# **OCCUPATIONAL HEALTH FOR HCP: UPDATE** David J. Weber, MD, MPH, FIDSA, FSHEA, FRSM (London) Sanders Distinguished Professor of Medicine, Pediatrics and Epidemiology Associate Chief Medical Officer Medical Director, Hospital Epidemiology University of North Carolina, Chapel Hill, NC Disclosures: Consultancy; Pfizer, Merck, PDI, BD, Germitec, Wellair All drugs/vaccines issues discussed consistent with FDA approvals or authorizations UNC

#### PREVENTING HCP INFECTIONS & INJURIES

It is the responsibility of the facility, to the extent possible, to provide a safe working environment. This includes minimizing the risk of infectious disease exposures and injuries. An organized program should be in place to identify and evaluate both infectious disease exposures and injuries, and to provide care of the exposed or injured healthcare provider.

- · A casual attitude towards personnel health entails a high cost
  - Increased patient morbidity
     Increased staff morbidity
- · Significant financial cost and legal risk
- · Prevention is superior to treatment

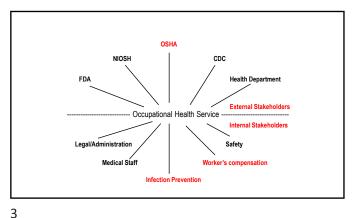
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• The tools used to reduce the risk of acquiring infection can be used to reduce the risk of injuries





#### **OCCUPATIONAL HEALTH SERVICE (OSH): DEFINITIONS**

- "OHS" is used synonymously with "Employee Health," "Employee Health Services," "Employee Health and Safely," "Occupational Health," and other such programs. OHS refers to the group, department, or program that addresses many aspects of health and safely in the workplace for HCP, including the provision of clinical services for work-related injuries, exposures, and illnesses in Ineathcare settings, OHS addresses workplace hazards including communicable diseases, sips, trips, and falls, patient handling injuries, chemical exposures;
- The term "HCP" refers to all paid and unpaid persons serving in healthcare settings who have the potential for
  direct or indirect exposure to patients or infectious materials, including body substances; contaminated medical
  supplies, devices, and equipment, contaminated environmental surfaces; or contaminated air. For this
  document, HCP does not include dental healthcare personnel, autopsy personnel, and clinical aboratory
  personnel, as recommendations to address occupational IPC for these personnel are available elsewhere.
- The term "healthcare settings" refers to places where healthcare is delivered and includes, but is not limited to, acute care facilities, long-term acute care facilities, inpatient rehabilitation facilities, nursing homes and assisted living facilities, home healthcare; we heldes where healthcare is delivered (e.g., mobile clinics), and outpatient facilities, such as dialysis centers, physician offices, and others.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/infection-control-HCP-H.pdf



#### **HCP: RISKS**

- Healthcare is the fastest-growing sector of the U.S. financial system. It employs over 18 million workers. Women represent nearly 80% of the healthcare work force. Healthcare workers face a wide range of hazards on the job including:
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  Sharpis finites (floodborne pathogens)

  Chemical and drug exposure (aerosolized medications (fibavirin, amikacin, colistin, tobramycin), anesthetic gases, antineoplastic drugs, chemica sterilants and high—level disinfectants, nitrous oxide, surgical smoke, and other related resources)

  Back injuries
- Latex allergies

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- Violence Stress
- Although it's possible to prevent or reduce these hazards, healthcare workers continue to experience injuries and illnesses at work. Cases of nonfatal work injury and illness with HCP are among the highest of any industry sector.
- HCP are routinely exposed to infectious organisms in their workplaces. These include: Bacteria, Fungi, Viruses & Parasites Respiratory (influenza, RSV, SARS-CoV-2, TB, pertussis), Bloodborne (HIV, HBV, HCV), contact (norovirus, rotavirus, MRSA)
- HCP, emergency response and public safety personnel, and other workers can be exposed to blood through: Needlestick and other sharps injuries, mucous membrane, and skin exposures

https://www.cdc.gov/niosh/topics/healthcare/default.html



#### Infection Prevention and Control Objectives for an **Occupational Health Service**

#### OHS objectives for IPC generally include:

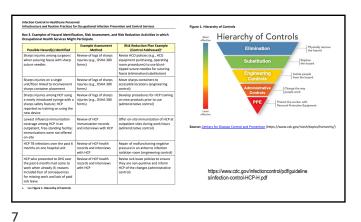
- supporting an HCO safety culture:
- adhering to federal, state, and local requirements for occupational health
- collaborating with others (e.g., facility IPC services) to monitor and investigate potentially infectious exposures, illnesses, and outbreaks involving HCP;
- identifying work-related infection risks and collaborating to institute appropriate risk reduction and preventive measures;
- providing HCP preventive measures (e.g., immunizations) and care for occupational exposures or illnesses;
- educating and training HCP about the principles of exposure (e.g., sharps injuries) and infection prevention;
- reducing absenteeism, illness, and disability among HCP; and
- ensuring confidentiality of HCP information consistent with federal, state, and local requirements.

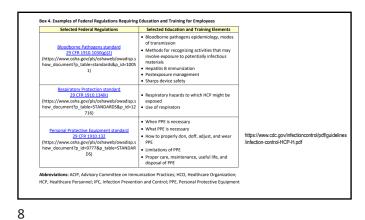
#### OHS program responsibilities include:

- · Leadership and management
- · Communication and collaboration
- Assessment and reduction of risks for infection among populations of HCP
- · Medical evaluations
- Occupational IPC education and training
- · Immunization programs
- Management of potentially infectious exposures and illnesses
- Management of HCP health records

https://www.cdc.gov/infectioncontrol/pdf/guidelines/infection-control-HCP-H.pdf

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#### OCCUPATIONAL HEALTH ACTIVITIES

#### Pre-employment screening

- Employment physical (selected; DOT, FAA, police)
- Drug/alcohol screening should be considered
- Screen for latent TB (TST or IGRA blood test) Screen for active TB (symptoms; if positive CxR, sputums?)
- Immunization review
- · Fit test clearance (questionnaire, medical exam?); fit testing
- Hearing evaluation/audiogram (if indicated by noise exposure)
- · Counseling: pregnant women, immunocompromised

#### Annual screening Immunization review

- Screening for TB disease should be considered (symptoms; if positive CxR, sputums?)

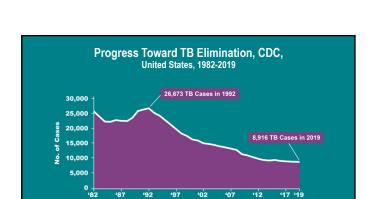
#### Evaluation of injured personnel

- First aid
- · Long-term care
- Communication with Worker's Compensation

Return to work evaluation (non-occupational diseases and/or injuries, communicable disease – if indicated)

Other activities: 1) work site evaluations (e.g., ergonomics); 2) for cause drug/alcohol testing; 3) education (fire, chemical & radiation safety; infection prevention; ergonomics); 4) smoking cessation

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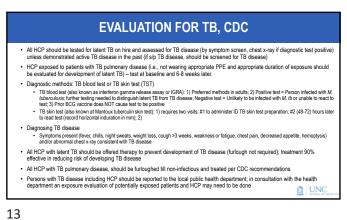


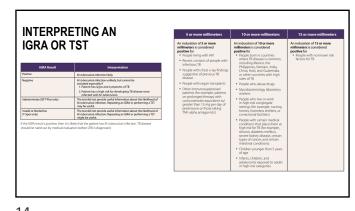
**EVALUATION OF HCP FOR LATENT TB** AND TB DISEASE UNC 10

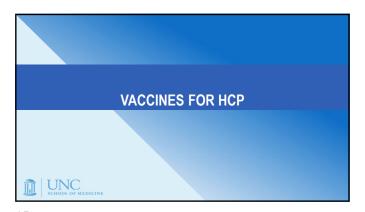
TB: LATENT TB VERSUS TB DISEASE, CDC Risk Factors for TB Disease
Infection with HIV
History of untreated or inadequately treated TB disease Person with TB Disease (in the lungs) disease Recent TB infection (within the past 2 years) Abusing drugs or alcohol or smoking Abusing drugs or alcohol or smoking cigarettes
Receiving immunosuppressive therapy such as tumor necrosis factor-alpha (TNF) antagonists, systemic conficosteroids equivalent biggeater than 15 mg of predisone per day or immunosuppressive drug therapy following organ transplantation

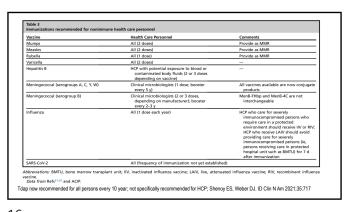
Silicosis Does **not** feel sick, but may become sick if the bacteria become active in his or her body May feel sick and may have symptoms such as a cough, fever, or weight loss Tuberculin skin test or interferon-gamma release assay results usually positive Sputum smears and cultures may be p Should consider treatment for LTBI to prevent TB disease Needs treatment for TB disease Does not require respiratory isolation May require respiratory isolation Diabetes meintus
Chronic renal failure
Certain types of cancer (e.g., leukemia, cancer
of the head, neck, or lung)
Certain intestinal conditions
Low body weigh Not a case of TB A case of TB

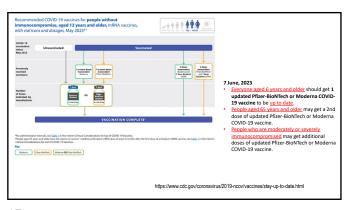
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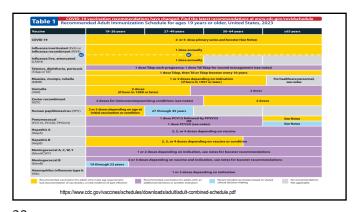




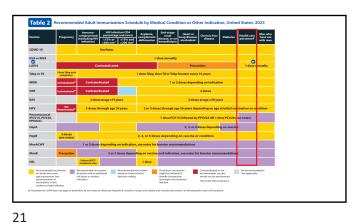


accine	Birth Before 1957	Physician Diagnosis	Positive Serology	Self- Report	Documented Appropriate Vaccine Series <sup>a</sup>
lumps (MMR)	Yesb	Yes <sup>d</sup>	Yes	No	Yes
easles (MMR)	Yesb	Yes <sup>c</sup>	Yes	No	Yes
bella (MMR)	Yes <sup>b,c</sup>	No	Yes	No	Yes
ricella	No	Yes	Yes	Yes®	Yes
epatitis B	No		>10 mIU/mL <sup>f</sup>	No	Yes
nfluenza	No	No	No	No	Yes
ARS-CoV-2	No	No	No	No	Yes

#### **VACCINE PREVENTABLE DISEASES** Cervical, vulvar, vaginal cancer (HPV) · Pertussis (outbreak) Coronavirus-19 Pneumococcal disease Diphtheria (outbreak) · Poliomyelitis (outbreak) Genital warts (HPV) Rabies (PEP) · Hepatitis A (PEP, outbreak) Rectal cancer (HPV) Hepatitis B (PEP) Rotavirus Hepatitis D RSV · H. influenza type b Rubella (outbreak) Human papillomavirus Smallpox (PEP, outbreak) Influenza A and B · Tetanus (PEP) · Japanese encephalitis Tuberculosis · Liver cancer (hepatitis B) Typhoid fever Measles (PEP, outbreak) · Varicella (PEP) Meningococcal A,C,Y,W135 (outbreak) · Yellow fever Meningococcal B (outbreak) Monkeypox (PEP, outbreak) · Zoster (Shingles) PEP = post-exposure prophylaxi



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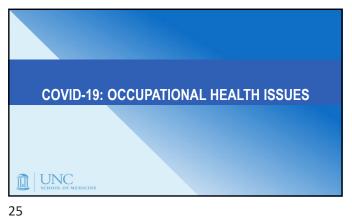


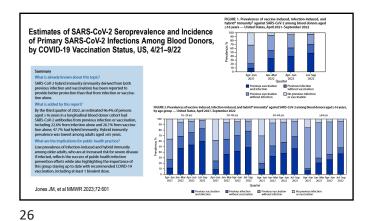
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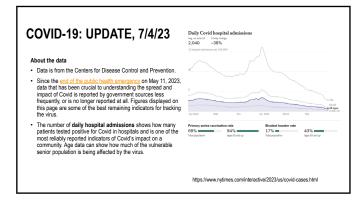
### **SPECIAL USE VACCINES IN HCP** Anthrax: Post-exposure BCG: Pre-exposure (high risk) Hepatitis A: Post-exposure, outbreak, research, travel Japanese encephalitis: Research, travel Meningococcal: Outbreak, laboratory (spinning CSF), travel Polio: Research, travel · Rabies: Post-exposure, research, travel · Typhoid: Research, travel JYNNEOS (mpox): Pre-exposure, post-exposure, research Yellow fever: Research, travel I UNC

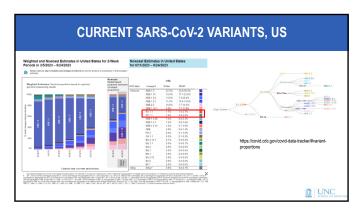
#### **Immunization Programs For HCP** Features of an Effective Program Strategies for improving HCP immunization coverage Using organizational leaders as role models (e.g., visibly vaccinating institutional leaders to improve coverage among HCP under their leadership). · prevent vaccine-preventable diseases among HCP; prevent illness among patients and others, such as HCP family and household members, by reducing their risk of encountering infectious HCP; Conducting education or organizational campaigns to promote awareness and knowledge about vaccines. adhere to ACIP immunization recommendations for HCP and federal, state, and local requirements; · Providing free access (i.e., no out-of-pocket expense to HCP) to reduce the need for, and costs related to, reactive measures, including postexposure prophylaxis, use of sick leave, and work restrictions; and Providing incentives to encourage immunization, such as coupons for the hospital cafeteria, gift certificates, etc. Offering flexible worksite vaccine delivery (e.g., at multiple locations and times, via mobile carts). increase the efficiency of reporting HCP immunization information internally, as for performance measurement and quality improvement initiatives, and to external groups, such as payors and public health agencies. Obtaining signed declinations for vaccine from HCP with non-medical reasons to decline vaccination. Monitoring and reporting vaccination rates (e.g., monitoring vaccine coverage by facility ward to identify areas with low coverage for targeted interventions to increase vaccination rates).

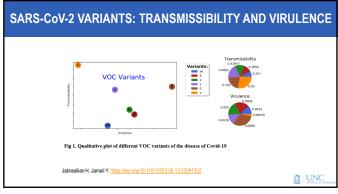
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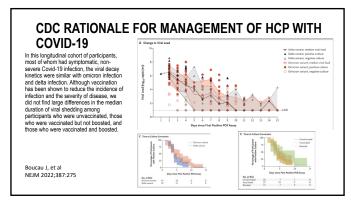


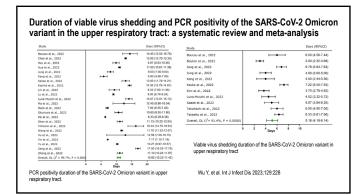


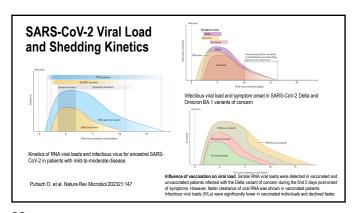












#### Interim Guidance for Managing HCP with SARS-CoV-2 Infection or Exposure to SARS-CoV-2, CDC, 9/23/22

- In general, asymptomatic HCP who have had a higher-risk exposure do not require work restriction, regardless of vaccination status, if they do not develop symptoms or test positive for SARS-CoV-2.
- Evaluating Healthcare Personnel with Symptoms of SARS-CoV-2 Infection
  - When testing a person with symptoms of COVID-19, negative results from at least one viral test indicate that the person most likely does not have an active SARS-CoV-2 infection at the time the sample was collected.
    - If using NAAT (molecular), a scure under control to the control to t
  - If using an antigen test, a negative result should be confirmed by either a negative NAAT (molecular) or second negative antigen test taken 48 hours after the first negative test.
  - For HCP who were initially suspected of having COVID-19 but, following evaluation, another diagnosis is suspected
    or confirmed, return-to-work decisions should be based on their other suspected or confirmed diagnoses.

https://www.cdc.gov/coronavirus/2019-ncov/hcp/quidance-risk-assesment-hcp.html

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# Interim Guidance for Managing HCP with SARS-CoV-2 Infection or Exposure to SARS-CoV-2, CDC, 9/23/22

#### Return to Work Criteria for HCP with SARS-CoV-2 Infection

- The following are criteria to determine when HCP with SARS-CoV-2 infection could return to work and are influenced by severity of symptoms and
  presence of immunocompromising conditions. After returning to work, HCP should self-montor for symptoms and seek re-evaluation from concapitional health if symptoms recur or ones. In it symptoms recur? e.g., evolved these HCP should be restricted from work and follow
  recommended practices to prevent transmission to others (e.g., use of well-fitting source control) until they again meet the healthcare criteria below to
  return to work unites an attentative diagnosis identified.
- HCP who were asymptomatic throughout their infection and are not moderately to severely immunocompromised could return to work a following oriteria have been met: At least 7 days have passed since the date of their first positive wird lest if a negative viral test is obthous prior to returning to work (or 10 days \* lesting) is not performed or if a positive test at day 5-7).
- HCP with severe to critical illness who are not moderately to severely immunocompromised could return to work after the foliomet: (1) At least 10 days and up to 20 days have passed since symptoms first appeared, and (2) At least 24 hours have passed rever without the use of fever-deuticing medications, and (3) Symptoms (a), cough, shortness of breath) have improved.
- See CDC guidance for HCP with are moderately to severely immunocompromised. Use of a test-based strategy and consultation will disease specialist or other expert and an occupational health specialist is recommended to determine when these HCP may return to

"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 https://www.dc.gov/coronavirus/2019-ncov/hcg/guidance-risk-assesment-hcg.html

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#### Interim Guidance for Managing HCP with SARS-CoV-2 Infection or Exposure to SARS-CoV-2, CDC, 9/23/22

#### Return to Work Criteria for HCP Who Were Exposed to Individuals with Confirmed SARS-CoV-2 Infection

- For the purposes of this guidance, higher-risk exposures are classified as HCP who had prolonged1 close contact2 with a patient, visitor, or HCP with continmed SARS-CoV2 infection and: (1) HCP was not wearing a respirator (or if wearing a facemask, the person with SARS-CoV2 infection was not wearing a orbin mask or facemask); (2) HCP was not wearing eye protection if the person with SARS-CoV2 infection was not wearing a orbin mask or facemask; (3) HCP was not wearing all recommended PPE (i.e., gown, gloves, eye protection, nespirator) while present in the room for an aerosol-generating procedure.
- (i.e., gown, gloves, eye protection, respirator) while present in the room for an aerosol-generating procedure

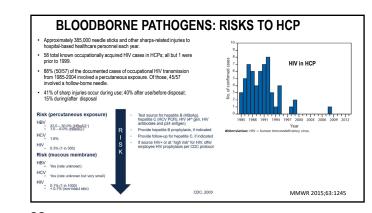
  Following a higher-risk exposure, HCP should: Have a series of three viral tests for SARS-CoV-2 infection. (1) Testing is recommended immediately found not earlier than 24 hours after the exposure) and, if negative, again 48 hours after the first negative test and, if negative, again 48 hours after the second negative test. This will typically be at day 1 (where day of exposure is day 0), day 3, and day 5, (2) 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 the prior 31-90 days, however, an antigen test instead of NART is recommended. This is because some people may remain NAAT positive but not be infectious during this period. In addition HCP should: (1) Follow all recommended infection prevention and control practices, including wearing well-fitting source control, monitoring themselves for fever or symptoms consistent with COVID-19, and not reporting to work when ill or it testing positive for SARS-CoV-2 infection. (2) Any HCP who develop fever or symptoms consistent with COVID-19 should immediately self-solide and contact their established point of contact (e.g., occupational health program) to arrange for medical evaluation and testing.

https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-risk-assesment-hcp.html

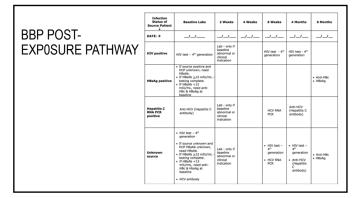


**BLOODBORNE PATHOGENS** HIV **HBV HCV** UNC

#### PREVENTING BLOODBORNE PATHOGEN EXPOSURES Methods of reducing percutaneous, mucous membrane, or nonintact skin exposure to blood or potentially infectious body fluids OSHA Bloodborne Pathogen Standard Series adherence to acaded presentions, including appropriate hand hygiene and use of PEE as indicated by the said keps gloose, gowns, masks, yet protection). Use of safety engineered devices (ep. needles, syringes, sadpeb). Use of double gloose during surgical procedures with an increased risk of glove purcture. Use of binated surgical needles, when possible. Use of binated surgical needles, when possible some procedures with a new possible some group of the procedure with a new possible some group of the procedure with an increased risk of glove purcture some group of the procedure with an increased risk of glove purcture some group of the procedure with an increased risk of glove purcture. Use of binated surgical needles, when possible some group of the procedure is not procedure and procedure in the procedure is not procedure. Note procedure to the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used sharp in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing used in the procedure is needless and appropriately discussing the procedure is needless and appropria Employers must establish a written exposure control plan and provide annual training · Mandates use of universal precautions (all body fluids assumed contaminated except sweat) Employers must utilize engineering and work practice controls to minimize/eliminate exposure Requires offering hepatitis B vaccine to persons with the potential for exposure Precautions should be taken to prevent sharps injuries during procedures and during cleaning and disinfection of instruments Mouthpieces, resuscitation bags, or other ventilation devices should be available whenever their need can be anticipated Testing of exposed employees for Hepatitis B and HIV their need can be anticipated HCP who have equalstive lesions or weeping dermatitis on exposed body areas (handw wrist, face/heck) must be excused from providing direct patient care or working patient cequipment (Ozorabional Safetya and teaths) Administration regulation). HCP unable to perform hand hygiene (eg., cat or nonemensuble splint) should be prohibited from providing patient care until able to perform hand hygiene. 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 ex Shenoy ES, Weber DJ. ID Clin N Am 2021 https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1030 disease status.



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HIV PEP Regimens V PEP Regimens
Tenofovir disoproxil fumarate (TDF)/emtricitabine (FTC)
(Truvada) 300/200 mg + dolutegravir (Tivicay) 50 mg – 1
tablet of each PO daily x 28 days **HIV PEP** Many providers prescribe tenofovir alafenamide (TAF)/FTC (Descovy) in place of TDF/FTC, and bictegravir Risk Assessment in place of dolutegravir. Bictegravir is available as a High Risk for HIV coformulation with TAF/FTC (bictegravir/TAF/FTC, Exposure of mucous membrane, Other regiments are available for known HIV-source patients with specific drug resistance but these cases percutaneous Source known are rare. Start within 72 hours Baseline HIV, 6 weeks, 12 weeks, 6 months (4th to be HIV+ generation test generation test
Inform HCP when prescribing PEP

possible drug toxicities

possible drug interactions, and

the need for adherence to PEP regimens

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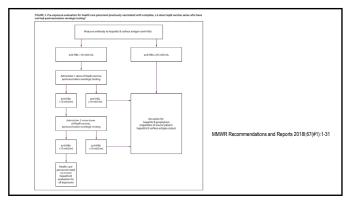


TABLE 5. Postesposure management of health care personnel after occupational percutaneous or mucosal exposure to blood or body fluids, by health care personnel Hep8 vaccination and response status.

Postesposure personnel Hep8 vaccination and response status.

Postesposure prophylaxis

Postesposure prophylaxis

Postesposure prophylaxis

No action needed

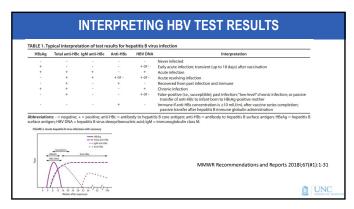
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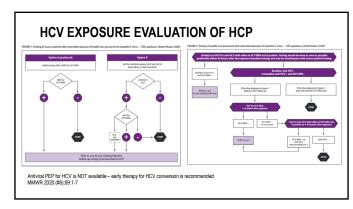
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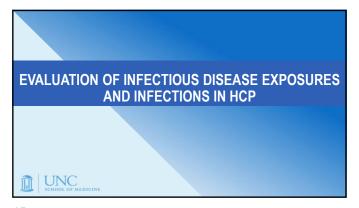
No action needed 

No ac

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#### **OHS HCP EXPOSURE MANAGEMENT**

Data Recorded on Exposures

- · Employee Data
- · Name, unit number, job description
- · Date, incident form completed
- · Employer, supervisor Source Data
- Name, unit number, location, infection(s)
- Exposure Data
- · Location, date, type & circumstances of exposure

#### Exposure Evaluation

- Determine if source case has infection and is infectious
- Determine transmission possible (i.e., appropriate exposure without protection)
- Determine if employee is susceptible (may require labs)
- Determine if prophylaxis available & indicated
- Consider alternative prophylaxis (if available) if employee has contraindications to prophylaxis of first choice
- Arrange follow-up

#### Employee Counseling

- Information to be provided to HCP who are exposed to an infectious agent: Recommended follow-up; Risk (if known) of transmitting the infection to patients, other personnel, or other contacts; Methods of preventing the transmission of infection to other persons
- Information to be provided to HCP who are offered prophylaxis: Alternative means of prophylaxis; Risk (if known) of infection if treatment not accepted; Degree of protection provided by therapy; Potential side effects of therapy

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## **POST-EXPOSURE PROPHYLAXIS**

- Anthrax
- Diphtheria
- Hepatitis A · Hepatitis B
- Human bite wound
- Influenza A (novel, H5N1)
- Influenza B Measles
- · Meningococcal infection
- · Monkey bite

- Mpox
- · Pertussis (whooping cough)
- Plague
- Rabies · Rat bite (rodent bite)
- Smallpox
- Syphilis
- Tuberculosis (TB) Tularemia
- Varicella (chickennox)
- · Zoster (shingles)

#### DIPHTHERIA, CDC, 10/3/22

- Background: Healthcare-associated transmission of diphtheria has been reported, although diphtheria is uncommon in the United States. Diphtheria remains endemtic in many parts of the developing world, and ongoing circulation of toxigenic Corynebacterium diphtheriae) estimates has been reported in North America. HCP are not at substantially higher risk than the general adult population for acquiring diphtheria; however, there is the potential for sporadic or imported cases to require medical care in the US. Some cases in the US have been related to importation.

  Occupational exposures: "Transmission of diphtheria has been reported, although diphtheria is uncommon in the United States."
- Occupational exposures: Transmission of diphthenia occurs through the deposition of respiratory, oral, or nasal secretions, discharge from skin lesions, or, rarely, fomites from an infected source person on the mucus membranes of a susceptible host. Unprotected (e.g., not wearing a facemask), close, face-to-face contact with an infectious source person or their exerctions may be considered an exposure to orbithenia. Close contact may include, but is not limited to, performing a physical examination on, feeding, or betting a patient bronchoscopy; inlubation; or administration of bronchodilators. Exposure to cutaneous diphthenia lesions may include unprotected contact with the lesions or their drainage, such as when changing lesion dressings or handling potentially infectious secretions without wearing recommended personal protective equipment (PPE) (i.e., gown and gloves).
- Clinical features: Diphtheria is an acute, toxin-mediated disease caused by C. diphtheriae. Initial symptoms of respiratory diphtheria include sore throat, difficulty in swallowing, malaise, and low-grade fever. The halfmark of respiratory diphtheria is the presence of an exudate that organizes into a tough, grayish-white pseudomembrane over the tonsils, the pharynx, or larynx. The pseudomembrane is firmly adherent to the tissue, and foroible attempts to remove it causes bleeding. Cutaneous diphtheria may be characterized by a scaling rash or by ulcers with clearly demarcated edges.
- Treatment for diphtheria is begun at the first sign(s) of clinical illness.
- Prep (Yes; Tdap); PEP (Yes; IM benzathine penicillin G x 1 OR 7-10 days of PO erythromycin see CDC guidelines)

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



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#### DIPHTHERIA: RECOMMENDATIONS, CDC, 10/3/22

- For healthcare personnel who have an exposure to diphtheria, regardless of vaccination status: 1) Administer postexposure prophylaxis in accordance with CDC recommendations. 2) Exclude from work and obtain nasal and pharyngeal swabs for diphtheria culture.
- accordance with CUL-recommendations, 2 sections from work and obtain hasal and pranyingial swales for diprimenta culture.

  If inasal AND pharyngeal cultures are negative for toxin-producing C. diphtheriae, HCP may return to work while compelling postsxposure antibiotic therapy.

  If masal CR pharyngeal cultures are positive for toxin-producing C. diphtheriae: 1) Complete postsxposure antibiotic therapy, 2) HCP may return to work when: (a) Postsxposure antibiotic therapy is completed AND (b) At least 24hrs after completion of postsxposure antibiotic therapy, 2 consecutive pairs of nesal AND pharyngeal cultures, obtained at least 24hrs apart, are negative for toxin-producing C. diphtheriae.
- Implement daily monitoring for the development of signs and symptoms of diphtheria for 7 days after the last exposure
- For healthcare personnel with respiratory diphtheria infection, exclude from work until: 1) Antibiotic and antitoxin (if needed) therapy are completed AND 2) At least 24 hours after completed of antibiotic therapy, two consecutive pairs of nasal AND pharyngeal cultures, obtained at least 24 hours apart, are negative for toxin-producing C. diphtheriae.
- For healthcare personnel with outaneous diphtheria infection or other diphtheria infection manifestations, determine the duration of exclusion from work in consultation with federal, state, and local public health authorities.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



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#### GROUP A STREPTOCCUS: RECOMMENDATIONS, CDC, 10/3/22

- Postexposure prophylaxis and work restrictions are not necessary for HCP who have an exposure to group A Streptococcus.
- For HCP with known or suspected group A Streptococcus infection, obtain a sample from the infected site, if possible, for group A Streptococcus and exclude from work until group A Streptococcus infection is ruled out, or until 24 hours after the start of effective antimicrobial therapy, provided that any draining skin lesions can be adequately contained and covered.
- For draining skin lesions that cannot be adequately contained or covered (e.g., on the face, neck, hands, wrists), exclude from work until the lesions are no longer draining.
- Work restrictions are not necessary for healthcare personnel with known or suspected group A Streptococcus colonization. unless they are epidemiologically linked to transmission of the organism in the healthcare setting
- · For healthcare personnel with group A Streptococcus colonization who are epidemiologically linked to transmission of the
- organism in the healthcare setting:
- Administer chemoprophylaxis in accordance with CDC recommendations AND
   Exclude from work until 24 hours after the start of effective antimicrobial therapy AND
- Obtain a sample from the affected site for group A Streptococcus testing 7 to 10 days after completion of chemoprophylaxis; if positive, repeat administration of chemoprophylaxis and again exclude from work until 24 hours after the start of effective antimicrobial therapy.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



#### **GROUP A STREPTOCCUS (GAS), CDC, 10/3/22**

- Background: GAS is a bacterium that can cause many different infections, including strep throat, scarlet fever, impetigo, and others. A common cause of pharyngeal, skin, and other soft itssue infections, GAS can also cause severe, life-threatening invasive disease, including pneumonia, streptococcal toxic-shock syndrome (STSS) and necrotizing fasciitis. Healthcare-associated transmission of GAS has been documented from patients-to-HCP and from HCP-to-patients.
- OAS has been occumented from patients-for-ful? and from ful.-ro-opatients.

  Occupational exposures: HCP who were GAS carries have been linked to outbreaks of surgical site, postpartum, and burn wound infections. In these outbreaks, GAS carriage was documented in the phayrox, the skin, the rectum, and the female gential tract of the colonized personnel. Transmission from patients to HCP has been described, with potential contributing factors including gross contamination of surgical attire during extensive wound debridement, presence of dermatitis, not using gloves when providing wound care, and sharps injury, Although rear, spread of GAS infections may also occur via food. Foodborne outbreaks of phayrigitis have occurred due to improper food handling, and HCP have been linked to foodborne transmission of GAS, causing phayrigitis
- Clinical features: GAS infections can have a wide variety of clinical presentations including pharyngitis; superficial (e.g., impetigo) and invasive (e.g., cellulitis, abscesses) skin and soft tissue infection; and invasive infections (e.g., pneumonia, meningitis, fascilitis).
- Prep (None); PEP (may be indicated). Although PEP is not routinely administered after HCP exposure to GAS, if clinical symptoms compatible with GAS infection develop, GAS infection may be the underlying etiology and testing and treatment may be indicated.
- Outbreaks: Even one case of postpartum or postsurgical GAS infection typically prompts an epidemiological investigation because of the potential for prevention of additional cases (see CDC for details)

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf





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#### MENIGOCOCCAL DISEASE, CDC, 10/3/22

- Background: Healthcare-associated transmission of Neisseria meningitidis is uncommon. In rare instances, N. meningitidis has been transmitted from patients-to-HCP through contact with the respiratory secretions of patients with meningococcal disease and handling
- Occupational health exposures: N. meningilidis can be transmitted person-to-person through unprotected direct contact with the respiratory secretions or salwa of a person with clinical disease, such as meningits or bacheremia. Exposures in healthcare may include mucous membrane contact with infectious secretions from close, face-to-face contact during activities such as mouth-to-mouth resuscitation, endotracheal tube placement or management, or open airway suctioning while not wearing or correctly using recommended personal protective equipment (PPE). Brief, non-face-to-face contact, such as standing in the doorway of a patient's room, cleaning a patient's room, delivering a medication or food tray, starting an IV, or performing a routine physical exam, is generally not considered an exposure.
- Clinical features: Meningococcal disease is a serious and potentially life-threatening infection. Common signs and symptoms ofmeningococcal disease include sudden onset of high fever, neck stiffness, confusion, nausea, vomiting, lethargy, and petechial or
- Prep (certain lab workers); PEP (Yes). Chemoprophylaxis is administered as soon as possible after exposure, ideally less than 24 hours after identification of an index patient. Chemoprophylaxis administered more than 14 days after onset of iliness in an index patient is probably of limited or no value. Rdfampin, cinofloxacin, and certainzone are 90%-95% effective in reducing nasopharyngeal carriage of N. meningitidis and are all acceptable antimicrobial agents for chemoprophylaxis (See CDC for details of PEP).

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



# MENIGOCOCCAL DISEASE: RECOMMENDATIONS, CDC, 10/3/22

- Administer antimicrobial prophylaxis to healthcare personnel, regardless of vaccination status, who have an exposure to N. meningitidis.
- Exclude healthcare personnel with invasive N. meningitidis disease from work until 24 hours after the start of effective antimicrobial therapy.
- Work restrictions are not necessary for HCP who only have nasopharyngeal carriage of N. meningitidis.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



#### **PERTUSSIS, CDC, 10/3/22**

- Background: Healthcare-associated transmission of Bordetella pertussis has involved both patients and HCP; nonimmunized infants and children are at greatest risk for severe morbibily and mortality. Serlogic studies of HCP suggest that they may be infected with pertussis much more frequently than indicated by attack rates of clinical disease.
- Occupational exposures: During pertussis outbreaks in healthcare settings, the risk for HCP contracting pertussis is often difficult to oquantify because exposure is not well-defined. Transmission of 8 perfussis occurs through deposition of respiratory, order union uncertainties exempted and perfussis occurs through deposition of respiratory, order union uncertainties secretions from an infected source person on the microscours from membranes of a suspectified host. Unprotected (e.g., not weeking a facemask), close, face-to-face contact with an infectious source person or contact with their secretions may be considered an exposure to perfussis. Close contact may include, but is not limited to, performing a physical examination on, feeding, or bathing a patient; bronchoscopy, inhubation; or administration of bronchoscopy, inhubation; or administration of broncholiators.
- Clinical Features: Pertussis is highly contagious; secondary attack rates exceed 80% in susceptible household contacts. The incubation period is usually 5 to 10 days, but symptoms may develop up to 3 weeks after exposure. The clinical course of pertussis infection has 3 stages: catalmat (12-veeks), percoyangal (next 15 weeks), and convalescent (~23 weeks), HOP at increased risk for complications include: 1) Persons in their third timester of pregnancy; 2) persons with pre-existing health conditions that may be exacerbated by a pertussis infection (e.g., immunocompromised persons, persons with moderate to severe asthma).
- Prep (Yes, Tdap); PEP (Yes, antibiotics even if up to date with immunizations). The preferred agents for PEP are azithromycin, erythromycin, and clarithromycin. Immethorm-sulfamethoxazole (TMP-SMZ) may also be used as an alternative agent. See CDC for additional details regarding PEP or therapy.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



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#### PERTUSSIS RECEMMENDATIONS, CDC, 10/3/22

- For asymptomatic HCP, regardless of vaccination status, who have an exposure to pertussis and are likely to interact with persons at increased risk for severe pertussis:

  - If not receiving postexposure prophylaxis, restrict from contact (e.g., furlough, duty restriction, or reassignment) with patients and other persons at increased risk for severe pertussis for 21 days after the last exposure.
- For asymptomatic HCP, regardless of vaccination status, who have an exposure to pertussis and are not likely to interact with persons at increased risk for severe pertussis:
- Implement daily monitoring for 21 days after the last exposure for development of signs and symptoms of pertussis For asymptomatic HCP, regardless of vaccination status, who have an exposure to pertussis and who have preexisting health conditions that may be exacerbated by a pertussis infection:
   Administer postexposure prophylaxis.
- Exclude symptomatic healthcare personnel with known or suspected pertussis from work for 21 days from the onset of cough, or until 5 days after the start of effective antimicrobial therapy.
- Work restrictions are not necessary for asymptomatic healthcare personnel who have an exposure to pertussis and receive postexposure prophylaxis, regardless of their risk for interaction with persons at increased risk for severe pertussis.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



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#### **RABIES, CDC, 10/3/22**

- Background: Healthcare-associated transmission of rabies virus has been documented between patients, although occupational transmission to HCP as not been confirmed. T Person to person transmission of rabies is rare and has been reported almost exclusively via comea, tissue, and organ transplantation.
- Occupational exposures: Rabies virus is transmitted through direct contact (e.g., through broken skin or mucous membranes in the eyes, nose, or mouth) with saliva, tears and lacrimal secretions, or brain/nervous system tissue from an infected animal or person. An nealthcare setting could include being bitten by a potentially infectious patient, or having a patient's salio on's eyes, mouth, or an open cut on the skin. Casual contact, such as touching a person with rabies or contact with non-infectious fluid or tissue (e.g., urine, blood, feces), is not associated with a risk for infection. Rabies virus is not transmitted through contaminated objects or materials such as clothes or bedding.
- Clinical features: Rabies onset is characterized by a non-specific prodrome that could be mistaken for other diseases. As the disease progresses, the person may experience delirium, abnormal behavior, hallucinations, hydrophobia (fear of water), dysphagia, and insomnia. Occasionally, rabies may present as a paralytic syndrome. The acute period of disease typically ends after 2 to 10 days. Once clinical signs of rabies appear, the disease is nearly always fetal, and treatment is typically supportive. In humans, the incubation period averages 1 to 3 months but ranges from days to years.
- Prep (Yes: lab workers with potential exposure to rabies virus): PEP (Yes: vaccine plus RIG)
- Prevention: Use Standard Precautions, that may include a gown, gloves, eye protection and a facemask, for patients with suspected
  or confirmed clinical infection, to prevent contact with potentially infectious body fluids and secretions

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



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#### RABIES RECOMMENDATIONS, CDC, 10/3/22

- For HCP who have an exposure to rabies virus, administer postexposure prophylaxis in accordance with CDC and ACIP recommendations and in consultation with federal, state, and local public health authorities.
- · Work restrictions are not necessary for asymptomatic HCP who have an exposure to rabies virus.
- · For HCP who have a suspected or confirmed rabies virus infection, exclude from work in consultation with federal, state, and local public health authorities.

https://www.cdc.gov/infectioncontrol/pdf/guidelines/IC-Guidelines-HCP-H.pdf



#### MEASLES, CDC, 2008 & 2011\*

- Background: Measles is a highly contagious rash illness that is transmitted by respiratory droplets and airborne spread. Severe
  complications, which might result in death, include pneumonia and encephalitis. Measles vaccine coverage has decreased in recent
  years, thus outbreaks are increasingly likely.
- Occupational exposures: Medical settings have played a prominent role in perpetuating outbreaks of measles transmission. Because of the greater opportunity for exposure, HCP are at higher risk than the general population for becoming infected with measless. Measless may persist in the air and remain infective for up to 2 hours after an infected petient has left the room.
- Clinical features: Measles is an acute viral respiratory illness. It is characterized by a proformer of fever (as high as 105°F) and malaise, cough, coryza, and conjunctivitis -the three 'C's -, a pathognomonic enanthema (Koplik spots) followed by a maculopapular rash. The rash usually appears about 14 days after a person is exposed. The rash spreads from the head to the trunk to the lower extramities.
- · Prep (Yes; MMR); PEP (Yes, MMR and/or lg)

Bolyard EA, IP for HCP, 1998 - file:///C:/Users/dv per/Downloads/cdc\_11563\_DS1-1.pdf; Vaccines for HCP, MMWR https://www.cdc.gov/r

sed recommendations expected in 2023 or 2024

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#### **MEASLES RECOMMENDATIONS, CDC, 2008 & 2011\***

- MMR vaccine is highly effective in preventing measles with a 1-dose vaccine effectiveness of 95% when administered on or after age 12 months and a 2-dose vaccine effectiveness of 99%.
- Active infection: Exclude from duty; until 7 days after the rash appears
- Postexposure (susceptible HCP): Exclude from duty; from 5th day after 1st exposure personnel) through 21st day after last exposure and/or 4 days after rash appears. Provide 1st dose of MMR.
- Postexposure (HCP who received 1 dose of MMR): Those with documentation of 1 vaccine dose may remain at work and should receive the 2<sup>nd</sup> dose.
- Presumptive evidence of immunity: 1) written documentation of vaccination with 2 doses of live measles or MMR vaccine administered at least 28 days apart; 2) laboratory evidence of immunity, laboratory confirmation of disease, or birth before 1957; For HCP with documented immunization, seriological testing to demonstrate immunity is not recommended.
- Because of the possibility, albeit low (~1%), of measles vaccine failure in HCP exposed to infected patients, all HCP should observe airborne precautions in caring for patients with measles.

† The first dose of measles-containing vaccine should be administered on or after the first brittday, the second dose should be administered no earlier than 26 days after the first dose. § Measles immunoglobulin (g/g) in the serum; equinocal results should be considered negative. § The najority of persons born before 1957 and lightly to less been interfaced instantly and may be presumed immunous, depending on carrest state or local requirements. HCP should be assessed sendogically for immunity or considered the 20 set of MMR (provide 2 doses of MMR on otherwise setting).

Sequent EA, IP For IP 1996 — Bird Characterisett for advanced 1150. ICS1 and Nections for HCP. MMMR https://www.ccc.gov/mmar/preview/immunitmi007a1.htm
\*Revised recommendations expected in 2023 or 2024.



#### MUMPS, CDC, 2008 & 2011\*

- Background: The spectrum of illness ranges from subclinical infection (20%-40%) to nonspecific respiratory illness, sialadenitis
  including classic parolitis, deafness, orchitis, and meningoencephalitis; severity increases with age.
- Occupational exposures: Although health-care—associated transmission of mumps is infrequent, it might be underreported because of the high percentage (~20%–40%) of infected persons who might be asymptomatic
- Clinical features: Nonspecific prodormal symptoms may precede paroitis by several days, including low-grade fever which may last 3 to 4 days, myalgia, anorexia, malaise, and headache. Mumps usually involves pain, tendemess, and swelling in one or both paroid salivary glands (cheek and jaw area). Swelling will by usually peas in 1 to 3 days and then subsides during the next week. The swellen issue pushes the angle of the ear up and out. As swelling worsens, the angle of the jawbone below the ear is no longer wishle. Other, the jawbone cannot be felt because of swelling of the paroid. One paroid may swell before the other, and in 25% of patients, only one side swells. Other salivary glands (submandibular and sublingual) under the floor of the mouth also may swell but do so less frequently (10%).
- Prep (Yes, MMR); PEP (No)

Bolyard EA, IP for HCP, 1998 - file:///C:/Users/dweber/Downloads/cdc\_11563\_DS1-1.pdf; Vaccines for HCP, MMWR; ttps://www.cdc.gov/mmwr/prev \*Revised recommendations expected in 2023 or 2024



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#### MUMPS RECOMMENDATIONS, CDC, 2008 & 2011\*

- MMR vaccine has a 1-dose vaccine effectiveness in preventing mumps of 80%–85% (range: 75%–91%) (175,196–199) and a 2-dose vaccine effectiveness of 79%–95%. However, immunity wanes with times (a 3<sup>rd</sup> dose may be indicated during outbreaks)
- · Active infection: Exclude from duty; until 9 days after onset of parotitis
- Postexposure (susceptible HCP): Exclude from duty from 12<sup>th</sup> day after 1<sup>st</sup> exposure through 26th day after last exposure or until 9 days after onset of parotitis. Provide 1<sup>st</sup> dose of MMR.
- Postexposure (HCP who received 1 dose of MMR): HCP with documentation of 1 vaccine dose may remain at work and should receive the second dose. HCP with mumps should be excluded from work for 5 days from the onset of paro
- Consider a 3rd dose of MMR in a mumps outbreak after consultation with local public health.
- Presumptive evidence of immunity: 1) written documentation of vaccination with 2 doses of live mumps or MMR vaccine administered at least 2 days apart,"; 2) laboratory evidence of immunity, if; aboratory confirmation of diseases, or birth before 1957. §F or HCP with documented immunization, servlogical testing to demonstrate immunity is not recommended.

"The first dose of mumps-containing veccine should be administered on or after the first birthday, the second dose should be administered no serlier than 28 days after the first dose; I harries immunoplobility (§5) in the servine, requirect results should be considered inegative; §5) the region of persons born before 1957 are likely to have been clinically recognized immunoplobilities. The Post of the 1954 are likely to have been clinically recognized immunoplobilities. The Post of the 1954 are fiscallities should consider vaccinating personal with 2 doses of MIRIK; for unacconated personal born before 1957 who lack libborative private or fiscallities are fiscallities should consider vaccinating personal with 2 doses of MIRIK; for unacconated personal born before 1957 who lack libb evidence of mumps immunity or laboratory confirmation of dessees, health-care facilities should consoned 2 doses of MIRIK veccine during an outbreak of mumps.

Bolyard EA, Pfor HCP, 1995—1891/Chitesschweber/Downicativotic, 11550, [351-1] pot Vaccines for HCP, MANCH; but the production of the produc



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#### RUBELLA, CDC, 2008 & 2011\*

- Background: Rubella (German measles) is a viral disease characterized by rash, low-grade fever, lymphadenopathy, and
  malaise. Although rubella is considered a benign disease, transient arthraligia and arthritis are observed commonly in infected
  adults, particularly among postpubertal females. Chronic arthritis has been reported after rubella infection, but such reports are
  rare. Of primary concern are the effects that rubela can have when a pregnant woman becomes infected, especially during the first trimester, which can result in miscarriages, stillbirths, therapeutic abortions, and congenital rubella syndrome (CRS)
- Occupational exposures: No documented transmission of rubella to HCP or other hospital staff or patients in U.S. health-care facilities has occurred since elimination was declared. However, in the decades before elimination, rubella transmission was documented in at least 10 U.S. medical settings
- Clinical features: Rubella is a viral iliness that can lead to complications and death. It is characterized by a mild, maculopapular rash along with lymphadenopathy, and a slight fever. The rash usually starts on the face, becomes generalized within 24 hours, and lasts a median of 3 days; it occurs in 50% to 80% of infected people. Lymphadenopathy, which may precede rash, often involves posterior auricular or suboccipital lymph nodes, can be generalized, and lasts between 5 and 6 days. About 25% to 50% of infections are asymptomatic. Clinical diagnosis of rubella virus is unreliable and should not be considered in assessing immune status. Up to half of all infections may be subclinical or unapparent. Many rubella infections are not recognized because the rash resembles many other rash illnesses.
- · Prep (Yes, MMR); PEP (No)

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Bolyard EA, IP for HCP, 1998 – file:///C:/Users/dweber/Downloads/cdc\_11563\_DS1-1.pdf; Vaccines for HCP, MMWR; ttos://www.cdc.cov/mmwr/oreview/mmwrhtml/rr6007a1.htm. "Revised recommendations expected in 2023 or 2024



### RUBELLA RECOMMENDATIONS, CDC, 2008 & 2011\*

- Antibody responses to rubella as part of MMR vaccine are equal (i.e., >99%) to those seen after the single-antigen RA 27/3 rubella vaccine.
- · Active infection: Exclude from duty; until 5 days after rash appears
- Postexposure (susceptible HCP): Exclude from duty from 7th day after 1st exposure through 21st day after last exposure
- For HCP who have 1 documented dose of MMR vaccine or other acceptable evidence of immunity to nubella, serologic testing for immunity is not recommended. In the event that a health-care provider who has at least 1 documented dose of nubella-containing vaccine is tested serologically and determined to have negative or equivocal rubella litter results, receipt of an additional dose of MMR vaccine for prevention of rubella is not recommended. Such persons should be considered immune to rubella
- Presumptive evidence of immunity to rubella for persons who work in health-care facilities includes any of the following: 1) written documentation of vaccination with 1 dose of live rubella or MIMR vaccine; lab evidence of immunity<sup>MC</sup>, 2) lab confirmation of nabella infection or disease, or, 3) birth before 1957\*\*\* (except women of childbearing potential who could become pregnant, although pregnancy in this age group would be exceedingly rare!\*\*).

Rubels immunogibilin (IgG) in the serum, equivocal results should be considered negative. "" Depending on current state or local requirements, for unwacrinated personnel born before 1957 who lax laboratory evidence or funde immunity or laboratory confirmation of infection or disease, better care facilities should consider vacciniting personnel to the confirmation of the confirmation



#### VARICELLA/ZOSTER, CDC, 2008 & 2011\*

- Background: Varicella is a highly infectious disease caused by primary infection with varicella-zoster virus (VZV). VZV is transmitted backgrount, variations is a riighty inecucious season classes of eareods from vessicular fluid of six in instruction and in the contract of the contract of eareods from vessicular fluid of six in lesions of varieties to rhippes coster (HZ), a localized, generally justified vessicular roshiguious or estimates 11-gais, or inflected personal reconstitution of the proper coster (HZ), a contract of the contract of t
- Occupational exposures: Although relatively rare in the United States since introduction of varicella vaccine, nosocomial transmission of VZV is well recognized and can be life-threatening to certain patients. Sources of nosocomial exposure that have resulted in transmission include patients, HCP, and visitors with either varicella or HZ. Both locatized and disseminated HZ in immunocompetent as well as immunocompromised patients have been identified as sources of nosocomial transmission of VZV. Locatized HZ has been demonstrated to be much tess infectious than varicella; disseminated HZ is considered to be as infectious as varicellar.
- Clinical features: The average incubation period for varicella is 14 to 16 days after exposure to a varicella or a herpes zoster rash, with a range of 10 to 2 days. Amilt produme of fever and malaise may occur 1 to 2 days before rash onset, periodusly in adults. In children, the rash is often the first sign of diseases. Breakflirough varicellas is usually mit. Patients typically are albeits or have low fever and develop fewer than 05 skin lessions. They usually have a shorter liness compared to unvaccinated people who get varicella. The rash is more likely to be predominarily meaculopspular rather than vesticular.

Vaccines for HCP, MMWR; ttps://www.cdc.gov/mmwr/preview/mmwrhtml/rr6007a1.htm. "Revised recommendations expected in 2023 or 2024



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#### VARICELLA/ZOSTER RECOMMENDATIONS, CDC, 2008 & 2011\*

- · Active infection: Exclude from duty until lesions dried and crusted
- Postexposure (susceptible HCP): Exclude from duty from 10th day after 1st exposure through 21st day (28th day if VZIG given) after last exposure
- Prep (Yes, varicella vaccine); PEP (for high-risk HCP VZIG; antiviral therapy may also be used, not FDA approved, see Red Book) Zoster
- Active infection (localized, in healthy HCP): Cover lesions; restrict from care of high-risk patients until lesions are dried and crusted.
- · Active infection (generalized or localized in immunocompromised HCP): Restrict from patient contact until all lesions dry and crusted.
- Postexposure (susceptible HCP): Exclude from duty from 10<sup>th</sup> day after 1<sup>st</sup> exposure through 21<sup>st</sup> day (28<sup>th</sup> day if VZIG given) after last exposure.

Presumptive immunity: Written documentation of vaccination with 2 doses of varicella vaccine; lab evidence of immunity<sup>585</sup> or lab confirmation of disease; diagnosis or verification of a history of varicella disease by HCP, <sup>595</sup> or diagnosis or verification of a history of HZ

M Commercial assays can be used to assess disease-induced immunity, but they often lack sensitivity to detect vaccine-induced immunity (i.e., they might yield false-negative results); M Verification of history or diagnosis of typical disease can be provided by any health-care provided by Boyard EA, IP of NCP, 1998 – IBE/IC/Jusers/deber/Dorniodastods (1158) SST-1.pdf, "Revised recommendations expected in 2023 or 2024.

#### **ZOSTER RECOMMENDATIONS, CDC, 2008\***

- · Active infection (localized, in healthy HCP): Cover lesions; restrict from care of high-risk patients until lesions are dried
- · Active infection (generalized or localized in immunocompromised HCP): Restrict from patient contact until all lesions dry and crusted.
- Postexposure (susceptible HCP): Exclude from duty from 10th day after 1st exposure through 21st day (28th day if VZIG given) after last exposure.

Bolvard EA. IP for HCP, 1998 - file:///C:/Users/dweber/Downloads/cdc 11563 DS1-1.odf dations expected in 2023 or 2024



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#### **MISCELLANEOUS DISEASES, CDC, 2008\***

- Conjunctivitis: Restrict from patient contact and contact with the patient's environment until discharge ceases
- · Diarrheal diseases:
  - Active stage (diarrhea with other symptoms): Restrict from patient contact, contact with the patient's environment, or food handling until symptoms resolved
  - Convalescent stage (Salmonella spp.): Restrict from care of high-risk patients until symptoms resolve; consult with local and state health authorities regarding need for negative stool cultures
- Enteroviral infections: Restrict from care of infants, neonates, and immunocompromised patients and their environments until symptoms resolved
- Hepatitis A: Restrict from patient contact, contact with patient's environment, and food handling until 7 days after onset of jaundice
- Herpes simplex: Hands (herpetic whitlow): Restrict from patient contact and contact with the patient's environment until lesions heal-orofacial: Evaluate for need to restrict from care of high-risk patients
- Pediculosis: Restrict from patient contact until treated and observed to be free of adult and immature lice
- . Scabies: Restrict from patient contact until cleared by medical evaluation
- Staphylococcus aureus infection (active draining skin lesions): Restrict from contact with patients and patient's environment or food handling until lesions have resolved
- . No restrictions: CMV, genital Herpes simplex, S. aureus carrier state (unless linked to transmission)

Bolyard EA, IP for HCP, 1998 - file:///C:/Users/dweber/Downloads/cdc\_11563\_DS1-1.pdf; "Revised recommendations expected in 2023 or 2024



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## MANAGEMENT OF THE HBV, HCV OR HIV **INFECTED HEALTHCARE PROVIDER △** SHEA SHEA White Paper Management of healthcare personnel living with hepatitis B, hepatitis C, or human immunodeficiency virus in US healthcare institutions David K. Henderson MD<sup>1</sup>, Louise-Marie Dembry MD, MS, MBA<sup>2</sup>, Costi D. Sifri MD<sup>3,4</sup> , Tara N. Palmore MD<sup>5</sup>, E. Patchen Dellinger MD, Professor Emeritus<sup>6</sup> ©, Deborah S. Yokoe MD, MPH<sup>7</sup>, Christine Grady PhD<sup>8</sup> ©, Theo Heller MD<sup>9</sup>, David Weber MD, MPH<sup>10,11,12,13</sup>, Carlos del Rio MD<sup>14,15,16</sup> ©, Neil O. Fishman MD<sup>17,18</sup>, Valerie M. Deloney MBA<sup>19</sup> ©, Tammy Lundstrom MD, JD20 and Hilary M. Babcock MD, MPH21 0 UNC

#### **CONCLUSIONS**

- A robust occupational health program is critical to the safety and well being of HCP.
- Key activities of OHS include:
  - Initial evaluation of new HCP (vaccine preventable disease evaluation for immunizations, evaluation for latent or active TB, fit test if appropriate, counseling if desired for pregnancy or immune compromise)
     Evaluation of HCP following a communicable disease exposure: Assessment of need for furlough and post-exposure prophylaxis.

  - Return to work assessments for selected patient following a communicable disea
- Communication and cooperation between OHS and Infection Prevention important to protect HCP, patients

