

**OMB Clearance Package
Supporting Statement B**

**Assessment of Occupational
Exposure Management**

Contact:

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B. Collections of Information Employing Statistical Methods

1. Respondent Universe and Sampling Methods

The potential respondent universe is comprised of acute-care facilities, ambulatory surgery centers, long-term care facilities, and dialysis centers in the United States. Data files containing contact information for three of these sample frames (acute care, ambulatory surgery and long-term care) have been purchased by the Contractor from Medical Marketing Service (MSS). A data file with contact information for the fourth sample frame (dialysis centers) was provided by CDC. Each of the four sample frames (data files) contains only contact information. Additional details such as bed size or ownership type are not provided. For this reason, random sampling will be conducted within each of the four sample frames, but the sampling will not be further stratified.

The following table provides estimates of the number of records available for each sample frame, the number of responses required for statistical accuracy at a 95% confidence level (or 10% of the sample frame, whichever is larger), and the total number of surveys that will be mailed based upon an overall expected response rate of 25%. An overall response rate of 25% is estimated based upon contractor experience with other surveys of healthcare professionals (primarily physician satisfaction surveys administered on behalf of healthcare provider organizations and facilities).

The questionnaires will be mailed to the attention of the contact person specified in the data file. Where no contact person is specified, they will be mailed to the attention of the Facility Administrator. Instructions in the cover letters and on the surveys state that the person actually completing the survey should be the one with the most familiarity with the facility policies and procedures regarding the management of occupational exposures to bloodborne pathogens.

Type of Facility	Universe Size	Total Questionnaires Mailed	Number of Questionnaires Completed (25% response)
Acute-care Facilities	8,652	3,460	865
Ambulatory Surgery Centers	3,532	1,412	353
Long-term Care Facilities	36,338	14,536	3634
Dialysis Centers	4,681	1,872	468
Total			

Table 4: Sample Frame Sizes

2. Procedures for Collection of Information

Samples for each frame will be randomly selected. The sample size will be calculated based upon a 95% confidence level of accuracy using the following formula:

$$s = X^2NP(1-P)/[d^2(N-1)+ X^2P(1-P)]$$

WHERE: s = required sample size

X^2 = the table value of chi-square for 1 degree of freedom at the desired confidence level (3.841)

N = the population size

P = the population proportion (assumed to be 0.50 since this would provide the maximum sample size)

d = the degree of accuracy expressed as a proportion (0.05)

Reference: Small-Sample Techniques. *The NEA Research Bulletin*, Vol. 38 (December 1960).

The sample size will be that calculated using the above formula or 10% of the total sample frame, whichever is larger.

NRC + Picker, an independent healthcare market research firm, will conduct the survey. A description of the survey process is included here as Attachment J. Copies of the survey instruments are found in Attachment C-F.

3. Methods to Maximize Response Rates and Deal with Non-response

A Web option for completing the survey form will be offered in anticipation that this will improve response rates. All of the recipients will be professional healthcare providers who will have access to the Internet and may view the electronic submission option as easier or faster than filling out the paper version and then mailing it. Additionally, the survey mail methodology will include a pre-notification letter describing the survey and its purpose (Attachment D). The initial mailing of the questionnaire (Attachment E-H) and cover letter (Attachment I) will follow in approximately 1 week. Recipients who do not respond within 3 weeks of the mail date of the first questionnaire will receive a follow-up letter and questionnaire. (Attachments E-H, and J)

While the estimated response rate of 25% is low by some standards, contractor experience with surveys measuring job satisfaction among healthcare providers, including physicians, dictates this conservative estimate.

4. Tests of Procedures or Methods to be Undertaken

A pilot test of nine facilities (2 acute-care, 2 dialysis, 2 long-term care, and 3 ambulatory surgery) is being conducted to evaluate the survey instrument and refine questions or instructions.

5. Individuals Consulted on Statistical Aspects and Individuals Collecting and/or Analyzing Data

The survey has been designed by CDC in conjunction with the contractor, NRC+Picker. The contractor, under the supervision of CDC, will perform data collection and analysis.

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