

**US Department of Labor
Occupational Safety and Health Administration
Preclearance Supporting Statement – 1218-0180**

**SUPPORTING STATEMENT FOR THE
INFORMATION COLLECTION REQUIREMENTS IN THE
BLOODBORNE PATHOGENS STANDARD (29 CFR 1910.1030)¹
OFFICE OF MANAGEMENT AND BUDGET (OMB)
CONTROL NUMBER 1218-0180 (October 2024)**

The agency is requesting an extension for an existing approved data collection.

A. JUSTIFICATION

- 1. Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection. Attach a copy of the appropriate section of each statute and regulation mandating or authorizing the collection of information.**

The main objective of the Occupational Safety and Health Act (OSH Act) is to “assure so far as possible every working man and woman in the Nation safe and healthful working conditions and to preserve our human resources” (29 U.S.C. 651). To achieve this objective, the OSH Act specifically authorizes “the development and promulgation of occupational safety and health regulations” (29 U.S.C. 651).

To protect employee health, the OSH Act authorizes the Occupational Safety and Health Administration (OSHA) to develop standards that provide for “monitoring or measuring employee exposure” to occupational hazards and “prescribe the type and frequency of medical examinations and other tests which shall be made available [by the employer] to employees exposed to such hazards in order to most effectively determine whether the health of such employees is adversely affected by such exposure” (29 U.S.C. 655). In addition, the OSH Act mandates that “[e]ach employer shall make, keep and preserve, and make available to the Secretary [of Labor] . . . such records regarding [his/her] activities relating to this Act as the Secretary . . . may prescribe by regulation as necessary or appropriate for the enforcement of this Act or for developing information regarding the causes and prevention of occupational accidents and illnesses” (29 U.S.C. 657). In addition, the OSH Act directs OSHA to “issue regulations requiring employers to maintain accurate records of employee exposure to potentially toxic materials or other harmful physical agents which are required to be monitored and measured,” and further specifies that such regulations provide “for each employee or former employee to have access to such records as will indicate [their] own exposure to toxic materials or harmful physical agents” (29 U.S.C. 657). The OSH Act states further that “[t]he Secretary . . . shall . . . prescribe such rules and regulations as [he/she] may deem necessary to carry out [his/her]

¹ The purpose of this supporting statement is to analyze and describe the burden hours and costs associated with provisions of the Standard that contain paperwork requirements; this supporting statement does not provide information or guidance on how to comply with, or how to enforce the Standard.

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responsibilities under this Act, including rules and regulations dealing with the inspection of an employer's establishment" (29 U.S.C. 651).

Under the authority granted by the OSH Act, OSHA or "agency" published a health standard governing employee exposure to Bloodborne Pathogens at 29 CFR 1910.1030, 1915.1030 (the "Standard"). The basis for this Standard is a determination by the Assistant Secretary for OSHA that occupational exposure to bloodborne pathogens can result in infections. These pathogens include, but are not limited to, the hepatitis B virus or the human immunodeficiency virus. These infections can lead to serious clinical illness which may result in death. Additionally, on November 6, 2000, the Needlestick Safety and Prevention Act (NSPA), was signed into law (Pub. L. 106-430), because of the growing concern over bloodborne pathogens exposures resulting from sharps injuries and in response to technological developments that increase employee protections. On January 18, 2001, OSHA published a Direct Final Rule to conform to the requirements of NSPA. The information collection requirements resulting from the NSPA include: modifying the existing requirements for revising and updating the exposure control plan; soliciting of employee input for selecting safer medical devices; and recordkeeping.

2. Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the agency has made of the information received from the current collection.

The information collection requirements contained in this standard include a written exposure control plan, documentation of employees' hepatitis B vaccinations and post exposure evaluations and follow-up medical visits, labeling, training records, recordkeeping and a sharps injury log. Information generated in accordance with these provisions provides the employer and the employee with means to provide protection from the adverse health effects associated with occupational exposure to bloodborne pathogens.

A. Exposure control plan (§ 1910.1030(c)(1))

§ 1910.1030(c)(1)(i) - Each employer having an employee(s) with occupational exposure² as defined by paragraph (b) of this section shall establish a written Exposure Control Plan designed to eliminate or minimize employee exposure.

§ 1910.1030(c)(1)(ii) - The Exposure Control Plan shall contain at least the following elements:

§ 1910.1030(c)(1)(ii)(A) - The exposure determination required by paragraph (c)(2),

² "Occupational exposure" means reasonably anticipated skin, eye, mucous membrane, or parenteral contact with blood or other potentially infectious materials that may result from the performance of an employee's duties.

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§ 1910.1030(c)(1)(ii)(B) - The schedule and method of implementation for paragraphs (d) Methods of Compliance, (e) HIV and HBV Research Laboratories and Production Facilities, (f) Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up, (g) Communication of Hazards to Employees, and (h) Recordkeeping, of this standard, and

§ 1910.1030(c)(1)(ii)(C) - The procedure for the evaluation of circumstances surrounding exposure incidents as required by paragraph (f)(3)(i) of this standard.

§ 1910.1030(c)(1)(iii) - Each employer shall ensure that a copy of the Exposure Control Plan is accessible to employees in accordance with 29 CFR 1910.1020(e).

§ 1910.1030(c)(1)(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 or revised employee positions with occupational exposure. The review and update of such plans shall also:

§ 1910.1030(c)(1)(iv)(A) – Reflect changes in technology that eliminate or reduce exposure to bloodborne pathogens; and

§ 1910.1030(c)(1)(iv)(B) - Document annually consideration and implementation of appropriate commercially available and effective safer medical devices designed to eliminate or minimize occupational exposure.

§ 1910.1030(c)(1)(v) - An employer, who is required to establish an Exposure Control Plan shall solicit input from non-managerial employees responsible for direct patient care who are potentially exposed to injuries from contaminated sharps in the identification, evaluation, and selection of effective engineering and work practice controls and shall document the solicitation in the Exposure Control Plan.

§ 1910.1030(c)(1)(vi) - The Exposure Control Plan shall be made available to the Assistant Secretary and the Director upon request for examination and copying.

Purpose: The purpose of the Exposure Control Plan is to identify those tasks and procedures where occupational exposure may occur and to identify the positions whose duties include those tasks and procedures identified with occupational exposure. Additionally, this requirement is to assure that all new tasks and procedures are evaluated in order to determine whether they will result in occupational exposure. The review also assures evaluation and implementation of safer medical devices. Employee input into this process can serve to assist the employer in overcoming obstacles to the successful implementation of control measures.

Exposure determination (§ 1910.1030(c)(2)) - Each employer who has an employee(s) with occupational exposure as defined by paragraph (b) of this section shall prepare an exposure determination. This exposure determination shall contain the following:

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§ 1910.1030(c)(2)(i)(A) - A list of all job classifications in which all employees in those job classifications have occupational exposure;

§ 1910.1030(c)(2)(i)(B) - A list of job classifications in which some employees have occupational exposure, and

§ 1910.1030(c)(2)(i)(C) - A list of all tasks and procedures or groups of closely related task and procedures in which occupational exposure occurs and that are performed by employees in job classifications listed in accordance with the provisions of paragraph (c)(2)(i)(B) of this standard.

Purpose: To assure that the workers who hold these job classifications are included in the training program, are provided with personal protective equipment, are provided with post exposure follow-up where appropriate, are included in the HBV vaccination program, and receive all other protection afforded by this standard.

B. Housekeeping (§ 1910.1030(d)(4))

General (§ 1910.1030(d)(4)(i)) - Employers shall ensure that the worksite is maintained in a clean and sanitary condition. The employer shall determine and implement an appropriate written schedule for cleaning and method of decontamination based upon the location within the facility, type of surface to be cleaned, type of soil present, and tasks or procedures being performed in the area.

Purpose: Assist in ensuring that routine cleaning, as recommended by CDC, is performed and that the method of decontamination deemed appropriate by the employer is followed. Additionally, the workers can utilize the schedule to determine when such cleaning should be done and what method they should use to properly accomplish the task.

C. Laundry (§ 1910.1030(d)(4)(iv))

§ 1910.1030(d)(4)(iv)(A) - Contaminated laundry shall be handled as little as possible with a minimum of agitation.

§ 1910.1030(d)(4)(iv)(A)(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 standard. When a facility utilizes Universal Precautions in the handling of all soiled laundry, alternative labeling or color-coding is sufficient if it permits all employees to recognize the containers as requiring compliance with Universal Precautions.

§ 1910.1030(d)(4)(iv)(C) - When a facility ships contaminated laundry off-site to a

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second facility which does not utilize Universal Precautions in the handling of all laundry, the facility generating the contaminated laundry must place such laundry in bags or containers which are labeled or color-coded in accordance with paragraph (g)(1)(i).

Purpose: Placing and transporting contaminated laundry in labeled or color-coded bags or containers prevents inadvertent exposure by warning employees of the bag/container's contaminated contents.

D. HIV and HBV research laboratories and production facilities (§ 1910.1030(e))

§ 1910.1030(e)(2)(ii)(B) - Contaminated materials that are to be decontaminated at a site away from the work area shall be placed in a durable, leak proof, labeled or color-coded container that is closed before being removed from the work area.

§ 1910.1030(e)(2)(ii)(C) Access to the work area shall be limited to authorized persons. Written policies and procedures shall be established whereby only persons who have been advised of the potential biohazard, who meet any specific entry requirements, and who comply with all entry and exit procedures shall be allowed to enter the work areas and animal rooms.

§ 1910.1030(e)(2)(ii)(M) - A biosafety manual shall be prepared or adopted and periodically reviewed and updated at least annually or more often if necessary. Personnel shall be advised of potential hazards, shall be required to read instructions on practices and procedures, and shall be required to follow them.

Purpose: Placing and transporting contaminated materials in labeled or color-coded container prevents inadvertent exposure by warning workers of the container's contaminated contents. Only those individuals who have met specialized training requirements have access to this work area. The biosafety manual serves as a reference and assists in preventing exposure by identifying hazards and practices and procedures to be followed. Periodic review and update assures that the manual reflects the work setting's current hazards, practices, and procedures.

E. Hepatitis B vaccination and post-exposure evaluation and follow-up (§ 1910.1030(f))

§ 1910.1030(f)(1)(i) - The employer shall make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident.

§ 1910.1030(f)(1)(ii) - The employer shall ensure that all medical evaluations and procedures including the hepatitis B vaccine and vaccination series and post-exposure evaluation and follow-up, including prophylaxis, are:

§ 1910.1030(f)(1)(ii)(A) - Made available at no cost to the employee.

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§ 1910.1030(f)(1)(ii)(D) - Provided according to recommendations of the U.S. Public Health Service current at the time these evaluations and procedures take place, except as specified by this paragraph (f).

Hepatitis B vaccination (§ 1910.1030(f)(2))

§ 1910.1030(f)(2)(i) - Hepatitis B vaccination shall be made available after the employee has received the training required in paragraph (g)(2)(vii)(I) and within 10 working days of initial assignment to all employees who have occupational exposure unless the employee has previously received the complete hepatitis B vaccination series, antibody testing has revealed that the employee is immune, or the vaccine is contraindicated for medical reasons.

§ 1910.1030(f)(2)(iii) - If the employee initially declines hepatitis B vaccination but at a later date while still covered under the standard decides to accept the vaccination, the employer shall make available hepatitis B vaccination at that time.

§ 1910.1030(f)(2)(iv) - The employer shall assure that employees who decline to accept hepatitis B vaccination offered by the employer sign the statement in Appendix A.

§ 1910.1030(f)(2)(v) - If a routine booster dose(s) of hepatitis B vaccine is recommended by the U.S. Public Health Service at a future date, such booster dose(s) shall be made available in accordance with section (f)(1)(ii).

Purpose: Hepatitis B vaccination is made available to eliminate or minimize risk of contracting hepatitis B through exposure, particularly when other controls inadequately protect or the worker is inadvertently or unknowingly exposed. Additionally, assures that workers who are initially reluctant to accept vaccination but who later change their minds as the result of information or experiences are accorded the opportunity to receive vaccination. The declination form encourages greater participation in the vaccination program by reiterating that a worker declining the hepatitis B vaccination remains at risk of acquiring hepatitis B. Also allows employers to easily determine who is not vaccinated so that resources can be directed toward improving the acceptance rate of the vaccination program, and assists compliance officers in enforcing training and vaccination requirements.

Post-exposure evaluation and follow-up (§ 1910.1030(f)(3)) - Following a report of an exposure incident, the employer shall make immediately available to the exposed employee a confidential medical evaluation and follow-up, including at least the following elements:

§ 1910.1030(f)(3)(i) - Documentation of the route(s) of exposure, and the circumstances under which the exposure incident occurred;

§ 1910.1030(f)(3)(ii) - Identification and documentation of the source individual, unless the employer can establish that identification is infeasible or prohibited by state or local law;

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§ 1910.1030(f)(3)(ii)(A) - The source individual's blood shall be tested as soon as feasible and after consent is obtained in order to determine HBV and HIV infectivity. If consent is not obtained, the employer shall establish that legally required consent cannot be obtained. When the source individual's consent is not required by law, the source individual's blood, if available, shall be tested and the results documented.

§ 1910.1030(f)(3)(ii)(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.

§ 1910.1030(f)(3)(ii)(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 the source individual.

§ 1910.1030(f)(3)(iii) - Collection and testing of blood for HBV and HIV serological status;

§ 1910.1030(f)(3)(iii)(A) - The exposed employee's blood shall be collected as soon as feasible and tested after consent is obtained.

§ 1910.1030(f)(3)(iii)(B) - If the employee consents to baseline blood collection, but does not give consent at that time for HIV serologic 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.

§ 1910.1030(f)(3)(iv) - Post-exposure prophylaxis, when medically indicated, as recommended by the U.S. Public Health Service;

§ 1910.1030(f)(3)(v) - Counseling; and

§ 1910.1030(f)(3)(vi) - Evaluation of reported illnesses.

Purpose: This documentation allows the employer to receive feedback regarding the circumstances of worker exposures, and the information collected can then be used to focus efforts on decreasing or eliminating specific circumstances or routes of exposure. Testing for the source individual's infectious status provides exposed workers with information that will assist them in decisions regarding testing of their own blood, complying with other elements of post-exposure management, and using precautions to prevent transmission to their sexual partners or, in the case of pregnancy, to their fetuses. Such testing also assists the healthcare professional in deciding on appropriate follow-up. Counseling of exposed employees is a vital component of post-exposure follow up procedures and that counseling concerning infection status, including results of and interpretation of all tests will assist the worker in understanding the potential risk

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of infection and in making decisions regarding the protection personal contacts.

Information provided to the healthcare professional (§ 1910.1030(f)(4))

§ 1910.1030(f)(4)(i) - The employer shall ensure that the healthcare professional responsible for the employee's Hepatitis B vaccination is provided a copy of this regulation.

§ 1910.1030(f)(4)(ii) - The employer shall ensure that the healthcare professional evaluating an employee after an exposure incident is provided the following information:

§ 1910.1030(f)(4)(ii)(A) - A copy of this regulation;

§ 1910.1030(f)(4)(ii)(B) - A description of the exposed employee's duties as they relate to the exposure incident;

§ 1910.1030(f)(4)(ii)(C) - Documentation of the route(s) of exposure and circumstances under which exposure occurred;

§ 1910.1030(f)(4)(ii)(D) - Results of the source individual's blood testing, if available;
and

§ 1910.1030(f)(4)(ii)(E) - All medical records relevant to the appropriate treatment of the employee including vaccination status which are the employer's responsibility to maintain.

Purpose: The purpose of providing this information is to inform the Healthcare Professional of the requirements of the standard. This information, which represents the minimum necessary for proper follow-up care, enables the Healthcare Professional to understand the worker's duties, the circumstances of the exposure incident, the source individual's infectious status, the worker's Hepatitis B vaccination status and other worker medical information. This information is essential to follow-up evaluation so that a determination can be made regarding whether prophylaxis or medical treatment is indicated.

Healthcare professional's written opinion (§ 1910.1030(f)(5)) - 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.

§ 1910.1030(f)(5)(i) - The healthcare professional's written opinion for Hepatitis B vaccination shall be limited to whether Hepatitis B vaccination is indicated for an employee, and if the employee has received such vaccination.

§ 1910.1030(f)(5)(ii) - The healthcare professional's written opinion for post-exposure evaluation and follow-up shall be limited to the following information:

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§ 1910.1030(f)(5)(ii)(A) - That the employee has been informed of the results of the evaluation; and

§ 1910.1030(f)(5)(ii)(B) - That the employee has been told about any medical conditions resulting from exposure to blood or other potentially infectious materials which require further evaluation or treatment.

§ 1910.1030(f)(5)(iii) - All other findings or diagnoses shall remain confidential and shall not be included in the written report.

Purpose: The written opinion is to ensure that the employer is provided with documentation that a medical assessment of the worker’s ability and indication to receive Hepatitis B vaccination was completed and to inform the employer regarding the worker’s Hepatitis B vaccination status. Additionally, the employer is provided with documentation that a post-exposure evaluation has been performed, and that the exposed worker has been informed of the results and any medical conditions from exposure that require further evaluation or treatment.

F. Communication of hazards to employees (§ 1910.1030(g))

Labels and signs (§ 1910.1030(g)(1)).³

§ 1910.1030(g)(1)(i)(A) - Warning labels shall be affixed to containers of regulated waste, refrigerators and freezers containing blood or other potentially infectious material; and other containers used to store, transport or ship blood or other potentially infectious materials, except as provided in paragraph (g)(1)(i)(E), (F) and (G).

§ 1910.1030(g)(1)(i)(B) - Labels required by this section shall include the following legend:



³Paragraphs (d)(2)(xiii)(A), *Containers for storage, transportation or shipping*; and (d)(2)(xiv)(A), *Contaminated equipment* require labels in accordance with (g)(1)(i) and (g)(1)(i)(H) respectively. Also paragraph (d)(4)(iii), *Regulated Waste*, contains several labeling requirements to be in accordance with (g)(1)(i) of the standard. Also, see “Laundry,” above, for discussion of labeling requirements.

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§ 1910.1030(g)(1)(i)(C) - These labels shall be fluorescent orange or orange-red or predominantly so, with lettering and symbols in a contrasting color.

§ 1910.1030(g)(1)(i)(E) - Red bags or red containers may be substituted for labels.

§ 1910.1030(g)(1)(i)(H) Labels required for contaminated equipment shall be in accordance with this paragraph and shall also state which portions of the equipment remain contaminated.

Signs (§ 1910.1030(g)(1)(ii))

§ 1910.1030(g)(1)(ii)(A) - The employer shall post signs at the entrance to work areas specified in paragraph (e), HIV and HBV Research Laboratory and Production Facilities, which shall bear the following legend:



(Name of the Infectious Agent)
(Special requirements for entering the area)
(Name, telephone number of the laboratory director or other responsible person.)

§ 1910.1030(g)(1)(ii)(B) - These signs shall be fluorescent orange-red or predominantly so, with lettering and symbols in a contrasting color.

Purpose: The purpose of this requirement is to alert workers to possible exposure since the nature of the material or contents will not always be readily identified as blood or other potentially infectious materials under these circumstances. Warning labels also would inform workers that appropriate barrier precautions would need to be used if occupational exposure occurs. Posting warning signs serves as a warning to workers who may otherwise not know they are entering a restricted area. Signs would also warn workers not to enter the area unless there is a need, unless the worker has been properly trained, and unless the worker also meets all other appropriate entrance requirements listed on the sign. The signs assure that workers are aware of the specific biohazard involved and of any special measures that need to be taken before entering the restricted area.

Information and training (§ 1910.1030(g)(2))

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The requirement that employers provide training to workers under paragraph (g)(2), with the exception of (g)(2)(vii)(A), is not considered to be a collection of information. OSHA is not taking burden for this activity under Item 12 of this Supporting Statement.

Under 1910.1030(g)(2)(vii)(A), the employer must provide an accessible copy of the regulatory text of this standard and an explanation of its contents to all employees. OSHA considers this requirement to be a public disclosure of information originally supplied by the Federal government to the employer for the purpose of disclosure to the public, and therefore is not including any burden hours or costs for this provision in Item 12.

Purpose: Having a copy of the Standard readily available for workers helps to ensure that they understand all provisions of the Standard.

G. Recordkeeping (§ 1910.1030(h))

Medical records (§ 1910.1030(h)(1))

§ 1910.1030(h)(1)(i) - The employer shall establish and maintain an accurate record for each employee with occupational exposure, in accordance with 29 CFR 1910.1020.

§ 1910.1030(h)(1)(ii) - This record shall include:

§ 1910.1030(h)(1)(ii)(A) - The name of the employee;

§ 1910.1030(h)(1)(ii)(B) - A copy of the employee's hepatitis B vaccination status including the dates of all the hepatitis B vaccinations and any medical records relative to the employee's ability to receive vaccination as required by paragraph (f)(2);

§ 1910.1030(h)(1)(ii)(C) - A copy of all results of examinations, medical testing, and follow-up procedures as required by paragraph (f)(3);

§ 1910.1030(h)(1)(ii)(D) - The employer's copy of the healthcare professional's written opinion as required by paragraph (f)(5); and

§ 1910.1030(h)(1)(ii)(E) - A copy of the information provided to the healthcare professional as required by paragraphs (f)(4)(ii)(B)(C) and (D).

§ 1910.1030(h)(1)(iv) - The employer shall maintain the records required by paragraph (h) for at least the duration of employment plus 30 years in accordance with 29 CFR 1910.1020.

Training records (§ 1910.1030(h)(2))

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§ 1910.1030(h)(2)(i) - Training records shall include the following information:

§ 1910.1030(h)(2)(i)(A) - The dates of the training sessions;

§ 1910.1030(h)(2)(i)(B) - The contents or a summary of the training sessions;

§ 1910.1030(h)(2)(i)(C) - The names and qualifications of persons conducting the training; and

§ 1910.1030(h)(2)(i)(D) - The names and job titles of all persons attending the training sessions.

§ 1910.1030(h)(2)(ii) - Training records shall be maintained for 3 years from the date on which the training occurred.

Purpose: Medical and training records are necessary to assure that workers receive appropriate information on the hazards and effective prevention and treatment measures, as well as to aid in the general development of information on the causes of occupational illnesses and injuries involving bloodborne pathogens. Maintenance of medical records is essential because documentation is necessary to ensure proper evaluation of the worker's immune status and for proper healthcare management following an exposure incident. Training records assure that training has taken place and can be used in determining the need to perform training in the future. They also enable the employer to assess the content and completeness of the training program in order to ensure that his or her workers have received the required training.

Availability (§ 1910.1030(h)(3))

§ 1910.1030(h)(3)(i) - The employer shall ensure that all records required to be maintained by this section shall be made available upon request to the Assistant Secretary and the Director for examination and copying.⁴

§ 1910.1030(h)(3)(ii) - Employee training records required by this paragraph shall be provided upon request for examination and copying to employees, to employee representatives, to the Director, and to the Assistant Secretary.

⁴ The agency has no annualized cost associated with enforcing the Standard. OSHA would only review records in the context of an investigation of a particular employer to determine compliance with the Standard. These activities are outside the scope of the PRA. See 5 CFR 1320.4(a)(2). While NIOSH may use records collected from employers for research purposes, the agency does not anticipate NIOSH to request employers to make available records during the approval period. Therefore, the burden for the employer to make this information available to NIOSH is zero.

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§ 1910.1030(h)(3)(iii) - Employee medical records required by this paragraph shall 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 29 CFR 1910.1020.

Purpose: Access by employees, their representatives, and the Assistant Secretary is necessary to yield both direct and indirect improvements in the detection, treatment, and prevention of occupational disease.

§ 1910.1030(h)(4) Transfer of Records. The employer shall comply with the requirements involving transfer of records set forth in 29 CFR 1910.1020(h).

Paragraph (h) of § 1910.1020 requires employers who cease to do business to transfer medical and exposure-monitoring records to the successor employer, who then must receive and maintain the records. If no successor employer is available, the employer must, at least three months before ceasing business, notify current workers who have records of their right to access these records.

OSHA considers the employer's transfer of records to a successor employer to be usual and customary communications during the transition from one employer to a successor employer. In this regard, the employer would communicate the location of all records, including worker exposure-monitoring and medical records, at the facility to the successor employer during the transfer of business operations, as a matter of usual and customary business practice.

In addition, OSHA accounts for the burden hours and costs resulting from the worker notification requirements under the Information Collection Request (ICR) for its Access to Employee Exposure and Medical Records Standard (§ 1910.1020), OMB Control No. 1218-0065.

Sharps injury log (§ 1910.1030(h)(5))

§ 1910.1030(h)(5)(i) - The employer shall establish and maintain a sharps 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 employee. The sharps injury log shall contain, at a minimum:

§ 1910.1030(h)(5)(i)(A) - The type and brand of device involved in the incident,

§ 1910.1030(h)(5)(i)(B) - The department or work area where the exposure incident occurred, and

§ 1910.1030(h)(5)(i)(C) - An explanation of how the incident occurred.

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§ 1910.1030(h)(5)(ii) - The requirement to establish and maintain a sharps injury log shall apply to any employer who is required to maintain a log of occupational injuries and illnesses under 29 CFR 1904.

§ 1910.1030(h)(5)(iii) - The sharps injury log shall be maintained for the period required by 29 CFR 1904.33.

Purpose: The sharps injury log serves as a tool for identifying tasks, areas, and devices that have a high risk for sharps injuries. The information allows the employer to focus efforts toward eliminating these high risks and in device evaluation.

3. Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also describe any consideration of using information technology to reduce burden.

Employers may use improved information technology whenever appropriate when establishing and maintaining the required records. OSHA wrote the paperwork requirements of the Standard in performance-oriented language (i.e., in terms of what data to maintain, not how to maintain the data). The employer may also contract the services of a healthcare professional located offsite to maintain and retain medical records.

4. Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item A.2 above.

The information required to be collected and maintained is specific to each employer and employee involved and is not available or duplicated by another source. The information required by this Standard is available only from employers. At this time, there is no indication that any alternative source is available.

5. If the collection of information impacts small businesses or other small entities, describe any methods used to minimize burden.

The information collection requirements of the Standard do not have a significant impact on a substantial number of small entities.

6. Describe the consequence to Federal program or policy activities if the collection is or is not conducted less frequently, and any technical or legal obstacles to reducing the burden.

The information collection frequencies specified by this Standard are the minimum that OSHA

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believes are necessary to ensure that the employer and OSHA can effectively monitor the exposure and health status of employees exposed to bloodborne pathogens.

- 7. Explain any special circumstances that would cause an information collection to be conducted in a manner:**
- **requiring respondents to report information to the agency more often than quarterly;**
 - **requiring respondents to prepare a written response to a collection of information in fewer than 30 days after receipt of it;**
 - **requiring respondents to submit more than an original and two copies of any document;**
 - **requiring respondents to retain records, other than health, medical, government contract, grant-in-aid, or tax records for more than three years;**
 - **in connection with a statistical survey, that is not designed to produce valid and reliable results that can be generalized to the universe of study;**
 - **requiring the use of a statistical data classification that has not been reviewed and approved by OMB;**
 - **that includes a pledge of confidentiality that is not supported by authority established in statute or regulation, that is not supported by disclosure and data security policies that are consistent with the pledge, or which unnecessarily impedes sharing of data with other agencies for compatible confidential use; or**
 - **requiring respondents to submit proprietary trade secret, or other confidential information unless the agency can demonstrate that it has instituted procedures to protect the information's confidentiality to the extent permitted by law.**

The Standard requires that employers must obtain and provide the worker with a copy of the evaluating healthcare professional's written opinion within 15 days of the completion of the evaluation (§ 1910.1030(f)(5)). The 15-day provision assures that the employee is informed in a timely manner regarding information received by the employer and is consistent with other OSHA health standards.

- 8. If applicable, provide a copy and identify the date and page number of publications**

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in the Federal Register of the agency's notice, required by 5 CFR 1320.8(d), soliciting comments on the information collection before submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the agency in response to those comments. Specifically address comments received on cost and hour burdens.

Describe efforts to consult with persons outside the agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and recordkeeping, disclosure, or reporting format (if any), and on the data elements to be recorded, revealed, or reported.

Consultation with representatives of those from whom information is to be obtained or those who must compile records should occur at least once every three years -- even if the collection of information activity is the same as in prior periods. There may be circumstances that mitigate against consultation in a specific situation. These circumstances should be explained.

As required by the Paperwork Reduction Act of 1995 (44 U.S.C. 3506(c)(2)(A)), OSHA published a notice in the *Federal Register* on October 1, 2024 (89 FR 79965) requesting public comments on its proposed extension of the information collection requirements contained in the Bloodborne Pathogens Standard (29 CFR 1910.1030) under Docket number OSHA-2010-0047. This notice is part of a preclearance consultation program intended to provide those interested parties the opportunity to comment on OSHA's request for an extension by the Office of Management and Budget (OMB) of a previous approval of the information collection requirements found in the above Standard. The agency will respond to any public comments received in response to this notice.

9. Explain any decision to provide any payment or gift to respondents, other than remuneration of contractors or grantees.

No payments or gifts will be provided to the respondents.

10. Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or agency policy.

To ensure that the personal information contained in medical records remains confidential, OSHA developed 29 CFR 1913.10 to regulate access to these records.

11. Provide additional justification for any questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private. This justification should include the reasons why the agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is

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requested, and any steps to be taken to obtain their consent.

None of the provisions in the Standard require the collection of sensitive information.

12. Provide estimates of the hour burden of the collection of information. The statement should:

- **Indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated. Unless directed to do so, agencies should not conduct special surveys to obtain information on which to base hour burden estimates. Consultation with a sample (fewer than 10) of potential respondents is desirable. If the hour burden on respondents is expected to vary widely because of differences in activity, size, or complexity, show the range of estimated hour burden, and explain the reasons for the variance. Generally, estimates should not include burden hours for customary and usual business practices.**
- **If this request for approval covers more than one form, provide separate hour burden estimates for each form and aggregate the hour burdens.**
- **Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories.**

Table A - Number of Establishments	
Establishment Type	Total Affected
Office of Physicians	210,756
Office of Dentists	136,140
Nursing Homes	21,685
Hospitals	7,713
Medical and Dental Labs	24,738
Home Health	12,909
Hospices	9,621
Hemodialysis	8,449
Drug Rehabilitation	15,901
Government Clinics	5,532
Blood/Plasma/Tissue Centers	2,042
Residential Care	14,495
Sub-Total 1	469,981
Personnel Services	43,527
Funeral Services	20,492
Health Units in Industry	202,540
Research Labs	22,180

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Table A - Number of Establishments	
Establishment Type	Total Affected
Linen Services	1,488
Medical Equipment Repair	6,788
Law Enforcement [a]	7,735
Fire and Rescue [a]	5,498
Correctional Facilities [a]	4,901
Lifesaving [a]	2,019
Schools [a]	1,657
Waste Removal [a]	4,922
Sub-Total 2	323,747
Total	793,728

Source: 2022 County Business Patterns (<https://www.census.gov/programs-surveys/cbp/data.html>) where OSHA’s sectors, originally based on the 1997 County Business Patterns and 1987 SIC, could be reasonably represented by a selection of NAICS industries. 2022 Bureau of Labor Statistics, Quarterly Census of Employment and Wages (<https://www.bls.gov/cew/downloadable-data-files.htm>) was used for profile estimates of public sector establishments and employees.

[a] Estimates for these establishment types are based on QCEW data, although Waste Removal is partially taken from CBP (NAICS 924110 is based on QCEW, while 562211 and 562219 are based on CBP). All other establishment types are derived from CBP data.

Note: All establishment types making up sub-total 1 are considered likely to be health care industry establishments (included in SIC 80 or NAICS 62).

Classification of Employees

In order to prepare its regulatory impact analysis (RIA), OSHA chose to group employees into four groups depending upon their duties. Group A employees are those who have direct patient health care responsibilities, such as physicians and nurses. Group B employees are those employed in laboratories or who have emergency response duties, such as emergency medical technicians, fire fighters, and law enforcement officers. Group C employees are housekeepers and janitors. Group D employees are other workers, such as drivers, service workers, and social workers.

Table B - Number of Affected Employees, Job Turnover Rates, and Occupational Turnover Rates by Industry and Job Classification				
		Number of Affected Employees	Job Turnover Rate	Occupational Turnover Rate
Offices of Physicians				
	Category A	1,202,278	22.80%	6.90%
	C	8,659	31.60%	9.80%
	D	86,584	21.80%	12.90%
Offices of Dentists				

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Table B - Number of Affected Employees, Job Turnover Rates, and Occupational Turnover Rates by Industry and Job Classification				
		Number of Affected Employees	Job Turnover Rate	Occupational Turnover Rate
Category	A	488,825	26.80%	1.60%
	C	4,685	31.60%	9.80%
Nursing Homes				
Category	A	693,606	49.90%	24.80%
	C	44,749	31.60%	9.80%
	D	7,458	31.60%	9.80%
Hospitals				
Category	A	2,639,234	27.20%	14.70%
	B	225,504	21.80%	12.90%
	C	350,784	31.60%	9.80%
Medical and Dental Labs				
Category	A	291,588	21.70%	12.90%
	C	2,245	31.60%	9.80%
	D	253,174	31.60%	9.80%
Home Health Care				
Category	A	386,457	36.30%	22.30%
	C	5,713	31.60%	9.80%
	D	11,996	36.30%	22.50%
Hospices				
Category	A	156,138	36.30%	22.50%
	C	2,276	31.60%	9.80%
	D	399	36.30%	22.50%
Hemodialysis				
Category	A	107,266	25.50%	15.40%
	C	1,880	31.60%	22.50%
	D	4,970	21.80%	12.90%
Drug Rehabilitation				
Category	A	129,666	25.50%	15.40%
	C	3,184	31.60%	22.50%
	D	10,814	21.80%	12.90%
Government Clinics				
Category	A	26,487	22.80%	13.50%
	C	193	31.60%	9.80%
	D	1,934	21.80%	12.90%
Blood/Plasma/Tissue Centers				
Category	A	50,905	21.80%	12.90%
	C	559	31.60%	9.80%

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Table B - Number of Affected Employees, Job Turnover Rates, and Occupational Turnover Rates by Industry and Job Classification				
		Number of Affected Employees	Job Turnover Rate	Occupational Turnover Rate
	D	1,091	36.30%	22.50%
Residential Care				
	Category A	80,450	49.60%	24.30%
	C	2,221	31.60%	9.80%
	D	13,183	36.30%	9.80%
Personnel Services				
	Category A	1,982,190	100.00%	8.70%
	D	3,296,492	31.60%	9.80%
Funeral Services				
	Category A	52,599	21.80%	12.90%
	C	2,803	31.60%	9.80%
	D	3,336	31.60%	9.80%
Health Units in Industry				
	Category A	34,184	31.70%	19.50%
	B	141,051	21.80%	9.80%
	D	3,497	31.60%	12.90%
Research Labs				
	Category A	1,335,441	21.80%	12.90%
	C	20,073	31.60%	9.80%
	D	5,373	21.80%	12.90%
Linen Services				
	Category D	59,520	54.00%	9.80%
Medical Equipment Repair				
	Category A	2,984	38.30%	22.50%
	B	1,262	38.30%	12.90%
	C	32,502	21.80%	12.90%
	D	2,271	21.80%	22.50%
Law Enforcement				
	Category A	479,753	10.10%	7.80%
	B	1,778	21.80%	9.80%
	C	4,093	31.60%	7.80%
	D	48,515	10.10%	12.90%
Fire and Rescue				
	Category A	197,239	21.80%	12.90%
	B	236,293	8.50%	22.50%
	D	3,066	38.30%	7.80%

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Table B - Number of Affected Employees, Job Turnover Rates, and Occupational Turnover Rates by Industry and Job Classification			
	Number of Affected Employees	Job Turnover Rate	Occupational Turnover Rate
Correctional Facilities			
Category A	21,676	31.70%	19.50%
B	214,359	41.00%	12.90%
C	18,810	31.60%	17.70%
D	56,089	29.10%	7.80%
Lifesaving			
Category A	100,950	21.80%	12.90%
Schools			
Category A	6,164	25.00%	15.00%
D	4,679	36.30%	22.50%
Waste Removal			
Category A	1,309,252	36.30%	22.50%
TOTAL	16,975,449		

Note: Employment estimates are based on a ratio of affected establishments to affected employees.

To update the number of affected employees, the agency, using the original RIA estimates, determined the number of employees per category, per establishment. The number of employees per category, per establishment, was multiplied by the number of establishments as listed in Table A to determine the total number of affected employees in the various job categories.

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I. RESPONDENT BURDEN-HOUR AND COST BURDEN DETERMINATIONS

The agency determined the wage rates from mean hourly wage earnings to represent the cost of employee time. For the relevant standard occupational classification category, OSHA used the wage rates reported in the Bureau of Labor Statistics, U.S. Department of Labor. *Occupational Employment and Wage Statistics (OEWS), May 2023* [date accessed: July 18, 2024]. (OEWS data is available at <https://www.bls.gov/oes/tables.htm>. To access a wage rate, select the year, “Occupation Profiles,” and the Standard Occupational Classification (SOC) code.)

To account for fringe benefits, the agency used the Bureau of Labor Statistics’ (BLS) *Employer Costs for Employee Compensation*, March 2024 (https://www.bls.gov/news.release/archives/ecec_06182024.pdf; accessed July 18, 2024. BLS reported that for civilian workers, fringe benefits accounted for 31.23 percent of total compensation and wages accounted for the remaining 68.77 percent. To calculate the loaded hourly wage for each occupation, the agency divided the mean hourly wage rate by 1 minus the fringe benefits rate.

Table C - Wage Hour Estimates				
Occupational Title	SOC Code	Mean Hourly Wage	Fringe Benefits	Loaded Hourly Wage
		a	b	c = a / (1 - b)
Manager/Supervisor	11-0000 [a]	\$56.52	31.23%	\$82.19
Employee	00-0000 [a]	\$32.37	31.23%	\$47.07
Clerical Employee	43-0000 [a]	\$21.63	31.23%	\$31.45
Personnel Training and Labor Relations Specialist and Counselor	13-1075 [a]	\$41.84	31.23%	\$60.84
Infection Control Practitioner and Healthcare Provider	29-9011 [b]	\$44.93	31.23%	\$65.34
Medical Personnel (Category A)	29-0000	\$49.07	31.23%	\$71.35
Laboratory Technician and Emergency Response Personnel (Category B)	29-2012 [b]	\$25.85	31.23%	\$37.59
Janitors (Category C)	37-2011	\$17.43	31.23%	\$25.35
Service Workers (Category D)	53-0000	\$22.45	31.23%	\$32.65

[a] NAICS 62 refers to the Health Care and Social Assistance Sector. *National Industry-Specific Occupational Employment and Wage Statistics (OEWS), May 2023*, (https://www.bls.gov/oes/2023/may/naics2_62.htm.)

[b] Code no longer exists. Previous estimates based on 2016 wage rates were inflated using the same rate of growth as for the average wage rate for medical occupations overall (29-0000).

Note: Sector and occupational delineations based on those specified in earlier ICRs for this rulemaking.

The burden hour and cost analysis below contain references to tables containing detailed supporting spreadsheet calculations. To view these tables, see the appendix.

A. Exposure control plan

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(1) Exposure control plan (§ 1910.1030(c)(1)-(2))

Burden hours: 1,633,734

There are four key elements that constitute the exposure control plan: the exposure determination, the schedule and method of implementation of the provisions of the Standard, employee solicitation and the procedure for evaluating exposure incidents.

The exposure determination is the identification and documentation of those tasks and procedures where occupational exposures may take place and the employees who perform those tasks and procedures. This includes a list of all job classifications where all employees have occupational exposure and a list of job classifications in which some but not all employees have occupational exposure and the tasks and procedures that they perform that place them at risk for occupational exposure. The employer must provide a schedule and method of implementation of the provisions of the Standard.

Paragraph (c)(1)(iv) requires the employer to annually review and update their exposure control plan. When employers review and update their exposure control plans, employers must ensure that the plan: (A) reflects changes in technology that eliminate or reduce exposure to bloodborne pathogens; and (B) includes documentation of consideration and implementation of appropriate commercially available and effective safer medical devices designed to eliminate or minimize occupational exposure.

The burden hours associated with the development of the exposure control plan reflect employers time to review and update the exposure control plan. OSHA estimates that hospitals will require 8 hours annually to review and update their plans, while all other sectors take 2 hours to review and update their exposure control plans. The total burden hours for the exposure control plan are 1,633,734. The assumptions made and the breakdown by type of facility are found in Table 1 in the appendix to this document.

(2) Exposure control plan – Documentation required by the Needlestick Prevention Act

Burden hours: 117,495

Employers must document consideration and implementation of appropriate commercially available and effective safer medical devices designated to eliminate or minimize occupational exposure and employee solicitation in the exposure plan. These employers are likely to be in health care industry establishments, as noted in Table A. The effort for this documentation is 15 minutes (0.25 hour) of managerial time earning \$82.19 an hour.

Burden hours: 469,981 establishments, x 0.25 hour = 117,495 hours

Cost: 117,495 hours x \$82.19 = \$9,656,914

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(3) Employee Solicitation § 1910.1030(c)(1)(v)

Burden hours: 117,495

Employers who are required to establish an exposure control plan must solicit input from non-managerial employees responsible for direct patient care who are potentially exposed to injuries from contaminated sharps in the identification, evaluation, and selection of effective engineering and work practice controls and shall document the solicitation in the “Exposure control plan.”

The overwhelming majority of establishments that have employees who are responsible for direct patient care and who are potentially exposed to injuries from contaminated sharps are likely to be in health care industry establishments. The agency estimates there are 469,981 establishments that must solicit input from non-managerial employees.

OSHA estimates that the solicitation requires 15 minutes (0.25 hour) of managerial time.

Burden hours: 469,981 establishments x 0.25 hour = 117,495 hours

Costs: 117,495 hours x \$82.19 = \$9,656,914

(4) Employee Response § 1910.1030(c)(1)(v)

Burden hours: 1,461,364

The burden hours and costs associated with the employee response will vary with the number of employees and the response rate to the initial solicitation. The agency estimates that there are 17,713,500 individuals employed in the relevant NAICS industries. OSHA estimates that it takes 15 minutes (0.25 hour) of employee time to respond to the solicitation and that approximately 33% or 5,845,455 individuals will respond. OSHA uses a wage rate of \$47.07.

Burden hours: 5,845,455 individuals x 0.25 hour = 1,461,364 hours

Costs: 1,461,364 hours x \$47.07 = \$68,786,403

B. Housekeeping (§ 1910.1030(d)(4)(i))

Burden hours: 0

The employer must determine and implement an appropriate written schedule for cleaning and method of disinfection based on the location within the facility, type of surface to be cleaned, type of soil present, and tasks or procedures being performed. Since it is usual and customary for facilities to have a written housekeeping plan, the Bloodborne Pathogens Standard would not impose a significant paperwork burden.

C. Laundry (§ 1910.1030(d)(4)(iv)(A)(2))

Burden hours: 0

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Labeling requirements required by this paragraph are currently in place and are being followed by the facilities covered by Bloodborne Pathogens Standard; therefore, there is no additional burden from the labeling procedures.

D. HIV/HBV research laboratories and production facilities (§ 1910.1030(e)(2)(ii)(M))

Burden hours: 0

The employer must adopt or prepare a biosafety manual. The biosafety manual is a usual and customary part of any viral research program where harmful microorganisms are used on a routine basis or in any production facility where large quantities of these microorganisms are being cultured (grown), for example, in the production of viral vaccines. Therefore, there are no additional burden hours.

E. Hepatitis B Vaccine; Post exposure follow-up (§ 1910.1030(f))

(1) Hepatitis B Vaccination

Burden hours: 972,124

The Standard requires employers to make available the hepatitis B vaccine to all employees who have occupational exposure unless: the employee has previously received the complete hepatitis B vaccination series, antibody testing reveals that the employee is immune, or the vaccine is contraindicated for medical reasons. Since the Standard has been in effect since December, 1991, most employees with occupational exposure have already been offered the vaccine. The agency expects that most vaccinations would be offered to employees who are newly entering the field. All newly hired employees who have contact with patients or blood and are at an ongoing risk for injuries with sharp instruments or needle sticks must be tested for the antibody to hepatitis B surface antigen, one to two months after completion of the 2-dose or 3-dose vaccination series.⁵ Since this procedure would require employee time to be vaccinated and healthcare professional time to administer the vaccine, we have prepared two tables. The assumptions made and the breakdowns by type of facility are found in Table 2 for employee's time and Table 3a for the healthcare professional time. Table 2 estimates the total burden for all employees to receive HBV vaccinations and to be tested for hepatitis B surface antigen is 828,193. The total burden hours for healthcare professionals in Table 3a are 143,931.

⁵ The agency is revising the ICR to indicate that a 2-dose vaccination series is now permitted under recent CDC guidelines. As the agency does not have data to indicate the proportion of vaccine series that are administered using the 2-dose versus the original 3-dose frequency, the agency retains the 3-dose frequency in the ICR calculations. While this is likely an overestimate, the agency is choosing to be conservative in its calculations until and unless more data becomes available.

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(2) Antibody testing of source individuals

Burden hours: 45,125

The Standard requires that if an exposure incident occurs then the employer is to contact the individual whose blood is the source of the exposure (source individual) and, after legal consent is obtained, test the source individual to determine HIV and HBV infectivity. The assumptions for determining the burden hours for the healthcare professional to provide source testing for both HIV and HBV are in Tables 4-1a – (Antibody Testing of Source Individuals (Healthcare Professional Time, HIV)) and 4-2a. (Antibody Testing of Source Individuals (Healthcare Professional Time HBV) Burden hours for the healthcare professional to provide HIV source testing are estimated to be 39,808 hours , while source testing for HBV is estimated to be 5,317 hours).

(3) HBV antibody testing for workers

Burden hours: 17,114

The Standard requires that the employer provide post exposure evaluation and follow up according to the recommendations of the U.S. Public Health Service current at the time the evaluation and follow up takes place. The employer must obtain consent of the exposed employee to collect and test the exposed employee's blood to establish a baseline sample (HBV). The current CDC guideline states that within 24 hours, post exposure prophylaxis with hepatitis B immune globulin (HBIG) and/or vaccine should be administered when indicated (e.g., after percutaneous or mucous membrane exposure to blood known or suspected to be HbsAg (hepatitis B surface antigen) positive). The assumptions made and the breakdown by type of facility is found in Tables 5 through 12 in the appendix to this document.

Table 5-(HBV Antibody-Testing for Vaccinated Worker) and 7 (HBV Antibody Testing for Non-Vaccinated Workers) estimate that it will take 11,402 hours for vaccinated workers, and 1,617 hours for non-vaccinated workers, respectively, to receive HBV post exposure blood tests. Table 6a Healthcare Professional Time for HBV Post Exposure Blood Test to Vaccinated Workers estimates that it takes healthcare professionals 3,400 hours to administer the HBV post exposure blood tests to vaccinated workers and Table 8a (Healthcare Professional Time for HBV Post-Exposure Blood Tests to Non-Vaccinated Workers) estimates that healthcare professionals will take 282 hours to administer the HBV post exposure blood tests to non-vaccinated workers.

Tables 9 through 12 determine burden hours and costs for administering the Hepatitis B Immune Globulin (HBIG). Table 9 estimates a total of 10 hours for vaccinated workers to received HBIG and Table 10a estimates it takes healthcare professionals a total of 3 hours to administer HBIG to vaccinated workers. Table 11 estimates a total of 335 hours for non-vaccinated workers to receive HBIG and Table 12a estimates it takes healthcare

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professionals a total of 65 hours to administer HBIG to non-vaccinated workers.

(4) HIV serologic testing and post exposure prophylaxis (PEP) for exposed workers

Burden hours: 362,141

The Standard requires that the employer provide post exposure evaluation and follow up according the current recommendations of the U.S. Public Health Service at the time the evaluation and follow up takes place. The employer must obtain the exposed employee's consent to collect and test the exposed employee's blood to establish a baseline sample. The current Center for Disease Control (CDC) recommendation for healthcare professionals⁶ who have occupational exposure to blood or other body fluids that may contain HIV virus includes post exposure prophylaxis (PEP) that includes a basic regimen of two drugs for four weeks and in most cases an "expanded" regimen that includes a third drug.

Tables 13 and 14a calculate the burden hours for workers and healthcare professionals, respectively. The hours for administration of HIV antibody testing for workers are 280,022 hours and for the healthcare professionals are 82,119 hours.

(5) Post-exposure prophylaxis (PEP)

Burden hours: 11,550

To estimate the burden hours and costs for PEP, OSHA estimated 5,775 healthcare professionals⁷ (HCP) would be eligible for the PEP, and it will take one hour initially and at least one hour for follow-up visits. This includes travel time. The total burden hours for HCPs' PEP are 11,550 hours. OSHA estimates that an HCP earns \$65.34 an hour, resulting in a cost of \$754,677.

Burden hours: 5,775 HIV-positive cases x 2 hours = 11,550 hours

Costs: 11,550 hours x \$65.34 = \$754,677

(6) Counseling for exposed workers

Burden hours: 619,983

The Standard requires that post exposure counseling be provided to employees who have

⁶Healthcare professional is defined by CDC as any person (e.g., an employee, student, contractor, attending clinician, public safety worker, or volunteer) whose activities involve contact with patients or with blood or other body fluids from patients in a health-care or laboratory setting.

⁷ OSHA has adopted the estimate of 385,000 annual needlestick and sharp injuries from the Recording and Reporting Occupational Injuries and Illnesses Final Rule (OSHA, 2016). Of these about 1-2% of these involve source patients who are HIV positive. For purposes of calculating burden hours and costs OSHA has assumed 1.5%.

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had an exposure incident. This information is presented in a single table that accounts for both employee and counselor time. The assumptions made, and the breakdown by type of facility are found in Table 15 in the appendix of this document.

(7) Information provided to healthcare professionals **Burden hours: 118,968**

Information concerning the nature of the exposure incident must be provided to the physician so that the healthcare professional will know what actions to take in the follow up care. The agency has determined the hours by multiplying the number of exposure incidents (1,189,683) by 6 minutes.

OSHA assumes a clerk earning \$31.45 will provide the information to the physician; therefore, the total cost is \$3,741,544.

Burden hours: 1,189,683 exposures x 0.1 hours = 118,968 hours
Costs: 118,968 hours x \$31.45 = \$3,741,544

(8) Healthcare professionals written opinion **Burden hours: 118,968**

The standard requires the employer to 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. We have determined the hours by multiplying the number of exposure incidents (1,189,683) by 6 minutes. OSHA assumes a clerk earning \$31.45 will provide the information to the physician; therefore, the total cost is \$3,741,544.

Burden hours: 1,189,683 exposures x 0.1 hours = 118,968 hours
Costs: 118,968 hours x \$31.45 = \$3,741,544

F. Communication of hazards to employees

(1) Labels and signs (§ 1910.1030(e)(2)(ii) and (g)(1)(i) and (g)(1)(ii)) **Burden hours: 0**

Paragraph (e)(2)(ii) requires that HIV and HBV research laboratories and production facilities that send contaminated materials to a site away from the work area, place the materials in a durable, leak proof container that is labeled or color coded. When infectious materials or infected animals are in the work area, a hazard warning sign, with the universal biohazard symbol, must be posted on all access doors. Paragraph (g)(1)(ii) requires the sign contain the biohazard symbol, the word "biohazard", the name of the infectious agent, special requirements for entering the area, and the name and telephone number of the laboratory director or other responsible person. They must be fluorescent orange-red or predominantly so, with lettering and symbol in a contrasting color. Since these signs have been permanently mounted there is no

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additional burden.

Paragraph (g)(1)(i) requires that employers place warning labels on containers of regulated waste, refrigerators and freezers containing blood or other potentially infectious material; and other containers used to store, transport or ship blood or other potentially infectious materials, except as provided in paragraph (g)(1)(i)(E), (F) and (G). The requirements for the color of the labels are identical for those for the signs except that red bags or red containers may be substituted for labeled containers for regulated wastes. There are no burden hours unique for labeling since containers used to transport or store blood or regulated wastes are now manufactured and widely available with labels and symbols already affixed to them.

G. Recordkeeping (§ 1910.1030(h)(1)-(4))

Total hours: 2,274,081

(1) Medical Records

Burden hours: 1,904,572

The Standard requires the employer to maintain medical surveillance records for each employee in accordance with 29 CFR 1910.1020. These confidential records must contain the employee's name, a copy of each employee's hepatitis B vaccination record, the circumstances of any occupational exposure incident, results of medical testing as they relate to the employee's ability to receive vaccination or post exposure evaluation following an exposure incident; a copy of the physician's written opinion; and a copy of the information provided to the physician. The records must be maintained for at least the duration of each employee's period of employment plus 30 years. The time required for medical recordkeeping is based on the need to establish medical records for new hires and to update existing medical records for current employees. The assumptions and breakdown by facility type are found in Table 16 in the supporting tables to this document.

Burden hours: 9,322,563 medical records x 0.2 hours = 1,904,572 hours

Costs: 1,904,572 hours x \$31.45 = \$59,898,788

(2) Training Records

Burden hours: 335,443

The Standard requires the employer to maintain training records. These records must contain the following information: the dates of the training sessions; the contents or a summary of the contents of the training sessions; the names and qualifications of persons conducting the training; and the names and job titles of all persons attending the training. These records do not have to be individual records kept in each employee's personnel folder but can be created and maintained for each training session that may provide training for many employees. These records must be maintained for 3 years. The

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assumptions and breakdown by facility type are found in Table 17 in the supporting tables to this document. OSHA assumes a clerk earning \$31.45 will take 1 minute (0.02 hours) to maintain the training records.

Burden hours: 20,126,706 training records x 0.02 hours = 335,443 hours
Costs: 335,443 hours x \$31.45 = \$10,549,683

(3) Employee Access

Burden hours: 1,983

The Standard requires that employee medical records also be made available to anyone having the written consent of the employee. OSHA assumes that the records that will be requested by 2% of employees who have had an exposure incident, and that it would take a clerical, earning \$31.45 per hour 5 minutes (0.08 hour) to provide access. The calculation of burden hours is based on number of exposures per year (1,189,683) x 2% x 0.08 hours.

Burden hours: 23,794 employees x 0.08 hours = 335,443 hours
Costs: 335,443 hours x \$31.45 = \$10,549,683

(4) Sharps Injury Log

Burden hours: 32,083

Employers who are required to maintain an occupational injuries and illness log under 29 CFR 1904 must establish and maintain a sharps injury log for the recording of percutaneous injuries from contaminated sharps. The information in the sharps injury log must be recorded and maintained in a manner as to protect the confidentiality of the injured employee. The sharps injury log must contain the following: (A) the type and brand of device involved in the incident, (B) the department or work area where the exposure incident occurred, and (C) an explanation of how the incident occurred.

The burden hours and costs attributable to the log are based on the number of needlestick and sharp injuries and the time to record the required information. OSHA estimates there are 385,000 needlestick and sharps injuries annually⁸, and it takes a staff member with a skill level of a Personnel Training and Labor Relations Specialist, with an hourly wage

⁸ OSHA uses the estimated number of annual needlestick and sharps injuries from the Recording and Reporting Occupational Injuries and Illnesses Final Rule (OSHA, 2016).

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rate of \$60.84, five minutes (0.08 hour) to collect the data and enter it onto a separate log.

The format of the sharps injury log is not specified. The employer is permitted to determine the format in which the log is maintained (e.g. paper or electronic), and may include information in addition to that required by the standard, so long as the privacy of the injured workers is protected. Many employers already compile reports of percutaneous exposure incidents in a variety of ways. Existing mechanisms for collecting this information will be considered sufficient to meet the requirements of the standard for maintaining a sharps injury log, provided that the information gathered meets the minimum requirements specified in the standard, and the confidentiality of the injured employee is protected.

Burden hours: 385,000 cases x 0.08 hour = 32,083 hours

Cost: 32,083 hours x \$60.84 = \$1,951,930.

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Table D - Estimated Annualized Respondent Hour and Cost Burden								
Information Collection Requirement	Type of Respondents	No. of Respondents	Responses per Respondent	Total Responses	Time per Response (in Hours)	Burden Hours	Loaded Hourly Wage 9	Burden Cost
<i>A. Exposure Control Plan</i>								
(1) Exposure control plan (§1910.1030 (c)(1)-(2)) (Table 1)	Employer	793,728	1	793,728	2.06	1,633,734	\$65.34	\$106,748,180
(2) Documentation required by the Needlestick Prevention Act	Employer	469,981	1	469,981	0.25	117,495	\$82.19	\$9,656,914
(3) Employee Solicitation (c)(1)(v)	Employer	469,981	1	469,981	0.25	117,495	\$82.19	\$9,656,914
(4) Employee Response (c)(1)(v)	Employee	17,713,500	0.33	5,845,455	0.25	1,461,364	\$47.07	\$68,786,403
Subtotal (A.)				7,579,145		3,330,088		\$194,848,411
<i>E. Hepatitis B Vaccine; Post exposure follow-up (1910.1030(f))</i>								
(1) Hepatitis B Vaccination								

9 For Tables using various wage rates, for this Table, the Wage Rate was determined by dividing the total burden hours into the total cost

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Table D - Estimated Annualized Respondent Hour and Cost Burden								
Information Collection Requirement	Type of Respondents	No. of Respondents	Responses per Respondent	Total Responses	Time per Response (in Hours)	Burden Hours	Loaded Hourly Wage 9	Burden Cost
Table 2	Employee	16,975,449	0.039	656,339	1.26	828,193	\$60.84	\$50,386,226
Table 3a	Healthcare Professional (HCP)	16,765,034	0.018	309,328	0.47	143,931	\$65.34	\$9,404,453
(2) Antibody testing of source individuals								
Table 4-1a	HCP	594,842	0.803	477,696	0.08	39,808	\$65.34	\$2,601,056
Table 4-2a	Employee	594,842	0.107	63,804	0.08	5,317	\$59.44	\$316,044
(3) HBV antibody testing								
Table 5	Employee	1,189,683	0.045	53,119	0.21	11,402	\$69.26	\$789,731
Table 6a	HCP	1,189,683	0.034	40,800	0.08	3,400	\$65.34	\$222,153
Table 7	Employee	1,189,683	0.005	5,775	0.28	1,617	\$66.26	\$107,147
Table 8a	HCP	1,189,683	0.003	3,384	0.08	282	\$65.34	\$18,427
Table 9	Employee	1,189,683	0.000	49	0.20	10	\$47.00	\$470
Table 10a	HCP	1,189,683	0.000	36	0.08	3	\$71.33	\$214
Table 11	Employee	1,189,683	0.001	1,260	0.27	335	\$54.00	\$18,091
Table 12a	HCP	1,189,683	0.001	780	0.08	65	\$65.31	\$4,245
(4) HIV serologic testing and post exposure prophylaxis (PEP)								

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Table D - Estimated Annualized Respondent Hour and Cost Burden								
Information Collection Requirement	Type of Respondents	No. of Respondents	Responses per Respondent	Total Responses	Time per Response (in Hours)	Burden Hours	Loaded Hourly Wage 9	Burden Cost
for exposed workers								
Table 13	Employee	1,189,683	1.087	1,293,193	0.22	280,022	\$47.07	\$13,180,638
Table 14a	HCP	1,189,683	0.138	164,238	0.50	82,119	\$65.34	\$5,365,656
(5) Post-exposure prophylaxis (PEP)	HCP	5,775	1	5,775	2.00	11,550	\$65.34	\$754,677
(6) Counseling for exposed workers (Table 15)	Employee and HCP	1,189,683	0.810	964,062	0.64	619,983	\$53.95	\$33,451,182
(7) Information provided to healthcare professionals	Clerical	1,189,683	1	1,189,683	0.10	118,968	\$31.45	\$3,741,544
(8) HCP written opinion	Clerical	1,189,683	1	1,189,683	0.10	118,968	\$31.45	\$3,741,544
Subtotal (E.)				6,419,004		2,265,973		\$124,103,498
<i>G. Recordkeeping (1910.1030 (h)(1)-(h)(4))</i>								
(1) Medical Records (Table 16)	Clerical	16,975,449	0.549	9,322,563	0.20	1,904,572	\$31.45	\$59,898,788
(2) Training Records (Table 17)	Clerical	16,975,449	1.186	20,126,706	0.02	335,443	\$31.45	\$10,549,683

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Table D - Estimated Annualized Respondent Hour and Cost Burden								
Information Collection Requirement	Type of Respondents	No. of Respondents	Responses per Respondent	Total Responses	Time per Response (in Hours)	Burden Hours	Loaded Hourly Wage 9	Burden Cost
(3) Employee Access	Employee	1,189,683	0.020	23,794	0.08	1,983	\$31.45	\$62,365
(4) Sharps Injury Log	Employer	385,000	1	385,000	0.08	32,083	\$60.84	\$1,951,930
Subtotal (G.)				29,858,063		2,274,081		\$72,462,766
Grand Total				43,856,212		7,870,142		\$391,414,675

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13. Provide an estimate of the total annual cost burden to respondents or recordkeepers resulting from the collection of information. (Do not include the cost of any hour burden shown in Items 12 and 14).

- **The cost estimate should be split into two components: (a) a total capital and start-up cost component (annualized over its expected useful life); and (b) a total operation and maintenance and purchase of services component. The estimates should take into account costs associated with generating, maintaining, and disclosing or providing the information. Include descriptions of methods used to estimate major cost factors including system and technology acquisition, expected useful life of capital equipment, the discount rate(s), and the time period over which costs will be incurred. Capital and start-up costs include, among other items, preparations for collecting information such as purchasing computers and software; monitoring, sampling, drilling and testing equipment; and record storage facilities.**
- **If cost estimates are expected to vary widely, agencies should present ranges of cost burdens and explain the reasons for the variance. The cost of purchasing or contracting out information collection services should be a part of this cost burden estimate. In developing cost burden estimates, agencies may consult with a sample of respondents (fewer than 10), utilize the 60-day pre-OMB submission public comment process and use existing economic or regulatory impact analysis associated with the rulemaking containing the information collection, as appropriate.**
- **Generally, estimates should not include purchases of equipment or services, or portions thereof, made: (1) prior to October 1, 1995, (2) to achieve regulatory compliance with requirements not associated with the information collection, (3) for reasons other than to provide information or keep records for the government, or (4) as part of customary and usual business or private practices.**

Certain employers will incur costs for the various medical requirements contained in the Standard. The costs to respondents are reflected in Tables 3b, 4-1b, 4-2b, 6b, 8b, 10b, 12b, and 14b. The table below summarizes these costs.

In addition, employers will incur the cost of providing post exposure prophylaxis (PEP) to employees who have had occupational exposure to blood, and other body fluids, that may contain HIV.

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There are a host of drugs that can be prescribed by the doctors depending on the employee's personal health and drug tolerance. Since the costs of these drugs can vary significantly, the agency based the cost estimate on the most frequently used drugs.¹⁰

OSHA estimates it costs \$3,611.01 per employee to provide the 4-week PEP. For purposes of estimating costs, OSHA assumes each employee will receive an expanded regimen which consists of Combivir and a protease inhibitor. OSHA estimates one tablet of Combivir costs \$11.72 which must be taken twice a day for 28 days resulting in a cost of \$656.32. One tablet of a protease inhibitor costs \$11.72. Three tablets must be taken three times a day for 28 days, costing \$984.48. OSHA estimated that 5,775 employees may be provided PEP at a cost of \$3,611.01 per employee, totaling \$20,853,583. Total costs to respondents equal **\$116,568,859**.

Table E - Change in Costs		
Medical Provision	Existing Costs	Estimated Costs
Hepatitis B Vaccination (Table 3b)	\$11,537,090	\$54,067,315
HIV Testing - (Table 4-1b)	\$2,623,678	\$11,195,532
HBV Source Testing - (Table 4-2b)	\$1,201,382	\$1,922,213
HBV Antibody Testing for Vaccinated Workers (Table 6b)	\$371,183	\$853,720
HBV Antibody Testing for Non Vaccinated Workers (Table 8b)	\$70,859	\$162,976
Hepatitis B Immune Globulin Vaccinated Workers (Table 10b)	\$2,780	\$3,313
Hepatitis B Immune Globulin Non Vaccinated Workers (Table 12b)	\$99,019	\$118,018
HIV Antibody Tests (Table 14b)	\$6,155,548	\$27,392,189
PEP to Employees	\$30,366,060	\$20,853,583
Total	\$52,427,598	\$116,568,859

- 14. Provide estimates of annualized cost to the Federal government. Also, provide a description of the method used to estimate cost, which should include quantification of hours, operational expenses (such as equipment, overhead, printing, and support staff), and any other expense that would not have been incurred without this collection of information. Agencies also may aggregate cost estimates from Items 12, 13, and 14 in a single table.**

The agency has no annualized cost associated with enforcing the Standard. OSHA would only review records in the context of an investigation of a particular employer to determine compliance with the Standard. These activities are outside the scope of the PRA. See 5 CFR

¹⁰ National Clinician's Postexposure Hotline, U.S. Department of Health and Human Services, Centers for Disease Control and Prevention (CDC).

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1320.4(a)(2).

15. Explain the reasons for any program changes or adjustments.

The agency is requesting an adjustment increase of 2,142,213 burden hours (from 5,727,929 to 7,870,142). This increase is a result of updated data showing an increase in the number of facilities (from 701,563 to 793,728) and employees (from 8,425,607 to 16,975,449) affected by the Standard. See Table F.

The operation and maintenance cost increase of \$64,141,261 from \$52,427,598 to \$116,568,859 due to an increase in the number of employees receiving vaccines and HIV testing. Also, the medical costs for vaccines and HIV testing went up.

16. For collections of information whose results will be published, outline plans for tabulation, and publication. Address any complex analytical techniques that will be used. Provide the time schedule for the entire project, including beginning and ending dates of the collection of information, completion of report, publication dates, and other actions.

OSHA will not publish the information collected under the Standard.

17. If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be inappropriate.

OSHA lists current valid control numbers in §§ 1910.8, 1915.8, 1917.4, 1918.4, and 1926.5 and publishes the expiration date in the Federal Register notice announcing OMB approval of the information-collection requirement. (See 5 CFR 1320.3(f)(3).) OSHA believes that this is the most appropriate and accurate mechanism to inform interested parties of these expiration dates.

18. Explain each exception to the certification statement.

OSHA is not seeking an exception to the certification statement.

B. COLLECTIONS OF INFORMATION EMPLOYING STATISTICAL METHODS.

This Supporting Statement does not contain any information collection requirements that employ statistical methods.

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Table F

Collection of Information	Existing Burden Hours	Requested Burden Hours	Reason for adjustment in Burden Hours
(A) Exposure control plan			
(1) Written Plan (<i>Table 1</i>)	1,444,562	1,633,734	Change in affected employers.
(2) Documentation required by the Needlestick Prevention Act	112,129	117,495	Change in affected employers.
(3) Employee Solicitation	112,129	117,495	Change in affected employers.
(4) Employee Response	1,178,132	1,461,364	Change in affected employers.
(B) Housekeeping	0	0	No change.
(C) Laundry	0	0	No change.
(D) HIV/HBV research laboratories and production facilities.	0	0	No change.
(E) Hepatitis B Vaccination and post-exposure evaluation and follow-up			
(1) Hepatitis B Vaccination <i>Table 2 (Employee time)</i>	271,149	828,193	Change in affected employers.
<i>Table 3 (Healthcare Professional Time)</i>	124,272	143,931	Change in affected employers.
(2) Antibody Testing Source Individuals <i>Table 4 HIV Source Testing (Healthcare Professional Time)</i>	39,650	39,808	Difference due to revision in rounding methodology.
<i>Table 4 Cont'd HBV Source Testing</i>	5,311	5,317	Difference due to revision in rounding methodology.
(3) HBV Antibody Testing for workers <i>Table 5 HBV Antibody Testing for Vaccinated Worker (Employee Time)</i>	11,402	11,402	Difference due to revision in rounding methodology.
<i>Table 6 HBV Testing for Vaccinated Workers (Healthcare Professional Time)</i>	3,384	3,400	Difference due to revision in rounding methodology.

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Collection of Information	Existing Burden Hours	Requested Burden Hours	Reason for adjustment in Burden Hours
<i>Table 7 HBV Antibody Testing for Non-Vaccinated Workers (Employee Time)</i>	1,617	1,617	Difference due to revision in rounding methodology.
<i>Table 8 HBV Antibody Testing for Non-vaccinated Workers (Healthcare Professional Time)</i>	284	282	Difference due to revision in rounding methodology.
<i>Table 9 Hepatitis B Immune Globulin (HBIG) Vaccinated Workers (Employee Time)</i>	12	10	Difference due to revision in rounding methodology.
<i>Table 10 HBIG: Vaccinated Workers (Healthcare Professional Time)</i>	4	3	Difference due to revision in rounding methodology.
<i>Table 11 HBIG Non Vaccinated Workers (Employee Time)</i>	336	335	Difference due to revision in rounding methodology.
<i>Table 12: HBIG Non-vaccinated Workers (Healthcare Professional Time)</i>	66	65	Difference due to revision in rounding methodology.
(4) HIV serologic testing and Post-exposure prophylaxis (PEP) exposed workers	17,846	11,550	Change in estimate of number of needlestick and sharp injuries.
<i>Table 13 HIV Antibody Tests (Employee Time)</i>	280,023	280,022	Difference due to revision in rounding methodology.
<i>Table 14 HIV Antibody Tests (Healthcare Professional Time)</i>	82,790	82,119	Difference due to revision in rounding methodology.
	619,987	619,983	

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Collection of Information	Existing Burden Hours	Requested Burden Hours	Reason for adjustment in Burden Hours
(5) Counseling for exposed Workers (Table 15)			Difference due to revision in rounding methodology.
(6) Information provided to the healthcare professional	118,968	118,968	Difference due to revision in rounding methodology.
(7) Healthcare professional's written opinion	118,968	118,968	Difference due to revision in rounding methodology.
(F) Communication of hazards to employees			
(1) Labels and signs	0	0	No change.
(2) Information and Training	0	0	No change.
(G) Recordkeeping			
(1) Medical records (Table 18: Medical records)	973,437	1,904,572	Change in affected employers.
(2) Training Records (Table 19: Updating or creating training records)	163,357	335,443	Change in affected employers.
(3) Employee access	1,904	1,983	Difference due to correction in previous ICR.
(4) Sharps injury log	47,213	32,083	Difference due to correction in previous ICR.
TOTALS	5,727,929	7,870,142	

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Appendix

Table 1 - Exposure Control Plan						
Sector	Establishments	Hours per Facility	Burden Hours	Wage	Costs	Responses
	a	B	c = a x b	d	e = c x d	f = a
Offices of Physicians	210,756	2	421,512	\$65.34	\$27,541,594	210,756
Offices of Dentists	136,140	2	272,280	\$65.34	\$17,790,775	136,140
Nursing Homes	21,685	2	43,370	\$65.34	\$2,833,796	21,685
Hospitals	7,713	8	61,704	\$65.34	\$4,031,739	7,713
Medical and Dental Labs	24,738	2	49,476	\$65.34	\$3,232,762	24,738
Home Health Care	12,909	2	25,818	\$65.34	\$1,686,948	12,909
Hospices	9,621	2	19,242	\$65.34	\$1,257,272	9,621
Hemodialysis	8,449	2	16,898	\$65.34	\$1,104,115	8,449
Drug Rehabilitation	15,901	2	31,802	\$65.34	\$2,077,943	15,901
Government Clinics	5,532	2	11,064	\$65.34	\$722,922	5,532
Blood/Plasma/Tissue Centers	2,042	2	4,084	\$65.34	\$266,849	2,042
Residential Care	14,495	2	28,990	\$65.34	\$1,894,207	14,495
Personnel Services	43,527	2	87,054	\$65.34	\$5,688,108	43,527
Funeral Services	20,492	2	40,984	\$65.34	\$2,677,895	20,492
Health Units in Industry	202,540	2	405,080	\$65.34	\$26,467,927	202,540
Research Labs	22,180	2	44,360	\$65.34	\$2,898,482	22,180
Linen Services	1,488	2	2,976	\$65.34	\$194,452	1,488
Medical Equipment Repair	6,788	2	13,576	\$65.34	\$887,056	6,788
Law Enforcement	7,735	2	15,470	\$65.34	\$1,010,810	7,735
Fire and Rescue	5,498	2	10,996	\$65.34	\$718,479	5,498
Correctional Facilities	4,901	2	9,802	\$65.34	\$640,463	4,901
Lifesaving	2,019	2	4,038	\$65.34	\$263,843	2,019
Schools	1,657	2	3,314	\$65.34	\$216,537	1,657
Waste Removal	4,922	2	9,844	\$65.34	\$643,207	4,922
Totals	793,728		1,633,734		\$106,748,181	793,728

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Table 2 - Hepatitis B Vaccination (Employee Time)

Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Offices of Physicians										
Offices of Physicians	A	1,202,278	57.0%	52.0%	0.63	6.90%	15,573	\$71.35	\$1,111,134	24,589
Offices of Physicians	C	8,659	67.0%	33.0%	0.38	9.80%	72	\$25.35	\$1,825	188
Offices of Physicians	D	86,584	37.0%	65.0%	0.38	12.90%	1,030	\$32.65	\$33,630	2,687
Offices of Dentists										
Offices of Dentists	A	488,825	33.0%	75.0%	0.63	1.60%	1,226	\$71.35	\$87,475	1,936
Offices of Dentists	C	4,685	80.0%	30.0%	0.38	9.80%	42	\$25.35	\$1,065	110
Nursing Homes										
Nursing Homes	A	693,606	57.0%	50.0%	0.95	24.80%	46,777	\$71.35	\$3,337,539	49,024
Nursing Homes	C	44,749	67.0%	50.0%	0.70	9.80%	1,034	\$25.35	\$26,212	1,468
Nursing Homes	D	7,458	37.0%	50.0%	0.70	9.80%	95	\$32.65	\$3,102	135
Hospitals										
Hospitals	A	2,639,234	54.0%	57.0%	0.63	14.70%	75,630	\$71.35	\$5,396,201	119,416
Hospitals	B	225,504	54.0%	57.0%	0.63	12.90%	5,671	\$37.59	\$213,173	8,954
Hospitals	C	350,784	69.0%	44.0%	0.38	9.80%	4,001	\$25.35	\$101,425	10,437
Medical and Dental Labs										
Medical and Dental Labs	A	291,588	58.0%	64.0%	0.63	12.90%	8,843	\$71.35	\$630,948	13,963
Medical and Dental Labs	C	2,245	88.0%	30.0%	0.38	9.80%	22	\$25.35	\$558	57
Medical and Dental Labs	D	253,174	100.0%	30.0%	0.38	9.80%	2,853	\$32.65	\$93,150	7,443
Home Health Care										
Home Health Care	A	386,457	77.0%	38.0%	0.63	22.30%	15,970	\$71.35	\$1,139,460	25,216
Home Health Care	C	5,713	100.0%	30.0%	0.38	9.80%	64	\$25.35	\$1,622	167
Home Health Care	D	11,996	88.0%	82.0%	0.38	22.50%	747	\$32.65	\$24,390	1,949
Hospices										

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Table 2 - Hepatitis B Vaccination (Employee Time)

Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Hospices	A	156,138	77.0%	46.0%	0.63	22.50%	7,881	\$71.35	\$562,309	12,444
Hospices	C	2,276	37.0%	50.0%	0.38	9.80%	16	\$25.35	\$406	42
Hospices	D	399	100.0%	30.0%	0.38	22.50%	10	\$32.65	\$327	26
Hemodialysis										
Hemodialysis	A	107,266	33.0%	77.0%	0.63	15.40%	2,658	\$71.35	\$189,648	4,197
Hemodialysis	C	1,880	69.0%	54.0%	0.38	22.50%	60	\$25.35	\$1,521	157
Hemodialysis	D	4,970	48.0%	60.0%	0.38	12.90%	71	\$32.65	\$2,318	185
Drug Rehabilitation										
Drug Rehabilitation	A	129,666	49.0%	56.0%	0.63	15.40%	3,470	\$71.35	\$247,585	5,479
Drug Rehabilitation	C	3,184	35.0%	100.0%	0.38	22.50%	96	\$25.35	\$2,434	250
Drug Rehabilitation	D	10,814	100.0%	30.0%	0.38	12.90%	160	\$32.65	\$5,224	417
Government Clinics										
Government Clinics	A	26,487	57.0%	52.0%	0.63	13.50%	671	\$71.35	\$47,876	1,059
Government Clinics	C	193	67.0%	33.0%	0.38	9.80%	2	\$25.35	\$51	5
Government Clinics	D	1,934	37.0%	65.0%	0.38	12.90%	23	\$32.65	\$751	60
Blood/Plasma/Tissue Centers										
Blood/Plasma/Tissue Centers	A	50,905	60.0%	42.0%	0.63	12.90%	1,048	\$71.35	\$74,775	1,655
Blood/Plasma/Tissue Centers	C	559	80.0%	30.0%	0.38	9.80%	5	\$25.35	\$127	13
Blood/Plasma/Tissue Centers	D	1,091	51.0%	44.0%	0.38	22.50%	21	\$32.65	\$686	55
Residential Care										
Residential Care	A	80,450	73.0%	50.0%	0.95	24.30%	6,808	\$71.35	\$485,751	7,135
Residential Care	C	2,221	100.0%	50.0%	0.70	9.80%	77	\$25.35	\$1,952	109
Residential Care	D	13,183	42.0%	50.0%	0.70	9.80%	191	\$32.65	\$6,236	271
Personnel Services										
Personnel Services	A	1,982,190	88.0%	30.0%	1.92	8.70%	87,260	\$71.35	\$6,226,001	45,527

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Table 2 - Hepatitis B Vaccination (Employee Time)

Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Personnel Services	D	3,296,492	100.0%	30.0%	1.67	9.80%	161,528	\$32.65	\$5,273,889	96,917
Funeral Services										
Funeral Services	A	52,599	65.0%	49.0%	1.92	12.90%	4,142	\$71.35	\$295,532	2,161
Funeral Services	C	2,803	100.0%	50.0%	1.67	9.80%	229	\$25.35	\$5,805	137
Funeral Services	D	3,336	100.0%	30.0%	1.67	9.80%	163	\$32.65	\$5,322	98
Health Units in Industry										
Health Units in Industry	A	34,184	70.0%	43.0%	1.92	19.50%	3,846	\$71.35	\$274,412	2,007
Health Units in Industry	B	141,051	83.0%	30.0%	1.92	9.80%	6,597	\$37.59	\$247,981	3,442
Health Units in Industry	D	3,497	30.0%	30.0%	1.67	12.90%	68	\$32.65	\$2,220	41
Research Labs										
Research Labs	A	1,335,441	54.0%	65.0%	1.92	12.90%	115,896	\$71.35	\$8,269,180	60,467
Research Labs	C	20,073	79.0%	31.0%	1.67	9.80%	803	\$25.35	\$20,356	482
Research Labs	D	5,373	54.0%	65.0%	1.67	12.90%	405	\$32.65	\$13,223	243
Linen Services										
Linen Services	D	59,520	100.0%	30.0%	1.67	9.80%	2,916	\$32.65	\$95,207	1,750
Medical Equipment Repair										
Medical Equipment Repair	A	2,984	84.0%	30.0%	1.92	22.50%	324	\$71.35	\$23,117	169
Medical Equipment Repair	B	1,262	90.0%	30.0%	1.92	12.90%	84	\$37.59	\$3,158	44
Medical Equipment Repair	C	32,502	92.0%	30.0%	1.67	12.90%	1,929	\$25.35	\$48,900	1,157
Medical Equipment Repair	D	2,271	100.0%	30.0%	1.67	22.50%	255	\$32.65	\$8,326	153
Law Enforcement										
Law Enforcement	A	479,753	83.0%	30.0%	0.63	7.80%	5,901	\$71.35	\$421,036	9,317
Law Enforcement	B	1,778	47.0%	83.0%	0.63	9.80%	43	\$37.59	\$1,616	68
Law Enforcement	C	4,093	98.0%	30.0%	0.38	7.80%	36	\$25.35	\$913	94
Law Enforcement	D	48,515	77.0%	30.0%	0.38	12.90%	554	\$32.65	\$18,088	1,445

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Table 2 - Hepatitis B Vaccination (Employee Time)

Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Fire and Rescue										
Fire and Rescue	A	197,239	34.0%	68.0%	1.92	12.90%	11,275	\$71.35	\$804,471	5,883
Fire and Rescue	B	236,293	44.0%	69.0%	1.92	22.50%	30,937	\$37.59	\$1,162,922	16,141
Fire and Rescue	D	3,066	31.0%	73.0%	1.67	7.80%	90	\$32.65	\$2,939	54
Correctional Facilities										
Correctional Facilities	A	21,676	79.0%	42.0%	0.63	19.50%	888	\$71.35	\$63,359	1,402
Correctional Facilities	B	214,359	97.0%	30.0%	0.63	12.90%	5,096	\$37.59	\$191,559	8,046
Correctional Facilities	C	18,810	90.0%	30.0%	0.38	17.70%	345	\$25.35	\$8,746	900
Correctional Facilities	D	56,089	98.0%	30.0%	0.38	7.80%	493	\$32.65	\$16,096	1,286
Lifesaving										
Lifesaving	A	100,950	75.0%	68.0%	1.92	12.90%	12,730	\$71.35	\$908,286	6,642
Schools										
Schools	A	6,164	100.0%	30.0%	1.92	15.00%	532	\$71.35	\$37,958	278
Schools	D	4,679	100.0%	30.0%	1.67	22.50%	526	\$32.65	\$17,174	316
Waste Removal										
Waste Removal	A	1,309,252	100.0%	30.0%	1.92	22.50%	169,384	\$71.35	\$12,085,548	88,374
Total		16,975,449					828,193		\$50,386,226	656,339

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Table 3a - Hepatitis B Vaccination (Healthcare Professional Time)										
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Offices of Physicians										
Offices of Physicians	A	1,202,278	57.00%	52.00%	0.50	6.90%	12,294	\$65.34	\$803,290	24,588
Offices of Physicians	C	8,659	67.00%	33.00%	0.25	9.80%	47	\$65.34	\$3,071	188
Offices of Physicians	D	86,584	37.00%	65.00%	0.25	12.90%	672	\$65.34	\$43,908	2,688
Offices of Dentists										
Offices of Dentists	A	488,825	33.00%	75.00%	0.50	1.60%	968	\$65.34	\$63,249	1,936
Offices of Dentists	C	4,685	80.00%	30.00%	0.25	9.80%	28	\$65.34	\$1,830	112
Nursing Homes										
Nursing Homes	A	520,205	57.00%	50.00%	0.50	24.80%	18,384	\$65.34	\$1,201,211	36,768
Nursing Homes	C	33,562	67.00%	50.00%	0.25	9.80%	275	\$65.34	\$17,969	1,100
Nursing Homes	D	5,594	37.00%	50.00%	0.25	9.80%	25	\$65.34	\$1,634	100
Hospitals										
Hospitals	A	2,639,234	54.00%	57.00%	0.50	14.70%	59,708	\$65.34	\$3,901,321	119,416
Hospitals	B	225,504	54.00%	57.00%	0.50	12.90%	4,477	\$65.34	\$292,527	8,954
Hospitals	C	350,784	69.00%	44.00%	0.25	9.80%	2,609	\$65.34	\$170,472	10,436
Medical and Dental Labs										
Medical and Dental Labs	A	291,588	58.00%	64.00%	0.50	12.90%	6,981	\$65.34	\$456,139	13,962
Medical and Dental Labs	C	2,245	88.00%	30.00%	0.25	9.80%	15	\$65.34	\$980	60
Medical and Dental Labs	D	253,174	100.00%	30.00%	0.25	9.80%	1,861	\$65.34	\$121,598	7,444
Home Health Care										
Home Health Care	A	386,457	77.00%	38.00%	0.50	22.30%	12,608	\$65.34	\$823,807	25,216
Home Health Care	C	5,713	100.00%	30.00%	0.25	9.80%	42	\$65.34	\$2,744	168
Home Health Care	D	11,996	88.00%	82.00%	0.25	22.50%	487	\$65.34	\$31,821	1,948
Hospices										
Hospices	A	156,138	77.00%	46.00%	0.50	22.50%	6,222	\$65.34	\$406,545	12,444

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Table 3a - Hepatitis B Vaccination (Healthcare Professional Time)										
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = \frac{a \times b}{c \times d \times e}$	g	$h = f \times g$	$i = f / d$
Hospices	C	2,276	37.00%	50.00%	0.25	9.80%	10	\$65.34	\$653	40
Hospices	D	399	100.00%	30.00%	0.25	22.50%	7	\$65.34	\$457	28
Hemodialysis										
Hemodialysis	A	107,266	33.00%	77.00%	0.50	15.40%	2,099	\$65.34	\$137,149	4,198
Hemodialysis	C	1,880	69.00%	54.00%	0.25	22.50%	39	\$65.34	\$2,548	156
Hemodialysis	D	4,970	48.00%	60.00%	0.25	12.90%	46	\$65.34	\$3,006	184
Drug Rehabilitation										
Drug Rehabilitation	A	129,666	49.00%	56.00%	0.50	15.40%	2,740	\$65.34	\$179,032	5,480
Drug Rehabilitation	C	3,184	35.00%	100.00%	0.25	22.50%	63	\$65.34	\$4,116	252
Drug Rehabilitation	D	10,814	100.00%	30.00%	0.25	12.90%	105	\$65.34	\$6,861	420
Government Clinics										
Government Clinics	A	26,487	57.00%	52.00%	0.50	13.50%	530	\$65.34	\$34,630	1,060
Government Clinics	C	193	67.00%	33.00%	0.25	9.80%	1	\$65.34	\$65	4
Government Clinics	D	1,934	37.00%	65.00%	0.25	12.90%	15	\$65.34	\$980	60
Blood/Plasma/Tissue Centers										
Blood/Plasma/Tissue Centers	A	50,905	60.00%	42.00%	0.50	12.90%	827	\$65.34	\$54,036	1,654
Blood/Plasma/Tissue Centers	C	559	80.00%	30.00%	0.25	9.80%	3	\$65.34	\$196	12
Blood/Plasma/Tissue Centers	D	1,091	51.00%	44.00%	0.25	22.50%	14	\$65.34	\$915	56
Residential Care										
Residential Care	A	60,338	73.00%	50.00%	0.25	24.30%	1,338	\$65.34	\$87,425	5,352
Residential Care	C	1,666	100.00%	50.00%	0.25	9.80%	20	\$65.34	\$1,307	80
Residential Care	D	9,887	42.00%	50.00%	0.25	9.80%	51	\$65.34	\$3,332	204
Personnel Services										
Personnel Services	A	1,982,190	88.00%	30.00%	0.00	8.70%	0	\$65.34	\$0	0
Personnel Services	D	3,296,492	100.00%	30.00%	0.00	9.80%	0	\$65.34	\$0	0

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Table 3a - Hepatitis B Vaccination (Healthcare Professional Time)										
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Funeral Services										
Funeral Services	A	52,599	65.00%	49.00%	0.00	12.90%	0	\$65.34	\$0	0
Funeral Services	C	2,803	100.00%	50.00%	0.00	9.80%	0	\$65.34	\$0	0
Funeral Services	D	3,336	100.00%	30.00%	0.00	9.80%	0	\$65.34	\$0	0
Health Units in Industry										
Health Units in Industry	A	34,184	70.00%	43.00%	0.00	19.50%	0	\$65.34	\$0	0
Health Units in Industry	B	141,051	83.00%	30.00%	0.00	9.80%	0	\$65.34	\$0	0
Health Units in Industry	D	3,497	30.00%	30.00%	0.00	12.90%	0	\$65.34	\$0	0
Research Labs										
Research Labs	A	1,335,441	54.00%	65.00%	0.00	12.90%	0	\$65.34	\$0	0
Research Labs	C	20,073	79.00%	31.00%	0.00	9.80%	0	\$65.34	\$0	0
Research Labs	D	5,373	54.00%	65.00%	0.00	12.90%	0	\$65.34	\$0	0
Linen Services										
Linen Services	D	59,520	100.00%	30.00%	0.00	9.80%	0	\$65.34	\$0	0
Medical Equipment Repair										
Medical Equipment Repair	A	2,984	84.00%	30.00%	0.00	22.50%	0	\$65.34	\$0	0
Medical Equipment Repair	B	1,262	90.00%	30.00%	0.00	12.90%	0	\$65.34	\$0	0
Medical Equipment Repair	C	32,502	92.00%	30.00%	0.00	12.90%	0	\$65.34	\$0	0
Medical Equipment Repair	D	2,271	100.00%	30.00%	0.00	22.50%	0	\$65.34	\$0	0
Law Enforcement										
Law Enforcement	A	479,753	83.00%	30.00%	0.50	7.80%	4,659	\$65.34	\$304,419	9,318
Law Enforcement	B	1,778	47.00%	83.00%	0.25	9.80%	17	\$65.34	\$1,111	68
Law Enforcement	C	4,093	98.00%	30.00%	0.25	7.80%	23	\$65.34	\$1,503	92
Law Enforcement	D	48,515	77.00%	30.00%	0.25	12.90%	361	\$65.34	\$23,588	1,444
Fire and Rescue										

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Table 3a - Hepatitis B Vaccination (Healthcare Professional Time)										
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Employee Time (Hours)	Occupational Turnover	Hours	Wage Rates	Cost	Responses
		a	b	c	d	e	$f = a \times b \times c \times d \times e$	g	$h = f \times g$	$i = f / d$
Fire and Rescue	A	197,239	34.00%	68.00%	0.00	12.90%	0	\$65.34	\$0	0
Fire and Rescue	B	236,293	44.00%	69.00%	0.00	22.50%	0	\$65.34	\$0	0
Fire and Rescue	D	3,066	31.00%	73.00%	0.00	7.80%	0	\$65.34	\$0	0
Correctional Facilities										
Correctional Facilities	A	21,676	79.00%	42.00%	0.50	19.50%	701	\$65.34	\$45,803	1,402
Correctional Facilities	B	214,359	97.00%	30.00%	0.25	12.90%	2,012	\$65.34	\$131,464	8,048
Correctional Facilities	C	18,810	90.00%	30.00%	0.25	17.70%	225	\$65.34	\$14,702	900
Correctional Facilities	D	56,089	98.00%	30.00%	0.25	7.80%	322	\$65.34	\$21,039	1,288
Lifesaving										
Lifesaving	A	100,950	75.00%	68.00%	0.00	12.90%	0	\$65.34	\$0	0
Schools										
Schools	A	6,164	100.00%	30.00%	0.00	15.00%	0	\$65.34	\$0	0
Schools	D	4,679	100.00%	30.00%	0.00	22.50%	0	\$65.34	\$0	0
Waste Removal										
Waste Removal	A	1,309,252	100.00%	30.00%	0.00	22.50%	0	\$65.34	\$0	0
Total		16,765,034					143,931		\$9,404,453	309,328

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Table 3b - Hepatitis B Vaccination (Item 13 Costs)							
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Unit Cost	Occupational Turnover	Cost
		a	b	c	d	e	f = a x b x c x d x e
Offices of Physicians							
Offices of Physicians	A	1,202,278	57.00%	52.00%	\$0.00	6.90%	\$0
Offices of Physicians	C	8,659	67.00%	33.00%	\$0.00	9.80%	\$0
Offices of Physicians	D	86,584	37.00%	65.00%	\$0.00	12.90%	\$0
Offices of Dentists							
Offices of Dentists	A	488,825	33.00%	75.00%	\$0.00	1.60%	\$0
Offices of Dentists	C	4,685	80.00%	30.00%	\$0.00	9.80%	\$0
Nursing Homes							
Nursing Homes	A	173,402	57.00%	50.00%	\$193.20	24.80%	\$2,367,820
Nursing Homes	C	11,187	67.00%	50.00%	\$126.20	9.80%	\$46,348
Nursing Homes	D	1,865	37.00%	50.00%	\$126.20	9.80%	\$4,267
Hospitals							
Hospitals	A	2,639,234	54.00%	57.00%	\$0.00	14.70%	\$0
Hospitals	B	225,504	54.00%	57.00%	\$0.00	12.90%	\$0
Hospitals	C	350,784	69.00%	44.00%	\$0.00	9.80%	\$0
Medical and Dental Labs							
Medical and Dental Labs	A	291,588	58.00%	64.00%	\$0.00	12.90%	\$0
Medical and Dental Labs	C	2,245	88.00%	30.00%	\$0.00	9.80%	\$0
Medical and Dental Labs	D	253,174	100.00%	30.00%	\$0.00	9.80%	\$0
Home Health Care							
Home Health Care	A	386,457	77.00%	38.00%	\$0.00	22.30%	\$0
Home Health Care	C	5,713	100.00%	30.00%	\$0.00	9.80%	\$0
Home Health Care	D	11,996	88.00%	82.00%	\$0.00	22.50%	\$0
Hospices							
Hospices	A	156,138	77.00%	46.00%	\$0.00	22.50%	\$0
Hospices	C	2,276	37.00%	50.00%	\$0.00	9.80%	\$0
Hospices	D	399	100.00%	30.00%	\$0.00	22.50%	\$0

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Table 3b - Hepatitis B Vaccination (Item 13 Costs)							
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Unit Cost	Occupational Turnover	Cost
		a	b	c	d	e	f = a x b x c x d x e
Hemodialysis							
Hemodialysis	A	107,266	33.00%	77.00%	\$0.00	15.40%	\$0
Hemodialysis	C	1,880	69.00%	54.00%	\$0.00	22.50%	\$0
Hemodialysis	D	4,970	48.00%	60.00%	\$0.00	12.90%	\$0
Drug Rehabilitation							
Drug Rehabilitation	A	129,666	49.00%	56.00%	\$0.00	15.40%	\$0
Drug Rehabilitation	C	3,184	35.00%	100.00%	\$0.00	22.50%	\$0
Drug Rehabilitation	D	10,814	100.00%	30.00%	\$0.00	12.90%	\$0
Government Clinics							
Government Clinics	A	26,487	57.00%	52.00%	\$0.00	13.50%	\$0
Government Clinics	C	193	67.00%	33.00%	\$0.00	9.80%	\$0
Government Clinics	D	1,934	37.00%	65.00%	\$0.00	12.90%	\$0
Blood/Plasma/Tissue Centers							
Blood/Plasma/Tissue Centers	A	50,905	60.00%	42.00%	\$0.00	12.90%	\$0
Blood/Plasma/Tissue Centers	C	559	80.00%	30.00%	\$0.00	9.80%	\$0
Blood/Plasma/Tissue Centers	D	1,091	51.00%	44.00%	\$0.00	22.50%	\$0
Residential Care							
Residential Care	A	20,113	73.00%	50.00%	\$193.20	24.30%	\$344,647
Residential Care	C	555	100.00%	50.00%	\$126.20	9.80%	\$3,432
Residential Care	D	3,296	42.00%	50.00%	\$126.20	9.80%	\$8,560
Personnel Services							
Personnel Services	A	1,982,190	88.00%	30.00%	\$193.20	8.70%	\$8,795,623
Personnel Services	D	3,296,492	100.00%	30.00%	\$126.20	9.80%	\$12,230,521
Funeral Services							
Funeral Services	A	52,599	65.00%	49.00%	\$193.20	12.90%	\$417,518
Funeral Services	C	2,803	100.00%	50.00%	\$126.20	9.80%	\$17,333
Funeral Services	D	3,336	100.00%	30.00%	\$126.20	9.80%	\$12,377

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Table 3b - Hepatitis B Vaccination (Item 13 Costs)							
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Unit Cost	Occupational Turnover	Cost
		a	b	c	d	e	f = a x b x c x d x e
Health Units in Industry							
Health Units in Industry	A	34,184	70.00%	43.00%	\$193.20	19.50%	\$387,634
Health Units in Industry	B	141,051	83.00%	30.00%	\$126.20	9.80%	\$434,357
Health Units in Industry	D	3,497	30.00%	30.00%	\$126.20	12.90%	\$5,124
Research Labs							
Research Labs	A	1,335,441	54.00%	65.00%	\$193.20	12.90%	\$11,682,066
Research Labs	C	20,073	79.00%	31.00%	\$126.20	9.80%	\$60,796
Research Labs	D	5,373	54.00%	65.00%	\$126.20	12.90%	\$30,701
Linen Services							
Linen Services	D	59,520	100.00%	30.00%	\$126.20	9.80%	\$220,829
Medical Equipment Repair							
Medical Equipment Repair	A	2,984	84.00%	30.00%	\$193.20	22.50%	\$32,687
Medical Equipment Repair	B	1,262	90.00%	30.00%	\$193.20	12.90%	\$8,492
Medical Equipment Repair	C	32,502	92.00%	30.00%	\$126.20	12.90%	\$146,034
Medical Equipment Repair	D	2,271	100.00%	30.00%	\$126.20	22.50%	\$19,345
Law Enforcement							
Law Enforcement	A	479,753	83.00%	30.00%	\$0.00	7.80%	\$0
Law Enforcement	B	1,778	47.00%	83.00%	\$0.00	9.80%	\$0
Law Enforcement	C	4,093	98.00%	30.00%	\$0.00	7.80%	\$0
Law Enforcement	D	48,515	77.00%	30.00%	\$0.00	12.90%	\$0
Fire and Rescue							
Fire and Rescue	A	197,239	34.00%	68.00%	\$193.20	12.90%	\$1,136,497
Fire and Rescue	B	236,293	44.00%	69.00%	\$193.20	22.50%	\$3,118,410
Fire and Rescue	D	3,066	31.00%	73.00%	\$126.20	7.80%	\$6,830
Correctional Facilities							
Correctional Facilities	A	21,676	79.00%	42.00%	\$0.00	19.50%	\$0
Correctional Facilities	B	214,359	97.00%	30.00%	\$0.00	12.90%	\$0

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Table 3b - Hepatitis B Vaccination (Item 13 Costs)							
Sector	Category	Employees	Non-Vaccination Rate	Employee Participation Rate	Unit Cost	Occupational Turnover	Cost
		a	b	c	d	e	f = a x b x c x d x e
Correctional Facilities	C	18,810	90.00%	30.00%	\$0.00	17.70%	\$0
Correctional Facilities	D	56,089	98.00%	30.00%	\$0.00	7.80%	\$0
Lifesaving							
Lifesaving	A	100,950	75.00%	68.00%	\$193.20	12.90%	\$1,283,111
Schools							
Schools	A	6,164	100.00%	30.00%	\$193.20	15.00%	\$53,589
Schools	D	4,679	100.00%	30.00%	\$126.20	22.50%	\$39,857
Waste Removal							
Waste Removal	A	1,309,252	100.00%	30.00%	\$126.20	22.50%	\$11,152,510
Total		16,344,200					\$54,067,315

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Table 4-1a - Antibody Testing of Source Individuals (Healthcare Professional Time, HIV)							
Sector	Exposures	Source Participation Rate	Unit Burden	Hours	Wage	Costs	Responses
	a	b	c	d = a x b x c	e	f = d x e	g = d / c
Offices of Physicians	179,493	50%	0.083	7,479	\$65.34	\$488,678	89,748
Offices of Dentists	322,560	50%	0.083	13,440	\$65.34	\$878,170	161,280
Nursing Homes	45,384	50%	0.083	1,891	\$65.34	\$123,558	22,692
Hospitals	319,827	50%	0.083	13,326	\$65.34	\$870,721	159,912
Medical and Dental Labs	5,664	50%	0.083	236	\$65.34	\$15,420	2,832
Home Health Care	8,819	50%	0.083	367	\$65.34	\$23,980	4,404
Hospices	899	50%	0.083	37	\$65.34	\$2,418	444
Hemodialysis	5,302	50%	0.083	221	\$65.34	\$14,440	2,652
Drug Rehabilitation	283	50%	0.083	12	\$65.34	\$784	144
Government Clinics	16,013	50%	0.083	667	\$65.34	\$43,582	8,004
Blood/Plasma/Tissue Centers	6,789	50%	0.083	283	\$65.34	\$18,491	3,396
Residential Care	7,809	50%	0.083	325	\$65.34	\$21,236	3,900
Personnel Services	2,993	50%	0	0	\$65.34	\$0	0
Funeral Services	11,735	50%	0	0	\$65.34	\$0	0
Health Units in Industry	186,835	50%	0	0	\$65.34	\$0	0
Research Labs	494	50%	0	0	\$65.34	\$0	0
Linen Services	3,000	50%	0	0	\$65.34	\$0	0
Medical Equipment Repair	2,625	50%	0	0	\$65.34	\$0	0
Law Enforcement	27,411	50%	0.083	1,142	\$65.34	\$74,618	13,704
Fire and Rescue	13,426	50%	0	0	\$65.34	\$0	0
Correctional Facilities	9,173	50%	0.083	382	\$65.34	\$24,960	4,584
Lifesaving	457	50%	0	0	\$65.34	\$0	0
Schools	12,642	50%	0	0	\$65.34	\$0	0
Waste Removal	50	50%	0	0	\$65.34	\$0	0
Totals	1,189,683			39,808		\$2,601,056	477,696

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Table 4-1b - Antibody Testing of Source Individuals (Item 13 Costs, HIV Testing)						
Sector	Exposures	Source Participation Rate	Unit Cost (HIV Antibody Test)	Unit Cost (Confirmatory Test)	Unit Burden (Confirmatory Test)	Costs
	a	b	c	d	e	f = a x b x (c + d x e)
Offices of Physicians	179,493	50%	\$0.00	\$0.00	0.000	\$0
Offices of Dentists	322,560	50%	\$0.00	\$0.00	0.000	\$0
Nursing Homes	45,384	50%	\$0.00	\$0.00	0.000	\$0
Hospitals	319,827	50%	\$0.00	\$0.00	0.000	\$0
Medical and Dental Labs	5,664	50%	\$0.00	\$0.00	0.000	\$0
Home Health Care	8,819	50%	\$0.00	\$0.00	0.000	\$0
Hospices	899	50%	\$0.00	\$0.00	0.000	\$0
Hemodialysis	5,302	50%	\$0.00	\$0.00	0.000	\$0
Drug Rehabilitation	283	50%	\$0.00	\$0.00	0.000	\$0
Government Clinics	16,013	50%	\$0.00	\$0.00	0.000	\$0
Blood/Plasma/Tissue Centers	6,789	50%	\$0.00	\$0.00	0.000	\$0
Residential Care	7,809	50%	\$0.00	\$0.00	0.000	\$0
Personnel Services	2,993	50%	\$89.00	\$79.00	0.083	\$143,040
Funeral Services	11,735	50%	\$89.00	\$79.00	0.083	\$560,835
Health Units in Industry	186,835	50%	\$89.00	\$79.00	0.083	\$8,929,156
Research Labs	494	50%	\$89.00	\$79.00	0.083	\$23,609
Linen Services	3,000	50%	\$89.00	\$79.00	0.083	\$143,375
Medical Equipment Repair	2,625	50%	\$89.00	\$79.00	0.083	\$125,453
Law Enforcement	27,411	50%	\$0.00	\$0.00	0.000	\$0
Fire and Rescue	13,426	50%	\$89.00	\$79.00	0.083	\$641,651
Correctional Facilities	9,173	50%	\$0.00	\$0.00	0.000	\$0
Lifesaving	457	50%	\$89.00	\$79.00	0.083	\$21,841
Schools	12,642	50%	\$89.00	\$79.00	0.083	\$604,182
Waste Removal	50	50%	\$89.00	\$79.00	0.083	\$2,390
Totals	1,189,683					\$11,195,532

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Table 4-2a - Antibody Testing of Source Individuals (Healthcare Professional Time, HBV)												
Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unite Burden	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	g	h	$i = a \times ((b \times c \times d) + ((1 - b) \times e)) \times f \times (1 - g)$	$j = h \times i$	$k = i / f$
Offices of Physicians												
Offices of Physicians	A	179,493	73.0%	10.0%	4.0%	50.0%	0.083	22.0%	\$71.35	1,592	\$113,589	19,104
Offices of Physicians	C	0	55.0%	10.0%	4.0%	50.0%	0.083	22.0%	\$25.35	0	\$0	0
Offices of Physicians	D	0	87.0%	10.0%	4.0%	50.0%	0.083	22.0%	\$32.65	0	\$0	0
Offices of Dentists												
Offices of Dentists	A	279,485	92.0%	10.0%	4.0%	50.0%	0.083	5.0%	\$71.35	926	\$66,070	11,112
Offices of Dentists	C	43,075	44.0%	10.0%	4.0%	50.0%	0.083	5.0%	\$25.35	958	\$24,285	11,496
Nursing Homes												
Nursing Homes	A	35,746	38.0%	10.0%	4.0%	50.0%	0.083	34.0%	\$71.35	611	\$43,595	7,332
Nursing Homes	C	5,002	31.0%	10.0%	4.0%	50.0%	0.083	34.0%	\$25.35	95	\$2,408	1,140
Nursing Homes	D	4,636	30.0%	10.0%	4.0%	50.0%	0.083	34.0%	\$32.65	89	\$2,906	1,068
Hospitals												
Hospitals	A	254,449	77.0%	10.0%	4.0%	50.0%	0.083	83.0%	\$71.35	420	\$29,967	5,040
Hospitals	B	34,579	77.0%	10.0%	4.0%	50.0%	0.083	83.0%	\$37.59	57	\$2,143	684
Hospitals	C	30,799	62.0%	10.0%	4.0%	50.0%	0.083	83.0%	\$25.35	83	\$2,104	996
Medical and Dental Labs												
Medical and Dental Labs	A	5,177	79.0%	10.0%	4.0%	50.0%	0.083	69.0%	\$71.35	14	\$999	168
Medical and Dental Labs	C	0	38.0%	10.0%	4.0%	50.0%	0.083	69.0%	\$25.35	0	\$0	0
Medical and Dental Labs	D	487	30.0%	10.0%	4.0%	50.0%	0.083	69.0%	\$32.65	4	\$131	48
Home Health Care												
Home Health Care	A	6,244	52.0%	10.0%	4.0%	50.0%	0.083	32.0%	\$71.35	85	\$6,065	1,020
Home Health Care	C	0	30.0%	10.0%	4.0%	50.0%	0.083	32.0%	\$25.35	0	\$0	0
Home Health Care	D	2,575	84.0%	10.0%	4.0%	50.0%	0.083	32.0%	\$32.65	12	\$392	144
Hospices												

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Table 4-2a - Antibody Testing of Source Individuals (Healthcare Professional Time, HBV)

Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unite Burden	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	g	h	$i = a \times ((b \times c \times d) + ((1 - b) \times e)) \times f \times (1 - g)$	$j = h \times i$	$k = i / f$
Hospices	A	684	58.0%	10.0%	4.0%	50.0%	0.083	42.0%	\$71.35	7	\$499	84
Hospices	C	0	82.0%	10.0%	4.0%	50.0%	0.083	42.0%	\$25.35	0	\$0	0
Hospices	D	215	30.0%	10.0%	4.0%	50.0%	0.083	42.0%	\$32.65	4	\$131	48
Hemodialysis												
Hemodialysis	A	4,684	92.0%	10.0%	4.0%	50.0%	0.083	96.0%	\$71.35	1	\$71	12
Hemodialysis	C	477	68.0%	10.0%	4.0%	50.0%	0.083	96.0%	\$25.35	0	\$0	0
Hemodialysis	D	141	81.0%	10.0%	4.0%	50.0%	0.083	96.0%	\$32.65	0	\$0	0
Drug Rehabilitation												
Drug Rehabilitation	A	283	78.0%	10.0%	4.0%	50.0%	0.083	82.0%	\$71.35	0	\$0	0
Drug Rehabilitation	C	0	100.0%	10.0%	4.0%	50.0%	0.083	82.0%	\$25.35	0	\$0	0
Drug Rehabilitation	D	0	30.0%	10.0%	4.0%	50.0%	0.083	82.0%	\$32.65	0	\$0	0
Government Clinics												
Government Clinics	A	16,013	73.0%	10.0%	4.0%	50.0%	0.083	22.0%	\$71.35	142	\$10,132	1,704
Government Clinics	C	0	55.0%	10.0%	4.0%	50.0%	0.083	22.0%	\$25.35	0	\$0	0
Government Clinics	D	0	87.0%	10.0%	4.0%	50.0%	0.083	22.0%	\$32.65	0	\$0	0
Blood/Plasma/Tissue Centers												
Blood/Plasma/Tissue Centers	A	6,453	65.0%	10.0%	4.0%	50.0%	0.083	100.0%	\$71.35	0	\$0	0
Blood/Plasma/Tissue Centers	C	139	44.0%	10.0%	4.0%	50.0%	0.083	100.0%	\$25.35	0	\$0	0
Blood/Plasma/Tissue Centers	D	197	71.0%	10.0%	4.0%	50.0%	0.083	100.0%	\$32.65	0	\$0	0
Residential Care												
Residential Care	A	4,850	64.0%	10.0%	4.0%	50.0%	0.083	85.0%	\$71.35	11	\$785	132
Residential Care	C	388	30.0%	10.0%	4.0%	50.0%	0.083	85.0%	\$25.35	2	\$51	24
Residential Care	D	2,571	73.0%	10.0%	4.0%	50.0%	0.083	85.0%	\$32.65	4	\$131	48
Personnel Services												

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Table 4-2a - Antibody Testing of Source Individuals (Healthcare Professional Time, HBV)												
Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unite Burden	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	g	h	$i = a \times ((b \times c \times d) + ((1 - b) \times e)) \times f \times (1 - g)$	$j = h \times i$	$k = i / f$
Personnel Services	A	2,993	38.0%	10.0%	4.0%	50.0%	0.000	61.0%	\$71.35	0	\$0	0
Personnel Services	D	0	30.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$32.65	0	\$0	0
Funeral Services												
Funeral Services	A	11,735	67.0%	10.0%	4.0%	50.0%	0.000	13.0%	\$71.35	0	\$0	0
Funeral Services	C	0	30.0%	10.0%	4.0%	50.0%	0.000	13.0%	\$25.35	0	\$0	0
Funeral Services	D	0	64.0%	10.0%	4.0%	50.0%	0.000	13.0%	\$32.65	0	\$0	0
Health Units in Industry												
Health Units in Industry	A	186,835	60.0%	10.0%	4.0%	50.0%	0.000	14.0%	\$71.35	0	\$0	0
Health Units in Industry	B	0	42.0%	10.0%	4.0%	50.0%	0.000	14.0%	\$37.59	0	\$0	0
Health Units in Industry	D	0	30.0%	10.0%	4.0%	50.0%	0.000	14.0%	\$32.65	0	\$0	0
Research Labs												
Research Labs	A	494	81.0%	10.0%	4.0%	50.0%	0.000	30.0%	\$71.35	0	\$0	0
Research Labs	C	0	45.0%	10.0%	4.0%	50.0%	0.000	30.0%	\$25.35	0	\$0	0
Research Labs	D	0	81.0%	10.0%	4.0%	50.0%	0.000	30.0%	\$32.65	0	\$0	0
Linen Services												
Linen Services	D	3,000	30.0%	10.0%	4.0%	50.0%	0.000	90.0%	\$32.65	0	\$0	0
Medical Equipment Repair												
Medical Equipment Repair	A	0	41.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$71.35	0	\$0	0
Medical Equipment Repair	B	0	37.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$37.59	0	\$0	0
Medical Equipment Repair	C	161	36.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$25.35	0	\$0	0
Medical Equipment Repair	D	2,464	30.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$32.65	0	\$0	0
Law Enforcement												
Law Enforcement	A	18,993	42.0%	10.0%	4.0%	50.0%	0.083	91.0%	\$71.35	41	\$2,925	492
Law Enforcement	B	2,770	92.0%	10.0%	4.0%	50.0%	0.083	91.0%	\$37.59	1	\$38	12

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Table 4-2a - Antibody Testing of Source Individuals (Healthcare Professional Time, HBV)												
Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unite Burden	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	g	h	$i = a \times ((b \times c \times d) + ((1 - b) \times e)) \times f \times (1 - g)$	$j = h \times i$	$k = i / f$
Law Enforcement	C	1,444	31.0%	10.0%	4.0%	50.0%	0.083	91.0%	\$25.35	4	\$101	48
Law Enforcement	D	4,204	46.0%	10.0%	4.0%	50.0%	0.083	91.0%	\$32.65	9	\$294	108
Fire and Rescue												
Fire and Rescue	A	10,411	89.0%	10.0%	4.0%	50.0%	0.000	82.0%	\$71.35	0	\$0	0
Fire and Rescue	B	857	86.0%	10.0%	4.0%	50.0%	0.000	82.0%	\$37.59	0	\$0	0
Fire and Rescue	D	2,158	92.0%	10.0%	4.0%	50.0%	0.000	82.0%	\$32.65	0	\$0	0
Correctional Facilities												
Correctional Facilities	A	3,034	54.0%	10.0%	4.0%	50.0%	0.083	38.0%	\$71.35	36	\$2,569	432
Correctional Facilities	B	1,887	32.0%	10.0%	4.0%	50.0%	0.083	38.0%	\$37.59	33	\$1,240	396
Correctional Facilities	C	459	30.0%	10.0%	4.0%	50.0%	0.083	38.0%	\$25.35	8	\$203	96
Correctional Facilities	D	3,793	31.0%	10.0%	4.0%	50.0%	0.083	38.0%	\$32.65	68	\$2,220	816
Lifesaving												
Lifesaving	A	457	76.0%	10.0%	4.0%	50.0%	0.000	50.0%	\$71.35	0	\$0	0
Schools												
Schools	A	6,321	30.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$71.35	0	\$0	0
Schools	D	6,321	30.0%	10.0%	4.0%	50.0%	0.000	0.0%	\$32.65	0	\$0	0
Waste Removal												
Waste Removal	A	50	30.0%	10.0%	4.0%	50.0%	0.000	50.0%	\$71.35	0	\$0	0
Total		1,189,683								5,317	\$316,044	63,804

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Table 4-2b - Antibody Testing of Source Individuals (Item 13 Costs, HBV Source Testing)

Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unit Cost	Compliance Rate	Cost
		a	b	c	d	e	f	g	$h = (a \times ((b \times c \times d \times e) + (1 - b) \times e)) \times f \times (1 - g)$
Offices of Physicians									
Offices of Physicians	A	179,493	73.0%	10.0%	4.0%	50.0%	\$0	22.0%	\$0
Offices of Physicians	C	0	55.0%	10.0%	4.0%	50.0%	\$0	22.0%	\$0
Offices of Physicians	D	0	87.0%	10.0%	4.0%	50.0%	\$0	22.0%	\$0
Offices of Dentists									
Offices of Dentists	A	279,485	92.0%	10.0%	4.0%	50.0%	\$0	5.0%	\$0
Offices of Dentists	C	43,075	44.0%	10.0%	4.0%	50.0%	\$0	5.0%	\$0
Nursing Homes									
Nursing Homes	A	35,746	38.0%	10.0%	4.0%	50.0%	\$0	34.0%	\$0
Nursing Homes	C	5,002	31.0%	10.0%	4.0%	50.0%	\$0	34.0%	\$0
Nursing Homes	D	4,636	30.0%	10.0%	4.0%	50.0%	\$0	34.0%	\$0
Hospitals									
Hospitals	A	254,449	77.0%	10.0%	4.0%	50.0%	\$0	83.0%	\$0
Hospitals	B	34,579	77.0%	10.0%	4.0%	50.0%	\$0	83.0%	\$0
Hospitals	C	30,799	62.0%	10.0%	4.0%	50.0%	\$0	83.0%	\$0
Medical and Dental Labs									
Medical and Dental Labs	A	5,177	79.0%	10.0%	4.0%	50.0%	\$0	69.0%	\$0
Medical and Dental Labs	C	0	38.0%	10.0%	4.0%	50.0%	\$0	69.0%	\$0
Medical and Dental Labs	D	487	30.0%	10.0%	4.0%	50.0%	\$0	69.0%	\$0
Home Health Care									
Home Health Care	A	6,244	52.0%	10.0%	4.0%	50.0%	\$0	32.0%	\$0
Home Health Care	C	0	30.0%	10.0%	4.0%	50.0%	\$0	32.0%	\$0
Home Health Care	D	2,575	84.0%	10.0%	4.0%	50.0%	\$0	32.0%	\$0
Hospices									
Hospices	A	684	58.0%	10.0%	4.0%	50.0%	\$0	42.0%	\$0

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Table 4-2b - Antibody Testing of Source Individuals (Item 13 Costs, HBV Source Testing)

Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unit Cost	Compliance Rate	Cost
		a	b	c	d	e	f	g	$h = (a \times ((b \times c \times d \times e) + (1 - b) \times e)) \times f \times (1 - g)$
Hospices	C	0	82.0%	10.0%	4.0%	50.0%	\$0	42.0%	\$0
Hospices	D	215	30.0%	10.0%	4.0%	50.0%	\$0	42.0%	\$0
Hemodialysis									
Hemodialysis	A	4,684	92.0%	10.0%	4.0%	50.0%	\$0	96.0%	\$0
Hemodialysis	C	477	68.0%	10.0%	4.0%	50.0%	\$0	96.0%	\$0
Hemodialysis	D	141	81.0%	10.0%	4.0%	50.0%	\$0	96.0%	\$0
Drug Rehabilitation									
Drug Rehabilitation	A	283	78.0%	10.0%	4.0%	50.0%	\$0	82.0%	\$0
Drug Rehabilitation	C	0	100.0%	10.0%	4.0%	50.0%	\$0	82.0%	\$0
Drug Rehabilitation	D	0	30.0%	10.0%	4.0%	50.0%	\$0	82.0%	\$0
Government Clinics									
Government Clinics	A	16,013	73.0%	10.0%	4.0%	50.0%	\$0	22.0%	\$0
Government Clinics	C	0	55.0%	10.0%	4.0%	50.0%	\$0	22.0%	\$0
Government Clinics	D	0	87.0%	10.0%	4.0%	50.0%	\$0	22.0%	\$0
Blood/Plasma/Tissue Centers									
Blood/Plasma/Tissue Centers	A	6,453	65.0%	10.0%	4.0%	50.0%	\$0	100.0%	\$0
Blood/Plasma/Tissue Centers	C	139	44.0%	10.0%	4.0%	50.0%	\$0	100.0%	\$0
Blood/Plasma/Tissue Centers	D	197	71.0%	10.0%	4.0%	50.0%	\$0	100.0%	\$0
Residential Care									
Residential Care	A	4,850	64.0%	10.0%	4.0%	50.0%	\$0	85.0%	\$0
Residential Care	C	388	30.0%	10.0%	4.0%	50.0%	\$0	85.0%	\$0
Residential Care	D	2,571	73.0%	10.0%	4.0%	50.0%	\$0	85.0%	\$0
Personnel Services									
Personnel Services	A	2,993	38.0%	10.0%	4.0%	50.0%	\$48	61.0%	\$17,412
Personnel Services	D	0	30.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$0

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Table 4-2b - Antibody Testing of Source Individuals (Item 13 Costs, HBV Source Testing)

Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unit Cost	Compliance Rate	Cost
		a	b	c	d	e	f	g	$h = (a \times ((b \times c \times d \times e) + (1 - b) \times e)) \times f \times (1 - g)$
Funeral Services									
Funeral Services	A	11,735	67.0%	10.0%	4.0%	50.0%	\$48	13.0%	\$81,516
Funeral Services	C	0	30.0%	10.0%	4.0%	50.0%	\$48	13.0%	\$0
Funeral Services	D	0	64.0%	10.0%	4.0%	50.0%	\$48	13.0%	\$0
Health Units in Industry									
Health Units in Industry	A	186,835	60.0%	10.0%	4.0%	50.0%	\$48	14.0%	\$1,551,765
Health Units in Industry	B	0	42.0%	10.0%	4.0%	50.0%	\$48	14.0%	\$0
Health Units in Industry	D	0	30.0%	10.0%	4.0%	50.0%	\$48	14.0%	\$0
Research Labs									
Research Labs	A	494	81.0%	10.0%	4.0%	50.0%	\$48	30.0%	\$1,604
Research Labs	C	0	45.0%	10.0%	4.0%	50.0%	\$48	30.0%	\$0
Research Labs	D	0	81.0%	10.0%	4.0%	50.0%	\$48	30.0%	\$0
Linen Services									
Linen Services	D	3,000	30.0%	10.0%	4.0%	50.0%	\$48	90.0%	\$5,049
Medical Equipment Repair									
Medical Equipment Repair	A	0	41.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$0
Medical Equipment Repair	B	0	37.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$0
Medical Equipment Repair	C	161	36.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$2,479
Medical Equipment Repair	D	2,464	30.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$41,466
Law Enforcement									
Law Enforcement	A	18,993	42.0%	10.0%	4.0%	50.0%	\$0	91.0%	\$0
Law Enforcement	B	2,770	92.0%	10.0%	4.0%	50.0%	\$0	91.0%	\$0
Law Enforcement	C	1,444	31.0%	10.0%	4.0%	50.0%	\$0	91.0%	\$0
Law Enforcement	D	4,204	46.0%	10.0%	4.0%	50.0%	\$0	91.0%	\$0
Fire and Rescue									

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Table 4-2b - Antibody Testing of Source Individuals (Item 13 Costs, HBV Source Testing)									
Sector	Category	Exposures	Vaccination Rate	Employee Participation Rate	Non-Response Rate	Source Acceptance Rate	Unit Cost	Compliance Rate	Cost
		a	b	c	d	e	f	g	$h = (a \times ((b \times c \times d \times e) + (1 - b) \times e)) \times f \times (1 - g)$
Fire and Rescue	A	10,411	89.0%	10.0%	4.0%	50.0%	\$48	82.0%	\$5,107
Fire and Rescue	B	857	86.0%	10.0%	4.0%	50.0%	\$48	82.0%	\$531
Fire and Rescue	D	2,158	92.0%	10.0%	4.0%	50.0%	\$48	82.0%	\$780
Correctional Facilities									
Correctional Facilities	A	3,034	54.0%	10.0%	4.0%	50.0%	\$0	38.0%	\$0
Correctional Facilities	B	1,887	32.0%	10.0%	4.0%	50.0%	\$0	38.0%	\$0
Correctional Facilities	C	459	30.0%	10.0%	4.0%	50.0%	\$0	38.0%	\$0
Correctional Facilities	D	3,793	31.0%	10.0%	4.0%	50.0%	\$0	38.0%	\$0
Lifesaving									
Lifesaving	A	457	76.0%	10.0%	4.0%	50.0%	\$48	50.0%	\$1,333
Schools									
Schools	A	6,321	30.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$106,375
Schools	D	6,321	30.0%	10.0%	4.0%	50.0%	\$48	0.0%	\$106,375
Waste Removal									
Waste Removal	A	50	30.0%	10.0%	4.0%	50.0%	\$48	50.0%	\$421
Total		1,189,683							\$1,922,213

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Table 5 - HBV Antibody Testing for Vaccinated Workers										
Sector	Category	Exposures	Vaccination Rate	Unit Burden	Share Vaccinated Receiving Tests	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times (1 - e)$	$h = f \times g$	$i = g / c$
Offices of Physicians										
Offices of Physicians	A	179,493	73.0%	0.128	10.0%	27.0%	\$71.35	1,224	\$87,332	9,563
Offices of Physicians	C	0	55.0%	0.128	10.0%	27.0%	\$25.35	0	\$0	0
Offices of Physicians	D	0	87.0%	0.128	10.0%	27.0%	\$32.65	0	\$0	0
Offices of Dentists										
Offices of Dentists	A	279,485	92.0%	0.128	10.0%	19.0%	\$71.35	2,666	\$190,219	20,828
Offices of Dentists	C	43,075	44.0%	0.128	10.0%	19.0%	\$25.35	197	\$4,994	1,539
Nursing Homes										
Nursing Homes	A	35,746	38.0%	0.128	10.0%	31.0%	\$71.35	120	\$8,562	938
Nursing Homes	C	5,002	31.0%	0.128	10.0%	31.0%	\$25.35	14	\$355	109
Nursing Homes	D	4,636	30.0%	0.128	10.0%	31.0%	\$32.65	12	\$392	94
Hospitals										
Hospitals	A	254,449	77.0%	0.128	10.0%	76.0%	\$71.35	602	\$42,953	4,703
Hospitals	B	34,579	77.0%	0.128	10.0%	76.0%	\$37.59	82	\$3,082	641
Hospitals	C	30,799	62.0%	0.128	10.0%	76.0%	\$25.35	59	\$1,496	461
Medical and Dental Labs										
Medical and Dental Labs	A	5,177	79.0%	0.128	10.0%	86.0%	\$71.35	7	\$499	55
Medical and Dental Labs	C	0	38.0%	0.128	10.0%	86.0%	\$25.35	0	\$0	0
Medical and Dental Labs	D	487	30.0%	0.128	10.0%	86.0%	\$32.65	0	\$0	0
Home Health Care										
Home Health Care	A	6,244	52.0%	0.128	10.0%	67.0%	\$71.35	14	\$999	109
Home Health Care	C	0	30.0%	0.128	10.0%	67.0%	\$25.35	0	\$0	0
Home Health Care	D	2,575	84.0%	0.128	10.0%	67.0%	\$32.65	9	\$294	70
Hospices										
Hospices	A	684	58.0%	0.128	10.0%	60.0%	\$71.35	2	\$143	16

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Table 5 - HBV Antibody Testing for Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Share Vaccinated Receiving Tests	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times (1 - e)$	$h = f \times g$	$i = g / c$
Hospices	C	0	82.0%	0.128	10.0%	60.0%	\$25.35	0	\$0	0
Hospices	D	215	30.0%	0.128	10.0%	60.0%	\$32.65	0	\$0	0
Hemodialysis										
Hemodialysis	A	4,684	92.0%	0.128	10.0%	93.0%	\$71.35	4	\$285	31
Hemodialysis	C	477	68.0%	0.128	10.0%	93.0%	\$25.35	0	\$0	0
Hemodialysis	D	141	81.0%	0.128	10.0%	93.0%	\$32.65	0	\$0	0
Drug Rehabilitation										
Drug Rehabilitation	A	283	78.0%	0.128	10.0%	77.0%	\$71.35	1	\$71	8
Drug Rehabilitation	C	0	100.0%	0.128	10.0%	77.0%	\$25.35	0	\$0	0
Drug Rehabilitation	D	0	30.0%	0.128	10.0%	77.0%	\$32.65	0	\$0	0
Government Clinics										
Government Clinics	A	16,013	73.0%	0.128	10.0%	27.0%	\$71.35	109	\$7,777	852
Government Clinics	C	0	55.0%	0.128	10.0%	27.0%	\$25.35	0	\$0	0
Government Clinics	D	0	87.0%	0.128	10.0%	27.0%	\$32.65	0	\$0	0
Blood/Plasma/Tissue Centers										
Blood/Plasma/Tissue Centers	A	6,453	65.0%	0.128	10.0%	66.0%	\$71.35	18	\$1,284	141
Blood/Plasma/Tissue Centers	C	139	44.0%	0.128	10.0%	66.0%	\$25.35	0	\$0	0
Blood/Plasma/Tissue Centers	D	197	71.0%	0.128	10.0%	66.0%	\$32.65	1	\$33	8
Residential Care										
Residential Care	A	4,850	64.0%	0.128	10.0%	39.0%	\$71.35	24	\$1,712	188
Residential Care	C	388	30.0%	0.128	10.0%	39.0%	\$25.35	1	\$25	8
Residential Care	D	2,571	73.0%	0.128	10.0%	39.0%	\$32.65	15	\$490	117
Personnel Services										
Personnel Services	A	2,993	38.0%	0.500	10.0%	83.0%	\$71.35	10	\$714	20
Personnel Services	D	0	30.0%	0.500	10.0%	0.0%	\$32.65	0	\$0	0

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Table 5 - HBV Antibody Testing for Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Share Vaccinated Receiving Tests	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times (1 - e)$	$h = f \times g$	$i = g / c$
Funeral Services										
Funeral Services	A	11,735	67.0%	0.500	10.0%	31.0%	\$71.35	271	\$19,336	542
Funeral Services	C	0	30.0%	0.500	10.0%	31.0%	\$25.35	0	\$0	0
Funeral Services	D	0	64.0%	0.500	10.0%	31.0%	\$32.65	0	\$0	0
Health Units in Industry										
Health Units in Industry	A	186,835	60.0%	0.500	10.0%	2.0%	\$71.35	5,493	\$391,926	10,986
Health Units in Industry	B	0	42.0%	0.500	10.0%	2.0%	\$37.59	0	\$0	0
Health Units in Industry	D	0	30.0%	0.500	10.0%	2.0%	\$32.65	0	\$0	0
Research Labs										
Research Labs	A	494	81.0%	0.500	10.0%	70.0%	\$71.35	6	\$428	12
Research Labs	C	0	45.0%	0.500	10.0%	70.0%	\$25.35	0	\$0	0
Research Labs	D	0	81.0%	0.500	10.0%	70.0%	\$32.65	0	\$0	0
Linen Services										
Linen Services	D	3,000	30.0%	0.500	10.0%	90.0%	\$32.65	5	\$163	10
Medical Equipment Repair										
Medical Equipment Repair	A	0	41.0%	0.500	10.0%	26.0%	\$71.35	0	\$0	0
Medical Equipment Repair	B	0	37.0%	0.500	10.0%	26.0%	\$37.59	0	\$0	0
Medical Equipment Repair	C	161	36.0%	0.500	10.0%	26.0%	\$25.35	2	\$51	4
Medical Equipment Repair	D	2,464	30.0%	0.500	10.0%	26.0%	\$32.65	27	\$882	54
Law Enforcement										
Law Enforcement	A	18,993	42.0%	0.128	10.0%	96.0%	\$71.35	4	\$285	31
Law Enforcement	B	2,770	92.0%	0.128	10.0%	96.0%	\$37.59	1	\$38	8
Law Enforcement	C	1,444	31.0%	0.128	10.0%	96.0%	\$25.35	0	\$0	0
Law Enforcement	D	4,204	46.0%	0.128	10.0%	96.0%	\$32.65	1	\$33	8
Fire and Rescue										

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Table 5 - HBV Antibody Testing for Vaccinated Workers										
Sector	Category	Exposures	Vaccination Rate	Unit Burden	Share Vaccinated Receiving Tests	Compliance Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times (1 - e)$	$h = f \times g$	$i = g / c$
Fire and Rescue	A	10,411	89.0%	0.500	10.0%	71.0%	\$71.35	134	\$9,561	268
Fire and Rescue	B	857	86.0%	0.500	10.0%	71.0%	\$37.59	11	\$413	22
Fire and Rescue	D	2,158	92.0%	0.500	10.0%	71.0%	\$32.65	29	\$947	58
Correctional Facilities										
Correctional Facilities	A	3,034	54.0%	0.128	10.0%	39.0%	\$71.35	13	\$928	102
Correctional Facilities	B	1,887	32.0%	0.128	10.0%	39.0%	\$37.59	5	\$188	39
Correctional Facilities	C	459	30.0%	0.128	10.0%	39.0%	\$25.35	1	\$25	8
Correctional Facilities	D	3,793	31.0%	0.128	10.0%	39.0%	\$32.65	9	\$294	70
Lifesaving										
Lifesaving	A	457	76.0%	0.500	10.0%	50.0%	\$71.35	9	\$642	18
Schools										
Schools	A	6,321	30.0%	0.500	10.0%	0.0%	\$71.35	95	\$6,778	190
Schools	D	6,321	30.0%	0.500	10.0%	0.0%	\$32.65	95	\$3,102	190
Waste Removal										
Waste Removal	A	50	30.0%	0.500	10.0%	50.0%	\$71.35	0	\$0	0
Total		1,189,683						11,402	\$789,731	53,119

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Table 6a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Employee Participation Rate	Vaccination Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times e$	$h = f \times g$	$i = g / c$
Offices of Physicians										
Offices of Physicians	A	179,493	73.0%	0.083	10.0%	73.0%	\$65.34	797	\$52,076	9,564
Offices of Physicians	C	0	55.0%	0.083	10.0%	73.0%	\$65.34	0	\$0	0
Offices of Physicians	D	0	87.0%	0.083	10.0%	73.0%	\$65.34	0	\$0	0
Offices of Dentists										
Offices of Dentists	A	279,485	92.0%	0.083	10.0%	81.0%	\$65.34	1,736	\$113,430	20,832
Offices of Dentists	C	43,075	44.0%	0.083	10.0%	81.0%	\$65.34	128	\$8,364	1,536
Nursing Homes										
Nursing Homes	A	35,746	38.0%	0.083	10.0%	69.0%	\$65.34	78	\$5,097	936
Nursing Homes	C	5,002	31.0%	0.083	10.0%	69.0%	\$65.34	9	\$588	108
Nursing Homes	D	4,636	30.0%	0.083	10.0%	69.0%	\$65.34	8	\$523	96
Hospitals										
Hospitals	A	254,449	77.0%	0.083	10.0%	24.0%	\$65.34	392	\$25,613	4,704
Hospitals	B	34,579	77.0%	0.083	10.0%	24.0%	\$65.34	53	\$3,463	636
Hospitals	C	30,799	62.0%	0.083	10.0%	24.0%	\$65.34	38	\$2,483	456
Medical and Dental Labs										
Medical and Dental Labs	A	5,177	79.0%	0.083	10.0%	14.0%	\$65.34	5	\$327	60
Medical and Dental Labs	C	0	38.0%	0.083	10.0%	14.0%	\$65.34	0	\$0	0
Medical and Dental Labs	D	487	30.0%	0.083	10.0%	14.0%	\$65.34	0	\$0	0
Home Health Care										
Home Health Care	A	6,244	52.0%	0.083	10.0%	33.0%	\$65.34	9	\$588	108
Home Health Care	C	0	30.0%	0.083	10.0%	33.0%	\$65.34	0	\$0	0
Home Health Care	D	2,575	84.0%	0.083	10.0%	33.0%	\$65.34	6	\$392	72
Hospices										
Hospices	A	684	58.0%	0.083	10.0%	40.0%	\$65.34	1	\$65	12
Hospices	C	0	82.0%	0.083	10.0%	40.0%	\$65.34	0	\$0	0

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Table 6a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Employee Participation Rate	Vaccination Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times e$	$h = f \times g$	$i = g / c$
Hospices	D	215	30.0%	0.083	10.0%	40.0%	\$65.34	0	\$0	0
Hemodialysis										
Hemodialysis	A	4,684	92.0%	0.083	10.0%	7.0%	\$65.34	3	\$196	36
Hemodialysis	C	477	68.0%	0.083	10.0%	7.0%	\$65.34	0	\$0	0
Hemodialysis	D	141	81.0%	0.083	10.0%	7.0%	\$65.34	0	\$0	0
Drug Rehabilitation										
Drug Rehabilitation	A	283	78.0%	0.083	10.0%	23.0%	\$65.34	0	\$0	0
Drug Rehabilitation	C	0	100.0%	0.083	10.0%	23.0%	\$65.34	0	\$0	0
Drug Rehabilitation	D	0	30.0%	0.083	10.0%	23.0%	\$65.34	0	\$0	0
Government Clinics										
Government Clinics	A	16,013	73.0%	0.083	10.0%	73.0%	\$65.34	71	\$4,639	852
Government Clinics	C	0	55.0%	0.083	10.0%	73.0%	\$65.34	0	\$0	0
Government Clinics	D	0	87.0%	0.083	10.0%	73.0%	\$65.34	0	\$0	0
Blood/Plasma/Tissue Centers										
Blood/Plasma/Tissue Centers	A	6,453	65.0%	0.083	10.0%	34.0%	\$65.34	12	\$784	144
Blood/Plasma/Tissue Centers	C	139	44.0%	0.083	10.0%	34.0%	\$65.34	0	\$0	0
Blood/Plasma/Tissue Centers	D	197	71.0%	0.083	10.0%	34.0%	\$65.34	0	\$0	0
Residential Care										
Residential Care	A	4,850	64.0%	0.083	10.0%	61.0%	\$65.34	16	\$1,045	192
Residential Care	C	388	30.0%	0.083	10.0%	61.0%	\$65.34	1	\$65	12
Residential Care	D	2,571	73.0%	0.083	10.0%	61.0%	\$65.34	10	\$653	120
Personnel Services										
Personnel Services	A	2,993	38.0%	0.000	10.0%	17.0%	\$65.34	0	\$0	0
Personnel Services	D	0	30.0%	0.000	10.0%	100.0%	\$65.34	0	\$0	0
Funeral Services										
Funeral Services	A	11,735	67.0%	0.000	10.0%	69.0%	\$65.34	0	\$0	0

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Table 6a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Employee Participation Rate	Vaccination Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times e$	$h = f \times g$	$i = g / c$
Funeral Services	C	0	30.0%	0.000	10.0%	69.0%	\$65.34	0	\$0	0
Funeral Services	D	0	64.0%	0.000	10.0%	69.0%	\$65.34	0	\$0	0
Health Units in Industry										
Health Units in Industry	A	186,835	60.0%	0.000	10.0%	98.0%	\$65.34	0	\$0	0
Health Units in Industry	B	0	42.0%	0.000	10.0%	98.0%	\$65.34	0	\$0	0
Health Units in Industry	D	0	30.0%	0.000	10.0%	98.0%	\$65.34	0	\$0	0
Research Labs										
Research Labs	A	494	81.0%	0.000	10.0%	30.0%	\$65.34	0	\$0	0
Research Labs	C	0	45.0%	0.000	10.0%	30.0%	\$65.34	0	\$0	0
Research Labs	D	0	81.0%	0.000	10.0%	30.0%	\$65.34	0	\$0	0
Linen Services										
Linen Services	D	3,000	30.0%	0.000	10.0%	10.0%	\$65.34	0	\$0	0
Medical Equipment Repair										
Medical Equipment Repair	A	0	41.0%	0.000	10.0%	74.0%	\$65.34	0	\$0	0
Medical Equipment Repair	B	0	37.0%	0.000	10.0%	74.0%	\$65.34	0	\$0	0
Medical Equipment Repair	C	161	36.0%	0.000	10.0%	74.0%	\$65.34	0	\$0	0
Medical Equipment Repair	D	2,464	30.0%	0.000	10.0%	74.0%	\$65.34	0	\$0	0
Law Enforcement										
Law Enforcement	A	18,993	42.0%	0.083	10.0%	4.0%	\$65.34	3	\$196	36
Law Enforcement	B	2,770	92.0%	0.083	10.0%	4.0%	\$65.34	1	\$65	12
Law Enforcement	C	1,444	31.0%	0.083	10.0%	4.0%	\$65.34	0	\$0	0
Law Enforcement	D	4,204	46.0%	0.083	10.0%	4.0%	\$65.34	1	\$65	12
Fire and Rescue										
Fire and Rescue	A	10,411	89.0%	0.000	10.0%	29.0%	\$65.34	0	\$0	0
Fire and Rescue	B	857	86.0%	0.000	10.0%	29.0%	\$65.34	0	\$0	0
Fire and Rescue	D	2,158	92.0%	0.000	10.0%	29.0%	\$65.34	0	\$0	0

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Table 6a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Employee Participation Rate	Vaccination Rate	Wage	Hours	Cost	Responses
		a	b	c	d	e	f	$g = a \times b \times c \times d \times e$	$h = f \times g$	$i = g / c$
Correctional Facilities										
Correctional Facilities	A	3,034	54.0%	0.083	10.0%	70.0%	\$65.34	10	\$653	120
Correctional Facilities	B	1,887	32.0%	0.083	10.0%	70.0%	\$65.34	4	\$261	48
Correctional Facilities	C	459	30.0%	0.083	10.0%	70.0%	\$65.34	1	\$65	12
Correctional Facilities	D	3,793	31.0%	0.083	10.0%	70.0%	\$65.34	7	\$457	84
Lifesaving										
Lifesaving	A	457	76.0%	0.000	10.0%	50.0%	\$65.34	0	\$0	0
Schools										
Schools	A	6,321	30.0%	0.000	10.0%	100.0%	\$65.34	0	\$0	0
Schools	D	6,321	30.0%	0.000	10.0%	100.0%	\$65.34	0	\$0	0
Waste Removal										
Waste Removal	A	50	30.0%	0.000	10.0%	50.0%	\$65.34	0	\$0	0
Total		1,189,683						3,400	\$222,153	40,800

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Table 6b - HBV Antibody Testing for Vaccinated Workers (Item 13 Costs)							
Sector	Category	Exposures	Vaccination Rate	Unit Cost	Employee Participation Rate	Vaccination Rate	Cost
		a	b	c	d	e	f = a x b x c x d x e
Offices of Physicians							
Offices of Physicians	A	179,493	73.0%	\$0.00	10.0%	73.0%	\$0
Offices of Physicians	C	0	55.0%	\$0.00	10.0%	73.0%	\$0
Offices of Physicians	D	0	87.0%	\$0.00	10.0%	73.0%	\$0
Offices of Dentists							
Offices of Dentists	A	279,485	92.0%	\$0.00	10.0%	81.0%	\$0
Offices of Dentists	C	43,075	44.0%	\$0.00	10.0%	81.0%	\$0
Nursing Homes							
Nursing Homes	A	35,746	38.0%	\$0.00	10.0%	69.0%	\$0
Nursing Homes	C	5,002	31.0%	\$0.00	10.0%	69.0%	\$0
Nursing Homes	D	4,636	30.0%	\$0.00	10.0%	69.0%	\$0
Hospitals							
Hospitals	A	254,449	77.0%	\$0.00	10.0%	24.0%	\$0
Hospitals	B	34,579	77.0%	\$0.00	10.0%	24.0%	\$0
Hospitals	C	30,799	62.0%	\$0.00	10.0%	24.0%	\$0
Medical and Dental Labs							
Medical and Dental Labs	A	5,177	79.0%	\$0.00	10.0%	14.0%	\$0
Medical and Dental Labs	C	0	38.0%	\$0.00	10.0%	14.0%	\$0
Medical and Dental Labs	D	487	30.0%	\$0.00	10.0%	14.0%	\$0
Home Health Care							
Home Health Care	A	6,244	52.0%	\$0.00	10.0%	33.0%	\$0
Home Health Care	C	0	30.0%	\$0.00	10.0%	33.0%	\$0
Home Health Care	D	2,575	84.0%	\$0.00	10.0%	33.0%	\$0
Hospices							
Hospices	A	684	58.0%	\$0.00	10.0%	40.0%	\$0
Hospices	C	0	82.0%	\$0.00	10.0%	40.0%	\$0
Hospices	D	215	30.0%	\$0.00	10.0%	40.0%	\$0
Hemodialysis							

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Table 6b - HBV Antibody Testing for Vaccinated Workers (Item 13 Costs)							
Sector	Category	Exposures	Vaccination Rate	Unit Cost	Employee Participation Rate	Vaccination Rate	Cost
		a	b	c	d	e	f = a x b x c x d x e
Hemodialysis	A	4,684	92.0%	\$0.00	10.0%	7.0%	\$0
Hemodialysis	C	477	68.0%	\$0.00	10.0%	7.0%	\$0
Hemodialysis	D	141	81.0%	\$0.00	10.0%	7.0%	\$0
Drug Rehabilitation							
Drug Rehabilitation	A	283	78.0%	\$0.00	10.0%	23.0%	\$0
Drug Rehabilitation	C	0	100.0%	\$0.00	10.0%	23.0%	\$0
Drug Rehabilitation	D	0	30.0%	\$0.00	10.0%	23.0%	\$0
Government Clinics							
Government Clinics	A	16,013	73.0%	\$0.00	10.0%	73.0%	\$0
Government Clinics	C	0	55.0%	\$0.00	10.0%	73.0%	\$0
Government Clinics	D	0	87.0%	\$0.00	10.0%	73.0%	\$0
Blood/Plasma/Tissue Centers							
Blood/Plasma/Tissue Centers	A	6,453	65.0%	\$0.00	10.0%	34.0%	\$0
Blood/Plasma/Tissue Centers	C	139	44.0%	\$0.00	10.0%	34.0%	\$0
Blood/Plasma/Tissue Centers	D	197	71.0%	\$0.00	10.0%	34.0%	\$0
Residential Care							
Residential Care	A	4,850	64.0%	\$0.00	10.0%	61.0%	\$0
Residential Care	C	388	30.0%	\$0.00	10.0%	61.0%	\$0
Residential Care	D	2,571	73.0%	\$0.00	10.0%	61.0%	\$0
Personnel Services							
Personnel Services	A	2,993	38.0%	\$69.00	10.0%	17.0%	\$1,334
Personnel Services	D	0	30.0%	\$69.00	10.0%	100.0%	\$0
Funeral Services							
Funeral Services	A	11,735	67.0%	\$69.00	10.0%	69.0%	\$37,433
Funeral Services	C	0	30.0%	\$69.00	10.0%	69.0%	\$0
Funeral Services	D	0	64.0%	\$69.00	10.0%	69.0%	\$0
Health Units in Industry							
Health Units in Industry	A	186,835	60.0%	\$69.00	10.0%	98.0%	\$758,027

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Table 6b - HBV Antibody Testing for Vaccinated Workers (Item 13 Costs)							
Sector	Category	Exposures	Vaccination Rate	Unit Cost	Employee Participation Rate	Vaccination Rate	Cost
		a	b	c	d	e	f = a x b x c x d x e
Health Units in Industry	B	0	42.0%	\$69.00	10.0%	98.0%	\$0
Health Units in Industry	D	0	30.0%	\$69.00	10.0%	98.0%	\$0
Research Labs							
Research Labs	A	494	81.0%	\$69.00	10.0%	30.0%	\$828
Research Labs	C	0	45.0%	\$69.00	10.0%	30.0%	\$0
Research Labs	D	0	81.0%	\$69.00	10.0%	30.0%	\$0
Linen Services							
Linen Services	D	3,000	30.0%	\$69.00	10.0%	10.0%	\$621
Medical Equipment Repair							
Medical Equipment Repair	A	0	41.0%	\$69.00	10.0%	74.0%	\$0
Medical Equipment Repair	B	0	37.0%	\$69.00	10.0%	74.0%	\$0
Medical Equipment Repair	C	161	36.0%	\$69.00	10.0%	74.0%	\$296
Medical Equipment Repair	D	2,464	30.0%	\$69.00	10.0%	74.0%	\$3,774
Law Enforcement							
Law Enforcement	A	18,993	42.0%	\$0.00	10.0%	4.0%	\$0
Law Enforcement	B	2,770	92.0%	\$0.00	10.0%	4.0%	\$0
Law Enforcement	C	1,444	31.0%	\$0.00	10.0%	4.0%	\$0
Law Enforcement	D	4,204	46.0%	\$0.00	10.0%	4.0%	\$0
Fire and Rescue							
Fire and Rescue	A	10,411	89.0%	\$69.00	10.0%	29.0%	\$18,541
Fire and Rescue	B	857	86.0%	\$69.00	10.0%	29.0%	\$1,475
Fire and Rescue	D	2,158	92.0%	\$69.00	10.0%	29.0%	\$3,973
Correctional Facilities							
Correctional Facilities	A	3,034	54.0%	\$0.00	10.0%	70.0%	\$0
Correctional Facilities	B	1,887	32.0%	\$0.00	10.0%	70.0%	\$0
Correctional Facilities	C	459	30.0%	\$0.00	10.0%	70.0%	\$0
Correctional Facilities	D	3,793	31.0%	\$0.00	10.0%	70.0%	\$0
Lifesaving							

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Table 6b - HBV Antibody Testing for Vaccinated Workers (Item 13 Costs)							
Sector	Category	Exposures	Vaccination Rate	Unit Cost	Employee Participation Rate	Vaccination Rate	Cost
		a	b	c	d	e	f = a x b x c x d x e
Lifesaving	A	457	76.0%	\$69.00	10.0%	50.0%	\$1,198
Schools							
Schools	A	6,321	30.0%	\$69.00	10.0%	100.0%	\$13,084
Schools	D	6,321	30.0%	\$69.00	10.0%	100.0%	\$13,084
Waste Removal							
Waste Removal	A	50	30.0%	\$69.00	10.0%	50.0%	\$52
Total		1,189,683					\$853,720

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Table 7 - HBV Antibody Testing for Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times (1 - b) \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Offices of Physicians													
Offices of Physicians	A	179,493	73.0%	0.128	50.0%	0.42%	50.0%	5.0%	27.0%	123	\$71.35	\$8,776	961
Offices of Physicians	C	0	55.0%	0.128	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$25.35	\$0	0
Offices of Physicians	D	0	87.0%	0.128	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$32.65	\$0	0
Offices of Dentists													
Offices of Dentists	A	279,485	92.0%	0.128	50.0%	0.42%	50.0%	5.0%	19.0%	63	\$71.35	\$4,495	492
Offices of Dentists	C	43,075	44.0%	0.128	50.0%	0.42%	50.0%	5.0%	19.0%	68	\$25.35	\$1,724	531
Nursing Homes													
Nursing Homes	A	35,746	38.0%	0.128	50.0%	0.42%	50.0%	5.0%	31.0%	53	\$71.35	\$3,782	414
Nursing Homes	C	5,002	31.0%	0.128	50.0%	0.42%	50.0%	5.0%	31.0%	8	\$25.35	\$203	63
Nursing Homes	D	4,636	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	31.0%	8	\$32.65	\$261	63
Hospitals													
Hospitals	A	254,449	77.0%	0.128	50.0%	1.25%	50.0%	5.0%	76.0%	56	\$71.35	\$3,996	438
Hospitals	B	34,579	77.0%	0.128	50.0%	1.25%	50.0%	5.0%	76.0%	8	\$37.59	\$301	63
Hospitals	C	30,799	62.0%	0.128	50.0%	1.25%	50.0%	5.0%	76.0%	11	\$25.35	\$279	86
Medical and Dental Labs													
Medical and Dental Labs	A	5,177	79.0%	0.128	50.0%	0.42%	50.0%	5.0%	86.0%	1	\$71.35	\$71	8
Medical and Dental Labs	C	0	38.0%	0.128	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$25.35	\$0	0
Medical and Dental Labs	D	487	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$32.65	\$0	0
Home Health Care													
Home Health Care	A	6,244	52.0%	0.128	50.0%	0.42%	50.0%	5.0%	67.0%	3	\$71.35	\$214	23

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Table 7 - HBV Antibody Testing for Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times (1 - b) \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Home Health Care	C	0	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	67.0%	0	\$25.35	\$0	0
Home Health Care	D	2,575	84.0%	0.128	50.0%	0.42%	50.0%	5.0%	67.0%	0	\$32.65	\$0	0
Hospices													
Hospices	A	684	58.0%	0.128	50.0%	0.42%	50.0%	5.0%	60.0%	0	\$71.35	\$0	0
Hospices	C	0	82.0%	0.128	50.0%	0.42%	50.0%	5.0%	60.0%	0	\$25.35	\$0	0
Hospices	D	215	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	60.0%	0	\$32.65	\$0	0
Hemodialysis													
Hemodialysis	A	4,684	92.0%	0.128	50.0%	0.42%	50.0%	5.0%	93.0%	0	\$71.35	\$0	0
Hemodialysis	C	477	68.0%	0.128	50.0%	0.42%	50.0%	5.0%	93.0%	0	\$25.35	\$0	0
Hemodialysis	D	141	81.0%	0.128	50.0%	0.42%	50.0%	5.0%	93.0%	0	\$32.65	\$0	0
Drug Rehabilitation													
Drug Rehabilitation	A	283	78.0%	0.128	50.0%	0.42%	50.0%	5.0%	77.0%	0	\$71.35	\$0	0
Drug Rehabilitation	C	0	100.0%	0.128	50.0%	0.42%	50.0%	5.0%	77.0%	0	\$25.35	\$0	0
Drug Rehabilitation	D	0	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	77.0%	0	\$32.65	\$0	0
Government Clinics													
Government Clinics	A	16,013	73.0%	0.128	50.0%	0.42%	50.0%	5.0%	27.0%	11	\$71.35	\$785	86
Government Clinics	C	0	55.0%	0.128	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$25.35	\$0	0
Government Clinics	D	0	87.0%	0.128	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$32.65	\$0	0
Blood/Plasma/Tissue Centers													
Blood/Plasma/Tissue Centers	A	6,453	65.0%	0.128	50.0%	0.10%	50.0%	5.0%	66.0%	3	\$71.35	\$214	23
Blood/Plasma/Tissue Centers	C	139	44.0%	0.128	50.0%	0.10%	50.0%	5.0%	66.0%	0	\$25.35	\$0	0

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Table 7 - HBV Antibody Testing for Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times (1 - b) \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Blood/Plasma/Tissue Centers	D	197	71.0%	0.128	50.0%	0.10%	50.0%	5.0%	66.0%	0	\$32.65	\$0	0
Residential Care													
Residential Care	A	4,850	64.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	4	\$71.35	\$285	31
Residential Care	C	388	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	1	\$25.35	\$25	8
Residential Care	D	2,571	73.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	1	\$32.65	\$33	8
Personnel Services													
Personnel Services	A	2,993	38.0%	0.500	50.0%	0.42%	50.0%	5.0%	83.0%	4	\$71.35	\$285	8
Personnel Services	D	0	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	0.0%	0	\$32.65	\$0	0
Funeral Services													
Funeral Services	A	11,735	67.0%	0.500	50.0%	0.42%	50.0%	5.0%	31.0%	36	\$71.35	\$2,569	72
Funeral Services	C	0	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	31.0%	0	\$25.35	\$0	0
Funeral Services	D	0	64.0%	0.500	50.0%	0.42%	50.0%	5.0%	31.0%	0	\$32.65	\$0	0
Health Units in Industry													
Health Units in Industry	A	186,835	60.0%	0.500	50.0%	0.42%	50.0%	5.0%	2.0%	992	\$71.35	\$70,779	1,984
Health Units in Industry	B	0	42.0%	0.500	50.0%	0.42%	50.0%	5.0%	2.0%	0	\$37.59	\$0	0
Health Units in Industry	D	0	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	2.0%	0	\$32.65	\$0	0
Research Labs													
Research Labs	A	494	81.0%	0.500	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$71.35	\$0	0
Research Labs	C	0	45.0%	0.500	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$25.35	\$0	0
Research Labs	D	0	81.0%	0.500	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$32.65	\$0	0
Linen Services													

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Table 7 - HBV Antibody Testing for Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times (1 - b) \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Linen Services	D	3,000	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	90.0%	3	\$32.65	\$98	6
Medical Equipment Repair													
Medical Equipment Repair	A	0	41.0%	0.500	50.0%	0.42%	50.0%	5.0%	26.0%	0	\$71.35	\$0	0
Medical Equipment Repair	B	0	37.0%	0.500	50.0%	0.42%	50.0%	5.0%	26.0%	0	\$37.59	\$0	0
Medical Equipment Repair	C	161	36.0%	0.500	50.0%	0.42%	50.0%	5.0%	26.0%	1	\$25.35	\$25	2
Medical Equipment Repair	D	2,464	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	26.0%	17	\$32.65	\$555	34
Law Enforcement													
Law Enforcement	A	18,993	42.0%	0.128	50.0%	0.42%	50.0%	5.0%	96.0%	2	\$71.35	\$143	16
Law Enforcement	B	2,770	92.0%	0.128	50.0%	0.42%	50.0%	5.0%	96.0%	0	\$37.59	\$0	0
Law Enforcement	C	1,444	31.0%	0.128	50.0%	0.42%	50.0%	5.0%	96.0%	0	\$25.35	\$0	0
Law Enforcement	D	4,204	46.0%	0.128	50.0%	0.42%	50.0%	5.0%	96.0%	0	\$32.65	\$0	0
Fire and Rescue													
Fire and Rescue	A	10,411	89.0%	0.500	50.0%	0.42%	50.0%	5.0%	71.0%	5	\$71.35	\$357	10
Fire and Rescue	B	857	86.0%	0.500	50.0%	0.42%	50.0%	5.0%	71.0%	0	\$37.59	\$0	0
Fire and Rescue	D	2,158	92.0%	0.500	50.0%	0.42%	50.0%	5.0%	71.0%	1	\$32.65	\$33	2
Correctional Facilities													
Correctional Facilities	A	3,034	54.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	3	\$71.35	\$214	23
Correctional Facilities	B	1,887	32.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	3	\$37.59	\$113	23
Correctional Facilities	C	459	30.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	1	\$25.35	\$25	8
Correctional Facilities	D	3,793	31.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	6	\$32.65	\$196	47
Lifesaving													

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Table 7 - HBV Antibody Testing for Non-Vaccinated Workers													
Sector	Category	Exposures	Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times (1 - b) \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Lifesaving	A	457	76.0%	0.500	50.0%	0.42%	50.0%	5.0%	50.0%	1	\$71.35	\$71	2
Schools													
Schools	A	6,321	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	0.0%	60	\$71.35	\$4,281	120
Schools	D	6,321	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	0.0%	60	\$32.65	\$1,959	120
Waste Removal													
Waste Removal	A	50	30.0%	0.500	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$71.35	\$0	0
Total		1,189,683								1,617		\$107,147	5,775

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Table 8a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Non-Vaccinated Workers

Sector	Category	Exposures	Non-Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Offices of Physicians													
Offices of Physicians	A	179,493	27.0%	0.083	50.0%	0.42%	50.0%	5.0%	27.0%	80	\$65.34	\$5,227	960
Offices of Physicians	C	0	45.0%	0.083	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$65.34	\$0	0
Offices of Physicians	D	0	13.0%	0.083	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$65.34	\$0	0
Offices of Dentists													
Offices of Dentists	A	279,485	8.0%	0.083	50.0%	0.42%	50.0%	5.0%	19.0%	41	\$65.34	\$2,679	492
Offices of Dentists	C	43,075	56.0%	0.083	50.0%	0.42%	50.0%	5.0%	19.0%	44	\$65.34	\$2,875	528
Nursing Homes													
Nursing Homes	A	35,746	62.0%	0.083	50.0%	0.42%	50.0%	5.0%	31.0%	35	\$65.34	\$2,287	420
Nursing Homes	C	5,002	69.0%	0.083	50.0%	0.42%	50.0%	5.0%	31.0%	5	\$65.34	\$327	60
Nursing Homes	D	4,636	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	31.0%	5	\$65.34	\$327	60
Hospitals													
Hospitals	A	254,449	23.0%	0.083	50.0%	1.25%	50.0%	5.0%	76.0%	37	\$65.34	\$2,418	444
Hospitals	B	34,579	23.0%	0.083	50.0%	1.25%	50.0%	5.0%	76.0%	5	\$65.34	\$327	60
Hospitals	C	30,799	38.0%	0.083	50.0%	1.25%	50.0%	5.0%	76.0%	7	\$65.34	\$457	84
Medical and Dental Labs													
Medical and Dental Labs	A	5,177	21.0%	0.083	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$65.34	\$0	0
Medical and Dental Labs	C	0	62.0%	0.083	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$65.34	\$0	0
Medical and Dental Labs	D	487	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$65.34	\$0	0
Home Health Care													
Home Health Care	A	6,244	48.0%	0.083	50.0%	0.42%	50.0%	5.0%	67.0%	2	\$65.34	\$131	24
Home Health Care	C	0	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	67.0%	0	\$65.34	\$0	0

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Sector	Category	Exposures	Non-Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Home Health Care	D	2,575	16.0%	0.083	50.0%	0.42%	50.0%	5.0%	67.0%	0	\$65.34	\$0	0
Hospices													
Hospices	A	684	42.0%	0.083	50.0%	0.42%	50.0%	5.0%	60.0%	0	\$65.34	\$0	0
Hospices	C	0	18.0%	0.083	50.0%	0.42%	50.0%	5.0%	60.0%	0	\$65.34	\$0	0
Hospices	D	215	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	60.0%	0	\$65.34	\$0	0
Hemodialysis													
Hemodialysis	A	4,684	8.0%	0.083	50.0%	0.42%	50.0%	5.0%	93.0%	0	\$65.34	\$0	0
Hemodialysis	C	477	42.0%	0.083	50.0%	0.42%	50.0%	5.0%	93.0%	0	\$65.34	\$0	0
Hemodialysis	D	141	19.0%	0.083	50.0%	0.42%	50.0%	5.0%	93.0%	0	\$65.34	\$0	0
Drug Rehabilitation													
Drug Rehabilitation	A	283	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	77.0%	0	\$65.34	\$0	0
Drug Rehabilitation	C	0	0.0%	0.083	50.0%	0.42%	50.0%	5.0%	77.0%	0	\$65.34	\$0	0
Drug Rehabilitation	D	0	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	77.0%	0	\$65.34	\$0	0
Government Clinics													
Government Clinics	A	16,013	27.0%	0.083	50.0%	0.42%	50.0%	5.0%	27.0%	7	\$65.34	\$457	84
Government Clinics	C	0	45.0%	0.083	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$65.34	\$0	0
Government Clinics	D	0	13.0%	0.083	50.0%	0.42%	50.0%	5.0%	27.0%	0	\$65.34	\$0	0
Blood/Plasma/Tissue Centers													
Blood/Plasma/Tissue Centers	A	6,453	35.0%	0.083	50.0%	0.10%	50.0%	5.0%	66.0%	2	\$65.34	\$131	24
Blood/Plasma/Tissue Centers	C	139	56.0%	0.083	50.0%	0.10%	50.0%	5.0%	66.0%	0	\$65.34	\$0	0
Blood/Plasma/Tissue Centers	D	197	49.0%	0.083	50.0%	0.10%	50.0%	5.0%	66.0%	0	\$65.34	\$0	0
Residential Care													

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Table 8a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Non-Vaccinated Workers

Sector	Category	Exposures	Non-Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$	j	k = i x j	L = i / c
Residential Care	A	4,850	36.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	2	\$65.34	\$131	24
Residential Care	C	388	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$65.34	\$0	0
Residential Care	D	2,571	27.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	1	\$65.34	\$65	12
Personnel Services													
Personnel Services	A	2,993	62.0%	0.000	50.0%	0.42%	50.0%	5.0%	83.0%	0	\$65.34	\$0	0
Personnel Services	D	0	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	0.0%	0	\$65.34	\$0	0
Funeral Services													
Funeral Services	A	11,735	33.0%	0.000	50.0%	0.42%	50.0%	5.0%	31.0%	0	\$65.34	\$0	0
Funeral Services	C	0	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	31.0%	0	\$65.34	\$0	0
Funeral Services	D	0	36.0%	0.000	50.0%	0.42%	50.0%	5.0%	31.0%	0	\$65.34	\$0	0
Health Units in Industry													
Health Units in Industry	A	186,835	40.0%	0.000	50.0%	0.42%	50.0%	5.0%	2.0%	0	\$65.34	\$0	0
Health Units in Industry	B	0	58.0%	0.000	50.0%	0.42%	50.0%	5.0%	2.0%	0	\$65.34	\$0	0
Health Units in Industry	D	0	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	2.0%	0	\$65.34	\$0	0
Research Labs													
Research Labs	A	494	19.0%	0.000	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$65.34	\$0	0
Research Labs	C	0	55.0%	0.000	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$65.34	\$0	0
Research Labs	D	0	19.0%	0.000	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$65.34	\$0	0
Linen Services													
Linen Services	D	3,000	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	90.0%	0	\$65.34	\$0	0
Medical Equipment Repair													
Medical Equipment Repair	A	0	59.0%	0.000	50.0%	0.42%	50.0%	5.0%	26.0%	0	\$65.34	\$0	0

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Table 8a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Non-Vaccinated Workers

Sector	Category	Exposures	Non-Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Medical Equipment Repair	B	0	63.0%	0.000	50.0%	0.42%	50.0%	5.0%	26.0%	0	\$65.34	\$0	0
Medical Equipment Repair	C	161	64.0%	0.000	50.0%	0.42%	50.0%	5.0%	26.0%	0	\$65.34	\$0	0
Medical Equipment Repair	D	2,464	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	26.0%	0	\$65.34	\$0	0
Law Enforcement													
Law Enforcement	A	18,993	58.0%	0.083	50.0%	0.42%	50.0%	5.0%	96.0%	1	\$65.34	\$65	12
Law Enforcement	B	2,770	8.0%	0.083	50.0%	0.42%	50.0%	5.0%	96.0%	0	\$65.34	\$0	0
Law Enforcement	C	1,444	69.0%	0.083	50.0%	0.42%	50.0%	5.0%	96.0%	0	\$65.34	\$0	0
Law Enforcement	D	4,204	54.0%	0.083	50.0%	0.42%	50.0%	5.0%	96.0%	0	\$65.34	\$0	0
Fire and Rescue													
Fire and Rescue	A	10,411	11.0%	0.000	50.0%	0.42%	50.0%	5.0%	71.0%	0	\$65.34	\$0	0
Fire and Rescue	B	857	14.0%	0.000	50.0%	0.42%	50.0%	5.0%	71.0%	0	\$65.34	\$0	0
Fire and Rescue	D	2,158	8.0%	0.000	50.0%	0.42%	50.0%	5.0%	71.0%	0	\$65.34	\$0	0
Correctional Facilities													
Correctional Facilities	A	3,034	46.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	2	\$65.34	\$131	24
Correctional Facilities	B	1,887	68.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	2	\$65.34	\$131	24
Correctional Facilities	C	459	70.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$65.34	\$0	0
Correctional Facilities	D	3,793	69.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	4	\$65.34	\$261	48
Lifesaving													
Lifesaving	A	457	24.0%	0.000	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$65.34	\$0	0
Schools													
Schools	A	6,321	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	0.0%	0	\$65.34	\$0	0
Schools	D	6,321	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	0.0%	0	\$65.34	\$0	0

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Table 8a - Healthcare Professional Time for HBV Post-Exposure Blood Tests to Non-Vaccinated Workers

Sector	Category	Exposures	Non-Vaccination Rate	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$	j	$k = i \times j$	$L = i / c$
Waste Removal													
Waste Removal	A	50	70.0%	0.000	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$65.34	\$0	0
Total		1,189,683								282		\$18,427	3,384

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Table 8b - HBV Antibody Testing for Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Non-Vaccination Rate	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Costs
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$
Offices of Physicians										
Offices of Physicians	A	179,493	27.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	27.0%	\$0
Offices of Physicians	C	0	45.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	27.0%	\$0
Offices of Physicians	D	0	13.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	27.0%	\$0
Offices of Dentists										
Offices of Dentists	A	279,485	8.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	19.0%	\$0
Offices of Dentists	C	43,075	56.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	19.0%	\$0
Nursing Homes										
Nursing Homes	A	35,746	62.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	31.0%	\$0
Nursing Homes	C	5,002	69.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	31.0%	\$0
Nursing Homes	D	4,636	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	31.0%	\$0
Hospitals										
Hospitals	A	254,449	23.0%	\$0.00	50.0%	1.25%	50.0%	5.0%	76.0%	\$0
Hospitals	B	34,579	23.0%	\$0.00	50.0%	1.25%	50.0%	5.0%	76.0%	\$0
Hospitals	C	30,799	38.0%	\$0.00	50.0%	1.25%	50.0%	5.0%	76.0%	\$0
Medical and Dental Labs										
Medical and Dental Labs	A	5,177	21.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Medical and Dental Labs	C	0	62.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Medical and Dental Labs	D	487	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Home Health Care										
Home Health Care	A	6,244	48.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	67.0%	\$0
Home Health Care	C	0	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	67.0%	\$0
Home Health Care	D	2,575	16.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	67.0%	\$0
Hospices										

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Table 8b - HBV Antibody Testing for Non Vaccinated Workers (Item 13 Costs)										
Sector	Category	Exposures	Non-Vaccination Rate	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Costs
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$
Hospices	A	684	42.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	60.0%	\$0
Hospices	C	0	18.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	60.0%	\$0
Hospices	D	215	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	60.0%	\$0
Hemodialysis										
Hemodialysis	A	4,684	8.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	93.0%	\$0
Hemodialysis	C	477	42.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	93.0%	\$0
Hemodialysis	D	141	19.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	93.0%	\$0
Drug Rehabilitation										
Drug Rehabilitation	A	283	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	77.0%	\$0
Drug Rehabilitation	C	0	0.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	77.0%	\$0
Drug Rehabilitation	D	0	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	77.0%	\$0
Government Clinics										
Government Clinics	A	16,013	27.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	27.0%	\$0
Government Clinics	C	0	45.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	27.0%	\$0
Government Clinics	D	0	13.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	27.0%	\$0
Blood/Plasma/Tissue Centers										
Blood/Plasma/Tissue Centers	A	6,453	35.0%	\$0.00	50.0%	0.10%	50.0%	5.0%	66.0%	\$0
Blood/Plasma/Tissue Centers	C	139	56.0%	\$0.00	50.0%	0.10%	50.0%	5.0%	66.0%	\$0
Blood/Plasma/Tissue Centers	D	197	49.0%	\$0.00	50.0%	0.10%	50.0%	5.0%	66.0%	\$0
Residential Care										
Residential Care	A	4,850	36.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Residential Care	C	388	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Residential Care	D	2,571	27.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Personnel Services										

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Table 8b - HBV Antibody Testing for Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Non-Vaccination Rate	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Costs
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$
Personnel Services	A	2,993	62.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	83.0%	\$590
Personnel Services	D	0	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	0.0%	\$0
Funeral Services										
Funeral Services	A	11,735	33.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	31.0%	\$4,996
Funeral Services	C	0	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	31.0%	\$0
Funeral Services	D	0	36.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	31.0%	\$0
Health Units in Industry										
Health Units in Industry	A	186,835	40.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	2.0%	\$136,950
Health Units in Industry	B	0	58.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	2.0%	\$0
Health Units in Industry	D	0	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	2.0%	\$0
Research Labs										
Research Labs	A	494	19.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$53
Research Labs	C	0	55.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Research Labs	D	0	19.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Linen Services										
Linen Services	D	3,000	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	90.0%	\$393
Medical Equipment Repair										
Medical Equipment Repair	A	0	59.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	26.0%	\$0
Medical Equipment Repair	B	0	63.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	26.0%	\$0
Medical Equipment Repair	C	161	64.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	26.0%	\$143
Medical Equipment Repair	D	2,464	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	26.0%	\$2,387
Law Enforcement										
Law Enforcement	A	18,993	58.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	96.0%	\$0
Law Enforcement	B	2,770	8.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	96.0%	\$0

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Table 8b - HBV Antibody Testing for Non Vaccinated Workers (Item 13 Costs)										
Sector	Category	Exposures	Non-Vaccination Rate	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Compliance Rate	Costs
		a	b	c	d	e	f	g	h	$i = a \times b \times c \times (d \times e + f \times g) \times (1 - h)$
Law Enforcement	C	1,444	69.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	96.0%	\$0
Law Enforcement	D	4,204	54.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	96.0%	\$0
Fire and Rescue										
Fire and Rescue	A	10,411	11.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	71.0%	\$621
Fire and Rescue	B	857	14.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	71.0%	\$65
Fire and Rescue	D	2,158	8.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	71.0%	\$94
Correctional Facilities										
Correctional Facilities	A	3,034	46.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Correctional Facilities	B	1,887	68.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Correctional Facilities	C	459	70.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Correctional Facilities	D	3,793	69.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Lifesaving										
Lifesaving	A	457	24.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	50.0%	\$103
Schools										
Schools	A	6,321	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	0.0%	\$8,274
Schools	D	6,321	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	0.0%	\$8,274
Waste Removal										
Waste Removal	A	50	70.0%	\$69.00	50.0%	0.42%	50.0%	5.0%	50.0%	\$33
Total		1,189,683								\$162,976

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Table 9 - Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Offices of Physicians														
Offices of Physicians	A	179,493	73.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	1	\$47.07	\$47	8
Offices of Physicians	C	0	55.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$47.07	\$0	0
Offices of Physicians	D	0	87.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$47.07	\$0	0
Offices of Dentists														
Offices of Dentists	A	279,485	92.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	89.0%	3	\$47.07	\$141	23
Offices of Dentists	C	43,075	44.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	89.0%	0	\$47.07	\$0	0
Nursing Homes														
Nursing Homes	A	35,746	38.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	65.0%	0	\$47.07	\$0	0
Nursing Homes	C	5,002	31.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	65.0%	0	\$47.07	\$0	0
Nursing Homes	D	4,636	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	65.0%	0	\$47.07	\$0	0
Hospitals														
Hospitals	A	254,449	77.0%	0.4%	0.128	50.0%	1.25%	50.0%	5.0%	26.0%	1	\$47.07	\$47	8
Hospitals	B	34,579	77.0%	0.4%	0.128	50.0%	1.25%	50.0%	5.0%	26.0%	0	\$47.07	\$0	0
Hospitals	C	30,799	62.0%	0.4%	0.128	50.0%	1.25%	50.0%	5.0%	26.0%	0	\$47.07	\$0	0
Medical and Dental Labs														
Medical and Dental Labs	A	5,177	79.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$47.07	\$0	0
Medical and Dental Labs	C	0	38.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$47.07	\$0	0
Medical and Dental Labs	D	487	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$47.07	\$0	0
Home Health Care														
Home Health Care	A	6,244	52.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$47.07	\$0	0
Home Health Care	C	0	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$47.07	\$0	0

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Table 9 - Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vaccination Rate	Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Home Health Care	D	2,575	84.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$47.07	\$0	0
Hospices														
Hospices	A	684	58.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Hospices	C	0	82.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Hospices	D	215	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Hemodialysis														
Hemodialysis	A	4,684	92.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$47.07	\$0	0
Hemodialysis	C	477	58.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$47.07	\$0	0
Hemodialysis	D	141	81.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$47.07	\$0	0
Drug Rehabilitation														
Drug Rehabilitation	A	283	78.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$47.07	\$0	0
Drug Rehabilitation	C	0	100.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$47.07	\$0	0
Drug Rehabilitation	D	0	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$47.07	\$0	0
Government Clinics														
Government Clinics	A	16,013	73.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$47.07	\$0	0
Government Clinics	C	0	55.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$47.07	\$0	0
Government Clinics	D	0	87.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$47.07	\$0	0
Blood/Plasma/Tissue Centers														
Blood/Plasma/Tissue Centers	A	6,453	65.0%	0.4%	0.128	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$47.07	\$0	0
Blood/Plasma/Tissue Centers	C	139	44.0%	0.4%	0.128	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$47.07	\$0	0
Blood/Plasma/Tissue Centers	D	197	51.0%	0.4%	0.128	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$47.07	\$0	0
Residential Care														

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Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Residential Care	A	4,850	64.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$47.07	\$0	0
Residential Care	C	388	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$47.07	\$0	0
Residential Care	D	2,571	73.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$47.07	\$0	0
Personnel Services														
Personnel Services	A	2,993	38.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	20.0%	0	\$47.07	\$0	0
Personnel Services	D	0	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$47.07	\$0	0
Funeral Services														
Funeral Services	A	11,735	67.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$47.07	\$0	0
Funeral Services	C	0	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$47.07	\$0	0
Funeral Services	D	0	64.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$47.07	\$0	0
Health Units in Industry														
Health Units in Industry	A	186,835	60.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	86.0%	5	\$47.07	\$235	10
Health Units in Industry	B	0	42.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$47.07	\$0	0
Health Units in Industry	D	0	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$47.07	\$0	0
Research Labs														
Research Labs	A	494	81.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$47.07	\$0	0
Research Labs	C	0	45.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$47.07	\$0	0
Research Labs	D	0	81.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$47.07	\$0	0
Linen Services														
Linen Services	D	3,000	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	10.0%	0	\$47.07	\$0	0
Medical Equipment Repair														
Medical Equipment Repair	A	0	41.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$47.07	\$0	0

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Table 9 - Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Medical Equipment Repair	B	0	37.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$47.07	\$0	0
Medical Equipment Repair	C	161	36.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$47.07	\$0	0
Medical Equipment Repair	D	2,464	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$47.07	\$0	0
Law Enforcement														
Law Enforcement	A	18,993	42.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$47.07	\$0	0
Law Enforcement	B	2,770	92.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$47.07	\$0	0
Law Enforcement	C	1,444	31.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$47.07	\$0	0
Law Enforcement	D	4,204	46.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$47.07	\$0	0
Fire and Rescue														
Fire and Rescue	A	10,411	89.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$47.07	\$0	0
Fire and Rescue	B	857	86.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$47.07	\$0	0
Fire and Rescue	D	2,158	92.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$47.07	\$0	0
Correctional Facilities														
Correctional Facilities	A	3,034	54.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Correctional Facilities	B	1,887	32.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Correctional Facilities	C	459	30.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Correctional Facilities	D	3,793	31.0%	0.4%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$47.07	\$0	0
Lifesaving														
Lifesaving	A	457	76.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$47.07	\$0	0
Schools														
Schools	A	6,321	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$47.07	\$0	0
Schools	D	6,321	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$47.07	\$0	0

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Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Waste Removal														
Waste Removal	A	50	30.0%	0.4%	0.500	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$47.07	\$0	0
Total		1,189,683									10		\$470	49

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Table 10a - Healthcare Workers Administering HBIG to Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j/d$
Offices of Physicians														
Offices of Physicians	A	179,493	73.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	1	\$71.35	\$71	12
Offices of Physicians	C	0	55.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$25.35	\$0	0
Offices of Physicians	D	0	87.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$32.65	\$0	0
Offices of Dentists														
Offices of Dentists	A	279,485	92.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	89.0%	2	\$71.35	\$143	24
Offices of Dentists	C	43,075	44.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	89.0%	0	\$25.35	\$0	0
Nursing Homes														
Nursing Homes	A	35,746	38.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	65.0%	0	\$71.35	\$0	0
Nursing Homes	C	5,002	31.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	65.0%	0	\$25.35	\$0	0
Nursing Homes	D	4,636	30.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	65.0%	0	\$32.65	\$0	0
Hospitals														
Hospitals	A	254,449	54.0%	0.4%	0.083	50.0%	1.25%	50.0%	5.0%	26.0%	0	\$71.35	\$0	0
Hospitals	B	34,579	54.0%	0.4%	0.083	50.0%	1.25%	50.0%	5.0%	26.0%	0	\$37.59	\$0	0
Hospitals	C	30,799	69.0%	0.4%	0.083	50.0%	1.25%	50.0%	5.0%	26.0%	0	\$25.35	\$0	0
Medical and Dental Labs														
Medical and Dental Labs	A	5,177	58.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$71.35	\$0	0
Medical and Dental Labs	C	0	88.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$25.35	\$0	0
Medical and Dental Labs	D	487	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$32.65	\$0	0
Home Health Care														
Home Health Care	A	6,244	77.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$71.35	\$0	0
Home Health Care	C	0	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$25.35	\$0	0

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Table 10a - Healthcare Workers Administering HBIG to Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Home Health Care	D	2,575	88.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$32.65	\$0	0
Hospices														
Hospices	A	684	77.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$71.35	\$0	0
Hospices	C	0	37.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$25.35	\$0	0
Hospices	D	215	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$32.65	\$0	0
Hemodialysis														
Hemodialysis	A	4,684	33.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$71.35	\$0	0
Hemodialysis	C	477	69.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$25.35	\$0	0
Hemodialysis	D	141	48.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$32.65	\$0	0
Drug Rehabilitation														
Drug Rehabilitation	A	283	49.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$71.35	\$0	0
Drug Rehabilitation	C	0	35.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$25.35	\$0	0
Drug Rehabilitation	D	0	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$32.65	\$0	0
Government Clinics														
Government Clinics	A	16,013	57.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$71.35	\$0	0
Government Clinics	C	0	67.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$25.35	\$0	0
Government Clinics	D	0	37.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$32.65	\$0	0
Blood/Plasma/Tissue Centers														
Blood/Plasma/Tissue Centers	A	6,453	60.0%	0.4%	0.083	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$71.35	\$0	0
Blood/Plasma/Tissue Centers	C	139	80.0%	0.4%	0.083	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$25.35	\$0	0
Blood/Plasma/Tissue Centers	D	197	51.0%	0.4%	0.083	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$32.65	\$0	0
Residential Care														

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Sector	Category	Exposures	Vaccination Rate	Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j/d$
Residential Care	A	4,850	73.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$71.35	\$0	0
Residential Care	C	388	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$25.35	\$0	0
Residential Care	D	2,571	42.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$32.65	\$0	0
Personnel Services														
Personnel Services	A	2,993	88.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	20.0%	0	\$71.35	\$0	0
Personnel Services	D	0	100.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$32.65	\$0	0
Funeral Services														
Funeral Services	A	11,735	65.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$71.35	\$0	0
Funeral Services	C	0	100.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$25.35	\$0	0
Funeral Services	D	0	63.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$32.65	\$0	0
Health Units in Industry														
Health Units in Industry	A	186,835	70.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$71.35	\$0	0
Health Units in Industry	B	0	83.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$37.59	\$0	0
Health Units in Industry	D	0	100.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$32.65	\$0	0
Research Labs														
Research Labs	A	494	54.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$71.35	\$0	0
Research Labs	C	0	79.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$25.35	\$0	0
Research Labs	D	0	54.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$32.65	\$0	0
Linen Services														
Linen Services	D	3,000	100.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	10.0%	0	\$32.65	\$0	0
Medical Equipment Repair														
Medical Equipment Repair	A	0	84.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$71.35	\$0	0

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Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j/d$
Medical Equipment Repair	B	0	90.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$37.59	\$0	0
Medical Equipment Repair	C	161	92.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$25.35	\$0	0
Medical Equipment Repair	D	2,464	100.0%	0.4%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$32.65	\$0	0
Law Enforcement														
Law Enforcement	A	18,993	83.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$71.35	\$0	0
Law Enforcement	B	2,770	47.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$37.59	\$0	0
Law Enforcement	C	1,444	98.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$25.35	\$0	0
Law Enforcement	D	4,204	77.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$32.65	\$0	0
Fire and Rescue														
Fire and Rescue	A	10,411	34.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$71.35	\$0	0
Fire and Rescue	B	857	44.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$37.59	\$0	0
Fire and Rescue	D	2,158	31.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$32.65	\$0	0
Correctional Facilities														
Correctional Facilities	A	3,034	79.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$71.35	\$0	0
Correctional Facilities	B	1,887	97.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$37.59	\$0	0
Correctional Facilities	C	459	90.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$25.35	\$0	0
Correctional Facilities	D	3,793	98.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$32.65	\$0	0
Lifesaving														
Lifesaving	A	457	75.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$71.35	\$0	0
Schools														
Schools	A	6,321	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$71.35	\$0	0
Schools	D	6,321	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$32.65	\$0	0

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Sector	Category	Exposures	Vaccination Rate	Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j}{x \times k}$	$m = j/d$
Waste Removal														
Waste Removal	A	50	100.0%	0.4%	0.083	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$71.35	\$0	0
Total		1,189,683									3		\$214	36

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Table 10b - Hepatitis B Immune Globulin Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$
Offices of Physicians											
Offices of Physicians	A	179,493	73.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Offices of Physicians	C	0	55.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Offices of Physicians	D	0	87.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Offices of Dentists											
Offices of Dentists	A	279,485	92.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	89.0%	\$0
Offices of Dentists	C	43,075	44.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	89.0%	\$0
Nursing Homes											
Nursing Homes	A	35,746	38.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	65.0%	\$0
Nursing Homes	C	5,002	31.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	65.0%	\$0
Nursing Homes	D	4,636	30.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	65.0%	\$0
Hospitals											
Hospitals	A	254,449	54.0%	0.4%	\$0.00	50.0%	1.25%	50.0%	5.0%	26.0%	\$0
Hospitals	B	34,579	54.0%	0.4%	\$0.00	50.0%	1.25%	50.0%	5.0%	26.0%	\$0
Hospitals	C	30,799	69.0%	0.4%	\$0.00	50.0%	1.25%	50.0%	5.0%	26.0%	\$0
Medical and Dental Labs											
Medical and Dental Labs	A	5,177	58.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	62.0%	\$0
Medical and Dental Labs	C	0	88.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	62.0%	\$0
Medical and Dental Labs	D	487	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	62.0%	\$0
Home Health Care											
Home Health Care	A	6,244	77.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Home Health Care	C	0	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Home Health Care	D	2,575	88.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0

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Table 10b - Hepatitis B Immune Globulin Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$
Hospices											
Hospices	A	684	77.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Hospices	C	0	37.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Hospices	D	215	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Hemodialysis											
Hemodialysis	A	4,684	33.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	28.0%	\$0
Hemodialysis	C	477	69.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	28.0%	\$0
Hemodialysis	D	141	48.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	28.0%	\$0
Drug Rehabilitation											
Drug Rehabilitation	A	283	49.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Drug Rehabilitation	C	0	35.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Drug Rehabilitation	D	0	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Government Clinics											
Government Clinics	A	16,013	57.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Government Clinics	C	0	67.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Government Clinics	D	0	37.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Blood/Plasma/Tissue Centers											
Blood/Plasma/Tissue Centers	A	6,453	60.0%	0.4%	\$0.00	50.0%	0.10%	50.0%	5.0%	42.0%	\$0
Blood/Plasma/Tissue Centers	C	139	80.0%	0.4%	\$0.00	50.0%	0.10%	50.0%	5.0%	42.0%	\$0
Blood/Plasma/Tissue Centers	D	197	51.0%	0.4%	\$0.00	50.0%	0.10%	50.0%	5.0%	42.0%	\$0
Residential Care											
Residential Care	A	4,850	73.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	66.0%	\$0
Residential Care	C	388	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	66.0%	\$0

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Table 10b - Hepatitis B Immune Globulin Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times b \times c \times d \times (e \times f + g \times h) \times i$
Residential Care	D	2,571	42.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	66.0%	\$0
Personnel Services											
Personnel Services	A	2,993	88.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	20.0%	\$14
Personnel Services	D	0	100.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	100.0%	\$0
Funeral Services											
Funeral Services	A	11,735	65.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$166
Funeral Services	C	0	100.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Funeral Services	D	0	63.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Health Units in Industry											
Health Units in Industry	A	186,835	70.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	86.0%	\$3,066
Health Units in Industry	B	0	83.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Health Units in Industry	D	0	100.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Research Labs											
Research Labs	A	494	54.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$6
Research Labs	C	0	79.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Research Labs	D	0	54.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Linen Services											
Linen Services	D	3,000	100.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	10.0%	\$8
Medical Equipment Repair											
Medical Equipment Repair	A	0	84.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$0
Medical Equipment Repair	B	0	90.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$0
Medical Equipment Repair	C	161	92.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$3
Medical Equipment Repair	D	2,464	100.0%	0.4%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$50

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Table 10b - Hepatitis B Immune Globulin Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Cost	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	j = a x b x c x d x (e x f + g x h) x i
Law Enforcement											
Law Enforcement	A	18,993	83.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Law Enforcement	B	2,770	47.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Law Enforcement	C	1,444	98.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Law Enforcement	D	4,204	77.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Fire and Rescue											
Fire and Rescue	A	10,411	34.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	29.0%	\$0
Fire and Rescue	B	857	44.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	29.0%	\$0
Fire and Rescue	D	2,158	31.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	29.0%	\$0
Correctional Facilities											
Correctional Facilities	A	3,034	79.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Correctional Facilities	B	1,887	97.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Correctional Facilities	C	459	90.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Correctional Facilities	D	3,793	98.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Lifesaving											
Lifesaving	A	457	75.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	50.0%	\$0
Schools											
Schools	A	6,321	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	100.0%	\$0
Schools	D	6,321	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	100.0%	\$0
Waste Removal											
Waste Removal	A	50	100.0%	0.4%	\$0.00	50.0%	0.42%	50.0%	5.0%	50.0%	\$0
Total		1,189,683									\$3,313

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Table 11 - Non-Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vax Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exp. Att. to High Risk Group	Non-Comp Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j \times k}{k}$	$m = j / d$
Offices of Physicians														
Offices of Physicians	A	179,493	73.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	28	\$58.61	\$1,641	219
Offices of Physicians	C	0	55.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$21.03	\$0	0
Offices of Physicians	D	0	87.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$26.57	\$0	0
Offices of Dentists														
Offices of Dentists	A	279,485	92.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	89.0%	15	\$58.61	\$879	117
Offices of Dentists	C	43,075	44.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	89.0%	16	\$21.03	\$336	125
Nursing Homes														
Nursing Homes	A	35,746	38.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	65.0%	11	\$58.61	\$645	86
Nursing Homes	C	5,002	31.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	65.0%	2	\$21.03	\$42	16
Nursing Homes	D	4,636	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	65.0%	2	\$26.57	\$53	16
Hospitals														
Hospitals	A	254,449	77.0%	22.0%	0.128	50.0%	1.25%	50.0%	5.0%	26.0%	13	\$58.61	\$762	102
Hospitals	B	34,579	77.0%	22.0%	0.128	50.0%	1.25%	50.0%	5.0%	26.0%	2	\$30.87	\$62	16
Hospitals	C	30,799	62.0%	22.0%	0.128	50.0%	1.25%	50.0%	5.0%	26.0%	3	\$21.03	\$63	23
Medical and Dental Labs														
Medical and Dental Labs	A	5,177	79.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	62.0%	1	\$58.61	\$59	8
Medical and Dental Labs	C	0	38.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$21.03	\$0	0
Medical and Dental Labs	D	487	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$26.57	\$0	0
Home Health Care														
Home Health Care	A	6,244	52.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	1	\$58.61	\$59	8
Home Health Care	C	0	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$21.03	\$0	0
Home Health Care	D	2,575	84.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$26.57	\$0	0

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Table 11 - Non-Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vax Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exp. Att. to High Risk Group	Non-Comp Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = j \times k$	$m = j / d$
Hospices														
Hospices	A	684	58.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$58.61	\$0	0
Hospices	C	0	82.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$21.03	\$0	0
Hospices	D	215	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$26.57	\$0	0
Hemodialysis														
Hemodialysis	A	4,684	92.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$58.61	\$0	0
Hemodialysis	C	477	68.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$21.03	\$0	0
Hemodialysis	D	141	81.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$26.57	\$0	0
Drug Rehabilitation														
Drug Rehabilitation	A	283	78.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$58.61	\$0	0
Drug Rehabilitation	C	0	100.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$21.03	\$0	0
Drug Rehabilitation	D	0	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$26.57	\$0	0
Government Clinics														
Government Clinics	A	16,013	73.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	2	\$58.61	\$117	16
Government Clinics	C	0	55.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$21.03	\$0	0
Government Clinics	D	0	87.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$26.57	\$0	0
Blood/Plasma/Tissue Centers														
Blood/Plasma/Tissue Centers	A	6,453	65.0%	22.0%	0.128	50.0%	0.10%	50.0%	5.0%	42.0%	1	\$58.61	\$59	8
Blood/Plasma/Tissue Centers	C	139	44.0%	22.0%	0.128	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$21.03	\$0	0
Blood/Plasma/Tissue Centers	D	197	71.0%	22.0%	0.128	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$26.57	\$0	0
Residential Care														

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Table 11 - Non-Vaccinated Workers Receiving HBIG

Sector	Category	Exposures	Vax Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exp. Att. to High Risk Group	Non-Comp Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j \times k}{k}$	$m = j / d$
Residential Care	A	4,850	64.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	66.0%	1	\$58.61	\$59	8
Residential Care	C	388	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$21.03	\$0	0
Residential Care	D	2,571	73.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$26.57	\$0	0
Personnel Services														
Personnel Services	A	2,993	38.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	20.0%	1	\$58.61	\$59	2
Personnel Services	D	0	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$26.57	\$0	0
Funeral Services														
Funeral Services	A	11,735	67.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	9	\$58.61	\$527	18
Funeral Services	C	0	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$21.03	\$0	0
Funeral Services	D	0	64.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$26.57	\$0	0
Health Units in Industry														
Health Units in Industry	A	186,835	60.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	86.0%	192	\$58.61	\$11,253	384
Health Units in Industry	B	0	42.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$30.87	\$0	0
Health Units in Industry	D	0	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$26.57	\$0	0
Research Labs														
Research Labs	A	494	81.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$58.61	\$0	0
Research Labs	C	0	45.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$21.03	\$0	0
Research Labs	D	0	81.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$26.57	\$0	0
Linen Services														
Linen Services	D	3,000	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	10.0%	1	\$26.57	\$27	2
Medical Equipment Repair														
Medical Equipment Repair	A	0	41.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$58.61	\$0	0
Medical Equipment Repair	B	0	37.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$30.87	\$0	0

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Table 11 - Non-Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vax Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exp. Att. to High Risk Group	Non-Comp Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j \times k}{k}$	$m = j / d$
Medical Equipment Repair	C	161	36.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$21.03	\$0	0
Medical Equipment Repair	D	2,464	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	74.0%	4	\$26.57	\$106	8
Law Enforcement														
Law Enforcement	A	18,993	42.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$58.61	\$0	0
Law Enforcement	B	2,770	92.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$30.87	\$0	0
Law Enforcement	C	1,444	31.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$21.03	\$0	0
Law Enforcement	D	4,204	46.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$26.57	\$0	0
Fire and Rescue														
Fire and Rescue	A	10,411	89.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	29.0%	1	\$58.61	\$59	2
Fire and Rescue	B	857	86.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$30.87	\$0	0
Fire and Rescue	D	2,158	92.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$26.57	\$0	0
Correctional Facilities														
Correctional Facilities	A	3,034	54.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	1	\$58.61	\$59	8
Correctional Facilities	B	1,887	32.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	1	\$30.87	\$31	8
Correctional Facilities	C	459	30.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$21.03	\$0	0
Correctional Facilities	D	3,793	31.0%	22.0%	0.128	50.0%	0.42%	50.0%	5.0%	61.0%	1	\$26.57	\$27	8
Lifesaving														
Lifesaving	A	457	78.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$58.61	\$0	0
Schools														
Schools	A	6,321	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	100.0%	13	\$58.61	\$762	26
Schools	D	6,321	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	100.0%	13	\$26.57	\$345	26
Waste Removal														
Waste Removal	A	50	30.0%	22.0%	0.500	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$58.61	\$0	0

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Table 11 - Non-Vaccinated Workers Receiving HBIG														
Sector	Category	Exposures	Vax Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exp. Att. to High Risk Group	Non-Comp Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j \times k}{k}$	$m = j / d$
Total		1,189,683									335		\$18,091	1,260

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Table 12a - Healthcare Workers Administering HBIG to Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Att. to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j}{x k}$	$m = j / d$
Offices of Physicians														
Offices of Physicians	A	179,493	73.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	18	\$65.34	\$1,176	216
Offices of Physicians	C	0	55.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$65.34	\$0	0
Offices of Physicians	D	0	87.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$65.34	\$0	0
Offices of Dentists														
Offices of Dentists	A	279,485	92.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	89.0%	10	\$65.34	\$653	120
Offices of Dentists	C	43,075	44.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	89.0%	11	\$65.34	\$719	132
Nursing Homes														
Nursing Homes	A	35,746	38.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	65.0%	7	\$65.34	\$457	84
Nursing Homes	C	5,002	31.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	65.0%	1	\$65.34	\$65	12
Nursing Homes	D	4,636	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	65.0%	1	\$65.34	\$65	12
Hospitals														
Hospitals	A	254,449	77.0%	22.0%	0.083	50.0%	1.25%	50.0%	5.0%	26.0%	9	\$65.34	\$588	108
Hospitals	B	34,579	77.0%	22.0%	0.083	50.0%	1.25%	50.0%	5.0%	26.0%	1	\$65.34	\$65	12
Hospitals	C	30,799	62.0%	22.0%	0.083	50.0%	1.25%	50.0%	5.0%	26.0%	2	\$65.34	\$131	24
Medical and Dental Labs														
Medical and Dental Labs	A	5,177	79.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$65.34	\$0	0
Medical and Dental Labs	C	0	38.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$65.34	\$0	0
Medical and Dental Labs	D	487	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	62.0%	0	\$65.34	\$0	0
Home Health Care														
Home Health Care	A	6,244	52.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	1	\$65.34	\$65	12
Home Health Care	C	0	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$65.34	\$0	0

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Table 12a - Healthcare Workers Administering HBIG to Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Att. to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j}{x \times k}$	$m = j / d$
Home Health Care	D	2,575	84.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	39.0%	0	\$65.34	\$0	0
Hospices														
Hospices	A	684	58.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$65.34	\$0	0
Hospices	C	0	82.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$65.34	\$0	0
Hospices	D	215	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$65.34	\$0	0
Hemodialysis														
Hemodialysis	A	4,684	92.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$65.34	\$0	0
Hemodialysis	C	477	68.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$65.34	\$0	0
Hemodialysis	D	141	81.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	28.0%	0	\$65.34	\$0	0
Drug Rehabilitation														
Drug Rehabilitation	A	283	78.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$65.34	\$0	0
Drug Rehabilitation	C	0	100.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$65.34	\$0	0
Drug Rehabilitation	D	0	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	70.0%	0	\$65.34	\$0	0
Government Clinics														
Government Clinics	A	16,013	73.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	2	\$65.34	\$131	24
Government Clinics	C	0	55.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$65.34	\$0	0
Government Clinics	D	0	87.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	75.0%	0	\$65.34	\$0	0
Blood/Plasma/Tissue Centers														
Blood/Plasma/Tissue Centers	A	6,453	65.0%	22.0%	0.083	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$65.34	\$0	0
Blood/Plasma/Tissue Centers	C	139	44.0%	22.0%	0.083	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$65.34	\$0	0
Blood/Plasma/Tissue Centers	D	197	71.0%	22.0%	0.083	50.0%	0.10%	50.0%	5.0%	42.0%	0	\$65.34	\$0	0
Residential Care														

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Table 12a - Healthcare Workers Administering HBIG to Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Att. to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j}{x \ k}$	$m = j / d$
Residential Care	A	4,850	64.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	66.0%	1	\$65.34	\$65	12
Residential Care	C	388	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$65.34	\$0	0
Residential Care	D	2,571	73.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	66.0%	0	\$65.34	\$0	0
Personnel Services														
Personnel Services	A	2,993	38.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	20.0%	0	\$65.34	\$0	0
Personnel Services	D	0	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$65.34	\$0	0
Funeral Services														
Funeral Services	A	11,735	67.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$65.34	\$0	0
Funeral Services	C	0	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$65.34	\$0	0
Funeral Services	D	0	64.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$65.34	\$0	0
Health Units in Industry														
Health Units in Industry	A	186,835	60.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$65.34	\$0	0
Health Units in Industry	B	0	42.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$65.34	\$0	0
Health Units in Industry	D	0	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	86.0%	0	\$65.34	\$0	0
Research Labs														
Research Labs	A	494	81.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$65.34	\$0	0
Research Labs	C	0	45.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$65.34	\$0	0
Research Labs	D	0	81.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	80.0%	0	\$65.34	\$0	0
Linen Services														
Linen Services	D	3,000	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	10.0%	0	\$65.34	\$0	0
Medical Equipment Repair														
Medical Equipment Repair	A	0	41.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$65.34	\$0	0

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Table 12a - Healthcare Workers Administering HBIG to Non-Vaccinated Workers

Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Att. to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j}{x \ k}$	$m = j / d$
Medical Equipment Repair	B	0	37.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$65.34	\$0	0
Medical Equipment Repair	C	161	36.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$65.34	\$0	0
Medical Equipment Repair	D	2,464	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	74.0%	0	\$65.34	\$0	0
Law Enforcement														
Law Enforcement	A	18,993	42.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$65.34	\$0	0
Law Enforcement	B	2,770	92.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$65.34	\$0	0
Law Enforcement	C	1,444	31.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$65.34	\$0	0
Law Enforcement	D	4,204	46.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	4.0%	0	\$65.34	\$0	0
Fire and Rescue														
Fire and Rescue	A	10,411	89.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$65.34	\$0	0
Fire and Rescue	B	857	86.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$65.34	\$0	0
Fire and Rescue	D	2,158	92.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	29.0%	0	\$65.34	\$0	0
Correctional Facilities														
Correctional Facilities	A	3,034	54.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$65.34	\$0	0
Correctional Facilities	B	1,887	32.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$65.34	\$0	0
Correctional Facilities	C	459	30.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	0	\$65.34	\$0	0
Correctional Facilities	D	3,793	31.0%	22.0%	0.083	50.0%	0.42%	50.0%	5.0%	61.0%	1	\$65.34	\$65	12
Lifesaving														
Lifesaving	A	457	78.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$65.34	\$0	0
Schools														
Schools	A	6,321	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$65.34	\$0	0
Schools	D	6,321	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	100.0%	0	\$65.34	\$0	0

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Table 12a - Healthcare Workers Administering HBIG to Non-Vaccinated Workers														
Sector	Category	Exposures	Vaccination Rate	Add. Adj. Factor	Unit Burden	Source Part. Rate	RSS	Sources Refusing Test	% Exposures Att. to High Risk Group	Non-Compliance Rate	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$	k	$L = \frac{j}{x \times k}$	$m = j / d$
Waste Removal														
Waste Removal	A	50	30.0%	22.0%	0.000	50.0%	0.42%	50.0%	5.0%	50.0%	0	\$65.34	\$0	0
Total		1,189,683									65		\$4,245	780

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Table 12b - Hepatitis B Immune Globulin Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$
Offices of Physicians											
Offices of Physicians	A	179,493	73.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Offices of Physicians	C	0	55.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Offices of Physicians	D	0	87.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Offices of Dentists											
Offices of Dentists	A	279,485	92.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	89.0%	\$0
Offices of Dentists	C	43,075	44.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	89.0%	\$0
Nursing Homes											
Nursing Homes	A	35,746	38.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	65.0%	\$0
Nursing Homes	C	5,002	31.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	65.0%	\$0
Nursing Homes	D	4,636	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	65.0%	\$0
Hospitals											
Hospitals	A	254,449	77.0%	22.0%	\$0.00	50.0%	1.25%	50.0%	5.0%	26.0%	\$0
Hospitals	B	34,579	77.0%	22.0%	\$0.00	50.0%	1.25%	50.0%	5.0%	26.0%	\$0
Hospitals	C	30,799	62.0%	22.0%	\$0.00	50.0%	1.25%	50.0%	5.0%	26.0%	\$0
Medical and Dental Labs											
Medical and Dental Labs	A	5,177	79.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	62.0%	\$0
Medical and Dental Labs	C	0	38.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	62.0%	\$0
Medical and Dental Labs	D	487	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	62.0%	\$0
Home Health Care											
Home Health Care	A	6,244	52.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Home Health Care	C	0	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0

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Table 12b - Hepatitis B Immune Globulin Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$
Home Health Care	D	2,575	84.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	39.0%	\$0
Hospices											
Hospices	A	684	58.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Hospices	C	0	82.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Hospices	D	215	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Hemodialysis											
Hemodialysis	A	4,684	92.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	28.0%	\$0
Hemodialysis	C	477	68.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	28.0%	\$0
Hemodialysis	D	141	81.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	28.0%	\$0
Drug Rehabilitation											
Drug Rehabilitation	A	283	78.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Drug Rehabilitation	C	0	100.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Drug Rehabilitation	D	0	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	70.0%	\$0
Government Clinics											
Government Clinics	A	16,013	73.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Government Clinics	C	0	55.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Government Clinics	D	0	87.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	75.0%	\$0
Blood/Plasma/Tissue Centers											
Blood/Plasma/Tissue Centers	A	6,453	65.0%	22.0%	\$0.00	50.0%	0.10%	50.0%	5.0%	42.0%	\$0
Blood/Plasma/Tissue Centers	C	139	44.0%	22.0%	\$0.00	50.0%	0.10%	50.0%	5.0%	42.0%	\$0
Blood/Plasma/Tissue Centers	D	197	71.0%	22.0%	\$0.00	50.0%	0.10%	50.0%	5.0%	42.0%	\$0
Residential Care											

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Table 12b - Hepatitis B Immune Globulin Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$
Residential Care	A	4,850	64.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	66.0%	\$0
Residential Care	C	388	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	66.0%	\$0
Residential Care	D	2,571	73.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	66.0%	\$0
Personnel Services											
Personnel Services	A	2,993	38.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	20.0%	\$556
Personnel Services	D	0	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	100.0%	\$0
Funeral Services											
Funeral Services	A	11,735	67.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$4,645
Funeral Services	C	0	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Funeral Services	D	0	64.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Health Units in Industry											
Health Units in Industry	A	186,835	60.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	86.0%	\$96,367
Health Units in Industry	B	0	42.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Health Units in Industry	D	0	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	86.0%	\$0
Research Labs											
Research Labs	A	494	81.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$113
Research Labs	C	0	45.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Research Labs	D	0	81.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	80.0%	\$0
Linen Services											
Linen Services	D	3,000	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	10.0%	\$315
Medical Equipment Repair											
Medical Equipment Repair	A	0	41.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$0

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Table 12b - Hepatitis B Immune Globulin Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$
Medical Equipment Repair	B	0	37.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$0
Medical Equipment Repair	C	161	36.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$114
Medical Equipment Repair	D	2,464	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	74.0%	\$1,914
Law Enforcement											
Law Enforcement	A	18,993	42.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Law Enforcement	B	2,770	92.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Law Enforcement	C	1,444	31.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Law Enforcement	D	4,204	46.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	4.0%	\$0
Fire and Rescue											
Fire and Rescue	A	10,411	89.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	29.0%	\$498
Fire and Rescue	B	857	86.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	29.0%	\$52
Fire and Rescue	D	2,158	92.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	29.0%	\$75
Correctional Facilities											
Correctional Facilities	A	3,034	54.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Correctional Facilities	B	1,887	32.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Correctional Facilities	C	459	30.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Correctional Facilities	D	3,793	31.0%	22.0%	\$0.00	50.0%	0.42%	50.0%	5.0%	61.0%	\$0
Lifesaving											
Lifesaving	A	457	78.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	50.0%	\$75
Schools											
Schools	A	6,321	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	100.0%	\$6,634
Schools	D	6,321	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	100.0%	\$6,634

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Table 12b - Hepatitis B Immune Globulin Non Vaccinated Workers (Item 13 Costs)

Sector	Category	Exposures	Vaccination Rate	Additional Adjustment Factor	Unit Burden	Source Participation Rate	RSS	Sources Refusing Test	% Exposures Attributable to High Risk Group	Non-Compliance Rate	Costs
		a	b	c	d	e	f	g	h	i	$j = a \times (1 - b) \times c \times d \times (e \times f + g \times h) \times i$
Waste Removal											
Waste Removal	A	50	30.0%	22.0%	\$251.49	50.0%	0.42%	50.0%	5.0%	50.0%	\$26
Total		1,189,683									\$118,018

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Table 13 - HIV Serologic Testing and Post Exposure Prophylaxis (PEP) for Exposed Workers (Employee Time)												
Sector	Exposures	Employee Part. Rate	Sources Refusing Test	Source Part. Rate	RSS	No. of Tests	Unit Burden	Non-Compliance Rate	Hours	Wage	Costs	Responses
	a	b	c	d	e	f	g	h	$i = a \times b \times (c + (d \times e)) \times f \times g \times h$	j	$k = i \times j$	$L = i / g$
Offices of Physicians	179,493	80%	50%	50%	0.80%	4	0.128	76%	28,161	\$47.07	\$1,325,538	220,008
Offices of Dentists	322,560	80%	50%	50%	0.80%	4	0.128	90%	59,930	\$47.07	\$2,820,905	468,203
Nursing Homes	45,384	80%	50%	50%	0.80%	4	0.128	77%	7,214	\$47.07	\$339,563	56,359
Hospitals	319,827	80%	50%	50%	0.80%	4	0.128	35%	23,109	\$47.07	\$1,087,741	180,539
Medical and Dental Labs	5,664	80%	50%	50%	0.80%	4	0.128	11%	129	\$47.07	\$6,072	1,008
Home Health Care	8,819	80%	50%	50%	0.80%	4	0.128	42%	765	\$47.07	\$36,009	5,977
Hospices	899	80%	50%	50%	0.80%	4	0.128	53%	98	\$47.07	\$4,613	766
Hemodialysis	5,302	80%	50%	50%	0.80%	4	0.128	31%	339	\$47.07	\$15,957	2,648
Drug Rehabilitation	283	80%	50%	50%	0.80%	4	0.128	40%	23	\$47.07	\$1,083	180
Government Clinics	16,013	80%	50%	50%	0.80%	4	0.128	76%	2,512	\$47.07	\$118,240	19,625
Blood/Plasma/Tissue Centers	6,789	80%	50%	50%	0.05%	4	0.128	43%	598	\$47.07	\$28,148	4,672
Residential Care	7,809	80%	50%	50%	0.80%	4	0.128	93%	1,499	\$47.07	\$70,558	11,711
Personnel Services	2,993	80%	50%	50%	0.80%	4	0.500	23%	555	\$47.07	\$26,124	1,110
Funeral Services	11,735	80%	50%	50%	0.80%	4	0.500	78%	7,381	\$47.07	\$347,424	14,762
Health Units in Industry	186,835	80%	50%	50%	0.80%	4	0.500	86%	129,571	\$47.07	\$6,098,907	259,142
Research Labs	494	80%	50%	50%	0.80%	4	0.500	40%	159	\$47.07	\$7,484	318
Linen Services	3,000	80%	50%	50%	0.80%	4	0.500	10%	242	\$47.07	\$11,391	484
Medical Equipment Repair	2,625	80%	50%	50%	0.80%	4	0.500	100%	2,117	\$47.07	\$99,647	4,234
Law Enforcement	27,411	80%	50%	50%	17.00%	4	0.128	9%	591	\$47.07	\$27,818	4,617
Fire and Rescue	13,426	80%	50%	50%	0.80%	4	0.500	32%	3,465	\$47.07	\$163,098	6,930
Correctional Facilities	9,173	80%	50%	50%	17.00%	4	0.128	53%	1,165	\$47.07	\$54,837	9,102
Lifesaving	457	80%	50%	50%	0.80%	4	0.500	50%	184	\$47.07	\$8,661	368
Schools	12,642	80%	50%	50%	0.80%	4	0.500	100%	10,195	\$47.07	\$479,879	20,390
Waste Removal	50	80%	50%	50%	0.80%	4	0.500	50%	20	\$47.07	\$941	40
Totals	1,189,683								280,022		\$13,180,638	1,293,193

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Table 14a - HIV Serologic Testing and Post Exposure Prophylaxis (PEP) for Exposed Workers (Healthcare Professional Time)

Sector	Exposures	Employee Part. Rate	Sources Refusing Test	Source Part. Rate	RSS	No. of Tests	Unit Burden	Non-Compliance Rate	Hours	Wage	Costs	Responses
	a	b	c	d	e	f	g	h	$i = a \times b \times (c + (d \times e)) \times f \times g \times h$	j	$k = i \times j$	$L = i \times 2$
Offices of Physicians	179,493	80%	50%	50%	0.80%	4	0.083	76%	18,334	\$65.34	\$1,197,944	36,668
Offices of Dentists	322,560	80%	50%	50%	0.80%	4	0.083	90%	39,017	\$65.34	\$2,549,371	78,034
Nursing Homes	45,384	80%	50%	50%	0.80%	4	0.083	77%	4,697	\$65.34	\$306,902	9,394
Hospitals	319,827	80%	50%	50%	0.80%	4	0.083	35%	15,045	\$65.34	\$983,040	30,090
Medical and Dental Labs	5,664	80%	50%	50%	0.80%	4	0.083	11%	84	\$65.34	\$5,489	168
Home Health Care	8,819	80%	50%	50%	0.80%	4	0.083	42%	498	\$65.34	\$32,539	996
Hospices	899	80%	50%	50%	0.80%	4	0.083	53%	64	\$65.34	\$4,182	128
Hemodialysis	5,302	80%	50%	50%	0.80%	4	0.083	31%	221	\$65.34	\$14,440	442
Drug Rehabilitation	283	80%	50%	50%	0.80%	4	0.083	40%	15	\$65.34	\$980	30
Government Clinics	16,013	80%	50%	50%	0.80%	4	0.083	76%	1,636	\$65.34	\$106,896	3,272
Blood/Plasma/Tissue Centers	6,789	80%	50%	50%	0.05%	4	0.083	43%	389	\$65.34	\$25,417	778
Residential Care	7,809	80%	50%	50%	0.80%	4	0.083	93%	976	\$65.34	\$63,772	1,952
Personnel Services	2,993	80%	50%	50%	0.80%	4	0.000	23%	0	\$65.34	\$0	0
Funeral Services	11,735	80%	50%	50%	0.80%	4	0.000	78%	0	\$65.34	\$0	0
Health Units in Industry	186,835	80%	50%	50%	0.80%	4	0.000	86%	0	\$65.34	\$0	0
Research Labs	494	80%	50%	50%	0.80%	4	0.000	40%	0	\$65.34	\$0	0
Linen Services	3,000	80%	50%	50%	0.80%	4	0.000	10%	0	\$65.34	\$0	0
Medical Equipment Repair	2,625	80%	50%	50%	0.80%	4	0.000	100%	0	\$65.34	\$0	0
Law Enforcement	27,411	80%	50%	50%	17.00%	4	0.083	9%	385	\$65.34	\$25,156	770
Fire and Rescue	13,426	80%	50%	50%	0.80%	4	0.000	32%	0	\$65.34	\$0	0
Correctional Facilities	9,173	80%	50%	50%	17.00%	4	0.083	53%	758	\$65.34	\$49,528	1,516
Lifesaving	457	80%	50%	50%	0.80%	4	0.000	50%	0	\$65.34	\$0	0
Schools	12,642	80%	50%	50%	0.80%	4	0.000	100%	0	\$65.34	\$0	0
Waste Removal	50	80%	50%	50%	0.80%	4	0.000	50%	0	\$65.34	\$0	0
Totals	1,189,683								82,119		\$5,365,656	164,238

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Table 14b - HIV Antibody Tests (Item 13 Costs)									
Sector	Exposures	Employee Participation Rate	Sources Refusing Test	Source Participation Rate	RSS	Number of Tests	Unit Cost	Non-Compliance Rate	Costs
	a	b	c	d	e	f	g	h	$i = a \times b \times (c + (d \times e)) \times f \times g \times h$
Offices of Physicians	179,493	80%	50%	50%	0.80%	4	\$0.00	76%	\$0
Offices of Dentists	322,560	80%	50%	50%	0.80%	4	\$0.00	90%	\$0
Nursing Homes	45,384	80%	50%	50%	0.80%	4	\$0.00	77%	\$0
Hospitals	319,827	80%	50%	50%	0.80%	4	\$0.00	35%	\$0
Medical and Dental Labs	5,664	80%	50%	50%	0.80%	4	\$0.00	11%	\$0
Home Health Care	8,819	80%	50%	50%	0.80%	4	\$0.00	42%	\$0
Hospices	899	80%	50%	50%	0.80%	4	\$0.00	53%	\$0
Hemodialysis	5,302	80%	50%	50%	0.80%	4	\$0.00	31%	\$0
Drug Rehabilitation	283	80%	50%	50%	0.80%	4	\$0.00	40%	\$0
Government Clinics	16,013	80%	50%	50%	0.80%	4	\$0.00	76%	\$0
Blood/Plasma/Tissue Centers	6,789	80%	50%	50%	0.05%	4	\$0.00	43%	\$0
Residential Care	7,809	80%	50%	50%	0.80%	4	\$0.00	93%	\$0
Personnel Services	2,993	80%	50%	50%	0.80%	4	\$89.00	23%	\$98,811
Funeral Services	11,735	80%	50%	50%	0.80%	4	\$89.00	78%	\$1,313,857
Health Units in Industry	186,835	80%	50%	50%	0.80%	4	\$89.00	86%	\$23,063,606
Research Labs	494	80%	50%	50%	0.80%	4	\$89.00	40%	\$28,363
Linen Services	3,000	80%	50%	50%	0.80%	4	\$89.00	10%	\$43,062
Medical Equipment Repair	2,625	80%	50%	50%	0.80%	4	\$89.00	100%	\$376,790
Law Enforcement	27,411	80%	50%	50%	17.00%	4	\$0.00	9%	\$0
Fire and Rescue	13,426	80%	50%	50%	0.80%	4	\$89.00	32%	\$616,690
Correctional Facilities	9,173	80%	50%	50%	17.00%	4	\$0.00	53%	\$0
Lifesaving	457	80%	50%	50%	0.80%	4	\$89.00	50%	\$32,799
Schools	12,642	80%	50%	50%	0.80%	4	\$89.00	100%	\$1,814,623
Waste Removal	50	80%	50%	50%	0.80%	4	\$89.00	50%	\$3,588
Totals	1,189,683								\$27,392,189

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Table 15 - Counseling for Exposed Workers												
Sector	Exposures	Employee Part. Rate	Sources Refusing Test	Source Part. Rate	RSS	No. of Sessions	Unit Burden	Non-Compliance Rate	Hours	Average Wage	Costs	Responses
	a	b	c	d	e	f	g	h	$i = a \times b \times (c + (d \times e)) \times f \times g \times h$	j	$k = i \times j$	$L = a \times b \times (c + d \times e) \times f$
Offices of Physicians	179,493	80%	50%	50%	0.80%	2	1.0	66%	95,530	\$53.96	\$5,154,321	144,743
Offices of Dentists	322,560	80%	50%	50%	0.80%	2	1.0	85%	221,096	\$53.96	\$11,929,235	260,112
Nursing Homes	45,384	80%	50%	50%	0.80%	2	1.0	76%	27,814	\$53.96	\$1,500,704	36,598
Hospitals	319,827	80%	50%	50%	0.80%	2	1.0	27%	69,635	\$53.96	\$3,757,156	257,908
Medical and Dental Labs	5,664	80%	50%	50%	0.80%	2	1.0	30%	1,370	\$53.96	\$73,918	4,567
Home Health Care	8,819	80%	50%	50%	0.80%	2	1.0	76%	5,405	\$53.96	\$291,627	7,112
Hospices	899	80%	50%	50%	0.80%	2	1.0	69%	500	\$53.96	\$26,978	725
Hemodialysis	5,302	80%	50%	50%	0.80%	2	1.0	39%	1,667	\$53.96	\$89,943	4,276
Drug Rehabilitation	283	80%	50%	50%	0.80%	2	1.0	37%	84	\$53.96	\$4,532	228
Government Clinics	16,013	80%	50%	50%	0.80%	2	1.0	84%	10,847	\$53.96	\$585,250	12,913
Blood/Plasma/Tissue Centers	6,789	80%	50%	50%	0.05%	2	1.0	1%	54	\$53.96	\$2,914	5,434
Residential Care	7,809	80%	50%	50%	0.80%	2	1.0	89%	5,604	\$53.96	\$302,364	6,297
Personnel Services	2,993	80%	50%	50%	0.80%	2	1.0	33%	796	\$53.96	\$42,948	2,414
Funeral Services	11,735	80%	50%	50%	0.80%	2	1.0	94%	8,895	\$53.96	\$479,930	9,463
Health Units in Industry	186,835	80%	50%	50%	0.80%	2	1.0	99%	149,157	\$53.96	\$8,047,766	150,664
Research Labs	494	80%	50%	50%	0.80%	2	1.0	70%	279	\$53.96	\$15,053	398
Linen Services	3,000	80%	50%	50%	0.80%	2	1.0	10%	242	\$53.96	\$13,057	2,419
Medical Equipment Repair	2,625	80%	50%	50%	0.80%	2	1.0	100%	2,117	\$53.96	\$114,223	2,117
Law Enforcement	27,411	80%	50%	50%	17.00%	2	1.0	11%	2,822	\$53.96	\$152,261	25,657
Fire and Rescue	13,426	80%	50%	50%	0.80%	2	1.0	27%	2,923	\$53.96	\$157,710	10,827
Correctional Facilities	9,173	80%	50%	50%	17.00%	2	1.0	32%	2,747	\$53.96	\$148,214	8,586
Lifesaving	457	80%	50%	50%	0.80%	2	1.0	50%	184	\$53.96	\$9,928	369
Schools	12,642	80%	50%	50%	0.80%	2	1.0	100%	10,195	\$53.96	\$550,071	10,195
Waste Removal	50	80%	50%	50%	0.80%	2	1.0	50%	20	\$53.96	\$1,079	40
Totals	1,189,683								619,983		\$33,451,182	964,062

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Table 16 - Medical Records												
Sector	Category	Employees	Unit Burden (All Employees)	Vaccinated Employees	Unit Burden (Vaccinated Employees)	Job Turnover Rate	Exposures	Unit Burden (Exposures)	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	$h = (a \times b + c \times d) \times e + f \times g$	i	$j = h \times i$	$k = (a + c) \times e + f$
Offices of Physicians												
Offices of Physicians	A	1,202,278	0.167	356,355	0.25	22.8%	179,493	0.333	125,830	\$31.45	\$3,957,354	534,861
Offices of Physicians	C	8,659	0.167	1,915	0.25	31.6%	0	0.333	607	\$31.45	\$19,090	3,341
Offices of Physicians	D	86,584	0.167	20,823	0.25	21.8%	0	0.333	4,281	\$31.45	\$134,637	23,415
Offices of Dentists												
Offices of Dentists	A	488,825	0.167	120,984	0.25	26.8%	279,485	0.333	123,102	\$31.45	\$3,871,558	442,914
Offices of Dentists	C	4,685	0.167	1,124	0.25	31.6%	43,075	0.333	14,694	\$31.45	\$462,126	44,911
Nursing Homes												
Nursing Homes	A	693,606	0.167	197,678	0.25	49.9%	35,746	0.333	94,261	\$31.45	\$2,964,508	480,497
Nursing Homes	C	44,749	0.167	14,991	0.25	31.6%	5,002	0.333	5,208	\$31.45	\$163,792	23,880
Nursing Homes	D	7,458	0.167	1,380	0.25	31.6%	4,636	0.333	2,047	\$31.45	\$64,378	7,429
Hospitals												
Hospitals	A	2,639,234	0.167	812,356	0.25	27.2%	254,449	0.333	259,702	\$31.45	\$8,167,628	1,193,282
Hospitals	B	225,504	0.167	69,410	0.25	21.8%	34,579	0.333	23,502	\$31.45	\$739,138	98,870
Hospitals	C	350,784	0.167	106,498	0.25	31.6%	30,799	0.333	37,154	\$31.45	\$1,168,493	175,300
Medical and Dental Labs												
Medical and Dental Labs	A	291,588	0.167	108,237	0.25	21.7%	5,177	0.333	18,143	\$31.45	\$570,597	91,939
Medical and Dental Labs	C	2,245	0.167	593	0.25	31.6%	0	0.333	165	\$31.45	\$5,189	897
Medical and Dental Labs	D	253,174	0.167	75,952	0.25	31.6%	487	0.333	19,496	\$31.45	\$613,149	104,491
Home Health Care												
Home Health Care	A	386,457	0.167	113,077	0.25	36.3%	6,244	0.333	35,724	\$31.45	\$1,123,520	187,575
Home Health Care	C	5,713	0.167	1,714	0.25	31.6%	0	0.333	436	\$31.45	\$13,712	2,347
Home Health Care	D	11,996	0.167	8,656	0.25	36.3%	2,575	0.333	2,370	\$31.45	\$74,537	10,072
Hospices												

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Table 16 - Medical Records												
Sector	Category	Employees	Unit Burden (All Employees)	Vaccinated Employees	Unit Burden (Vaccinated Employees)	Job Turnover Rate	Exposures	Unit Burden (Exposures)	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	$h = (a \times b + c \times d) \times e + f \times g$	i	$j = h \times i$	$k = (a + c) \times e + f$
Hospices	A	156,138	0.167	55,304	0.25	36.3%	684	0.333	14,693	\$31.45	\$462,095	77,437
Hospices	C	2,276	0.167	421	0.25	31.6%	0	0.333	153	\$31.45	\$4,812	852
Hospices	D	399	0.167	120	0.25	36.3%	215	0.333	107	\$31.45	\$3,365	403
Hemodialysis												
Hemodialysis	A	107,266	0.167	27,256	0.25	25.5%	4,684	0.333	7,858	\$31.45	\$247,134	38,987
Hemodialysis	C	1,880	0.167	700	0.25	31.6%	477	0.333	313	\$31.45	\$9,844	1,292
Hemodialysis	D	4,970	0.167	1,431	0.25	21.8%	141	0.333	306	\$31.45	\$9,624	1,536
Drug Rehabilitation												
Drug Rehabilitation	A	129,666	0.167	35,580	0.25	25.5%	283	0.333	7,873	\$31.45	\$247,606	42,421
Drug Rehabilitation	C	3,184	0.167	1,114	0.25	31.6%	0	0.333	256	\$31.45	\$8,051	1,358
Drug Rehabilitation	D	10,814	0.167	3,244	0.25	21.8%	0	0.333	570	\$31.45	\$17,927	3,065
Government Clinics												
Government Clinics	A	26,487	0.167	7,851	0.25	22.8%	16,013	0.333	6,792	\$31.45	\$213,608	23,842
Government Clinics	C	193	0.167	43	0.25	31.6%	0	0.333	14	\$31.45	\$440	74
Government Clinics	D	1,934	0.167	465	0.25	21.8%	0	0.333	96	\$31.45	\$3,019	523
Blood/Plasma/Tissue Centers												
Blood/Plasma/Tissue Centers	A	50,905	0.167	12,828	0.25	21.8%	6,453	0.333	4,700	\$31.45	\$147,815	20,347
Blood/Plasma/Tissue Centers	C	559	0.167	134	0.25	31.6%	139	0.333	86	\$31.45	\$2,705	358
Blood/Plasma/Tissue Centers	D	1,091	0.167	245	0.25	36.3%	197	0.333	154	\$31.45	\$4,843	682
Residential Care												
Residential Care	A	80,450	0.167	29,364	0.25	49.6%	4,850	0.333	11,908	\$31.45	\$374,507	59,318
Residential Care	C	2,221	0.167	1,111	0.25	31.6%	388	0.333	334	\$31.45	\$10,504	1,441
Residential Care	D	13,183	0.167	2,768	0.25	36.3%	2,571	0.333	1,906	\$31.45	\$59,944	8,361
Personnel Services												
Personnel Services	A	1,982,190	0.167	523,298	0.25	100.0%	2,993	0.333	462,187	\$31.45	\$14,535,781	2,508,481

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Table 16 - Medical Records												
Sector	Category	Employees	Unit Burden (All Employees)	Vaccinated Employees	Unit Burden (Vaccinated Employees)	Job Turnover Rate	Exposures	Unit Burden (Exposures)	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	$h = (a \times b + c \times d) \times e + f \times g$	i	$j = h \times i$	$k = (a + c) \times e + f$
Personnel Services	D	3,296,492	0.167	988,948	0.25	31.6%	0	0.333	251,742	\$31.45	\$7,917,286	1,354,199
Funeral Services												
Funeral Services	A	52,599	0.167	16,753	0.25	21.8%	11,735	0.333	6,736	\$31.45	\$211,847	26,854
Funeral Services	C	2,803	0.167	1,402	0.25	31.6%	0	0.333	258	\$31.45	\$8,114	1,329
Funeral Services	D	3,336	0.167	1,001	0.25	31.6%	0	0.333	255	\$31.45	\$8,020	1,370
Health Units in Industry												
Health Units in Industry	A	34,184	0.167	10,289	0.25	31.7%	186,835	0.333	64,900	\$31.45	\$2,041,105	200,933
Health Units in Industry	B	141,051	0.167	35,122	0.25	21.8%	0	0.333	7,039	\$31.45	\$221,377	38,406
Health Units in Industry	D	3,497	0.167	315	0.25	31.6%	0	0.333	209	\$31.45	\$6,573	1,205
Research Labs												
Research Labs	A	1,335,441	0.167	468,740	0.25	21.8%	494	0.333	74,232	\$31.45	\$2,334,596	393,805
Research Labs	C	20,073	0.167	4,916	0.25	31.6%	0	0.333	1,446	\$31.45	\$45,477	7,896
Research Labs	D	5,373	0.167	1,886	0.25	21.8%	0	0.333	298	\$31.45	\$9,372	1,582
Linen Services												
Linen Services	D	59,520	0.167	17,856	0.25	54.0%	3,000	0.333	8,767	\$31.45	\$275,722	44,783
Medical Equipment Repair												
Medical Equipment Repair	A	2,984	0.167	752	0.25	38.3%	0	0.333	262	\$31.45	\$8,240	1,431
Medical Equipment Repair	B	1,262	0.167	341	0.25	38.3%	0	0.333	113	\$31.45	\$3,554	614
Medical Equipment Repair	C	32,502	0.167	8,971	0.25	21.8%	161	0.333	1,723	\$31.45	\$54,188	9,202
Medical Equipment Repair	D	2,271	0.167	681	0.25	21.8%	2,464	0.333	941	\$31.45	\$29,594	3,108
Law Enforcement												
Law Enforcement	A	479,753	0.167	119,458	0.25	10.1%	18,993	0.333	17,423	\$31.45	\$547,953	79,513
Law Enforcement	B	1,778	0.167	694	0.25	21.8%	2,770	0.333	1,026	\$31.45	\$32,268	3,309
Law Enforcement	C	4,093	0.167	1,203	0.25	31.6%	1,444	0.333	792	\$31.45	\$24,908	3,118
Law Enforcement	D	48,515	0.167	11,207	0.25	10.1%	4,204	0.333	2,501	\$31.45	\$78,656	10,236

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Table 16 - Medical Records												
Sector	Category	Employees	Unit Burden (All Employees)	Vaccinated Employees	Unit Burden (Vaccinated Employees)	Job Turnover Rate	Exposures	Unit Burden (Exposures)	Hours	Wage	Costs	Responses
		a	b	c	d	e	f	g	$h = (a \times b + c \times d) \times e + f \times g$	i	$j = h \times i$	$k = (a + c) \times e + f$
Fire and Rescue												
Fire and Rescue	A	197,239	0.167	45,602	0.25	21.8%	10,411	0.333	13,122	\$31.45	\$412,687	63,350
Fire and Rescue	B	236,293	0.167	71,739	0.25	8.5%	857	0.333	5,158	\$31.45	\$162,219	27,040
Fire and Rescue	D	3,066	0.167	694	0.25	38.3%	2,158	0.333	981	\$31.45	\$30,852	3,598
Correctional Facilities												
Correctional Facilities	A	21,676	0.167	7,192	0.25	31.7%	3,034	0.333	2,727	\$31.45	\$85,764	12,185
Correctional Facilities	B	214,359	0.167	62,378	0.25	41.0%	1,887	0.333	21,671	\$31.45	\$681,553	115,349
Correctional Facilities	C	18,810	0.167	5,079	0.25	31.6%	459	0.333	1,545	\$31.45	\$48,590	8,008
Correctional Facilities	D	56,089	0.167	16,490	0.25	29.1%	3,793	0.333	5,184	\$31.45	\$163,037	24,914
Lifesaving												
Lifesaving	A	100,950	0.167	51,485	0.25	21.8%	457	0.333	6,626	\$31.45	\$208,388	33,688
Schools												
Schools	A	6,164	0.167	1,849	0.25	25.0%	6,321	0.333	2,479	\$31.45	\$77,965	8,324
Schools	D	4,679	0.167	1,404	0.25	36.3%	6,321	0.333	2,517	\$31.45	\$79,160	8,529
Waste Removal												
Waste Removal	A	1,309,252	0.167	392,776	0.25	36.3%	50	0.333	114,871	\$31.45	\$3,612,693	617,886
Total		16,975,449		5,062,243					1,904,572		\$59,898,788	9,322,563

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Table 17 - Training Records								
Sector	Category	Employees	Job Turnover Rate	Unit Burden	Hours	Wage	Costs	Responses
		a	b	c	$d = a \times (1 + b / 2) \times c$	e	$f = d \times e$	$g = a \times (1 + b / 2)$
Offices of Physicians								
Offices of Physicians	A	1,202,278	22.8%	0.017	22,322	\$31.45	\$702,027	1,339,338
Offices of Physicians	C	8,659	31.6%	0.017	167	\$31.45	\$5,252	10,027
Offices of Physicians	D	86,584	21.8%	0.017	1,600	\$31.45	\$50,320	96,022
Offices of Dentists								
Offices of Dentists	A	488,825	26.8%	0.017	9,239	\$31.45	\$290,567	554,328
Offices of Dentists	C	4,685	31.6%	0.017	90	\$31.45	\$2,831	5,425
Nursing Homes								
Nursing Homes	A	693,606	49.9%	0.017	14,444	\$31.45	\$454,264	866,661
Nursing Homes	C	44,749	31.6%	0.017	864	\$31.45	\$27,173	51,819
Nursing Homes	D	7,458	31.6%	0.017	144	\$31.45	\$4,529	8,636
Hospitals								
Hospitals	A	2,639,234	27.2%	0.017	49,969	\$31.45	\$1,571,525	2,998,170
Hospitals	B	225,504	21.8%	0.017	4,168	\$31.45	\$131,084	250,084
Hospitals	C	350,784	31.6%	0.017	6,770	\$31.45	\$212,917	406,208
Medical and Dental Labs								
Medical and Dental Labs	A	291,588	21.7%	0.017	5,387	\$31.45	\$169,421	323,225
Medical and Dental Labs	C	2,245	31.6%	0.017	43	\$31.45	\$1,352	2,600
Medical and Dental Labs	D	253,174	31.6%	0.017	4,886	\$31.45	\$153,665	293,175
Home Health Care								
Home Health Care	A	386,457	36.3%	0.017	7,610	\$31.45	\$239,335	456,599
Home Health Care	C	5,713	31.6%	0.017	110	\$31.45	\$3,460	6,616
Home Health Care	D	11,996	36.3%	0.017	236	\$31.45	\$7,422	14,173
Hospices								
Hospices	A	156,138	36.3%	0.017	3,075	\$31.45	\$96,709	184,477
Hospices	C	2,276	31.6%	0.017	44	\$31.45	\$1,384	2,636
Hospices	D	399	36.3%	0.017	8	\$31.45	\$252	471
Hemodialysis								

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Table 17 - Training Records								
Sector	Category	Employees	Job Turnover Rate	Unit Burden	Hours	Wage	Costs	Responses
		a	b	c	$d = a \times (1 + b / 2) \times c$	e	$f = d \times e$	$g = a \times (1 + b / 2)$
Hemodialysis	A	107,266	25.5%	0.017	2,016	\$31.45	\$63,403	120,942
Hemodialysis	C	1,880	31.6%	0.017	36	\$31.45	\$1,132	2,177
Hemodialysis	D	4,970	21.8%	0.017	92	\$31.45	\$2,893	5,512
Drug Rehabilitation								
Drug Rehabilitation	A	129,666	25.5%	0.017	2,437	\$31.45	\$76,644	146,198
Drug Rehabilitation	C	3,184	31.6%	0.017	61	\$31.45	\$1,918	3,687
Drug Rehabilitation	D	10,814	21.8%	0.017	200	\$31.45	\$6,290	11,993
Government Clinics								
Government Clinics	A	26,487	22.8%	0.017	492	\$31.45	\$15,473	29,507
Government Clinics	C	193	31.6%	0.017	4	\$31.45	\$126	223
Government Clinics	D	1,934	21.8%	0.017	36	\$31.45	\$1,132	2,145
Blood/Plasma/Tissue Centers								
Blood/Plasma/Tissue Centers	A	50,905	21.8%	0.017	941	\$31.45	\$29,594	56,454
Blood/Plasma/Tissue Centers	C	559	31.6%	0.017	11	\$31.45	\$346	647
Blood/Plasma/Tissue Centers	D	1,091	36.3%	0.017	21	\$31.45	\$660	1,289
Residential Care								
Residential Care	A	80,450	49.6%	0.017	1,673	\$31.45	\$52,616	100,402
Residential Care	C	2,221	31.6%	0.017	43	\$31.45	\$1,352	2,572
Residential Care	D	13,183	36.3%	0.017	260	\$31.45	\$8,177	15,576
Personnel Services								
Personnel Services	A	1,982,190	100.0%	0.017	49,555	\$31.45	\$1,558,505	2,973,285
Personnel Services	D	3,296,492	31.6%	0.017	63,622	\$31.45	\$2,000,912	3,817,338
Funeral Services								
Funeral Services	A	52,599	21.8%	0.017	972	\$31.45	\$30,569	58,332
Funeral Services	C	2,803	31.6%	0.017	54	\$31.45	\$1,698	3,246
Funeral Services	D	3,336	31.6%	0.017	64	\$31.45	\$2,013	3,863
Health Units in Industry								
Health Units in Industry	A	34,184	31.7%	0.017	660	\$31.45	\$20,757	39,602

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Table 17 - Training Records								
Sector	Category	Employees	Job Turnover Rate	Unit Burden	Hours	Wage	Costs	Responses
		a	b	c	$d = a \times (1 + b / 2) \times c$	e	$f = d \times e$	$g = a \times (1 + b / 2)$
Health Units in Industry	B	141,051	21.8%	0.017	2,607	\$31.45	\$81,990	156,426
Health Units in Industry	D	3,497	31.6%	0.017	67	\$31.45	\$2,107	4,050
Research Labs								
Research Labs	A	1,335,441	21.8%	0.017	24,683	\$31.45	\$776,280	1,481,004
Research Labs	C	20,073	31.6%	0.017	387	\$31.45	\$12,171	23,245
Research Labs	D	5,373	21.8%	0.017	99	\$31.45	\$3,114	5,959
Linen Services								
Linen Services	D	59,520	54.0%	0.017	1,260	\$31.45	\$39,627	75,590
Medical Equipment Repair								
Medical Equipment Repair	A	2,984	38.3%	0.017	59	\$31.45	\$1,856	3,555
Medical Equipment Repair	B	1,262	38.3%	0.017	25	\$31.45	\$786	1,504
Medical Equipment Repair	C	32,502	21.8%	0.017	601	\$31.45	\$18,901	36,045
Medical Equipment Repair	D	2,271	21.8%	0.017	42	\$31.45	\$1,321	2,519
Law Enforcement								
Law Enforcement	A	479,753	10.1%	0.017	8,400	\$31.45	\$264,180	503,981
Law Enforcement	B	1,778	21.8%	0.017	33	\$31.45	\$1,038	1,972
Law Enforcement	C	4,093	31.6%	0.017	79	\$31.45	\$2,485	4,740
Law Enforcement	D	48,515	10.1%	0.017	849	\$31.45	\$26,701	50,965
Fire and Rescue								
Fire and Rescue	A	197,239	21.8%	0.017	3,646	\$31.45	\$114,667	218,738
Fire and Rescue	B	236,293	8.5%	0.017	4,106	\$31.45	\$129,134	246,335
Fire and Rescue	D	3,066	38.3%	0.017	61	\$31.45	\$1,918	3,653
Correctional Facilities								
Correctional Facilities	A	21,676	31.7%	0.017	419	\$31.45	\$13,178	25,112
Correctional Facilities	B	214,359	41.0%	0.017	4,305	\$31.45	\$135,392	258,303
Correctional Facilities	C	18,810	31.6%	0.017	363	\$31.45	\$11,416	21,782
Correctional Facilities	D	56,089	29.1%	0.017	1,071	\$31.45	\$33,683	64,250
Lifesaving								

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Table 17 - Training Records								
Sector	Category	Employees	Job Turnover Rate	Unit Burden	Hours	Wage	Costs	Responses
		a	b	c	$d = a \times (1 + b / 2) \times c$	e	$f = d \times e$	$g = a \times (1 + b / 2)$
Lifesaving	A	100,950	21.8%	0.017	1,866	\$31.45	\$58,686	111,954
Schools								
Schools	A	6,164	25.0%	0.017	116	\$31.45	\$3,648	6,935
Schools	D	4,679	36.3%	0.017	92	\$31.45	\$2,893	5,528
Waste Removal								
Waste Removal	A	1,309,252	36.3%	0.017	25,781	\$31.45	\$810,812	1,546,881
Total		16,975,449			335,443		\$10,549,683	20,126,706

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SEC. 2. Congressional Findings and Purpose

(a) The Congress finds that personal injuries and illnesses arising out of work situations impose a substantial burden upon, and are a hindrance to, interstate commerce in terms of lost production, wage loss, medical expenses, and disability compensation payments.

(b) The Congress declares it to be its purpose and policy, through the exercise of its powers to regulate commerce among the several States and with foreign nations and to provide for the general welfare, to assure so far as possible every working man and woman in the Nation safe and healthful working conditions and to preserve our human resources --

29 USC 651

(1) by encouraging employers and employees in their efforts to reduce the number of occupational safety and health hazards at their places of employment, and to stimulate employers and employees to institute new and to perfect existing programs for providing safe and healthful working conditions; (2) by providing that employers and employees have separate but dependent responsibilities and rights with respect to achieving safe and healthful working conditions;

(3) by authorizing the Secretary of Labor to set mandatory occupational safety and health standards applicable to businesses affecting interstate commerce, and by creating an Occupational Safety and Health Review Commission for carrying out adjudicatory functions under the Act;

(4) by building upon advances already made through employer and employee initiative for providing safe and healthful working conditions;

(5) by providing for research in the field of occupational safety and health, including the psychological factors involved, and by developing innovative methods, techniques, and approaches for dealing with occupational safety and health problems;

(6) by exploring ways to discover latent diseases, establishing causal connections between diseases and work in environmental conditions, and conducting other research relating to health problems, in recognition of the fact that occupational health standards present problems often different from those involved in occupational safety;

(7) by providing medical criteria which will assure insofar as practicable that no employee will suffer diminished health, functional capacity, or life expectancy as a result of his work experience;

(8) by providing for training programs to increase the number and competence of personnel engaged in the field of occupational safety and health; affecting the OSH Act since its passage in 1970 through January 1, 2004.

(9) by providing for the development and promulgation of occupational safety and health standards;

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- (10) by providing an effective enforcement program which shall include a prohibition against giving advance notice of any inspection and sanctions for any individual violating this prohibition;
- (11) by encouraging the States to assume the fullest responsibility for the administration and enforcement of their occupational safety and health laws by providing grants to the States to assist in identifying their needs and responsibilities in the area of occupational safety and health, to develop plans in accordance with the provisions of this Act, to improve the administration and enforcement of State occupational safety and health laws, and to conduct experimental and demonstration projects in connection therewith;
- (12) by providing for appropriate reporting procedures with respect to occupational safety and health which procedures will help achieve the objectives of this Act and accurately describe the nature of the occupational safety and health problem;
- (13) by encouraging joint labor-management efforts to reduce injuries and disease arising out of employment.

6. Occupational Safety and Health Standards

29 USC 655:

(a) Without regard to chapter 5 of title 5, United States Code, or to the other subsections of this section, the Secretary shall, as soon as practicable during the period beginning with the effective date of this Act and ending two years after such date, by rule promulgate as an occupational safety or health standard any national consensus standard, and any established Federal standard, unless he determines that the promulgation of such a standard would not result in improved safety or health for specifically designated employees. In the event of conflict among any such standards, the Secretary shall promulgate the standard which assures the greatest protection of the safety or health of the affected employees. (b) The Secretary may by rule promulgate, modify, or revoke any occupational safety or health standard in the following manner:

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(1) Whenever the Secretary, upon the basis of information submitted to him in writing by an interested person, a representative of any organization of employers or employees, a nationally recognized standards-producing organization, the Secretary of Health and Human Services, the National Institute for Occupational Safety and Health, or a State or political subdivision, or on the basis of information developed by the Secretary or otherwise available to him, determines that a rule should be promulgated in order to serve the objectives of this Act, the Secretary may request the recommendations of an advisory committee appointed under section 7 of this Act. The Secretary shall provide such an advisory committee with any proposals of his own or of the Secretary of Health and Human Services, together with all pertinent factual information developed by the Secretary or the Secretary of Health and Human Services, or otherwise available, including the results of research, demonstrations, and experiments. An advisory committee shall submit to the Secretary its recommendations regarding the rule to be promulgated within ninety days from the date of its appointment or within such longer or shorter period as may be prescribed by the Secretary, but in no event for a period which is longer than two hundred and seventy days. (2) The Secretary shall publish a proposed rule promulgating, modifying, or revoking an occupational safety or health standard in the Federal Register and shall afford interested persons a period of thirty days after publication to submit written data or comments. Where an advisory committee is appointed and the Secretary determines that a rule should be issued, he shall publish the proposed rule within sixty days after the submission of the advisory committee's recommendations or the expiration of the period prescribed by the Secretary for such submission. (3) On or before the last day of the period provided for the submission of written data or comments under paragraph (2), any interested person may file with the Secretary written objections to the proposed rule, stating the grounds therefore and requesting a public hearing on such objections. Within thirty days after the last day for filing such objections, the Secretary shall publish in the Federal Register a notice specifying the occupational safety or health standard to which objections have been filed and a hearing requested, and specifying a time and place for such hearing.

SEC. 8. Inspections, Investigations, and Recordkeeping

(a) In order to carry out the purposes of this Act, the Secretary, upon presenting appropriate credentials to the owner, operator, or agent in charge, is authorized --
29 USC 657

(1) to enter without delay and at reasonable times any factory, plant, establishment, construction site, or other area, workplace or environment where work is performed by an employee of an employer; and (2) to inspect and investigate during regular working hours and at other reasonable times, and within reasonable limits and in a reasonable manner, any such place of employment and all pertinent conditions, structures, machines, apparatus, devices, equipment, and materials therein, and to question privately any such employer, owner, operator, agent or employee.

(b) In making his inspections and investigations under this Act the Secretary may require the

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attendance and testimony of witnesses and the production of evidence under oath. Witnesses shall be paid the same fees and mileage that are paid witnesses in the courts of the United States. In case of a contumacy, failure, or refusal of any person to obey such an order, any district court of the United States or the United States courts of any territory or possession, within the jurisdiction of which such person is found, or resides or transacts business, upon the application by the Secretary, shall have jurisdiction to issue to such person an order requiring such person to appear to produce evidence if, as, and when so ordered, and to give testimony relating to the matter under investigation or in question, and any failure to obey such order of the court may be punished by said court as a contempt thereof. (c) (1) Each employer shall make, keep and preserve, and make available to the Secretary or the Secretary of Health and Human Services, such records regarding his activities relating to this Act as the Secretary, in cooperation with the Secretary of Health and Human Services, may prescribe by regulation as necessary or appropriate for the enforcement of this Act or for developing information regarding the causes and prevention of occupational accidents and illnesses. In order to carry out the provisions of this paragraph such regulations may include provisions requiring employers to conduct periodic inspections. The Secretary shall also issue regulations requiring that employers, through posting of notices or other appropriate means, keep their employees informed of their protections and obligations under this Act, including the provisions of applicable standards.

(2) The Secretary, in cooperation with the Secretary of Health and Human Services, shall prescribe regulations requiring employers to maintain accurate records of, and to make periodic reports on, work-related deaths, injuries and illnesses other than minor injuries requiring only first aid treatment and which do not involve medical treatment, loss of consciousness, restriction of work or motion, or transfer to another job.

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The Electronic Code of Federal Regulations

Displaying title 29, up to date as of 10/07/2024. Title 29 was last amended 9/30/2024.

Editorial Note: Nomenclature changes to part 1910 appear at [84 FR 21597](#), May 14, 2019.

§ 1910.1030 Bloodborne pathogens.

(a) *Scope and Application.* This section applies to all occupational 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 Assistant Secretary of Labor for Occupational Safety and Health, or designated representative.

Blood means human blood, human blood components, and products made from human blood.

Bloodborne Pathogens means pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include, but are not limited to, hepatitis B virus (HBV) and 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 anticipated presence of blood or other potentially infectious materials on an item or surface.

Contaminated Laundry means laundry which has been soiled 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 Health, U.S. Department of Health and Human Services, or designated representative.

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Engineering controls means controls (e.g., sharps disposal containers, self-sheathing needles, safer medical devices, such as sharps with engineered sharps injury protections and needleless systems) that isolate or remove the bloodborne pathogens hazard from the workplace.

Exposure Incident means a specific eye, mouth, other mucous membrane, non-intact skin, or parenteral contact with blood or other potentially infectious 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 air-drying machines.

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

HBV means hepatitis B virus.

HIV means human immunodeficiency virus.

Needleless systems means 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.

Occupational Exposure means reasonably anticipated skin, eye, mucous membrane, or parenteral contact with blood or other potentially infectious 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 secretions, cerebrospinal fluid, synovial fluid, pleural fluid, pericardial fluid, peritoneal fluid, amniotic fluid, saliva in dental procedures, any body fluid that is visibly contaminated with blood, and all body 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 tissue cultures, organ cultures, and HIV- or HBV-containing culture

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medium or other solutions; and blood, organs, or other tissues from experimental animals infected with HIV or HBV.

Parenteral means piercing mucous membranes or the skin barrier through such events as needlesticks, human bites, cuts, and abrasions.

Personal Protective Equipment is specialized clothing or equipment worn by an employee for protection against a hazard. General work clothes (e.g., uniforms, pants, shirts or blouses) not intended 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 state if compressed; items that are caked with dried blood or other potentially infectious materials and are 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 amounts 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 individual, living or dead, whose blood or other potentially infectious materials may be a source of occupational exposure to the employee. Examples include, but are not limited to, hospital and clinic patients; clients in institutions for the developmentally disabled; trauma victims; clients of drug and alcohol treatment facilities; residents of hospices and nursing homes; human remains; and individuals who donate or sell blood or blood components.

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

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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., prohibiting recapping of needles by a two-handed technique).

(c) *Exposure control* —

(1) *Exposure Control Plan*.

(i) Each employer having an employee(s) 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 Control Plan shall contain at least the following elements:

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

(B) The schedule and method of implementation for paragraphs (d) Methods of Compliance, (e) HIV and HBV Research Laboratories and Production Facilities, (f) Hepatitis B Vaccination 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 circumstances surrounding exposure incidents as required by paragraph (f)(3)(i) of this standard.

(iii) Each employer shall ensure that a copy of the Exposure Control Plan 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 or revised employee positions with occupational exposure. The review and update of such plans shall also:

(A) Reflect changes in technology that eliminate or reduce exposure to bloodborne pathogens; and

(B) Document annually consideration and implementation of appropriate commercially available and effective safer medical devices designed to eliminate or minimize occupational exposure.

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

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

(2) Exposure determination.

(i) Each employer who has an employee(s) with occupational exposure as defined by [paragraph \(b\)](#) of this section shall prepare an exposure determination. This exposure determination shall contain the following:

(A) A list of all job classifications in which all employees in those job classifications have occupational exposure;

(B) A list of job classifications in which some employees have occupational exposure, and

(C) A list of all tasks and procedures or groups of closely related task and procedures in which occupational exposure occurs and that are performed by employees 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 to the use of personal protective equipment.

(d) Methods 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 fluids shall be considered potentially infectious materials.

(2) Engineering and work practice controls.

(i) 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.

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

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- (iii) Employers shall provide handwashing facilities which are readily accessible to 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/paper towels or antiseptic towelettes. When antiseptic hand cleansers or towelettes are used, hands shall be washed with soap and running water as soon as feasible.
- (v) Employers shall ensure that employees wash their hands immediately or as soon as feasible after removal of gloves or other personal protective equipment.
- (vi) Employers shall ensure that employees wash hands and any other skin with soap and water, or flush mucous membranes with water immediately or as soon as feasible following contact of such body areas with blood or other potentially infectious materials.
- (vii) Contaminated needles and other contaminated sharps shall not be bent, recapped, or removed except as noted in paragraphs (d)(2)(vii)(A) and (d)(2)(vii)(B) below. Shearing or breaking of contaminated needles is prohibited.
 - (A) Contaminated needles and other contaminated sharps shall not be bent, recapped or removed unless the employer can demonstrate that no alternative is feasible or that such action is required by a specific medical or dental procedure.
 - (B) Such bending, recapping or needle removal must be accomplished through the use of a mechanical device or a one-handed technique.
- (viii) Immediately or as soon as possible after use, contaminated reusable sharps shall be placed in appropriate containers until properly reprocessed. These containers shall be:
 - (A) Puncture resistant;
 - (B) Labeled or color-coded in accordance with this standard;
 - (C) Leakproof on the sides and bottom; and
 - (D) In accordance with the requirements set forth in paragraph (d)(4)(ii)(E) for reusable sharps.
- (ix) Eating, drinking, smoking, applying cosmetics or lip balm, and handling contact lenses are prohibited in work areas where there is a reasonable likelihood of occupational exposure.
- (x) Food and drink shall not be kept in refrigerators, freezers, shelves, cabinets 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

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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 infectious 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 or color-coded according to paragraph (g)(1)(i) and closed prior to being stored, transported, or shipped. When a facility utilizes Universal Precautions in the handling of all specimens, the labeling/color-coding of specimens is not necessary provided containers are recognizable as containing specimens. This exemption only applies while such specimens/containers remain within the facility. Labeling or color-coding in accordance with paragraph (g)(1)(i) is required when such specimens/containers leave the facility.

(B) If outside contamination of the primary container occurs, the primary container shall be placed within a second container which prevents leakage during handling, processing, storage, transport, or shipping and is labeled or color-coded according to the requirements of this standard.

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

(xiv) Equipment which may become contaminated with blood or other potentially infectious materials shall be examined prior to servicing or shipping and shall be decontaminated as necessary, unless the employer can demonstrate that decontamination of such equipment or portions of such equipment is not feasible.

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

(B) The employer shall ensure that this information is conveyed to all affected employees, the servicing representative, and/or the manufacturer, as appropriate, prior to handling, servicing, or shipping so that appropriate precautions will be taken.

(3) *Personal protective equipment* —

(i) *Provision.* 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, gloves, gowns, laboratory coats, face shields or masks and eye protection, and mouthpieces, resuscitation bags,

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pocket masks, or other ventilation devices. Personal protective equipment will be considered “appropriate” only if it does not permit blood or other potentially infectious materials to pass through to or reach the employee's work clothes, street clothes, undergarments, skin, eyes, mouth, or other mucous 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 circumstances, it was the employee's professional judgment that in the specific 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 co-worker. When the employee makes this judgment, the circumstances shall be investigated and documented in order to determine whether changes can be instituted to prevent such occurrences in the future.

(iii) *Accessibility.* The employer shall ensure that appropriate personal protective equipment in the appropriate sizes is readily accessible at the worksite or is issued to employees.

Hypoallergenic gloves, glove liners, powderless gloves, or other similar alternatives shall be readily accessible to those employees who are allergic 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 cost to the employee.

(v) *Repair and Replacement.* The employer shall repair or replace personal protective equipment as needed to maintain its effectiveness, at no cost to the employee.

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

(vii) 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 container for storage, washing, decontamination or disposal.

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

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(A) Disposable (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 not be washed or decontaminated for re-use.

(C) Utility gloves may be decontaminated for re-use if the integrity of the glove is not compromised. However, they must be discarded if they are cracked, peeling, torn, punctured, or exhibit other signs of deterioration or when their ability to function as a barrier is compromised.

(D) If an employer in a volunteer blood donation center judges that routine gloving for all phlebotomies is not necessary then the employer shall:

(1) Periodically reevaluate this policy;

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

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

(4) Require that gloves be used for phlebotomy in the following circumstances:

(i) When the employee has cuts, scratches, or other breaks in his or her skin;

(ii) When the employee judges that hand contamination with blood may occur, for example, when performing phlebotomy on an uncooperative source 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 chin-length 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 mouth contamination can be reasonably anticipated.

(xi) *Gowns, Aprons, and Other Protective Body Clothing.* Appropriate protective clothing such as, but not limited to, gowns, aprons, lab coats, clinic jackets, or similar outer garments shall be worn in occupational exposure situations. The type and characteristics will depend upon the task and degree of exposure anticipated.

(xii) Surgical caps or hoods and/or shoe covers or boots shall be worn in instances when gross contamination can reasonably be anticipated (e.g., autopsies, orthopaedic surgery).

(4) *Housekeeping* —

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(i) *General.* Employers shall ensure that the worksite is maintained in a clean and sanitary condition. The employer shall determine and implement an appropriate written schedule for cleaning and method of decontamination based upon the location within the facility, type of surface to be cleaned, type of soil present, and tasks or procedures being performed in the area.

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

(A) Contaminated work surfaces shall be decontaminated with an appropriate disinfectant after completion of procedures; immediately or as soon as feasible when surfaces are overtly contaminated or after any spill of blood or other potentially infectious materials; and at the end of the work shift if the surface may have become contaminated since the last cleaning.

(B) Protective coverings, such as plastic wrap, aluminum foil, or imperviously-backed absorbent paper used to cover equipment and environmental surfaces, shall be 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 likelihood for becoming contaminated with blood or other potentially infectious materials shall be inspected and decontaminated on a regularly scheduled basis and cleaned and decontaminated immediately or as soon as feasible upon visible contamination.

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

(E) Reusable 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 by hand into the containers where these sharps have been placed.

(iii) *Regulated Waste* —

(A) *Contaminated Sharps Discarding and Containment.*

(1) Contaminated sharps shall be discarded immediately or as soon as feasible in containers that are:

(i) Closable;

(ii) Puncture resistant;

(iii) Leakproof on sides and bottom; and

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- (iv) Labeled or color-coded in accordance with paragraph (g)(1)(i) of this standard.
- (2) During use, containers for contaminated sharps shall be:
 - (i) Easily accessible to personnel and located as close as is feasible to the immediate area where sharps are used or can be reasonably anticipated to be found (e.g., laundries);
 - (ii) Maintained upright throughout 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) Closed immediately prior to removal or replacement to prevent spillage or protrusion of contents during handling, storage, transport, or shipping;
 - (ii) Placed in a secondary container if leakage is possible. The second container shall be:
 - (A) Closable;
 - (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 be opened, emptied, or cleaned manually or 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) Closable;
 - (ii) Constructed to contain all contents and prevent leakage of fluids during handling, storage, transport or shipping;
 - (iii) Labeled or color-coded in accordance with paragraph (g)(1)(i) this standard; and
 - (iv) Closed prior to removal to prevent spillage or protrusion of contents during handling, storage, transport, or shipping.
 - (2) If outside contamination of the regulated waste container occurs, it shall be placed in a second container. The second container shall be:

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(i) Closable;

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

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

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

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

(iv) *Laundry.*

(A) Contaminated laundry shall be handled as little as possible with a minimum of agitation.

(1) Contaminated laundry shall be bagged or containerized at the location where it was used and shall not be sorted or rinsed 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 standard. When a facility utilizes Universal Precautions in the handling of all soiled laundry, alternative labeling or color-coding is sufficient if it permits all employees to recognize the containers as requiring compliance with Universal Precautions.

(3) Whenever contaminated laundry is wet and presents a reasonable likelihood of soak-through or leakage from the bag or container, the laundry shall be placed and transported in bags or containers which prevent soak-through and/or leakage of fluids to the exterior.

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

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

(e) *HIV and HBV Research Laboratories and Production Facilities.*

(1) This paragraph applies to research laboratories and production facilities engaged in the culture, production, concentration, experimentation, and manipulation of HIV and HBV. It does

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not apply to clinical or diagnostic laboratories engaged solely in the analysis of blood, tissues, or organs. These requirements apply in addition to the other requirements of the standard.

(2) Research laboratories and production facilities shall meet the following criteria:

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

(ii) *Special practices.*

(A) Laboratory doors shall be kept closed when work involving HIV or HBV is in progress.

(B) Contaminated materials that are to be decontaminated at a site away from the work area shall be placed in a durable, leakproof, labeled or color-coded container that is closed before being removed from the work area.

(C) Access to the work area shall be limited to authorized persons. Written policies and procedures shall be established whereby only persons who have been advised of the potential biohazard, who meet any specific entry requirements, and who comply with all entry and exit procedures shall be allowed to enter the work areas and animal rooms.

(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)(ii) of this standard.

(E) All activities involving other potentially infectious materials shall be conducted in biological 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 rooms. Protective clothing shall not be worn outside of the work area and shall be decontaminated before being laundered.

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

(H) Before disposal all waste from work areas and from animal rooms shall either be incinerated or decontaminated by a method such as autoclaving known to effectively destroy bloodborne

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pathogens.

(I) Vacuum lines shall be protected with liquid disinfectant traps and high-efficiency particulate air (HEPA) filters or filters of equivalent or superior efficiency and which are checked routinely and maintained or replaced as necessary.

(J) Hypodermic needles and syringes shall be used only for parenteral injection and aspiration of fluids from laboratory animals and diaphragm bottles. Only needle-locking syringes or disposable syringe-needle units (*i.e.*, the needle is integral to the syringe) shall be used for the injection or aspiration of other potentially infectious materials. Extreme caution shall be used when handling needles and syringes. A needle shall not be bent, sheared, replaced in the sheath or guard, or removed from the syringe following use. The needle and syringe shall be promptly placed in a puncture-resistant container and autoclaved or decontaminated before reuse or disposal.

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

(L) A spill or accident that results in an exposure incident shall be immediately reported to the laboratory director or other responsible person.

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

(iii) *Containment equipment.*

(A) Certified biological safety cabinets (Class I, II, or III) or other appropriate combinations of personal protection or physical containment devices, such as special protective clothing, respirators, centrifuge safety cups, sealed centrifuge rotors, and containment caging for animals, shall be used for all activities with other potentially infectious materials that pose a threat of exposure to droplets, splashes, spills, or aerosols.

(B) Biological safety cabinets shall be certified when installed, whenever they are moved and at least annually.

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

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

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(ii) An autoclave 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 double-doored clothes-change room (showers may be included), airlock, or other access facility that requires passing through two sets of doors before entering the work area.

(ii) The surfaces of doors, walls, floors and ceilings in the work area shall be water resistant so that they can be easily cleaned. Penetrations in these surfaces shall be sealed 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 door of the work area.

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

(v) An autoclave for decontamination of regulated waste shall be available within or as near as possible to the work area.

(vi) A ducted exhaust-air ventilation system shall be provided. This system shall create directional airflow that draws air into the work area through the entry area. The exhaust air shall not be recirculated to any other area 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 airflow shall be verified (*i.e.*, into the work area).

(5) *Training Requirements.* Additional training requirements for employees in HIV and HBV research laboratories and HIV and HBV production facilities are specified in paragraph (g)(2)(ix).

(f) *Hepatitis B vaccination and post-exposure evaluation and follow-up —*

(1) *General.*

(i) The employer shall make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident.

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

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

(B) Made available to the employee at a reasonable time and place;

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

(D) Provided according to recommendations of the U.S. Public Health Service current at the time these evaluations and procedures take place, except as specified by this [paragraph \(f\)](#).

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

(2) Hepatitis B Vaccination.

(i) Hepatitis B vaccination shall be made available after the employee has received the training required in paragraph (g)(2)(vii)(I) and within 10 working days of initial assignment to all employees who have occupational exposure unless the employee has previously received the complete hepatitis B vaccination series, antibody testing has revealed that the employee is immune, or the vaccine is contraindicated for medical reasons.

(ii) The employer shall not make participation in a prescreening program a prerequisite for receiving hepatitis B vaccination.

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

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

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

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

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- (i) Documentation of the route(s) of exposure, and the circumstances under which the exposure incident occurred;
 - (ii) Identification and documentation of the source individual, unless the employer can establish that identification is infeasible or prohibited by state or local law;
 - (A) The source individual's blood shall be tested as soon as feasible and after consent is obtained in order to determine HBV and HIV infectivity. If consent is not obtained, the employer shall establish that legally required consent cannot be obtained. When the source individual's consent is not required by law, the source individual's blood, if available, shall be tested and the results 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.
 - (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 the source individual.
 - (iii) Collection and testing of blood for HBV and HIV serological status;
 - (A) The exposed employee's blood shall be collected as soon as feasible and tested after consent is obtained.
 - (B) If the employee consents to baseline blood collection, but does not give consent at that time for HIV serologic 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 indicated, as recommended by the U.S. Public Health Service;
 - (v) Counseling; and
 - (vi) Evaluation of reported illnesses.
- (4) *Information Provided to the Healthcare Professional.*
- (i) 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 healthcare professional evaluating an employee after an

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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 incident;
 - (C) Documentation of the route(s) of exposure and circumstances under which exposure occurred;
 - (D) Results of the source individual's blood testing, if available; and
 - (E) All medical records relevant to 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 Hepatitis B vaccination shall be limited to whether Hepatitis B vaccination is indicated for an employee, and if the employee has received such vaccination.
 - (ii) The healthcare professional's written opinion for 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; and
 - (B) That the employee has been told about any medical conditions resulting from exposure to blood or other potentially infectious materials which require further evaluation or treatment. (iii) All other findings or diagnoses shall remain confidential and shall not be included in the written 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 —*
 - (i) *Labels.*
 - (A) Warning labels shall be affixed to containers of regulated waste, refrigerators and freezers containing blood or other potentially infectious material; and other containers used to store,

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transport or ship blood or other potentially infectious materials, except as provided in paragraph (g)(1)(i)(E), (F) and (G).

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



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

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

(E) 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 contents and have been released for transfusion or other clinical use are exempted from the labeling requirements of paragraph (g).

(G) Individual containers of blood or other potentially infectious materials that are placed in a labeled container during storage, transport, shipment or 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 portions of the equipment remain contaminated.

(I) Regulated waste that has been decontaminated need not be labeled or color-coded.

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(ii) *Signs.*

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



(Name of the Infectious Agent)

(Special requirements for entering the area)

(Name, telephone number of the laboratory director or other responsible person.)

(B) These signs shall be fluorescent orange-red or predominantly so, with lettering and symbols in a contrasting color.

(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 provided at no cost to the employee and during working hours. The employer shall institute a training program and ensure employee participation in the program.

(ii) Training shall be provided as follows:

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

(B) At least annually thereafter.

(iii) [Reserved]

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

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training.

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

(vi) Material appropriate 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 regulatory text of this standard and an explanation of its contents;

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

(C) An explanation of the modes of transmission of bloodborne 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 to blood and other potentially infectious materials;

(F) An explanation of the use and limitations of methods that will prevent or reduce exposure including appropriate engineering controls, work practices, and personal protective equipment;

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

(H) An explanation of the basis for selection of personal protective equipment;

(I) Information on the hepatitis B vaccine, including information on its efficacy, safety, method of administration, the benefits of being vaccinated, and that the vaccine and vaccination will be offered free of charge;

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

(K) An explanation of the procedure to follow if an exposure incident occurs, including the method of reporting the incident and the medical follow-up that will be made available;

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

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(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 person conducting the training session.

(viii) The 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 Initial Training for Employees in HIV and HBV Laboratories and Production Facilities. Employees in HIV or HBV research laboratories and HIV or HBV production facilities shall receive the following initial training in addition to the above training requirements.

(A) The employer shall assure that employees demonstrate proficiency in standard microbiological practices and techniques and in the practices and operations specific to the facility before being allowed to 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 handling human pathogens. Initial work activities shall not include the handling of infectious agents. A progression of work activities shall be 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 establish and maintain an accurate record for each employee with occupational exposure, in accordance with [29 CFR 1910.1020](#).

(ii) This record shall include:

(A) The name of the employee;

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

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(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 healthcare 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 by law.

(iv) The employer shall maintain the records required by paragraph (h) for at least the duration of employment plus 30 years in accordance 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 job 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 upon request to the Assistant Secretary and the Director for examination and copying.

(ii) Employee training records required by this paragraph shall be provided upon request for examination and copying to employees, to employee representatives, to the Director, and to the Assistant Secretary.

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(iii) Employee medical records required by this paragraph shall 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 [29 CFR 1910.1020](#).

(4) *Transfer of Records*. The employer shall comply with the requirements involving transfer of records set forth in [29 CFR 1910.1020\(h\)](#).

(5) *Sharps injury log*.

(i) The employer shall establish and maintain a sharps 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 employee. The sharps injury log shall contain, at a minimum:

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

(B) The department or work area where the exposure incident occurred, and

(C) An explanation of how the incident occurred.

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

(iii) The sharps injury log shall be maintained for the period required by [29 CFR 1904.33](#).

(i) *Dates* —

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

(2) The Exposure Control Plan required by [paragraph \(c\)](#) of this section shall be completed on or before May 5, 1992.

(3) Paragraphs (g)(2) Information and Training and (h) Recordkeeping of this section shall take effect on or before June 4, 1992.

(4) Paragraphs (d)(2) Engineering and Work Practice Controls, (d)(3) Personal Protective Equipment, (d)(4) Housekeeping, (e) HIV and HBV Research Laboratories and Production Facilities, (f) Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up, and (g)(1) Labels and Signs of this section, shall take effect July 6, 1992.

Appendix A to Section 1910.1030—Hepatitis B Vaccine Declination (Mandatory)

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I understand that due to my occupational exposure to blood or other potentially infectious materials I may be at risk of acquiring hepatitis B virus (HBV) infection. I have been given the opportunity to be vaccinated with hepatitis B vaccine, at no charge to myself. However, I decline hepatitis B vaccination at this time. I understand that by declining this vaccine, I 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 infectious materials and I want to be vaccinated with hepatitis B vaccine, I can receive the vaccination 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 5508](#), Feb. 13, 1996; [66 FR 5325](#), Jan. 18, 2001; [71 FR 16672](#), [16673](#), Apr. 3, 2006; [73 FR 75586](#), Dec. 12, 2008; [76 FR 33608](#), June 8, 2011; [76 FR 80740](#), Dec. 27, 2011; [77 FR 19934](#), Apr. 3, 2012]