# **Occupational Health Update:** Long Term Care Facilities 11-05-24

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### **Disclosures**

- No financial relationships to disclose
- No off-label or investigational use of medications and/or devices
- The information and views set out in this presentation are those of the author and do not necessarily reflect the official opinion of the University of North Carolina at Chapel Hill or UNC Health

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**ACIP Updates** 



### **UN Objectives ACIP Updates** Vaccines for HCPs (Pre-exposure prophylaxis) Post-exposure prophylaxis (Bloodborne Pathogens) COVID-19 Employee Well-Being **Civic Health**

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## ACIP April 2022 Update Hepatitis B Vaccines are now universally recommended for all adults aged 19 - 59 years old instead of based solely on risk factors. This reflects the rising cases of Hepatitis B since the nadir in 2014 and acknowledges that risk-based intervention misses people reluctant to disclose. Also note that ACIP recommendations for Hepatitis B screening

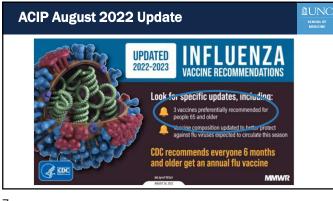
were updated in March 2023 to include testing at least once per lifetime in addition to risk factor-based testing

# ACIP June 2022 Update

### JYNNEOS for Monkeypox

- Two vaccines (JYNNEOS and ACAM2000) for orthopoxviruses (including MPX and smallpox). JYNNEOS w/ much less contraindications.
- Pre- or post- exposure prophylaxis indications based on risk factors (generally intimate, prolonged contact)
- Most healthcare workers do not need to get this vaccine. Exceptions include HCPs w high risk exposure (caring for +pt for prolonged period without PPE) and lab personnel handling specimens

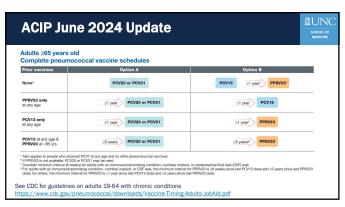
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AC	IP June 2023/2024 Update
•	SV Vaccine (Abrysvo or Arexvy) Single dose (for now), high efficacy over two RSV seasons Can be coadministered with other vaccines Adults 75+ Adults 60 – 74 at higher risk for severe illness and hospitalization Got rid of shared decision-making Abrysvo is also recommended for pregnant people 32 – 36 wks GA from Sept – Jan When vaccinating nonpregnant adults, it should be done year-round (in contrast with pregnant people and babies only during RSV season) Not affirmatively recommended for healthcare workers at this time unless they fall into another category

AC	IP December 2023 Update	
• P •	<ul> <li>olio</li> <li>New: Unvaccinated or partially vaccinated adults should complete primary series</li> <li>Case of polio in 2022 in NY in an unvaccinated adult prompted this new recommendation</li> <li>Unchanged: Fully vaccinated adults with exposure risk (travel to end area, etc) should get one booster</li> </ul>	demic
https	//www.sds.gov/mmwt/volumest/72/wt/mm7249x3.htm	

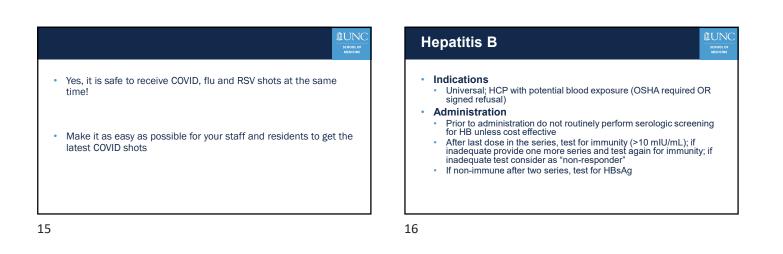
ACIF	P June 2024 Update	
	eumococcal Vaccines New availability of PCV21 (Merck Sharp & Dohme Corp.)	
• 1	Don't forget PCV15 and PCV20 were approved in 2022.	
	PCV21 is interchangeable with PCV20, unless you are in the Western US where preference is PCV20 since it has serotype 4.	
	PCV13 is gone, and PPSV23 is really only used in conjunction with PCV15. Easiest is if you get either PCV20 or PCV21 on formulary.	
	Not affirmatively recommended for healthcare workers at this time unless they fall into another category	643_

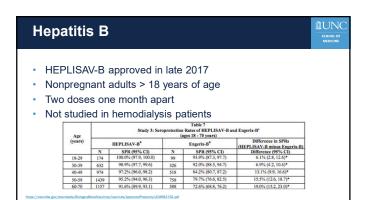


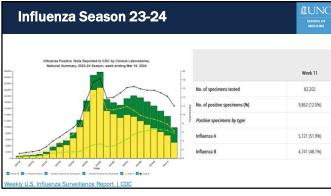


HCP Vaccination Recommendations							
Vaccination	Recommendation						
COVID-19	Everyone 6 months+ should get one dose of newest formulation (came out 9/1/24)						
Hepatitis B	If no prior dose, either 2 doses of Heplisav-B or 3-dose series of either Engerix or Recombivax Obtain serology 1-2 months after final dose						
Influenza	Give 1 dose annually						
MMR	HCP born in 1957 or later need 2-doses of MMR, 4 weeks apart if no prior immunity or vaccination. Before 1957, consider serology testing and dosing if needed						
Varicella	If no prior infection, serologic immunity, prior vaccination, give 2 doses of varicella vaccine 4 weeks apart						
Tetanus, diphtheria, pertussis	Give 1 dose to all who have not received previously. Each pregnancy. Booster every 10 years (Td or Tdap)						
Meningococcal	Routinely to microbiologists exposed to isolates of N. Meningitidis						

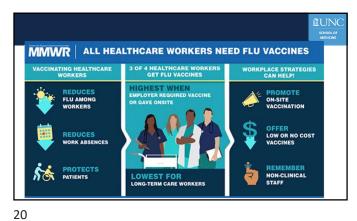
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•	So wait - I thought it wasn't required anymore for healthcare personnel?
	<ul> <li>The federal CMS regulation, which had required all HCPs to be covid vaccinated, has been retired. Individual hospitals, LTC companies, etc can decide to have it be an internal condition of employment if they wish. CMS continues to require reporting of HCPs' vaccination rates.</li> </ul>











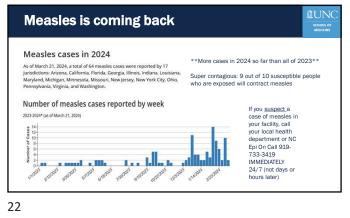
 Influenza vaccines

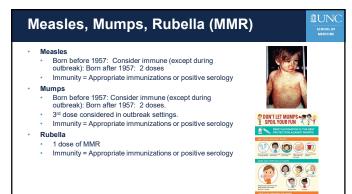
 • ACIP recommendations

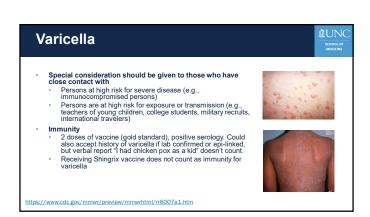
 • One annual dose for all persons ≥ 6 months of age (sometimes 2 doses for kids)

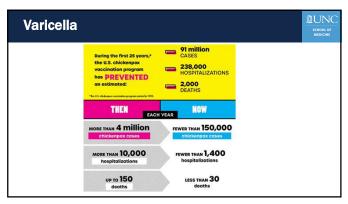
 • Required for residents and HCP in ECFs in NC (1 N.C. Gen. Stat. Ann. § 131E-113(a))

 • Required in SC LTC (S.C. Code Ann. Regs. 61-17)

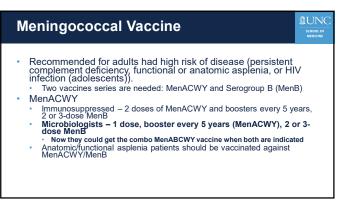








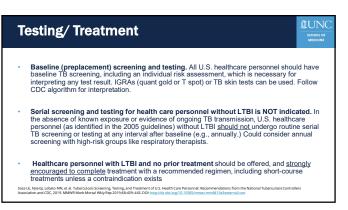
•	Substitute 1 dose Tdap for all adults when Td booster due if no history of Tdap.
	<ul> <li>May be used to provide tetanus PEP</li> </ul>
	<ul> <li>Provide to all adults with exposure to young children (no delay after Td)</li> </ul>
	<ul> <li>Also recommended for pregnant people in each pregnancy (preferably 27-36 weeks gestational age)</li> </ul>
	<ul> <li>Only one dose of Tdap is required, employees who are 10 years out from Tdap can be boosted with Td or Tdap (but preference is Tdap).</li> </ul>



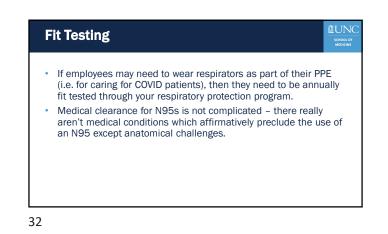








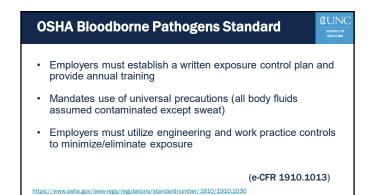
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<ul> <li>SARS-CoV-2 Vaccine and TB testing</li> <li>TB screening with skin test or interferon gamma release assay may be performed regardless of timing of SARS-CoV-2 vaccination (and visa versa). – Jan 28 2021 memo</li> </ul>	
<ul> <li>Patients in long term care facilities</li> <li>Testing upon admission (two-step TST or IGRA). Annual screening which can be accomplished by a verbal elicitation of symptoms.</li> <li>10A NCAC 41A.0205; 10A NCAC 13D.2202 &amp; 2209</li> </ul>	Э
<ul> <li>Long term care facility employees</li> <li>Testing upon employment (two-step for TST or IGRA) and after any exposures. Annual education.</li> <li>10A NCAC 41A.0205; 10A NCAC 13D .2202 &amp; .2209; OSHA</li> </ul>	
https://epi.dph.ncdHvs.gov/cd/Hxdv/manuals/tb)CDVIDvasMemo01282021.pdf	





Bloodborne Pathogens	BUNC School of Medicine
<ul> <li>Approximately 385,000 needle sticks and other sharps-related injuries to hospital-based healthcare personnel each year.</li> <li>58 total known occupationally acquired HIV cases in HCPs; al 1 were prior to 1999.</li> <li>88% (50/57) of the documented cases of occupational HIV transmission from 1985-2004 involved a percutaneous exposu Of those, 45/57 involved a hollow-borne needle.</li> <li>41% of sharp injuries occur during use; 40% after use/<u>before disposal;</u> 15% during/after disposal</li> </ul>	l but
https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6353a 4.htm	



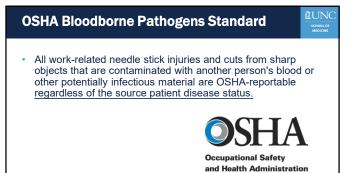


### OSHA Bloodborne Pathogens Standard

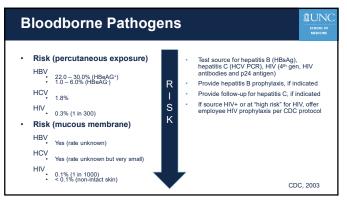
- Requires offering hepatitis B vaccine to persons with the potential for exposure
- Testing of exposed employees for Hepatitis B and HIV
- Post-exposure prophylaxis must be immediately available as per CDC guidelines
- All work-related needle stick injuries and cuts from sharp objects that are contaminated with another person's blood or other potentially infectious material are OSHA-reportable regardless of the source patient disease status.

(e-CFR 1910.1013)

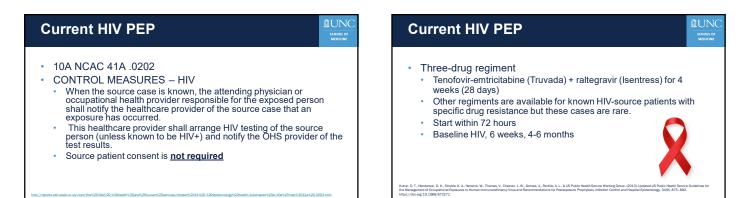
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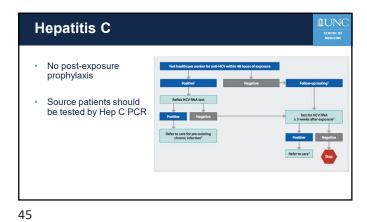


posi	ure Pa	thv	vay			
Infection Status of Source Patient	Baseline Labs	2 Weeks	4 Weeks	6 Weeks	4 Months	6 Months
DATE: >		_/_/_		_/_/		
HIV positive	HIV test - 4 <sup>th</sup> generation	Lab - only if baseline abnormal or dinical indication		HIV test - 4" generation	HIV test - 4" generation	
HBallg pasitive	If source positive and HCP unknown, need HBaAb.     If HBaAb ≥12 m01/mL. testing complete. If HBaAb <12 m01/mL, need arti- HBC & HBAB <12 m01/mL, need arti- HBC & HBAB <12					• Ans-HOc • HDiAg
Hepatitis C RNA PCR positive	Anti-HCV (Hepatitis C antibody)	Lab - only if baseline abnormal or clinical indication		HCV RNA PCR	ArtS-HCV (Hepatitis C antibody)	
Unknown source	HEV Int - 4" generation     If Bource unknown and HCP HibAbb unknown, need HibAbb, 212 mitu/mL, testing complete, IT HibAbb <12 mitu/mL, need arti- baatine     HCV antbody	Lab - only if baseline abnormal or dinical indication		HOV test -     4 <sup>th</sup> generation     HOV RNA     POR	<ul> <li>HIV test - <sup>4</sup> <sup>4</sup> <sup>4</sup></li></ul>	• Anti-Hitic • Hitishig



Hepatitis B	
<ul> <li>Universal; HCP with potential blood exposure (OSHA req or HCP may decline)</li> <li>No need to routinely obtain Hep B titers if an employee has documented vaccine series and a positive titer</li> <li>In practice, we usually titer and give a booster if titer is &lt; 10 ml</li> <li>For known non-responders, with exposure they should get Hep B Immune Globulin (HBIG) within 24 hours (up to 7 days after exposure)</li> </ul>	U/mL

Hepatitis B Posterposure Management of Health Care Personnel after Occupational Exposure to Biood and Body Blads, by Health Care Personnel Hep Electionation and Response Status								ed and Body		
				Hep8 Vaccination and Response Status	Postexposure testing results for source patient (HBsAg)	Postexposure testing results for HCP (anti-HBs)	HBIG* postexposure prophylaxis	Vaccination postexposure prophylaxis	Postvaccination Serologic Testing <sup>1</sup>	
				Documented responder <sup>6</sup> after complete series (3 or more doses)	No action needed	No action needed	No action needed	No action needed	No action needed	
	HBsAg Anti-HBc HBsAb'				Positive/ unknown		2 doses HBIG separated by 1 month	No action needed	No action needed	
Acute infection	Positive	IgM positive	Negative	after 2 complete series	Negative	No action needed	No action needed	No action needed	No action needed	
Infection resolved	Negative	IgG Positive	Positive		Positive/ unknown	less than 10 mill/mi **	1 dose HBIG	Initiate	Yes	
Chronic infection Vaccinated	Positive	IgG Positive Negative	Negative Positive	Response unknown after a complete series	Negative	less than 10 mIU/mL	None	Initiate	Yes	
Susceptible	Negative	Negative	Negative	complete series	Any result	greater than or equal to 10 mill/mi	No action needed	No action needed	No action needed	
Olero, William, Parga, Jul hepatila 5 virus: multole	Olero, William, Parga, Julia, & Gastalbondo, Johanna. (2018). Serology of hepatite B strux multiple aconanios and multiple esems. Revolts colombiane de Gastoseterologia, 32(4), 411-432. <u>https://doi.org/10.22516/25007440.327</u>				Positive/ unknown	**	1 dose HBKS	Complete	Yes	
de Gastroenterologia, 33					Negative	No action needed	None	Complete vaccination	Yes	
				administered greater	inistered intramuscula than 7 days after perci ed in separate anatom	staneous, mucosal, or	after exposure when nonintact skin exposi	indicated. The effectiv res is unknown. HBK5	eness of HBIG when and HepB vaccine	
				Should be performed 1 to 2 months after the last dose of the Hep8 vaccine series (and 4 to 6 months after administration of HBIS to avoid detection of passively administered anti-HB) using a quantitative method that allows detection of the protective concen- tration of anti-HBs (pravet thin or equal to 10 m/l/ml.)						
				<sup>1</sup> A responder is defined as a person with anti-HBs greater than or equal to 10 mIU/mL after 3 or more doses of HepB vaccine.						
					A nonresponder is defined as a person with anti-HBs less than 10 mIU/mL after 2 complete series of HepB vaccine.					
ttps://www.cdc.gov/pin contents/index.html?CD	C_AAref_Val=h		/vaccines/pu	source patient who is possible after exposu	HBs less than 10 mIU/r HBsAg-positive or has re and follow-up testin ths consists of HBsAg a	unknown HBsAg stati g approximately 6 mc	s, should underno by	seline testing for HRV	infection as soon as	
s/pinkbook/hepb.html#	Epidemiology			opproximately o mon	and contrasts of noting (	ing total and the				



<ul> <li>Hepatitis B</li> <li>Not required if employee has immunity</li> <li>HIV</li> <li>Dependent on source patient and available testing</li> <li>Hepatitis C</li> <li>Dependent on source patient, test for HCV antibodies and HCV RNA</li> </ul>	Follow-up Testing	
	<ul> <li>Not required if employee has immunity</li> <li>HIV</li> <li>Dependent on source patient and available testing</li> <li>Hepatitis C</li> </ul>	/ RNA

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Deaths ) % of All Dea

1.8%

Jan 27, 2024 Mar 16, 2024

Death data through: M Rostart March 25, 20

# COVID Control Recommendations

### Updated May 8, 2023

- Encourage all employees to remain up to date on COVID-19 vaccines, including provision of resources
- Establish a process to identify and manage individuals with suspected or confirmed
- COVID

  Implement source control measures (changed from earlier recommendations)
- Implement universal use of personal protective equipment for HCP
- Optimize use of engineering controls and indoor air quality
- Perform SARS-CoV-2 viral testing
- Fenomi SARS-COV-2 VIral testing
- Create a process to respond to COVID exposures among HCP and others
- /www.cdc.gov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hco.htm?CDC\_AAref\_Val=https://www.cdc.agov/covid/hcg/infection.control/guidance-risk-assessment/hcovid/hcg/infection.control/guidance-risk-assessment/hcovid/hcg/infection.control/guidance-risk-assessment/hcov

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51

# COVID Control Recommendations Every event • Encourage all employees to remain up to date on COVID-19 vaccines, including provision of resources • Recall that we discussed earlier that this is no longer mandatory for federal regulations but can be mandatory if your employer decides to make it

**COVID-19+ HCP Return to Work COVID Control Recommendations (In Flux)** HCP with mild to moderate illness who are not moderately to severely immunocompromised could return to work after the following criteria have been met: Establish a process to identify and manage individuals with suspected · At least 7 days have passed since symptoms first appeared if a negative viral test\* is obtained within 48 hours prior or confirmed COVID to returning to work (or 10 days if testing is not performed or if a positive test at day 5-7), and For HCPs, they should report any of the following three criteria to your At least 24 hours have passed since last fever without the use of fever-reducing medications, and Occupational Health: Symptoms (e.g., cough, shortness of breath) have improved. Positive test for COVID Positive test for COVID Symptoms of COVID - HCPs with even mild symptoms need a test! - Positive antigen test (No sufficient, no need to retest with PCR - Negative antigen test is NO sufficient and needs continnatory PCR - Don't forget about flu and RSV! - Should not be working until at least 24 hrs without fever of any cause off antipyretics Close contact to COVID \*Either a NAAT (molecular) or antigen test may be used. If using an antigen test, HCP should have a negative test obtained on day 5 and again 48 hours later HCP who were asymptomatic throughout their infection and are not moderately to severely immunocompromised could return to work after the following criteria have been met: At least 7 days have passed since the date of their first positive viral test if a negative viral test\* is obtained within 48 hours prior to returning to work (or 10 days if testing is not performed or if a positive test at day 5-7). \*Either a NAAT (molecular) or antigen test may be used. If using an antigen test, HCP should have a negative test obtained on day 5 and again 48 hours later 52

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### What about quarantines for exposures?

Work restriction is not necessary for most asymptomatic HCP following a higher-risk exposure, regardless of vaccination status. Examples of when work restriction may be considered include:

- HCP is unable to be tested or wear source control as recommended for the 10 days following their exposure;
- HCP is moderately to severely immunocompromised;
- HCP cares for or works on a unit with patients who are moderately to severely immunocompromised;
   HCP works on a unit experiencing ongoing SARS-CoV-2 transmission that is not controlled with initial interventions;

# Asymptomatic HCPs w COVID exposures

Following a higher-risk exposure, HCP should:

- Have a series of three viral tests for SARS-CoV-2 infection.
  - Testing is recommended immediately (but not earlier than 24 hours after the exposure) and, if negative, again 48 hours after the first negative test and, if negative, again 48 hours after the second negative test. This will typically be tday 1 (where day of exposure is day 0), day 3, and day 5.
  - Due to challenges in interpreting the result, testing is generally not recommended for asymptomatic people who have recovered from SARS-CoV-2 infection in the prior 30 days. Testing should be considered for those who have recovered in the prior 31-90 days; however, an antigen test instead of NAAX is recommended. This is because some people may remain NAAT positive but not be infectious during this period.
- Follow all recommended infection prevention and control practices, including wearing well-fitting source control, monitoring themselves for fever or <u>symptoms consistent with COVID-19</u>, and not reporting to work when ill or if testing positive for SAR5-COV infection.
- Any HCP who develop fever or <u>symptoms consistent with COVID-19</u> should immediately self-isolate and contact their established point of contact (e.g., occupational health program) to arrange for medical evaluation and testing.

# **Employee Well-being**

Could be its own lecture

Taking good care of employees benefits all: patients, employees, and the business (safer environment, lower turnover, less staffing shortages) •

- Physical and mental well-being
- Living wages and robust benefits
- Parental leave
- Comprehensive DEI (diversity, equity, and inclusion) trainings and meaningful reflections in workplace policies/practices, not just lip service Safety from workplace violence
- Fair PTO policies that disincentivize presenteeism Access to resources for burnout, moral injury

55

**Respiratory Illnesses on the Rise** "Stay home, save lives": Characterizing sickness presenteeism among healthcare personnel during the COVID-19 pandemic Results 60% of HCP ed w Presenteeism is any symptoms a major threat to st once since March 2020. patient and Of them, 84% employee health eived low risk of COVID-19 arily min. (HCP) at a Study population

56





