78§	0.05§	0
Mechanical ventilation¶	4	98/550 (18%)	160/1088 (15%)	1.32	1.00–1.74	0.05	0

Number needed to harm = 27

Medications NOT to Use

TABLE III. COVID-19 treatments not currently recommended for use

Strong recommendations against

Hydroxychloroquine

Lopinavir-ritonavir

Casirivimab and imdevimab*

Sotrovimab*

Convalescent plasma in immune-competent patients in nonsevere cases

Colchicine in nonsevere cases

Weak or conditional recommendations against

Ivermectin (except in a research setting)

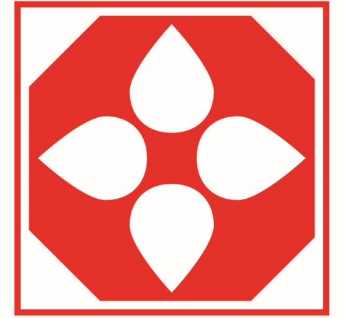
Corticosteroids in nonsevere cases

Fluvoxamine in nonsevere cases (except in a research setting)

Ruxolitinib and tofacitinib (should be considered only if neither baricitinib nor IL-6 receptor blockers are available)

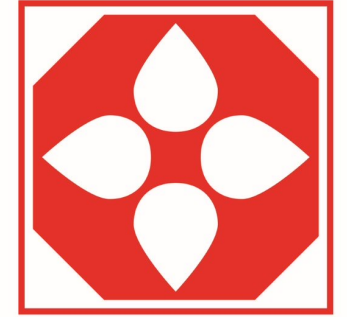
Convalescent plasma in severe or critical cases (except in a research setting)

Remdesivir in critical cases

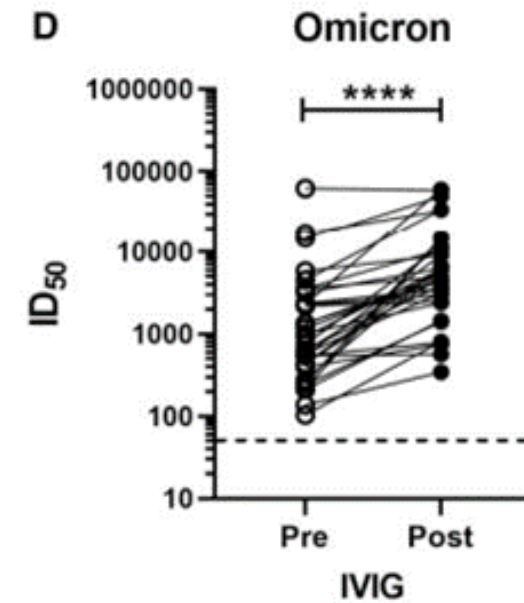
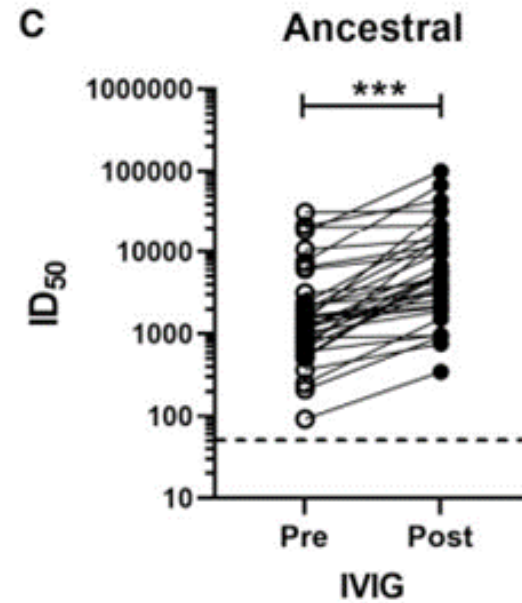
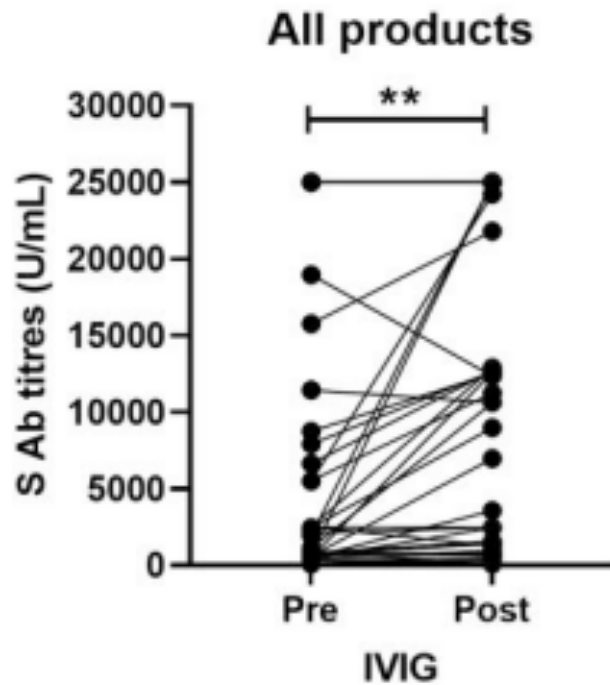


CLL SOCIETY

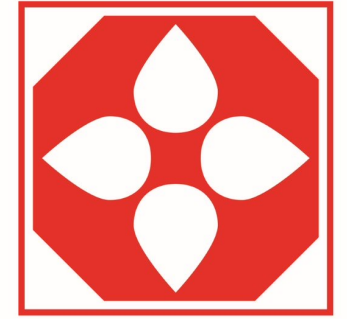
Ig Replacement



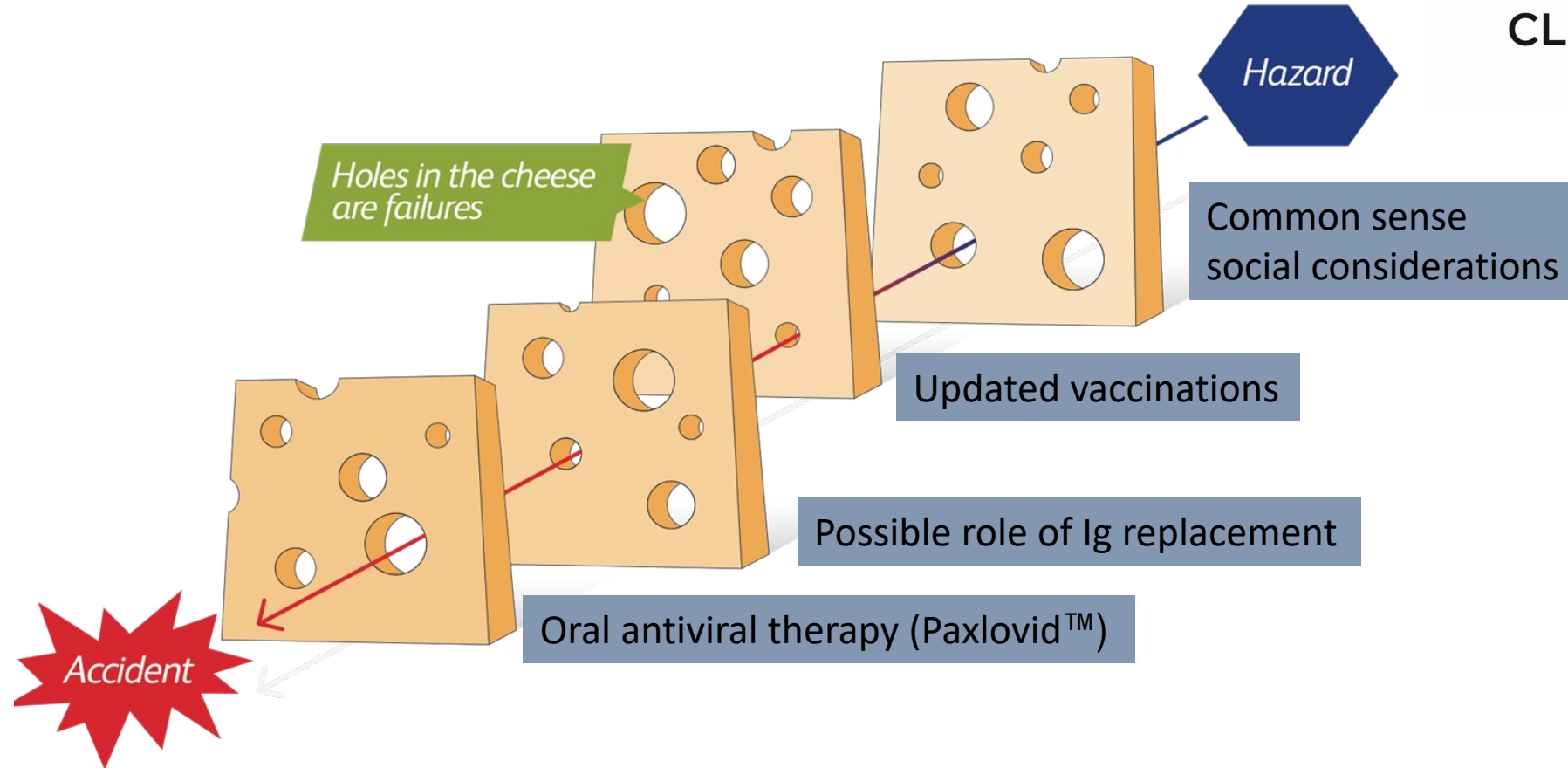
CLL SOCIETY



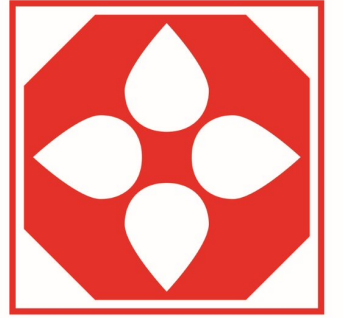
COVID-19 Risk Mitigation



CLL SOCIETY



Summary



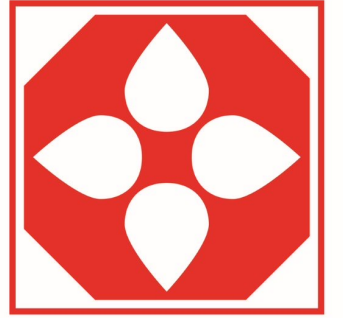
CLL SOCIETY

COVID
continues to
impact high
risk individuals

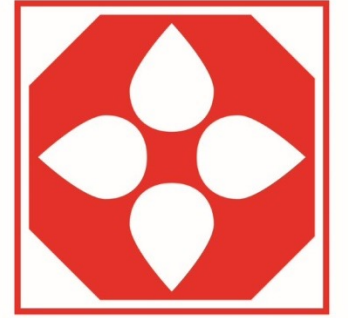
Vaccination
remains
cornerstone of
risk mitigation

Oral antivirals
(Paxlovid™) is
the cornerstone
of outpatient
management

Thank You

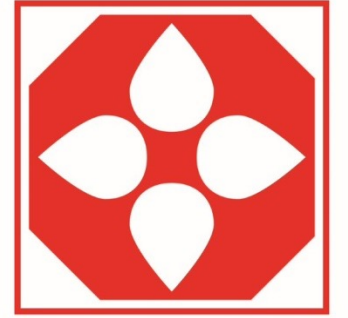


CLL SOCIETY



CLL SOCIETY

Audience Questions & Answers

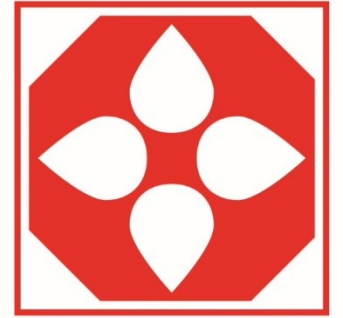


CLL SOCIETY

This Program Was Made Possible
Through Generous Donors Like
You

Thank You for Attending!

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



CLL SOCIETY

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

Join us on June 3rd for our next webinar on when to treat and common CLL symptoms

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/