Improving injury and illness recordkeeping in hospitals

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December 2015
Introduction

Workplace injuries exert a heavy toll on their workers and a financial burden on hospitals. The OSHA log recordkeeping system is the best statistical measure for understanding hospital injury and illness experience, for comparing it with state and national statistics and for tracking trends over several years. OSHA log recordkeepers in hospitals are responsible for keeping accurate OSHA logs to provide critical information to evaluate and guide their workplace safety programs.

When an OSHA log is missing cases or has inaccurate or outdated information, it provides an incomplete picture of the hazards workers face. This can lead to missed opportunities for improving hospital safety. In addition, the hospital is providing inaccurate information to its employees and to government agencies.

This document uses the results of a survey of OSHA log recordkeepers in hospitals to show how increased training can lead to improved recordkeeping accuracy. The information will help recordkeepers avoid common recordkeeping errors and help administrators improve the quality of the logs they review.

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The need for accurate OSHA log recordkeeping

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- Injury and illness information from the OSHA log
- Are injury and illness rates decreasing?
- How common are OSHA log errors?
- Case classification: A common error
- How are OSHA logs completed?
Minnesota’s hospitals are hazardous workplaces

Hospitals have some of the highest injury and illness case rates of all Minnesota industries.

State government hospitals had the highest total injury and illness case rate in 2014; local government hospitals and privately owned hospitals also had very high case rates.

In 2014, hospitals accounted for 4.3 percent of Minnesota’s employment and 7.1 percent of the recordable injury and illness cases (excluding federal establishments). Minnesota’s private, state government and local government hospitals employed 115,000 workers and recorded an estimated 5,600 work-related injuries and illnesses during 2014.

Included among the 2014 cases are an estimated 1,500 cases with one or more days away from work. The 2014 incidence rate for cases with one or more days away from work in privately owned hospitals was 171 cases per 10,000 full-time-equivalent (FTE) workers, compared to a rate of 98 cases per 10,000 FTE workers for all privately owned establishments.

<table>
<thead>
<tr>
<th>Industry and Ownership</th>
<th>Total Case Rate 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitals, state gov.</td>
<td>11.4</td>
</tr>
<tr>
<td>Crop production</td>
<td>10.0</td>
</tr>
<tr>
<td>Nursing homes, state gov.</td>
<td>9.5</td>
</tr>
<tr>
<td>Nursing homes, local gov.</td>
<td>8.8</td>
</tr>
<tr>
<td>Nursing homes, private</td>
<td>8.7</td>
</tr>
<tr>
<td>Justice, public order and safety activities, local gov.</td>
<td>8.3</td>
</tr>
<tr>
<td>Hospitals, local gov.</td>
<td>7.3</td>
</tr>
<tr>
<td>Hospitals, private</td>
<td>6.4</td>
</tr>
<tr>
<td>Construction</td>
<td>4.9</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>4.4</td>
</tr>
<tr>
<td>All industries, all ownerships</td>
<td>3.7</td>
</tr>
</tbody>
</table>

Cases per 100 full-time-equivalent workers
The U.S. Bureau of Labor and Statistics (BLS) annually conducts the Survey of Occupational Injuries and Illnesses (SOII). Each year, the survey gathers OSHA log summary data and detailed case characteristics from 5,000 Minnesota establishments to estimate incidence rates and describe the injured workers and their injuries and illnesses.

The OSHA log data collected from hospitals through the SOII is used to create a variety of statistics hospitals can use to:

- benchmark their own injury and illness rates;
- learn about common injuries to hospital workers; and
- learn about trends in case characteristics.

This information helps hospitals focus resources to improve worker safety. This page, the preceding page and the following page show examples of some available statistics. Additional Minnesota statistics are available at www.dli.mn.gov/RS/StatWSH.asp

### Events and exposures leading to one or more days away from work, privately owned hospitals, 2014

<table>
<thead>
<tr>
<th>Event/Exposure</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overexertion and bodily reaction</td>
<td>56%</td>
</tr>
<tr>
<td>Falls, slips, trips</td>
<td>16%</td>
</tr>
<tr>
<td>Contact with object or equipment</td>
<td>11%</td>
</tr>
<tr>
<td>Violence and other injuries by persons or animal</td>
<td>7%</td>
</tr>
<tr>
<td>Exposure to harmful substances or environments</td>
<td>6%</td>
</tr>
</tbody>
</table>
As an industry, privately owned hospitals saw injury and illness rates decline by 35 percent from 2006 through 2014. However, some incidence rate changes may be the result of variations in data quality and not changes in workplace safety. A decrease in your hospital's injury and illness rate may be due to one or more of the following reasons.

- Your hospital’s workers experienced fewer injuries and illnesses than the previous year.
- Your hospital’s workers reported fewer injuries and illnesses.
- Fewer reports of injuries and illnesses reached the log recordkeeper.
- Your hospital changed recordkeepers and the new recordkeeper is recording differently than the previous one.
- Your recordkeeper is using workers’ compensation claims data and you changed to an insurer that denied more cases.

Tracking progress in reducing work-related injuries and illnesses requires accurate OSHA log records.
How common are OSHA log errors?

Washington state researchers found half of the log recordkeepers they interviewed were not using the OSHA case definition to determine which cases to include on the log.¹ These recordkeepers were using all workers’ compensation claims, all cases with medical visits or all reported injuries. They also found one in five recordkeepers misunderstood the case classification criteria (see the next page).

A recent Minnesota Department of Labor and Industry (DLI) review of hospital and nursing home injuries and illnesses found nearly one in three OSHA logs and log summaries had errors. Among the common errors were:

- mistakes in addition;
- errors transcribing information from the log to the log summary;
- misclassification of days-away-from-work cases as job-transfer-or-restriction cases; and
- miscounting the number of cases.

The BLS survey of occupational injuries and illnesses (SOII) relies on scientific sampling to calculate injury and illness rates. In Minnesota, each hospital’s response represents, on average, two establishments. This means that reporting and recording errors are magnified.

Undercounted cases

Recent research shows many injuries and illnesses that should be included on OSHA logs, in SOII reports, and in workers’ compensation claims databases are missing. Estimates of the undercount in the cases used in the SOII range from 20 to 70 percent, depending on the research method and state studied. Some OSHA-recordable cases are reported in workers’ compensation claims databases but are not included in the OSHA log or the SOII report, and some injuries and illnesses are not reported at all.

BLS undercount research is accessible www.bls.gov/iif/undercount.htm.

Case classification: A common error

The OSHA log directions specify cases be classified according to their most serious outcome.

The columns are arranged from the most serious, death (column G), to the least serious, other recordable cases (column J). A case with both one or more days away from work and one or more days of job transfer or work restriction should be classified as a days-away-from-work case (column H). A day of partial work is considered a day of job transfer or restriction.

Many recordkeepers mistakenly classify cases according to the number of days associated with each outcome, or they check the boxes for multiple outcomes. The figure at upper right shows examples of correct case classifications.

<table>
<thead>
<tr>
<th>Classify the case</th>
<th>Enter the number of days the injured or ill worker was:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHECK ONLY ONE box for each case based on the most serious outcome for that case:</td>
<td>Days away from work</td>
</tr>
<tr>
<td>Death</td>
<td>Days away from work</td>
</tr>
<tr>
<td>G</td>
<td>H</td>
</tr>
<tr>
<td>X</td>
<td>3</td>
</tr>
<tr>
<td>X</td>
<td>2</td>
</tr>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Hospital case types, 2014

- Days-away-from-work cases: 56%
- Job transfer or restriction cases: 27%
- Other recordable cases: 16%

Creating accurate statistics is a difficult task. OSHA log recordkeeping errors distort the incidence rates of individual hospitals and they affect the injury and illness incidence rate estimates at the state and national levels when OSHA log data are surveyed.

While the OSHA recordkeeping requirements detail what injury and illness cases are recordable and how they should be recorded, the actual process of collecting injury and illness information, recording and maintaining OSHA logs may result in recordkeeping errors. Some recordkeepers may be unaware of certain recordkeeping requirements.

Including cases in the log that are not recordable leads to incidence rates that are higher than they should be. Failing to include cases that are recordable leads to incidence rates that are lower than they should be.

How are OSHA logs completed?

Do all employees know how to report an injury?

Do I know if an injured worker received medical treatment?

Have I included injuries to temporary workers?

Does the total number of hours worked exclude vacations, sick-leave and holidays?

Are my logs from the past five years up-to-date?
## Recordkeeping survey results

<table>
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<th>Conducting the recordkeeper survey</th>
</tr>
</thead>
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<tr>
<td>Counting days away from work</td>
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<tr>
<td>Updating year-end cases</td>
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<tr>
<td>Workers’ compensation confusion</td>
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<tr>
<td>Four recordability scenarios</td>
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<tr>
<td>Training makes a difference</td>
</tr>
<tr>
<td>Recordkeeper’s occupation and scenario performance</td>
</tr>
</tbody>
</table>
As part of its broader research program to address injury and illness undercount issues, BLS and DLI conducted a phone survey of SOII respondents to gather information about:

- injury and illness recordkeeping activities;
- OSHA recordkeeper experience and formal recordkeeping training such as classes, seminars, or online courses;
- the frequency of various recordkeeping errors;
- workplace and recordkeeper characteristics that may affect OSHA log accuracy.

Working with BLS, DLI researchers emailed an invitation to participate in the survey to recordkeepers responsible for completing the Survey of Occupational Injuries and Illnesses for 2010 or 2011. Fifty-four recordkeepers, 71 percent of the mailing list, participated in the survey. The participants represented at least 37 percent of hospitals. (Some respondents were log recordkeepers for more than one hospital.)

Among the hospitals with recordkeepers that provided interview responses, 24 percent had from 50 to 249 workers and 76 percent had 250 or more workers.

The survey results provide OSHA, BLS, and DLI with information about how to train recordkeepers to improve the accuracy of their OSHA logs and to estimate the effect of log data errors on the statistics derived from the logs. This document is part of the log training effort. DLI’s general industry undercount report for Minnesota has additional details about the survey, including the survey text at www.bls.gov/iif/mn_interviews.pdf.
Counting days away from work

Days away from work cases are work-related injuries and illnesses that result in the worker physically missing a day of work after the day the injury occurred or the illness began. Days away from work are counted as the number of calendar days that the worker was unable to work due to the work-related injury or illness.

The survey asked recordkeepers how they calculated days away from work and what sources they used to gather the information. Recordkeepers most often reported using payroll records to count the days, which may incorrectly exclude nonscheduled days. Recordkeepers at 19 percent of hospitals used scheduled shift days to count days away from work. Almost all the recordkeepers who had received formal OSHA log training counted calendar days, compared with less than half of the untrained recordkeepers.

### Percentage of recordkeepers using each information source for counting days away from work

- **Payroll records**: 44%
- **Use calendar**: 24%
- **Doctor's report**: 19%
- **Worker's report**: 15%
- **Supervisor's report**: 11%
- **Work comp report**: 9%

### How recordkeepers count days away from work

- **Count calendar days**: 90%
- **Count work shift days**: 43%
- **Other**: 14%
Updating year-end cases

Information about cases that occur late in the calendar year needs to be added to the log for the year the injury took place.

Sometimes an injury that occurs in late December is not reported until early in January. The log entry for this injury needs to be added to the log for the previous year. In other cases, a worker injured in one year is still away from work or is working under job restrictions during the next year. Then it is necessary to estimate the extent of days away from work or job transfer or restriction on the OSHA log summary for the injury year. The OSHA log needs to be updated when the type and extent of the time loss is known.

The survey asked two questions about updating log information. As shown in the figure at right, responses were strongly related to whether the recordkeeper had received formal OSHA log training.

More than two-thirds of the hospital recordkeepers responded they had updated days away from work or days of job transfer or restriction during the following year.

Only 41 percent of the recordkeepers had ever added new cases after the end of the initial recording period. This low percentage might be due to inadequate recordkeeping training or a lack of cases that needed to be added.
Workers’ compensation confusion

Recording injuries and illnesses on an OSHA log and preparing workers’ compensation claims seem like similar activities. The ready availability of workers’ compensation claims information makes it tempting to transcribe the workers’ compensation cases onto the OSHA log.

Cases that may be paid under workers’ compensation laws may not meet the requirements for an OSHA recordable case and vice versa. Federal OSHA recordkeeping requirements (29 Code of Federal Regulations 1904) determine the recordability of work-related injuries and illnesses. The federal requirements are not related to Minnesota’s workers’ compensation laws (Minnesota Statutes chapter 176).

Workers’ compensation systems were developed independently by each state to provide predictable, equitable and timely benefits to injured workers. The OSHA recordkeeping system was developed as a nationally standardized system for employers to track work-related injuries and illnesses. This tracking system provides a tool for employers to monitor the performance of their workplace safety programs and to compare their performance to state and national standards.

Percentage of surveyed recordkeepers

- Who kept cases on the log when work comp benefits were denied: 59%
- Who put cases on the log that were not work comp claims: 50%
- Who had work comp claims not included on the log: 19%

Fifty-six percent of recordkeepers who had OSHA log training understood they had workers’ compensation claims that were not log recordable, compared with 36 percent of recordkeepers without training.
Four recordability scenarios

The OSHA log recordkeeping requirements specify what types of injuries are to be included on the log. The requirements include a comprehensive list of the factors that determine recordability. In the survey, the respondents were asked to determine OSHA log recordability for each of four workplace injury scenarios.

**Scenario 1**
Question: An employee injured his ribs at work and went to have an X-ray. The rib was not broken and he had no further medical care. Is this an OSHA-recordable injury?

Answer: No, X-rays are diagnostic and are not medical treatment for OSHA recordability purposes. If the injured worker did not miss time away from work after the day of injury and did not have any job restrictions, the injury is not recordable.

Only 63 percent of recordkeepers would correctly keep this injury off their OSHA log. This question was the most difficult for recordkeepers.

**Scenario 2**
Question: A worker was engaged in horseplay at work while stacking some boxes and fell, resulting in days away from work. Is this an OSHA-recordable injury?

Answer: Yes, injuries resulting from horseplay are recordable. An injury that occurs at the workplace is presumed to be work-related and is recordable.

Eighty-three percent of recordkeepers correctly responded that this is a recordable case.
Four recordability scenarios

The OSHA log recordkeeping requirements specify what types of injuries are to be included on the log. The requirements include a comprehensive list of the factors that determine recordability. In the survey, the respondents were asked to determine OSHA log recordability for each of four workplace injury scenarios.

Scenario 3
Q: An employee cut his arm at work on Friday. His doctor recommended he take two days off from work. He was not scheduled to work the weekend, and he returned to work on Monday. Is this an OSHA-recordable injury?

A: Yes, the injured worker was unable to work. Scheduled shifts do not affect work status. This case is a days-away-from-work case with two days recorded as days away. The physician’s recommended time off work is the determining factor here.

Almost 80 percent of recordkeepers answered this question correctly.

Scenario 4
Q: A worker cut her thumb and had stitches, but did not miss any time away from work. Is this an OSHA-recordable injury?

A: Yes, stitches are considered medical treatment. The recordkeeping requirements include a list of the 14 treatments that are considered first aid. Only those treatments on the list are first aid.

More than 90 percent of recordkeepers answered this question correctly.

Only 39 percent of the hospital recordkeepers gave the correct responses to all four scenarios.
Training makes a difference

Correct understanding of the recordability of the four injury scenarios depended, in large part, on whether the hospital recordkeeper had any formal OSHA recordkeeping training.

Twenty-six percent of the hospital recordkeepers reported they received no recordkeeping training. The top chart at right shows trained recordkeepers were more than twice as likely as untrained recordkeepers to correctly answer all four recordkeeping scenarios.

OSHA log recordkeeping experience did not help recordkeepers answer the scenarios. New recordkeepers had the highest percentage of any experience group with four correct responses and they also had the highest percentage with recent recordkeeping training.

Recordkeepers at hospitals with 250 or more workers were three times as likely as recordkeepers at small hospitals to correctly answer all four scenarios. The bottom chart shows recordkeepers at large hospitals were also much more likely to have received training.

### Percentage of recordkeepers with four correct scenario answers

<table>
<thead>
<tr>
<th>Recordkeeping training</th>
<th>Trained</th>
<th>46%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not trained</td>
<td>21%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recordkeeping experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 2 years</td>
</tr>
<tr>
<td>2-5 years</td>
</tr>
<tr>
<td>5 or more years</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hospital size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 250 workers</td>
</tr>
<tr>
<td>250 or more workers</td>
</tr>
</tbody>
</table>

### Percentage of recordkeepers with training by hospital size

| Fewer than 250 workers | 46% |
| 250 or more workers    | 83% |
The hospital recordkeepers in the survey had three main occupation types: human resources, workplace safety and occupational nursing. Recordkeepers with human resources jobs accounted for 35 percent of the respondents. However, nearly half of the human resources recordkeepers did not receive any recordkeeping training. Occupational nurses were the most likely to correctly answer all four recordkeeping scenarios, and they had the highest percentage with formal training among the main occupation groups.

### Percentage of respondents in occupation

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational nursing</td>
<td>31%</td>
</tr>
<tr>
<td>Workplace safety</td>
<td>17%</td>
</tr>
<tr>
<td>Human resources</td>
<td>35%</td>
</tr>
</tbody>
</table>

### Percentage of respondents with training by occupation

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational nursing</td>
<td>88%</td>
</tr>
<tr>
<td>Workplace safety</td>
<td>87%</td>
</tr>
<tr>
<td>Human resources</td>
<td>53%</td>
</tr>
</tbody>
</table>

### Number of correct answers

<table>
<thead>
<tr>
<th>Number of correct answers</th>
<th>Occupational nursing</th>
<th>Workplace safety</th>
<th>Human resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>12%</td>
<td>16%</td>
<td>16%</td>
</tr>
<tr>
<td>3</td>
<td>22%</td>
<td>18%</td>
<td>33%</td>
</tr>
<tr>
<td>4</td>
<td>68%</td>
<td>71%</td>
<td>44%</td>
</tr>
</tbody>
</table>
OSHA log recordkeeping tips and resources

Why we use the OSHA log
What makes a good OSHA log?
Counting days away from work
How hospitals should use their logs
Eight questions about your OSHA log
Different ways to measure safety
Improving your OSHA recordkeeping skills
Why we use the OSHA log

Why was the OSHA log created?

• Standardization: The log is the official record of an injury or illness. Federal law requires the use of the OSHA log.

• National measure: The log is used in every state. Workers’ compensation forms are state-specific.

• Consistency: Recordkeeping requirements mean everyone everywhere is following the same set of rules.

When the recordkeeping requirements are followed, the log recordkeeping system will provide:

• The number and rate of recordable cases;

• The types of cases;

• The characteristics of the injured workers, and

• The characteristics of their injuries and illnesses.

These establishment-specific data can be compared with the industry benchmarks tabulated from the OSHA log data collected by BLS through the Survey of Occupational Injuries and Illnesses.

The OSHA log is not an intuitive form. OSHA log recordkeeping requires special skills. Recordkeepers need to learn about the recordkeeping requirements.
What makes a good OSHA log?

Columns C through F on the OSHA log describe the worker’s injury or illness. This information is critical to improving workplace safety.

- **Column C:** the **job title** of **who** got injured. Use generic job titles like RN, NAR and maintenance worker.
- **Column D:** the **date of injury or illness.** Only include cases that are first recordable during the year of the log record.
- **Column E:** **where** the worker got injured. Don’t use building-specific descriptions such as G-4; use descriptions such as OR, ER or inpatient room.
- **Column F:** **how** the worker got injured, **what** object or substance was involved, **what** body part was injured and **what** the injury was. Examples: strained shoulder while lowering patient; slipped on wet floor in ER, knee contusion.

<table>
<thead>
<tr>
<th>Describe the case</th>
<th>(C)</th>
<th>(D)</th>
<th>(E)</th>
<th>(F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Title</td>
<td></td>
<td>Date of injury or onset of illness</td>
<td>Where the event occurred (e.g., loading dock north end)</td>
<td>Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., second degree burns on right forearm from acetylene torch)</td>
</tr>
<tr>
<td>(e.g., welder)</td>
<td></td>
<td>(mo./day)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Write the OSHA log entries as if you were describing the accident as a news story. Take as much space as you need. Make sure someone who knows nothing about your facility could understand what occurred.
Any work-related injury or illness that results in the worker physically missing a day of work after the day the injury occurred or the illness began is a days-away-from-work case.

A days-away-from-work case must also be counted when the employer receives information from a health care provider that the worker should not work on a day the worker was not scheduled to work. If a health care provider recommends the injured worker take a day away from work and the worker decides to work that day, that is still a days-away-from-work case.

**How to count days away from work**

- Begin counting days on the day after the injury occurred or the illness began.
- Count the number of calendar days, not just scheduled workdays.
- Weekends, holidays, vacation days and other days off are all included in the day count.
- A day of partial work is counted as a day of job transfer or restriction. It is not counted if it is the day of the injury or the day the illness began.

For example, see the chart at right. If a worker is injured mid-shift on a Tuesday, is then away from work until returning mid-shift on Thursday of the following week and normally is off on Saturday and Sunday, eight days away from work and one day of job transfer or restriction would be reported.

**Example of counting days away from work**

<table>
<thead>
<tr>
<th>Day</th>
<th>Work schedule</th>
<th>Event</th>
<th>Log day count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>Workday</td>
<td>Injury mid-shift</td>
<td>Not counted</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Workday</td>
<td>Away from work</td>
<td>Count day away 1</td>
</tr>
<tr>
<td>Thursday</td>
<td>Workday</td>
<td>Away from work</td>
<td>Count day away 2</td>
</tr>
<tr>
<td>Friday</td>
<td>Workday</td>
<td>Away from work</td>
<td>Count day away 3</td>
</tr>
<tr>
<td>Saturday</td>
<td>Day off</td>
<td>Away from work</td>
<td>Count day away 4</td>
</tr>
<tr>
<td>Sunday</td>
<td>Day off</td>
<td>Away from work</td>
<td>Count day away 5</td>
</tr>
<tr>
<td>Monday</td>
<td>Workday</td>
<td>Away from work</td>
<td>Count day away 6</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Workday</td>
<td>Away from work</td>
<td>Count day away 7</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Workday</td>
<td>Away from work</td>
<td>Count day away 8</td>
</tr>
<tr>
<td>Thursday</td>
<td>Workday</td>
<td>Return mid-shift</td>
<td>Count job-restriction day</td>
</tr>
</tbody>
</table>
How hospitals should use their logs

The OSHA log is not just a form, it is part of a system to help you manage worker safety.

To keep an accurate OSHA log you need to:

• communicate to employees the need to report all injuries and illnesses and provide a way to make those reports;
• have a trained person gather the information and enter it into the log;
• create the log summary, certify it and post it from Feb. 1 through April 30 of the following year; and
• maintain the log and update cases for five years after the initial recording year.

Use the log information to calculate your hospital's case incidence rates (see box below) and compare them with the state and national industry rates and to track how your rates change. Use the log information, along with workers' compensation reports and other leading and lagging indicators (see page 25), to evaluate your hospital's safety performance and programs, and to identify areas where more intensive work is needed.

Workplace safety is an employer's responsibility and OSHA designed the log recordkeeping requirements to give employers an active role in tracking and measuring injuries and illnesses.

Calculating incidence rates

You can compute incidence rates for the total number of cases, for each case type and for cases with any time away from work. The rate is the number of relevant OSHA recordable cases per 100 full-time-equivalent employees.

The rate is calculated by dividing the number of recordable injury and illness cases by the total hours worked by all workers (to get the number of cases per hour worked) and multiplying the result by 200,000 (the number of hours representing 100 full-time-equivalent workers).
Eight questions about your OSHA log

These questions should be asked by the recordkeeper and the person certifying the log summary each year.

1. If your company has multiple hospitals, did you keep a separate log for each location or can separate logs be created from one electronic file?

2. Did you record the proper cases? Recordable cases with no time away from work require medical treatment.

3. Did you classify the cases correctly? Each case can only be a days-away-from-work case, job transfer or restriction case, or other recordable case based on the most serious outcome.

4. Did you count all calendar days for days away from work and days of job transfer or restriction?

5. Did you remove the names of workers with injuries and illnesses from log entries qualifying as privacy cases? Recordable needlestick injuries are privacy cases.

6. Are the records up to date and are they kept up to date for the full five years they are maintained?

7. Do you have accurate counts of the annual average number of workers and total hours worked for each hospital?

8. Can you provide an accurate log to workers and their representatives?
Different ways to measure safety

**Leading indicators**

Leading indicators focus on safety behaviors and the social and physical work environments, where employers and workers have the ability to directly and indirectly influence safety outcomes. Some of the common leading indicators are:

- employee training records
- hazard identification and mitigation
- charting near-misses
- equipment and machinery maintenance
- safety committee participation
- measures of employee safety engagement; and
- employee surveys about working conditions.

**Lagging indicators**

Lagging indicators record events occurring to workers and to the work environment. Some of the common lagging indicators are:

- number and rate of workers’ compensation claims
- workers’ compensation claims costs
- OSHA log case numbers and rates
- sharps log measures
- days away from work and absenteeism
- production lost due to injuries and illnesses; and
- employee turnover rates.

Safety directors should use both leading and lagging indicators to fully understand and manage workplace safety in hospitals.
Improving your OSHA recordkeeping skills

The Minnesota Department of Labor and Industry (DLI) and the U.S. Department of Labor have OSHA recordkeeping information, resources and training material available at no cost.

DLI recordkeeping resources available at www.dli.mn.gov/OSHA/Recordkeeping.asp include Recordkeeping 101 and 201 articles that address many of the decisions recordkeepers need to make.

DLI presents in-person seminars and webinars about OSHA recordkeeping. These are announced in the Safety Lines newsletter and on the DLI recordkeeping web page.

DLI’s Minnesota OSHA Compliance, MNOSHA Workplace Safety Consultation and SOII work group are all available via email to help recordkeepers with their questions.

- MNOSHA Compliance: osha.compliance@state.mn.us
- MNOSHA Workplace Safety Consultation: osha.consultation@state.mn.us
- SOII work group: dli.research@state.mn.us

Tables and charts presenting Minnesota estimates produced through the SOII are available at www.dli.mn.gov/RS/StatWSH.asp. Email the SOII work group for access to other Minnesota statistics.

Federal recordkeeping assistance is available at www.osha.gov/recordkeeping.

A recordkeeping tutorial is available at www.osha.gov/recordkeeping/tutorial.html. The tutorial covers what types of operations come under the recordkeeping rule, what types of injury and illness incidents must be recorded and what information is to be included in each of the OSHA forms.

The “Detailed Guidance for OSHA’s Injury and Illness Recordkeeping Rule,” which includes the text of the requirements, explanatory material and responses to frequently asked questions is online at www.osha.gov/recordkeeping/entryfaq.html.

OSHA also has an online recordkeeping advisor that helps recordkeepers determine whether a case is recordable at www.dol.gov/elaws/OSHARecordkeeping.htm.

State and national injury and illness statistics based on the SOII are available at the BLS injuries, illnesses and fatalities web page at www.bls.gov/iif.
Acknowledgements

The Minnesota OSHA log recordkeeper survey was funded through a grant from the U.S. Bureau of Labor Statistics to the Minnesota Department of Labor and Industry. The Minnesota researchers worked with researchers from BLS and from state agencies in New York, Oregon and Washington to create the survey and analyze the results. Minnesota’s full report, SOII Undercount Project: Minnesota interviews with SOII respondents is online at www.bls.gov/iif/mn_interview.pdf.

In Minnesota, the Survey of Occupational Injuries and Illnesses is conducted under a cooperative agreement with BLS. Minnesota SOII statistics are online at www.dli.mn.gov/RS/StatWSH.asp.

Other research about OSHA log quality in health care establishments mentioned in this report was conducted by DLI.

Questions about the content of this report or requests for additional information should be directed to the DLI Research and Statistics unit at dli.research@state.mn.us.