OSHA® FactSheet

OSHA's Bloodborne Pathogens Standard

Bloodborne pathogens are infectious microorganisms present in blood that can cause disease in humans. These pathogens include, but are not limited to, hepatitis B virus (HBV), hepatitis C virus (HCV), and human immunodeficiency virus (HIV), the virus that causes AIDS. Workers exposed to bloodborne pathogens are at risk for serious or life-threatening illnesses.

Protections Provided by OSHA's Bloodborne Pathogens Standard

All of the requirements of OSHA's Bloodborne Pathogens standard can be found in Title 29 of the Code of Federal Regulations at 29 CFR 1910.1030. The standard's requirements state what employers must do to protect workers who are occupationally exposed to blood or other potentially infectious materials (OPIM), as defined in the standard. That is, the standard protects workers who can reasonably be anticipated to come into contact with blood or OPIM as a result of doing their job duties.

In general, the standard requires employers to:

- Establish an exposure control plan. This is a written plan to eliminate or minimize occupational exposures. The employer must prepare an exposure determination that contains a list of job classifications in which all workers have occupational exposure and a list of job classifications in which some workers have occupational exposure, along with a list of the tasks and procedures performed by those workers that result in their exposure.
- Employers must update the plan annually to reflect changes in tasks, procedures, and positions that affect occupational exposure, and also technological changes that eliminate or reduce occupational exposure. In addition, employers must annually document in the plan that they have considered and begun using appropriate, commercially-available effective safer medical devices designed to eliminate or minimize occupational exposure. Employers must also document that they have solicited input from frontline workers in identifying, evaluating, and selecting effective engineering and work practice controls.

- Implement the use of universal precautions (treating all human blood and OPIM as if known to be infectious for bloodborne pathogens).
- Identify and use engineering controls. These are devices that isolate or remove the bloodborne pathogens hazard from the workplace. They include sharps disposal containers, selfsheathing needles, and safer medical devices, such as sharps with engineered sharps-injury protection and needleless systems.
- Identify and ensure the use of work practice controls. These are practices that reduce the possibility of exposure by changing the way a task is performed, such as appropriate practices for handling and disposing of contaminated sharps, handling specimens, handling laundry, and cleaning contaminated surfaces and items.
- Provide personal protective equipment (PPE), such as gloves, gowns, eye protection, and masks. Employers must clean, repair, and replace this equipment as needed. Provision, maintenance, repair and replacement are at no cost to the worker.
- Make available hepatitis B vaccinations to all workers with occupational exposure. This vaccination must be offered after the worker has received the required bloodborne pathogens training and within 10 days of initial assignment to a job with occupational exposure.
- Make available post-exposure evaluation and follow-up to any occupationally exposed worker who experiences an exposure incident. An exposure incident is a specific eye, mouth, other mucous membrane, non-intact skin, or parenteral contact with blood or OPIM. This evaluation and follow-up must be at no cost to the worker and includes documenting the route(s) of exposure and the circumstances

under which the exposure incident occurred; identifying and testing the source individual for HBV and HIV infectivity, if the source individual consents or the law does not require consent; collecting and testing the exposed worker's blood, if the worker consents; offering postexposure prophylaxis; offering counseling; and evaluating reported illnesses. The healthcare professional will provide a limited written opinion to the employer and all diagnoses must remain confidential.

- Use labels and signs to communicate hazards. Warning labels must be affixed to containers of regulated waste; containers of contaminated reusable sharps; refrigerators and freezers containing blood or OPIM; other containers used to store, transport, or ship blood or OPIM; contaminated equipment that is being shipped or serviced; and bags or containers of contaminated laundry, except as provided in the standard. Facilities may use red bags or red containers instead of labels. In HIV and HBV research laboratories and production facilities, signs must be posted at all access doors when OPIM or infected animals are present in the work area or containment module.
- **Provide information and training to workers.** Employers must ensure that their workers receive regular training that covers all elements of the standard including, but not limited to: information on bloodborne pathogens and diseases, methods used to control occupational

exposure, hepatitis B vaccine, and medical evaluation and post-exposure follow-up procedures. Employers must offer this training on initial assignment, at least annually thereafter, and when new or modified tasks or procedures affect a worker's occupational exposure. Also, HIV and HBV laboratory and production facility workers must receive specialized initial training, in addition to the training provided to all workers with occupational exposure. Workers must have the opportunity to ask the trainer questions. Also, training must be presented at an educational level and in a language that workers understand.

• Maintain worker medical and training records. The employer also must maintain a sharps injury log, unless it is exempt under Part 1904 --Recording and Reporting Occupational Injuries and Illnesses, in Title 29 of the Code of Federal Regulations.

Additional Information

For more information, go to OSHA's Bloodborne Pathogens and Needlestick Prevention Safety and Health Topics web page at: https://www.osha.gov/ SLTC/bloodbornepathogens/index.html.

To file a complaint by phone, report an emergency, or get OSHA advice, assistance, or products, contact your nearest OSHA office under the "U.S. Department of Labor" listing in your phone book, or call us toll-free at **(800) 321-OSHA (6742)**.

This is one in a series of informational fact sheets highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory-impaired individuals upon request. The voice phone is (202) 693-1999; the teletypewriter (TTY) number is (877) 889-5627.

For assistance, contact us. We can help. It's confidential.



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APPENDIX B TO §1910.1029—INDUSTRIAL HY-OIENE AND MEDICAL SURVEILLANCE GUIDE-LINES

1. INDUSTRIAL HYOIENE OUIDELINES

A. Sampling (Benzene-Soluble Fraction Total Particulats Matter).

Samplee ccileotad ehould be full shift (at least 7-hour) ramples. Sampling should be doae using a personal sampling pump with pulsation dampor at a flow rata of 2 liters por minnte. Samples ehould be collisoted on 0.6 micrometar pore eize eliver membrane filtars (37 mm diameter) precaded by Gelman glass fiber typo A-E fliters encased in threeplece plastic (polystyrene) field monitor cassettes. The cassette fuce cap should be on and the plug removed. The rotameter should be checked every hour te eusare that proper flow rates are maintained.

A minimum of three full-shift samples chould be collected for each job classification on canh battary, at least one from each shift. If disparate rasults are obtained for particular job classification, sampling chould be repeated. It is advisable to sample each shift on more than one day to account for environmental variables (wind, precipitstion, etc.) which may affect sampling. Dilferences in exposures among different work shifts may indicate a need to impreve work practicas on a particular shift. Sampling results from differcat shifts for each job classification should act be averaged. Multiple ramplas from same shift on each battery may be used te calouiats an average exposure for a particular job classification.

B. Analysis.

1. All extractica glassware is oleaned with dichremio acid cleaning solution, rinsod with top water, thea dionized water, acetone, and allowed to dry completely. The glassware is rinsed with nanograde benzene heforc nse. The Tefloa cops are cleaned with benzene then with acetone.

2. Pra-weigh the 2 mi Teflon cups to one hundredth of a milligram (6.01 mg) oa an autsbalance AD 3 Tare weight of the oups is about 50 mg.

3. Place the ellver membrane fliter and glass fiber flitor inte a 15 ml test tube.

4. Extract with 5 ml of benzene for five minutes in an uitrasouie oleauer.

5. Filter the extract in 15 ml medium glass Aritted funnels.

6. Rinse test tube and fliters with two 1.5 mi alignets of benzene and fliter through the frittod glass funnel.

7. Collect the extract and two rinsss in a 19 mi Kontos. graduated evaporative conceutrator.

3. Evaporate down to 1 ml while rinsing the eides with benzene.

9. Pipet 0.5 mi into the Teflon cup and evaporate to dryness in a vacuum oven at 40 °C for 3 hours. §1910.1030

10. Weigh the Teflon cup and the weight gain is due to the benzene suluble residue in half the Sample.

II. MEDICAL CURVEILLANCE OUIDELINES

A. General. The minimum requiroments for the medical examination for ooks oven workers are given in paragraph (j) of the etandard. The initial examination is to be provided to all coke oven workers who work at least 50 days in the regulated area. The examination includes a 14° × 17" posterior-anterior chest x-ray reading, pulmonary function tests (FVC and FEV 1.0), weight, urinalysis, skin exumination, and a urinary cytelogio examination. These tasts are needed to serve as the baseline for comparing the employee's futare test results. Feriodio exams include all the elements of the iuitial exam, except that the arine oytologie test is to be performed only on those employees who ars 45 years or older or who have worked for 5 or more years in the regulated area; poriodic exams, with the exception of x-raye, are to be performed semianncally for this group instead of annually; for this graup, xrays will continue to be given at least annually. The examination ecutents are min-imum requirements; additional tests such as iateral and oblique x-rays or additional pulmouary function tests may be performed if deemed necessary.

B. Palmonary function tests.

Pulmonary function tests should be porformed in a manner which minimizes subject and oporator bias. There has been shown to be learning effects with regard to the results obtained from certain tests, such as FEV 1.0. Best results can be obtained hy multiple trials for each subject. The best of three trials or the avarage of the last three of five trials may be used in obtaining reliable results. The typo of equipment used (manufaoturer, model, etc.) should be recorded with the results as reliability and accuracy varies and such information may be important in the evaluation of test results. Care should be exercised to obtoin the best possible testing equipment.

[39 FR 23502, June 27, 1974, 41 FR 46784, Oot.
23, 1976, as amonded at 42 FR 2304, Jan. 13, 1977; 45 FR 35283, May 23, 1989; 50 FR 37353, 37354, Sept. 13, 1985; 54 FR 24334, June 7, 1989; 61 FR 5503, Feb. 13, 1998; 63 FR 1290, Jan. 8, 1998; 63 FR 33463, Jane 13, 1998; 70 FR 1142, Jan. 5, 2005; 71 FR 16672, 16673, Apr. 3, 2008; 71 FR 50189, Aug. 24, 2008; 73 FR 75585, Dec. 12, 2008]

§1910.1090 Bloodborne pathogens.

(a) Scope and Application. This section applies to all cocupational exposure to blood or other potentially infectious materials as defined by paragraph (b) of this section.

(b) Definitions. For purposes of this section, the following shall apply:

Assistant Secretary means the Assistaut Secretary of Labor for Occupational Safety and Health, or designated representative.

Blood means human blocd, hmnan blood componente, and products made from human blood.

Bloodborne Pathogens mcans pathogenio miorocrganisms that are present in human blood and can cause disease in humans. These pathogens include, hut are not limited to, hepatitis B virus (HBV) und human immunodeficiency virus (HIV).

Clinical Laboratory means a workplace where diagnostic or other screening procedures are performed on blood or other potentially infectious materials.

Contaminated means the presence or the reasonably antioipated presence of blocd or other potentially infectious materiais on an item or surface.

Contaminated Laundry means laundry which has been solled with blood or other potentially infectious materials or may contain sharps.

Contaminated Sharps means any contaminated object that can penetrate the skin including, but not limited to, needles, scalpels, broken glass, broken capillary tubes, and exposed ends of dental wires.

Decontamination means the use of physical or chemical means to remove, inactivate, or destroy bloodborne pathogens on a surface or item to the point where they are no longer capable of transmitting infectious particles and the surface or item is rendered safe for handling, use, or disposal.

Director means the Director of the National Institute for Occupational Safety and Heaith, U.S. Department of Health and Human Services, or designated representative.

Engineering controls means controls (e.g., sharps disposal containere, selfsheathing needles, safer medical dsvices, such as sharps with engineered sharps injury pretections and needleless systems) that isolata cr remerve the bloodborne pathogens hazard from the workplace.

Exposure incident means a specific eye, mouth, other muccue membrane, non-intact skin, or paronteral contact 29 CFR Ch. XVII (7-1-10 Edition)

with hicod or other potentially infeotieus materials that results from the performance of an employee's duties.

Handwashing Facilities means a facility providing an adequate supply of running potable water, soap and single use towels or hot air drying machines.

Licensed Healthcare Professional is a person whose legally permitted scope of practice allows him cr her to independently perform the activities required hy paragraph (f) Hepatitis B Vaccination and Post-exposure Evaluation and Follow-np.

HBV means hepatitis B virus.

HIV means human immunodeficiency virus.

Needleless systems mcans a device that does not use needles for:

(1) The collection of bodily fluids or withdrawal of body fluids after initial venous or arterial access is established;

(2) The administration of medication or fluids; or

(3) Any other procedure involving the potential for occupational exposure to bloodborne pathogens due to percutaneous injuries from contaminated sharps.

Oesupational Exposure means reasonably anticipated skin, eye, mucous membrane, or parenteral centact with blood or other potentially infeotious materials that may result from the performance of an employee's duties.

Other Potentially Infectious Materials means

(1) The following human body fluids: semen, vaginal cooretions, cerebrospinal fluid, syncvial fluid, plcural fluid, pericardial fluid, peritoneal fluid, amniotio fluid, saliva in dental procedures, any body fluid that is visibly contaminated with blood, and all bcdy fluids in situations where it is difficult or impossible to differentiate between body fluids;

(2) Any unfixed tissue or organ (other than intact skin) from a human (living or dead); and

(3) HIV-containing cell or tissuc cultures, organ cultures, and HIV- or HBV-containing culture medium or other solutions; and blood, organs, or other tissues from experimental animals infected with HIV or HBV.

Parenteral means piercing muocus membranes or the skin barrier through

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such events as needlesticks, human bitos, cuts, and abrasions.

Personal Protective Equipment is spscialized clothing or equipment worn by an employee for protection agaiust a hazard. General work clothes (e.g., uniforms, pants, shirts or blouses) uot intanded to function as protection against a hazard are not considered to be personal protective equipment.

Production Facility means a facility engaged in industrial-scale, large-volume or high concentration production of HIV or HBV.

Regulated Waste means liquid or semi-liquid blood or other potentially infectious materials; contaminated items that would release blood or other potentially infectious materials in a liquid or semi-liquid stats if compressed; items that are saked with dried blood or other potentially infeotious materials and arc capable of releasing these materials during handling; contaminated sharps; and pathological and microbiological wastes containing blood or other potentially infectious materials.

Research Laboratory means a laboratory producing or using research-laboratory-scale amonnts of HIV or HBV. Research laboratories may produce high concentrations of HIV or HBV but not in the volume found in production facilities.

Sharps with engineered sharps injury protections means a nonneedle sharp or a needle device used for withdrawing body fluids, accessing a vein or artery, or administering medications or other fluids, with a built-in safety feature or mechanism that effectively reduces the risk of an exposure incident.

Source Individual means any iudividual, living or dead, whose blood or other potentially infectious materials may be a source of occupational exposure to the employee. Examples inolude, but are not iimited to, hospital and olinio patients; olients in lustitutioue for the developmentally disabled; trauma victims; clients of drug and alochoi treatment facilities; residents of hospices and nureing homes; human remaine; and individuals who donate or seli blood or blood components.

Sterilize means the use of a physical or ohemical procedure to destroy ail microbial life including highly resistant bacterial endospores.

Universal Precautions is an approach to infection control. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for HIV, HBV, and other bloodborne pathogens.

Work Practice Controls means controls that reduce the likelihood of exposure by altering the manner in which a task is performed (e.g., prchibiting recapping of needles by a two-handed technique).

(c) Exposure control—(1) Exposure Control Plan. (i) Each employer having an employec(3) with occupational exposure as defined by paragraph (b) of this section shall establish a written Exposure Control Plan designed to eliminate or minimize employee exposure.

(ii) The Exposure Coutrol Plan shall contain at least the following elements:

(A) The exposure determination required by paragraph (c)(2),

(B) The schedule and method of implementation fcr paragraphs (d) Methods of Compliance, (e) HIV and HBV Research Laboratories and Production Facilities, (f) Hepatitis B Vaceination and Post-Exposure Evaluation and Follow-up, (g) Communication of Hazards to Employees, and (h) Recordkeeping, of this standard, and

(C) The procedure for the evaluation of eiroumstances surrounding exposure incidents as required by paragraph (f)(3)(i) of this standard.

(iii) Each employer shall ensure that a ecpy of the Exposure Control Flan is accessible to employees in accordance with 29 CFR 1910.20(e).

(iv) The Exposure Control Plan shall be reviewed and updated at least annually and whenever necessary to reflect new or modified tasks and procedures which affect occupational exposure and to reflect new cr reviewed employee positious with occupational exposure. The review and update cf such plans shall also:

(A) Reflect changes in tschnology that eliminate or reduce exposure to bloodborne pathogene; and

(B) Document annually consideration and implementation of appropriate commercially available and effective

safer modical devices designed te eliminate or minimize occupational expesure.

(v) An employer, who is required te establish an Expesure Control Plan shall solicit input from non-managerial employees responsible for direct patient care who are potentially expessed te injuries from contaminated sharps in the identification, evaluation, and selection of effective engineering and work practice controls and sball doeument the solicitation in the Expesure Control Plan.

(vi) The Exposure Control Plan shall be made available to the Assistant Seoretary and the Director upon request for examination and copying.

(2) Exposure determination. (1) Each employer who has an employee(e) with occupational exposure as defined by paragraph (h) of this section shall prepare an exposure determination. This exposure determination shall centaiu the following:

(A) A list of all job classifications in which all employees in those job classifications have cocupational expessure;

(B) A list of job classifications in which seme employees have cecupational exposure, and

(C) A list of all tasks and procedures or groupe of elosely related task and procedures in which occupational expcsure occure and that are performed by employeee in job classifications listed in accordance with the provisions of paragraph (c)(2)(i)(B) of this standard.

(ii) This exposure determination shall be made without regard te the use of personal protective equipment.

(d) Mcthods of compliance—(1) General. Universal precautions shall be observed to prevent contact with blood or other potentially infectious materials. Under circumstances in which differentiation between body fluid types is difficult or impossible, all body fluide shall be eonsidered potentially infectious materials.

(2) Engineering and work practice controls. (1) Engineering and work practice controls shall be used to eliminate or minimize employee exposure. Where occupational exposure remains after institution of these controls, personal protective equipment shall also be used.

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(ii) Engineering controls shall be examined and maintained or replaced on a regular schedule to ensure their effectiveness.

(iii) Employere shall provide handwashing facilities which ure readily accessible te employees.

(iv) When provision of handwashing facilities is not feasible, the employer shall provide either an appropriate antiseptic hand cleanser in conjunction with clean cloth/papor towels or antiseptic tewelettes. When antiseptic hand cleansers or towelettes are used, hands shall be washed with soap and ranning water as soon as feasible.

(v) Employers shall ensure that employees wash their hands immediately or as scon as feasible after removal of gloves or other personal protective equipment.

(vi) Employers shall ensure that employees wash hands and any other ekin with soap and water, or finsh mucous membranes with water immediately or as soon as feasible following contant of euch body areas with blood or other potentially infectious materials.

(vii) Contaminated nesdies and other contaminated sharps shall not be hent, recapped, or removed except as uoted in paragraphs (d)(2)(vii)(A) and (d)(2)(vii)(B) below. Shearing or breaking of coutaminated needles is prohibited.

(A) Contaminated needies and other contaminated sharps shall not he bent, recapped or removed unless the employer can domenstrate that no alternative is feasible or that such action is required by a specific medical or dental precedure.

(B) Such bending, recapping or needle removal must he accomplished through the use of a mechanical device or a one-handed technique.

(viii) Immediately or as soon as pcssible after use, contaminated reusable sharpe shall be placed in appropriate containers until properly reprocessed. These containers shall be:

(A) Punoture resistant;

(B) Laheled or color-ccded in accordance with this standard;

(C) Leakproof on the sides and hottom; and

(D) In accordance with the requirements sst forth \ln paragraph (d)(4)(il)(E) for reusable sharps.

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(ix) Eating, drinking, smoking, applying cosmetics or llp balm, acd handling contact leuses are prohibited in work areas whero there is a reasonable likelihood of occupational exposure.

(x) Food and drink shall not be kept in rofrigerators, freezers, shelves, cabinete or on countertops or benchtops where blood or other potentially infectious materials are present.

(xi) All procedures involving blood or other potentially infectious materials shall be performed in such a manner as to minimize splashing, spraying, spattering, and generation of droplets of these substances.

(xii) Mouth pipetting/suctioning of blood or other potentially infectious materials is prohibited.

(xiii) Specimens of blood or other potentially infections materials shall be placed in a container which prevents leakage during collection, handling, processing, storage, transport, or shipping.

(A) The container for storage, transport, or, shipping shall be labeled cr color-coded according to paragraph (g)(1)(i) and closed prior to being stored, transported, or shipped. When a facility utilises Universal Presautions in the handling of all specimens, ths laheling/celor-coding of specimens is not necessary provided containers are recognizable as containing specimens. This exemption only applies while such specimens/containers rsmain within the facility. Labeling or color-coding in accordance with paragraph (g)(I)(i) is required when such specimens/containers leave the facility.

(B) If outside contamination of the primary container ocoure, the primary container shall he placed within a second container which prevents leakage during handling, processing, sterage, transpert, or shipping and is laheled or color-coded according to the requiremente of this standard.

(C) If the specimen ceuld puncture the primary container, the primary container shall he placed within a secondary container which is puncture-rssistant in addition to the above characteristics.

(xiv) Equipment which may haccme contaminated with hlcod or other potentially infecticue materiais shall he examined prior to eorvieing er shipping

and shall be decontaminated as necessary, unless the employer can demenstrate that decontamination of such equipment or portions of such equipment is not feasible.

(A) A readily observable label in accordance with paragraph (g)(1)(1)(H)shall be attached to the equipment stating which portions remain contaminated.

(B) The employor shall ensure that this information is ocnveyed to all affeeted employees, the scrvicing ropresentative, and/or the manufacturer, as appropriate, prior te handling, sarvicing, or shipping so that appropriate presautions will be taken.

(3) Personal protective equipment—(i) Prevision. When there is occupational exposure, the employer shall provide. at no cost to the employee, appropriate personal protective equipment such as, but not limited to, gleves, gowns, laboratory coate, face shields or masks and eye protection, and mouthpieces, resuscitation bags, pocket masks, or cther ventilation devices. Personal protective equipment will he considered "apprepriate" only if it does not permit blood or other potentially infectious materials to pass through to or reach the employee's work clothes, strset clothes, undergarments, skin, eyes, mouth, cr other mncous membranes under normal conditions of use and for the duration of time which the protective equipment will be used.

(ii) Use. The employer shall ensure that the employee uses appropriate personal protective equipment unless the employer shows that the employee temporarily and briefly declined to use personal protective equipment when, under rare and extraordinary oircumstances, it was the employee's professional judgment that in the spceifio instance its use would have prevented the delivery of health care or public safety services or would have posed an increased hazard to the safety of the worker or eo-worker. When the employee makes this judgement, the circumstances shall be investigated and documented in order to determine whether changes can be instituted to prevent such occurences in the future.

(iii) Accessibility. The employer shall ensure that appropriate personal protective equipment in the appropriate

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sizes is readily accessible at the worksits or is issued to employees. Hypcallergenie gloves, glove liners, powderless gloves, or other similar alternatives shall be readily accessible to those employees who are aliergic to the gloves normally provided.

(iv) Cleaning, Laundering, and Disposal. The employer shall clean, launder, and dispose of personal protective equipment required by paragraphs (d) and (e) of this standard, at no ecst to the employee.

(v) Repair and Replacement. The cmployer shall repair or replace personal pretective equipment as needed to maintaln lte effectiveness, at no cost te the employee.

(vi) If a garment(s) is ponetrated by blood or other potentially infections materials, the garment(s) shall be removed immediately or as soon as feasible.

(vil) All personal protective equipment shall be removed prior to leaving the work area.

(viii) When personal protective equipment is removed it shall be placed in an appropriately designated area or oontalner for storage, washing, decontamination or disposal.

(ix) Gloves. Gloves shall be worn when it can he reasenably anticipated that the employee may have hand contact with blood, other potentially infectious materials, mucous membranes, and non-intact skin; when performing vasonlar access procedures except as specified in paragraph (d)(3)(ix)(D); and when handling or touching contaminatod items or surfaces.

(A) Dispesable (single use) gloves such as surgical or examination gloves, shall be replaced as soon as practical when contaminated or as soon as feasible if they are torn, punctured, or when their ability to function as a barrier is compromised.

(B) Disposable (single use) gloves shall net he washed or decontaminated for re-use.

(C) Utility gloves may be decentaminated for re-use if the intogrity of the glove is not compromised. However, they must be discarded if they are oracked, peeling, torn, punotured, or exhibit other signs of deterioration or when their ability to function as a harrier is compromised. (D) If an employer in a volunteer blood donation center indges that routine gloving for all phlebotomies is net necessary then the employer shall:

(1) Periodisally reevaluato this policy;

(2) Make gloves available to all employees who wish to use them for phlebotomy;

(3) Not discourage the usc of gloves for phlebotomy; and

(4) Requirs that gloves be need for phlebotomy in the following circumstances:

(i) When the employee has outs, scratches, or other breaks in bis or her skin:

(ii) When the cmployec indges that hand contamination with blood may occur, for example, when porforming phlehotomy on an ancooperative seurce individual; and

(iii) When the employee is receiving training in phlebotomy.

(x) Masks, Eye Protection, and Face Shields. Masks in combination with eye protection devices, such as goggles or glasses with solid side shields, or chinlength face shields, shall be worn whenever splashes, spray, spatter, or droplets of blood or other potentially infectious materials may be generated and eye, nose, or month contamination san be reasonably anticipated.

(xi) Gowns, Aprous, and Other Protective Body Clothing. Appropriate protsctive clothing such as, but not limited to, gewns, aprons, lab coats, elinic jackets, er similar outer garments shall be worn in cooupational exposure situations. The type and characteristics will depend upon the task and degree of expesure anticipatsd.

(xii) Surgical caps or hoods and/or shoe covers or boots shall be worn in instances when gross contamination san reasonably be antielpated (e.g., autopeles, orthopaedio surgery).

(4) Heusekeeping—(i) General. Employers shall ensure that the worksite is maintained in a olean and sanitary eondition. The empleyer shall determine and implement an appropriato written schedule for cleaning and method of decontamination based upon the location within the facility, type of eurface to be oleaned, type of soil present, and tasks or procedures being perfermed in the area.

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(ii) All equipment and environmental and working eurfaces shall be cleaned and decontaminated after contact with blood or other potentially infections materials.

(A) Contaminated work surfaces shall he decontaminated with an appropriato disinfectant after completion of procedures; immediately or as soon as feasible when surfaces are overtly contaminated or after any spill of hlood or other potsntially infootious materials; and at the end of the work shift if ths surface may have hecome contaminated since the last cleaning.

(B) Protective coveringe, such as plastic wrap, aluminum foil, or imperviously-backed absorbent paper used to cover equipment and environmental surfaces, shall he removed and replaced as soon as feasible when they become overtly contaminated or at the end of the workshift if they may have become contaminated during the shift.

(C) All bins, pails, cans, and similar receptacles intended for reuse which have a reasonable llkelihood for hscoming contaminated with blood or other potentially infectious materials shall be inspected and decontaminated on a regularly scheduled hasis and cleaned and decontaminated immediately or as soon as feasible upon visible centamination.

(D) Broken glassware which may he contaminated shall not he picked up directly with the hands. It shall be cleansd up using mechanical means, such as a brush and dust pan, tongs, or forceps.

(E) Reucable sharps that are contaminated with blood or other potentially infectious materials shall not be stored or processed in a manner that requires employees to reach hy hand into the containere where these sharps have been placed.

(iii) Regulated Waste—(A) Contaminated Sharps Discarding and Containment. (1) Contaminated sharps shall be discarded immediatoly or as soon as feasible in containers that are:

(i) Closable;

(ii) Puncture resistant;

(iii) Leakproof on sides and hottom; and

(iv) Laheled or color-coded in accordance with paragraph (g)(1)(i) ef this standard. (2) During use, containers for contaminated sharps shall be:

(i) Easily accessible to porsonnel and located as close as is feasible to the immediate area where sharps are nscd or can be reasonably antioipated to be found (e.g., laundries);

(ii) Maintained npright throughont use; and

(iii) Replaced routinely and not be allowed to overfill.

(3) When moving containers of contaminated sharps from the area of use, the containers shall be:

(i) Clossd immediately prior to removal or replacement to prevent spillage or protrusion of contenta during handling, storage, transport, or shipping;

(ii) Placed in a secondary container if leakage is possible. The second container shall be:

(A) Clcsshle;

(B) Constructed to contain all contents and prevent leakage during handling, storage, transport, or shipping; and

(C) Labeled or color-coded according to paragraph (g)(1)(i) of this standard.

(4) Reusable containers shall not he opened, emptied, or cleaned manually cr in any other manner which would expose employees to the risk of percutaneous injury.

(B) Other Regulated Waste Containment-(1) Regulated waste shall be placed in containers which are:

(i) Closahie;

(ii) Constructed to contain all contente and prevent leakage of finids during handling, storage, transport or shipping;

(*iii*) Laheled or color-coded in accordance with paragraph (g)(1)(i) this standard; and

(iv) Closed prior to removal to prevent spillage or protrusion of contenta during handling, storage, transport, or shipping.

(2) If ontside contamination of the regulatod waste container occurs, it shall ho placed in a second container. The second container shall ho:

(i) Closahle:

(ii) Constructed to contain all contonts and prevent leakage of fluids during handling, storago, transport or shipping;

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(iii) Labeled or color-coded in accordanco with paragraph (g)(1)(i) of this standard; and

(iv) Closed prior to removal to prevent spillage or protrusion of contonts during handling, storage, transport, or shipping.

(C) Disposal of all regulated wate shall be in accordance with applicable regulations of the United States, States and Territories, and political subdivisious of States and Territories.

(lv) Laundry. (A) Contaminated laundry shall be handled as little as possible with a minimum of agitation. (I)Contaminated laundry shall he hagged or containerized at the location where it was used and shall not be sorted or riused in the location of use.

(2) Contaminated laundry shall be placed and transported in bags or containers labeled or color-coded in accordance with paragraph (g)(1)(i) of this etandard. When a facility utilizes Universal Precautions in the handling of all soiled laundry, alternative labeling or eclor-coding is sufficient if it permite all employees to recognize the containere az requiring compliance with Universal Precautions.

(3) Whenever contaminated laundry is wet and presents a reazonable likelihood of scak-through of or leakage from the bag or container, the laundry shall be placed and transported in hags or containere which provent soakthrough and/or leakage of fluids to the exterior.

(B) The employer shall ensure that employees who have contact with contaminatod laundry wear protective gloves and other appropriate percenal protective equipment.

(C) When a facility ships contaminated laundry off-site to a second facillty which does not utilize Universal Precautions in the handling of all laundry, the facility generating the contaminated laundry must place such laundry in hags or containers which are laheled cr color-coded in accordance with paragraph (g)(1)(1).

(e) HIV and HBV Research Laboratories and Production Facilities. (1) This paragraph applies to research laberatories and production facilities engaged in the eulture, production, concentration, experimentation, and manlpulation of HIV and HBV. It does not apply to clinical or diagnostic laboratories engaged solely in the analysis of blood, tissues, or crgans. These requirements apply in addition to the other requiroments of the standard.

(2) Recearch laboratories and productlon facilities shall meet the following criteria:

(i) Standard microbiological practices. All regulated waste shall either be incinerated or decontaminated by a method such as antoclaving known to effectively destroy hloodborne pathogens,

(ii) Special practices. (A) Laboratery docre shall be kept closed when work involving HIV or HBV is in progress.

(B) Contaminated materials that arc te be decentaminated at a sito away from the work area shall be placed in a durahle, leakproof, labeled or colorcoded container that is closed beforo being removed from the work area.

(C) Access to the work area shall be limited to authorized percens. Written policies and procedures shall he established whereby only persons who have been advised of the potential biohazard, who meet any specific entry requiroments, and who comply with ali entry and exit procedures shall be allowed to enter the work areac and animal roome.

(D) When other potentially infectious materials or infected animals are present in the work area or containment module, a hazard warning sign incorporating the universal biohazard symbol shall be posted on all access doors. The hazard warning sign shall comply with paragraph (g)(1)(i) of this etandard.

(E) All activities involving other potsntially infectious materials shall be oonducted in biclogical safety cabinets or other physical-containment devices within the containment module. No work with these other potentially infectious materials shall be conducted on the open bench.

(F) Laboratory coats, gowns, smocks, uniforms, or other appropriate protective clothing shall be used in the work area and animal reoms. Protective elothing shall not be worn outside of the work area and shall be decontaminated before being laundered.

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(G) Special care shall be taken to avoid skin contant with other potentially infections materials. Gloves shall be worn when handling infected animals and when making hand contact with other potentially infecticus materials is unavoidable.

(H) Before dispocal all waste from work areas and from animal rooms shall either be incinerated or decontaminated by a method such as autoclaving known to effectively destrey bloodboree psthogens.

(I) Vacuum lines shall be proteoted with liquid disinfectant traps and highefficiency particulate air (HEPA) filtors or filtors of equivalent cr snperior efficiency and which are checked routinely and maintained or replaced as necessary.

(J) Hypodermic neodles and syringes shall be nood only for parenteral injeetion and aspiration of fluids irem laboratory animais and diaphragm bottles. Only needle-locking syringes or disposable syringe-needle units (i.o., the needle is integral to the syringe) shall be used for the injection or aspiration of other potentially infectious materials. Extreme caution shall be nsed when handling needles and syringcs. A needle shall not be bent, sheared, replaced in the sheath or guard, or removed from the syringe following use. The needle and syringe ehall be promptly placed in a punctureresistant container and anteolavad or decontaminated before reuse or disposal.

(K) All spills shall be immediately contained and cleaned up by appropriate prefessional staff or others propcrly trained and equipped te work with potentially concentrated infectious materials.

(L) A spill or accident that results in an expessure incident shall be immediately reperted to the laboratery director or other responsible person.

(M) A biosafety manual shall be prepared or adopted and periodically reviewed and updated at least annually or mors often if necessary. Personnel shall be advised of potential hazards, shall be required to read instructions on practices and procedures, and shall he required to follow them.

(iii) Containment equipment. (A) Certified biological safety cabinets (Class I, H, or III) or other appropriate combinations of personal protection or physical containment devices, such as special pretective clothing, respirators, centrifuge tafcty enps, scaied centrifuge rotors, and containment caging for animals, shall be used for all activities with other potentially infections matorials that pose a threat of cxposure to droplets, splashes, spills, cr acrosols.

(B) Biological safety cabinete shall be certifisd when instailed, whenever they are moved and at least annually.

(3) HIV and HBV research laboratories shall meet the following critoria:

(i) Each laboratory shall contain a facility for hand washing and an eye wash facility which is readily available within the work area.

(ii) An autoclavo for decontamination of regulated waste shall be available.

(4) HIV and HBV production facilities shall meet the following criteria:

(i) The work areas shall be separated from areas that are open to unrestricted traffic flow within the building. Passage through two sets of doors shall be the 'basic requirement for entry into the work area from access corridors or other contiguous areas. Physical separation of the high-containment work area from access corridors or other areas or activities may also be provided by a dcuble-doored clothes-change recm (showers may be included), airlock, or other access facility that requires passing through two sets of doors hefore entering the work area.

(ii) The surfaces of doors, walls, floors and eeilings in the work area shall be water resistant so that they ean be easily cleaned. Ponotrations in these surfaces shall be scaled or capable of being sealed to facilitate decontamination.

(iii) Each work area shall contain a sink for washing hands and a readily available eye wash facility. The sink shall be foot, elbow, or automatically operated and shall be located near the exit deer of the work area.

(iv) Access doors to the work area or eentainment module shall be self-clesing.

(v) An autoolave for decentamination ef regulated waste shall be available

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within or as near as possible to the work area.

(vi) A ducted exhaust-air ventilation systom shall be provided. This systom shall create directional airfiow that draws air into the work area through the entry area. The exhaust air shall not be recirculated to any other urca of the building, shall be discharged to the outside, and shall be dispersed away from occupied areas and air intakes. The proper direction of the airfiow shall be verified (i.e., into the work area).

(5) Training Requirements. Additional training requirements for employees in HIV and HBV ressurch laboratories and HIV and HBV preduction facilities are epecified in paragraph (g)(2)(ix).

(f) Hepatitis B vaccination and post-erposure evaluation and follow-up-(1) General. (i) The employer shall make available the hepatitis B vaccine and vacoination seriee to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure inoident.

(ii) The employer shall ensure that all medical evaluations and procedures including the hepatitis B vaccine and vaccination series and post-expesure evaluation and follow-up, including prophylaxis, urc:

(A) Made available at no cost to the employee;

(B) Made available to the employee at a reasonable time and plase:

(C) Performed by or under the supervision of a licensed physician or by or under the supervision of another licensed healthcare professional; and

(D) Previded according to reoommendations of the U.S. Publio Health Service current at the time these evaluations and precedures take place, except as specified by this paragraph (f).

(iii) The employer shall ensure that all laboratory tosts are conducted by an accredited laboratory at no cost to the employee,

(2) Hepatitis B Vaccination. (1) Hepatitls B vaccination shall be made available after the employes has received the training required in paragraph (B)(2)(vii)(1) and within 10 working days of initial assignment to all employees who have occupational exposure unless 29 CFR Ch. XVII (7-1-10 Edition)

the employee hac previously received the complete hepatitis B vaccination series, antibody testing has revealed that the employee is immune, or the vaccine is contraindicated for medical reacons.

(ii) The employer shall not make partioipation in a presoreening program a prerequisits for receiving hepatitis B vacelnation.

(iii) If the employee initially declines hepatitis B vaccination but at a later date while still covered under the standard decldes to accept the vaccination, the employer shall make avallable hepatitis B vaccination at that time.

(iv) The employer shall assure that employees who decline to accept hepatitls B vacoination offered by the employer sign the statement in appendix A.

(v) If a reutine booster dose(s) of hepatilis B vacoine is recommended by the U.S. Public Health Scrvice at a future date, such booster dose(s) shall be made available in accordance with section (f)(1)(ii).

(3) Fost-exposure Evaluation and Follow-up. Pellowing a report of an exposure inoident, the employer shall make immediately available to the exposed employee a confidential medical evaluation and follow-up, including at least the following elements:

(i) Documentation of the reute(s) of exposure, and the oircumstances under which the exposure incident coourred:

(ii) Identification and documentation of the source individual, unless the employer can establish that identification is infeasible or prehibitod by state or local law;

(A) The source individual's blood shall be tested as soon as feasihls and after consent is obtained in order to detormine HBV and HIV infectivity. If consent is not obtained, the employer shall establish that legally required oonsent cannot be obtained. When the source individual's conseut is not required by law, the source ludividual's blood, If available, shall be tested and the resulte documented.

(B) When the source individual is already known to be infected with HBV or HIV, testing for the source individual's known HBV or HIV status need not be repeated.

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(C) Results of the source individual's testing shall be made available to the exposed employee, and the employee shall be informed of applicable laws and regulations concerning disclosure of the identity and infectious status of tho source individual.

(iii) Collection and testing of blood for HBV and HIV serological status;

(A) The exposed employee's blood shall be collected as scon as feasible and tested after consent is obtained.

(B) If the employee consents to baseline blood cellection, hut does not give consent at that time for HIV ssrologic testing, the sample shall be preserved for at least 90 days. If, within 90 days of the exposure incident, the employee elects to have the baseline sample tested, such testing shall be done as soon as feasible.

(iv) Post-exposure prophylaxis, when medically indicatod, as recommended by the U.S. Public Health Service;

(v) Counseling; and

(vi) Evaluation of reported illuesses.

(4) Information Provided to the Healthcare Professional. (1) The employer shall ensure that the healthcare professional responsible for the employee's Hepatitis B vaccination is provided a copy of this regulation.

(ii) The employer shall ensure that the healthcaro professional evaluating an employee after an exposure incident is provided the following information:

(A) A copy of this regulation;

(B) A description of the exposed employee's duties as they relate to the exposure ineident;

(C) Documentation of the route(s) of exposure and circumstances under which exposure occurred;

(D) Results of the source individual's blocd tosting, if available; and

(E) All medical records relevant te the appropriate treatment of the employee including vaccination status which are the employer's responsibility to maintain.

(5) Healthcare Professional's Written Opinion. The employer shall obtain and provide the employee with a copy of the evaluating healthcare professional's written opinion within 15 days of the completion of the evaluation.

(i) The healthcare professional's written opinion for Hepatitle B vaccination shall be limited to whether Hepatitis B vaccination is indicated for an cmployee, and if the employce has received such vaccination.

(11) The healthcarc prefessional's written opinion fcr post-exposure evaluation and follow-up shall be limited to the following information:

(A) That the employee has been informed of the results of the evaluation; ard

(B) That the employee has been told about any medical conditions resulting from exposure to blood or other potentially infections materials which require further evaluation or treatment. (iii) All other findings or diagnoses shall remain confidential and shall not be included in the writton report.

(6) Medical recordkeeping. Medical records required by this standard shall be maintained in accordance with paragraph (h)(1) of this section.

(g) Communication of hazards to employees—(1) Labels and signs—(1) Labels. (A) Warning labels shall be affixed to containers of regulated waste, refrigerators and freezerc containing blood or other potentially infectious matorial; and other containers used to store, transport or ship blood or other potontially infectious materials, excopt as provided in paragraph (g)(1)(i)(E), (F) and (G).

(B) Labsis required by this section shall include the following legend:



BIOHAZARD

(C) These labels shall be fluorescent orange or orange-red or predominantly sc, with lettering and symbols in a contracting color.

(D) Labels shall be affixed as close as feasible to the container hy string, wire, adhesive, or other method that prevents their loss or unintentional removal.

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(B) Red bags or red containers may be substituted for labels.

(F) Containers of blood, blood components, or blood products that are labeled as to their contonts and have been roleased for transfusion or other elinical use are exempted from the labeling requiroments of paragraph (g).

(G) Individual containers of blood or other potentially infectious materiale that are placed in a labeled container during storage, transport, shipment er disposal are exempted from the labeling requirement.

(H) Labels required for contaminated equipment shall be in accordance with this paragraph and shall also state which pertions of the equipment remain contaminated.

(I) Regulated wacte that has been dccontaminated need not be labeled or color-ceded.

(ii) Signs. (A) The employer shall post eigns at the entrance to work areas specified in paragraph (e), HIV and HBV Research Laberatory and Production Facilities, which shall bear the following legend:



BIOHAZARD

(Name of the Infectious Agent)

(Special requirements for entoring the area) (Name. telephone number of the laboratory director or other responsible person.)

(B) Thsee signs shall be fluoroscent orange-red or predeminantly se, with lsttering and symbols in a contrasting eeior.

(2) Information and Training. (i) The employer shall train each employee with occupational exposure in accordance with the requirements of this section. Such training must be previded at no cost to the employee and during working hours. The employer ehall inetitute a training program and ensure employee participation in the program.

(ii) Training shall be provided as follows:

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(A) At the time of initial assignment to tasks where occupational exposure may take place;

(B) At least annually thereafter.

(ili) [Reserved]

(iv) Annual training for all employeee shall be provided within one year of their previous training.

(v) Employers shall provide additional training when changes such as medification of tasks or procedures or institution of new tasks or procedures affect the employee's eccupational exposure. The additional training may be limited to addressing the new exposures created.

(vi) Material appropriato in content and vocabulary to educational level, literacy, and language of employees shall be used.

(vii) The training program shall contain at a minimum the following elements:

(A) An accessible copy of the regnlatory text of this standard and an explasation of its contents;

(B) A general explanation of the epidemiology and symptoms of bloodborne diseases;

(C) An explanation of the modes of transmission of bloedborne pathogens;

(D) An explanation of the employer's exposure control plan and the means by which the employee can obtain a copy of the written plan;

(E) An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure te blood and other potentially infectious materiale;

(F) An explanation of the use and limitations of methods that will provent or reduce exposurs including appropriato engineering controls, work practicee, and personal protoctive equipment;

(G) Information on the types, proper use, location, removal, handling, decentamination and dispesal of personal protective equipment;

(H) An explanation of the hasis for selection of personal proteotive equipment:

(1) Information on the hepatitis B vaccine, including information on its efficasy, safety, method of administratien, the benefits of being vaccinated, and that the vaccine and vaccination will be effored free ef charge;

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(J) Information on the appropriate actions to take and percons to contact in an emergency involving blood or other potentially infectious materials;

(K) An explanation of the procedare to follow if an exposure incident ocours, including the method of reperting the incident and the medical follow-up tbat will be made available;

(L) Information on the post-exposure evaluation and follow-up that the employer is required to provide for the employec following an expessive incident;

(M) An explanation of the signs and labels and/or color coding required by paragraph (g)(1); and

(N) An opportunity for interactive questions and answers with the percon conducting the training session.

(vili) Tho. person conducting the training shall be knowledgeable in the subject matter covered by the elements contained in the training program as it relates to the workplace that the training will address.

(ix) Additional Initiai Training for Employees in HIV and HBV Laborateries and Production Facilities. Employces in HIV or HBV research laboratories and HIV or HBV production facilities shall receive the following initial training in addition to the abovo training requirements.

(A) The employer shall arsure that employees demonstrato proficiency in standard microbiological practices and techniques and in the practices and operatious specific to the facility before being allowed te work with HIV or HBV.

(B) The employer shall assure that employees have prior experience in the handling of human pathogens or tissue cultures before working with HIV or HBV.

(C) The employer shall provide a training program to employees who have no prior experience in hand)ing human pathogens. Initial work activities shall not include the handling of infecticus agente. A progression of work activities shall he assigned as techniques are learned and proficiency is developed. The employer shall assure that employees participate in work activities involving infectious agents only after proficiency has been demonstrated. (h) Recordkeeping-(1) Medical Records. (i) The employer shall eetablish and maintain an accurate record for each employco with occupational expessurs, in accordance with 29 CFR 1910.1020.

(ii) This record shall include:

(A) The name and social security number of the employee;

(B) A copy of the employee's hepatitis B vaccination status including the dates of ail the hepatitis B vaccinations and any medical records relative to the employee's ability to receive vaccination as required by paragraph (f)(2);

(C) A copy of all results of examinations, medical testing, and follow-up procedures as required by paragraph (f)(3);

(D) The employer's copy of the healthcars professional's written opinion as required by paragraph (f)(5); and

(E) A copy of the information provided to the healthcare professional as required by paragraphs (f)(4)(ii)(B)(C)and (D).

(iii) Confidentiality. The employer shall ensure that employee medical records required by paragraph (h)(1) are:

(A) Kept confidential; and

(B) Not disclosed or reported without the employee's express written consent to any person within or outside the workplace except as required by this section or as may be required hy law.

(iv) The employer shall maintain the records required hy paragraph (h) for at least the duration of employmont plus 30 years in accordaces with 29 CFR 1910.1020.

(2) Training Records. (i) Training records shall include the following information:

(A) The dates of the training sessions;

(B) The contents or a summary of the training sessions;

(C) The names and qualifications of persons conducting the training; and

(D) The names and joh titles of all persons attending the training sessions.

(ii) Training records shall be maintained for 3 years from the date on which the training occurred.

(3) Availability. (i) The employer shall ensure that all records required to be

maintained by this section shall be made available upou request to the Assistant Secretary and the Director for examination and copying.

(ii) Employee training rocords required hy this paragraph shall be provided upou request for examination and copying to employees, to employee reprossntatives, to the Director, and te the Assistant Secretary.

(iii) Employee medical records raquired by this paragraph sball be provided upon request for examination and copying to the subject employee, to anyone having written consent of the subject employee, to the Director, and to the Assistant Secretary in accordance with 99 CFR 1910.1020.

(4) Transfer of Records. (i) The omployer shall comply with the requiremente involving transfer of records set forth in 28 CFR 1910.1020(h).

(ii) If the employer ceases to do husiness and there is no successor employer to receive and retain the records for the prescribed period, the employer shall notify the Director, at least three months prior to their dispesal and transmit them to the Director, if required hy the Director to do se, within that three mouth period.

(1) Dates—(1) Effective Date. The standard shall become effective on March 6, 1992.

(2) The Exposure Control Pian requirsd by paragraph (c) of this section shall be completed on or before May 5, 1992.

(3) Paragraph (g)(2) Information and Training and (h) Recordsceping shall take offect on or before Jnne 4, 1992.

(4) Paragraphs (d)(2) Engineering and Work Practice Controls, (d)(3) Personal Protective Equipment, (d)(4) Housekeeping, (e) HIV and HBV Recearch Laboraterics and Production Facilities, (f) Hopatitis B Vaccination and Post-Exposure Evaluation and Followup, and (g) (1) Labels and Signs, shall take effect July 6, 1992.

(5) Shurps injury log. (1) The employer shall establish aud maintain a sharpe injury log for the recording of percutaneous injuries from contaminated sharps. The information in the sharps injury log shall be recorded and maintained in such manner as to protect the confidentiality of the injured

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employee. The sharps injury log shall contain, at a minimum:

(A) The type and hrand of device involved in the incident,

(B) The department cr work area where the exposure incident cocurred, and

(C) An explanation of how the incident occurred,

(ii) The requirement to establish and maintain a sharps injury log shall apply te any employer who is roquired to maintain a log of occupational injuries and illnesses under 29 CFR 1904.

(iii) The sharps injury log shall be maintsined for the period required by 29 CFR i904.6.

APPENDIX A TO SECTION 1910,1030—HEPATITIS B VACCINE DECLINATION (MANDATORY)

I understand that due to my occupational exposure to blood cr other potentially infectious materials I may be at risk of acquiring hepatities B virus (HBV) infection. I have been given the opportunity to be vaccinated with hepatities B vaccine, at nc charge to myself. However, I decline hopatities B vaccination at this time. I understand that by doelining this vaccine, 1 continue to be at risk of acquiring hepatitis B, a serious disease. If in the future I continue to have occupational exposure to blood or other potentially infections materials and I want to be vaccinated with hepatitis B vaccine, 1 can receive the vaccinatien series at no charge to me.

[56 FR 64175, Dec. 6, 1991, as amended at 57
FR 12717, Apr. 13, 1992; 57 FR 29206, July 1,
1992; 61 FR 5588, Feb. 18, 1993; 66 FR 5325, Jan.
18, 2091; 71 FR 16672, 16672, Apr. 3, 2006; 73 FR
75588, Dec. 12, 2008)

§1919.1043 Cotton dust.

(a) Scope and application. (1) This section, in its entircty, applies to the control of employee exposure to extron dust in all workplaces where employees engage in yarn manufacturing, engage in slashing and weaving operations, or work in waste houses for textile operatione.

(2) This secticu does not apply to the handling or processing of woven or knitted materials; to maritime operations covared by 29 CFR Parts 1915 and 1918; to harvesting or ginning of cottou; or to the construction industry.

(3) Only paragraphs (h) Medical surveillance, (k)(2) through (4) Recordkscping-Medical Records, and Appendices B, C and D of this section apply