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## **An Analysis of Slip, Trip, and Fall Incidents among Workers at a Veterans Hospital**

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AN ANALYSIS OF SLIP, TRIP, AND FALL INCIDENTS AMONG WORKERS AT A  
VETERANS HOSPITAL

by

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A thesis submitted in partial fulfillment  
of the requirements for the degree of  
Master of Science in Public Health  
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An Analysis of Slip, Trip, and Fall Incidents Among Workers at a Veterans  
Hospital.

Michelle C. Eaton, M.D.

Abstract

Context: Occupational slip, trip, and fall, (STF), incidents are a significant cause of traumatic occupational injuries and has been identified as NORA priority area.

Objective: The National Institute for Occupational Safety and Health in collaboration with Liberty Mutual Research Center for Safety and Health, the Finnish Institute for Occupational Safety and Health, and BJC Health System is conducting a 3 year study titled “Slip and Falls Prevention in Health Care Workers”. A key component of the overall study is the descriptive analysis of 72 months (1996-2001) of STF incidents.

Setting: This analysis encompasses data from the James A. Haley Veteran’s Administration Medical Center, (JAH).

Results: Forty- five months of historical STF data from the ASISTS database was analyzed. Of 279 STF incidents, 71.22%, (240) were female, the median age was 49 years, RN’s were the most common occupational category (70 =21.74%), trips were the most common type of incident, (105 = 33.44%), the

parking lot was the most common location, (75 = 23.70%), Non- specified slick surfaces (56 = 17.83%) and non- patient related objects were the most common cause (56 =17.83%), 70.85%, (192) returned to full duty, and 83.67%, (246) had no lost work time. Wilcoxon Ranked Sum test comparing those with affected work time found no significant difference in age (p= 0.4133). Analysis could not be performed using exact number of lost work days and days on light duty because of discrepancies between the ASISTS and Safety Office alternative databases.

Conclusion: Efforts and resources to decrease the number of STF incidents at the JAH would be best concentrated in the following areas: Occupations, locations, and causes associated with the highest frequencies of STF incidents. Proposed improvements in the method of data collection include: Identify what STF questions want to be answered. Decide what data is required to answer the question. Design a data collection system around this. Strive for a more integrated approach; encourage employee reporting; altering VA form 2162. Given the downward trend in the three year analysis of STF incidents, caution should be used in analyzing the results of a pre and post intervention study.

## Introduction

### Background

In April 1996, The National Institute for Occupational Safety and Health, (NIOSH), unveiled the National Occupational Research Agenda, (NORA). NORA was developed by NIOSH and approximately 50 of its partners in the public and private sectors to provide a framework to guide occupational safety and health research in the United States over the next decade. This effort has identified 21 priority areas as important and most likely to improve worker safety and health in the United States. Occupational slip, trip, and fall incidents are a significant cause of traumatic occupational injuries and has been identified as NORA priority area. In their 1998 report discussing the specific research needs related to traumatic occupational injuries it was specifically stated, “By capturing information about less serious injuries that could have resulted in greater harm, the number of cases to study will be increased and further insight will be gained into the broad range of risk factors that result in injuries. Such information will allow for identification of prevention strategies that address risk earlier in the cycle of injury” (Nora Traumatic Injury Team, 1998).



## The Overall Study

To address this NORA objective, NIOSH, in collaboration with Liberty Mutual Research Center for Safety and Health, (LMRCSH), the Finnish Institute for Occupational Safety and Health, (FIOSH), and BJC Health System is conducting a 3 year study titled “Slip and Falls Prevention in Health Care Workers”. The overall objective is to evaluate risk factors for occupational slips, trips, and falls (STF), and to develop, implement, and evaluate a STF prevention program in a study population of intervention and control hospitals. The study encompasses four components:

- A descriptive analysis of historical slip, trip and fall incidents at specified hospitals.
- A laboratory evaluation to establish countermeasures and prevention strategies.
- A field study which will design and implement a slip, trip, and fall prevention program in 3 hospitals and measure it’s effectiveness compare to 7 control hospitals.
- Apply a case- crossover methodology to identify risk factors for slip, trip, and fall injuries by interviewing injured workers (Collins, 2002).

Table 1. The Study Timeline

	2001	2002	2003-2005
Historical analysis	X	X	X
Laboratory evaluation		X	
Field study	X		X
Case Crossover	X	X	X
	Pre-intervention		Post-intervention

The study will be performed in multiple locations. The laboratory studies will take place at the Liberty Mutual Research Center for Safety and Health in Hopkinton, Massachusetts, and the Finnish Institute for Occupational Health, Finland, and at the NIOSH's Division of Safety Research in Morgantown, West Virginia. The field study will implement a slip, trip, and fall intervention program at the three BJC Health System hospitals: St. Louis Children's Hospital, Missouri Baptist Medical Center, and Alton Memorial Hospital and compare it's effectiveness relative to seven control hospitals in the BJC Health System. The project management and data analysis will be performed within the Analysis and Field Evaluations Branch, Division of Safety Research, NIOSH, Morgantown, West Virginia (Collins, 2002).

The Purpose.

A key component of the overall study is the descriptive analysis of 72 months (1996-2001) of pre- intervention slip, trip, and fall incidents in the hospitals targeted for intervention. This analysis will provide details on the

circumstances, location, and factors that will help target the laboratory study and the prevention program. One of the designated intervention hospitals is the James A. Haley Veteran's Administration Medical Center, (JAH), located in Tampa, Florida. This analysis encompasses historical data obtained from this site.

## Literature Review

A slip represents the loss of balance caused by too little friction between a human's feet and his or her walking surface. Slips are primarily caused by a slippery surface and compounded by wearing the wrong footwear. In normal walking, two types of slips occur. The first of these is when the forward foot contacts the walking surface at an angle near the rear edge of the heel. With this type of slip, the front foot slips forward and the person falls backward. The second type of slip is when the rear foot slips backward. The force to move forward is on the sole of the rear foot. As the rear heel is lifted and the force move forward to the front of the sole, the foot slips back and the person falls.

A trip represents the loss of balance caused by the interruption of the forward or backward movement of one or both feet, because of striking some object in the path of the foot/feet. As little as a 3/8 inch rise in a walkway can cause a person to trip. Both slips and trips often result in falls. Falls result when the body movement shifts the body too far off the center of balance (National Ag Safety Database, 2002) Goetsh (1993) identifies four contributing variables to STF incidents:

- A foreign object on the walking surface.
- A design flaw in the walking surface.
- A slippery surface.
- An individuals impaired physical or mental condition.

According to the Bureau of Labor and Statistics, (BLS), (1998) slips, trips, and falls accounted for the third greatest proportion of non-fatal injuries (19%) in all private industry. In certain occupational groups and industries, slips, trips, and falls constitute the first or second largest proportion of total injuries (Manning, 1998). These incidents are expensive in both loss of productive work days and workers' compensation costs. The unexpected tolerance of slips and falls as unfortunate incidents and apparent low expectation for technological improvement may result from a lack of awareness of the magnitude of individual suffering and other the social costs borne by industry for medical care and wage indemnity (Leamon & Murphy, 1995).

Lost work days due to slip, trip, and fall incidents is a useful parameter in gauging the significance of this problem. United States BLS data from 1995 summarized by Mital, Pennathur, and Kansal (1999) indicated that 28% of the workplace falls on the same level resulted in lost work time of 21 days or more. Researchers in the United Kingdom found that almost 18% of occupational accidents involving absence from work for more than three days were related to slipping, tripping, or falls on the same level (Leamon and Murphy, 1995). BLS reports that the incidence rate of lost work day injuries

from slips, trips, and falls (on the same level), in hospitals was 50% greater than the average rate for all other private industries (BLS, 1998).

While falls from elevation typically result in more severe injuries, fall on the same level are much more common, comprising over 60% of total falls (Andersson and Lagerlof, 1983). Data from Sweden show that falls on the same level from slipping, tripping or stumbling accounted for 8% of occupational deaths (Strandberg, 1983). BLS data from 1999 showed that in private industry, the number of lost work days due to slips, trips, and falls on the same level was 245,462. (BLS, 2002).

Another parameter commonly measured is the workers compensation costs associated with slip, trip, and fall from same level incidents. STF incidents account for 15 to 20% of all workers' compensation costs annually (National Ag database). In 1994, cost per fall injury (fatal and non-fatal) in the general population was estimated at \$4,692 (Englander, Hodson, and Terregrossa, 1996). The National Council on Compensation Insurance found the cost per occupational slip, trip, and fall injury to be much higher at \$12,470 per non-fatal injury (National Safety Council, 1999). Liberty Mutual, which insures approximately 6 million workers, reported that injuries resulting from falls accounted for 24% of the total cost of workers compensation claims (Leamon and Murphy, 1995). Projections to the year 2020 by Englander et al (1996) indicated that the overall cost of fall injuries will exceed \$85 billion.

Age seems to be an important factor in both the frequency and severity of slip, trip, and fall incidents. Studies by Layne and Landon (1997) found

that older workers are more likely than younger workers to suffer a fracture after a same level fall. Kemmlert and Lundholm (2001) found that older workers suffer higher rates of injuries due to slip, trip, and fall incidents with the effect being more pronounced in women. They also analyzed data from the Swedish National Board of Occupational Safety and Health and found a higher proportion of STF accidents among men and women aged 45 years or more than among younger workers. Leamon and Murphy (1995) also found males to have a higher number of falls both from height and the same level, although this might be a result of an inappropriate extrapolation of gender proportions to “high risk” jobs. Older women reported STF accidents more than twice as often as their younger colleagues. They also found they older workers, (greater than age 45) had longer periods of sick leave as a result of their accidents than their younger counterparts (Kemmlert and Lundholm, 1997). In a study of 11% of the American privately insured workforce, researchers found workers over the age of 40 were more likely to suffer an injury from a fall on the same level when compared to younger workers (Leamon and Murphy, 1995).

## Materials and Methods

### The Site

The James A. Hailey Veterans Administration Hospital is a 275 bed facility that employs an average of 3,000 full time employees. The main hospital building is 674,000 square feet. The Nursing Home Care unit has 70 beds and is 144,000 square feet.

### Data Acquisition

Prior to the acquisition of data, approval was obtained from both the University of South Florida and James A Haley Veterans Hospital Institutional Review Boards. Data was obtained in collaboration with the Safety Office and an Information Technologist Specialist at the JAH Veterans Hospital. All initial illness and injury data is entered and maintained within The Automated Safety Incident Surveillance Tracking System (ASISTS) database. For an injury or illness to be entered into the database, the following sequence of steps must occur.

- An incident occurs causing injury or illness.
- The supervisor gathers and enters initial information to complete a Report of Accident which is Veterans Administration, (VA), form 2162 (Appendix A).



- Each incident is assigned a case number.
- The form is reviewed and completed by a Safety Officer.
- The information is entered electronically into the ASISTS database by the Safety Officer or another employee.

Simultaneously, a CA-1 or CA-2 form is completed by the supervisor (Appendix B). This form is completed once an incidents case is closed and contains additional information including number of days on light duty and number of lost work days. The supervisor is responsible for information contained within the CA-1 and CA-2. The information from the 2162, CA-1 and CA-2 is maintained within the ASISTS database.

The specific fields from the ASISTS database needed for analysis were identified and requested from the Information Specialist. Incidents were limited to those coded as slip, trip and fall, occurring at the JAH Veterans Hospital, and dating back to 1996. The requested fields were: “date of incident”, “case number”, “gender”, “date of birth” (to determine age), “setting of injury”, “location of injury”, “description of incident”, “occupation code”, “occupation”, “employee duty station”, “duty returned to”, “lost work days” (yes/no), “number of lost work days”, “light duty” (yes/no), “number of days on light duty”, and “cause of injury”. The fields “description of incident” and “cause of injury” are both narrative fields requiring text data input. The remainders of the fields are chosen from a menu option.

The number of lost work days and light work days was not able to be accessed directly through the ASISTS database. Therefore, data pertaining to

the number of lost and light duty work days was obtained from an alternate database maintained by the Safety Office. The purpose of this alternate database is to create reports of accident data as the ASISTS database can reproduce raw data only. The data from the alternate database was matched to data from the ASISTS database by utilizing case number only.

Once obtained, the data was entered into an Excel spreadsheet. The text fields of “description of incident”, “setting of injury”, and “cause of injury” were manually merged and numerically coded to create three categories: Type of incident, Cause of Incident, and Location of Incident (Appendix C.) Once coded, the data was transferred to a SAS software system for statistical analysis.

## Results

The data from the ASISTS database was analyzed using the SAS software system. For the nominal data, descriptive statistics to include frequency and percent were calculated and are presented in Table 2. Univariate analysis was performed on the interval variable of “age”. The SAS programs and the complete results are in Appendix D.

Table 2. Summary of Descriptive Statistics for Variables from the ASISTS Database

Variable	Descriptive Statistics	
Gender	Male: 28.78%	Female: 71.22%
Age	Mean: 47.58 years Median: 49.00 years	Skewness: -0.4761 Kurtosis: 2.035
Occupation	RN: 21.74% LPN: 11.49% Administrative: 9.01% House keeping: 5.90%	Food Service 4.97% MD/DO: 0.93% Other: 45.96%
Type of incident	Trip: 33.44% Slip: 32.48%	Fall: 24.52% Not Given: 9.55%
Location of Incident	Parking lot: 23.70% Patient room: 12.66% Stairwell: 9.42% Hallway: 8.77% Lobby: 6.17%	Outpatient clinic: 4.55% Restroom: 1.95% Cafeteria: 1.62% Other: 23.70% Not Given: 9.09%

Continued on next page

Table 2. Summary of Descriptive Statistics for Variables from the ASISTS Database(Continued).

Variable	Descriptive Statistics	
Cause of Incident	Slick NOS: 17.83%	Stairs: 5.73%
	NPR-Object: 17.83%	Chair: 4.78%
	Uneven Surface: 10.83%	Height: 3.18%
	Other: 8.60%	Bus: 1.59%
	Water: 7.32%	Urine: 0.96%
	PR-Object: 5.10%	Not Given: 16.24%
Duty Returned to	Full Duty: 70.85%	Light Duty: 29.15%
Lost Work Time	No Lost Time: 83.67%	Lost Time: 16.33%

Slick NOS= slick surface, not otherwise specified; NPR- Object= non-patient related object (computer cords, parking stops, door stoppers, object in parking lot); PR- Object= patient related object (canes, IV pole, bed linens); Height= from height (step stool); Bus= entering/exiting from bus; Other= (syncopal episodes).

For enhanced visualization, each nominal variable is presented in a histogram format in Figures 1 through 7.

Figure1. Percent of STF Incidents for Each Gender.

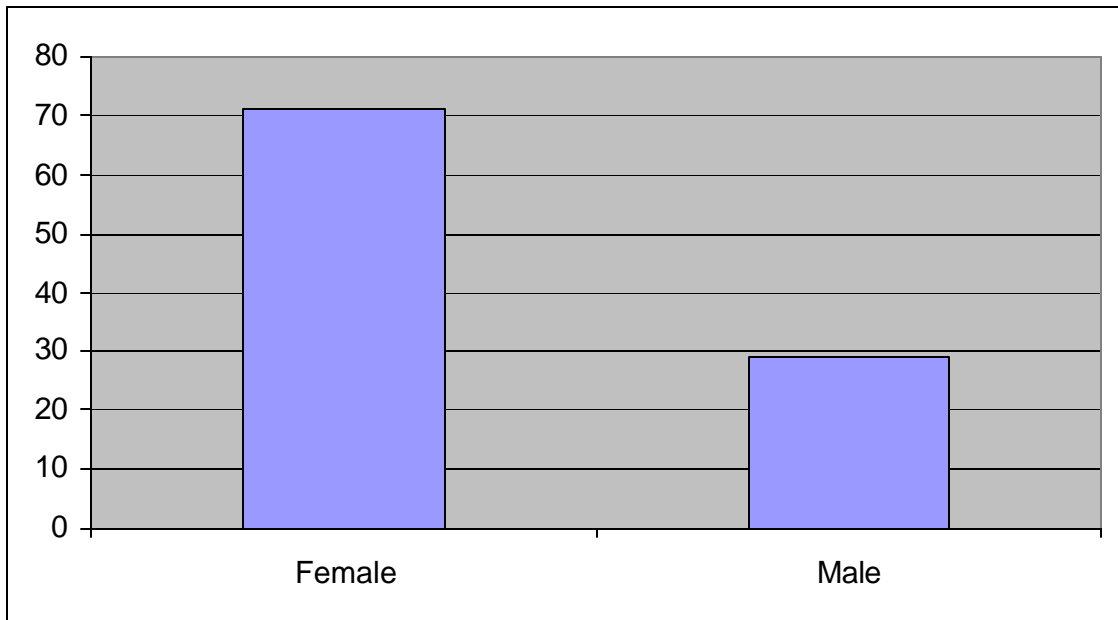


Figure 2. Percent of STF Incidents for Selected Occupations

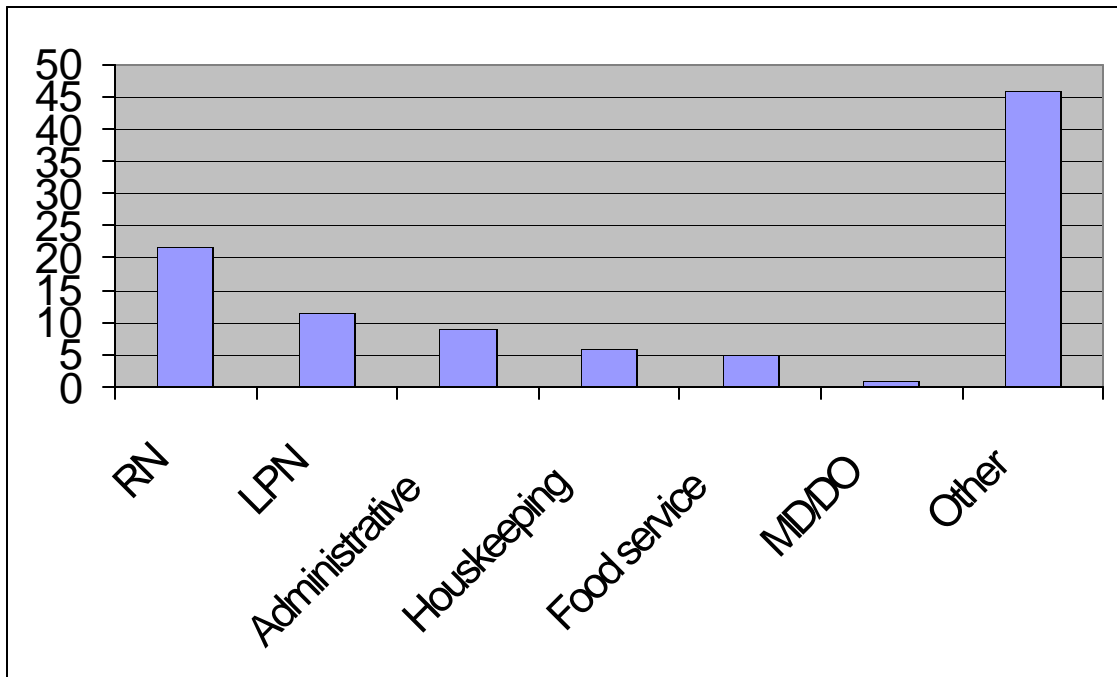


Figure 3. Percent of Each Type of Incident

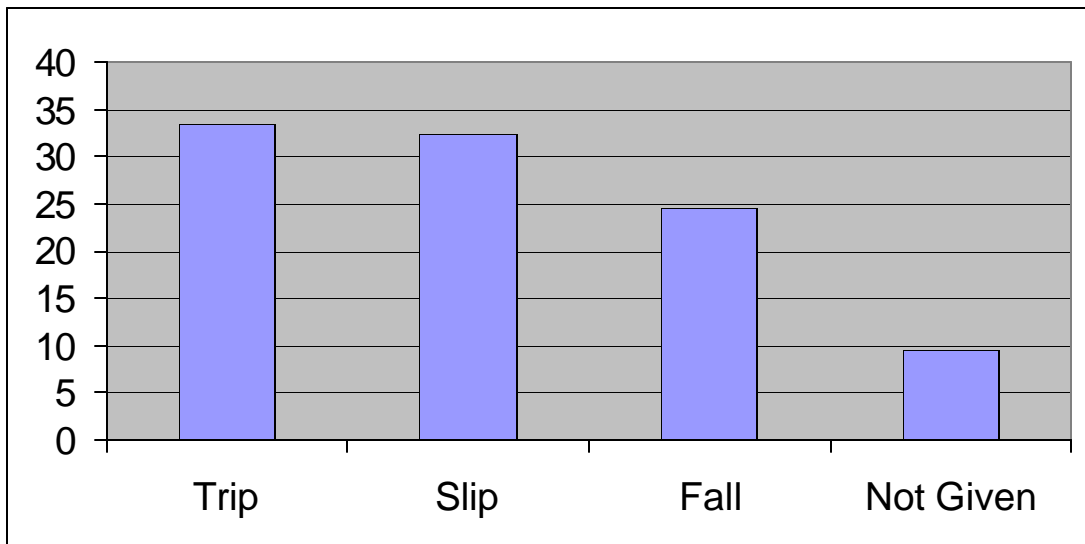


Figure 4. Percent of STF Incidents at Each Location.

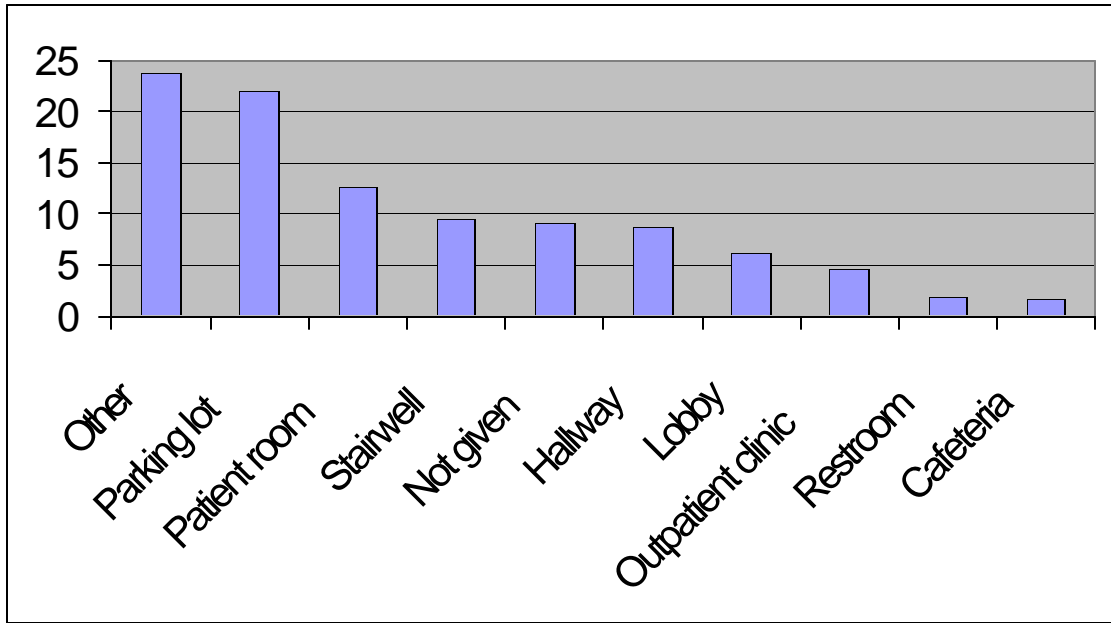


Figure 5. Percent of Each Cause of STF Incidents

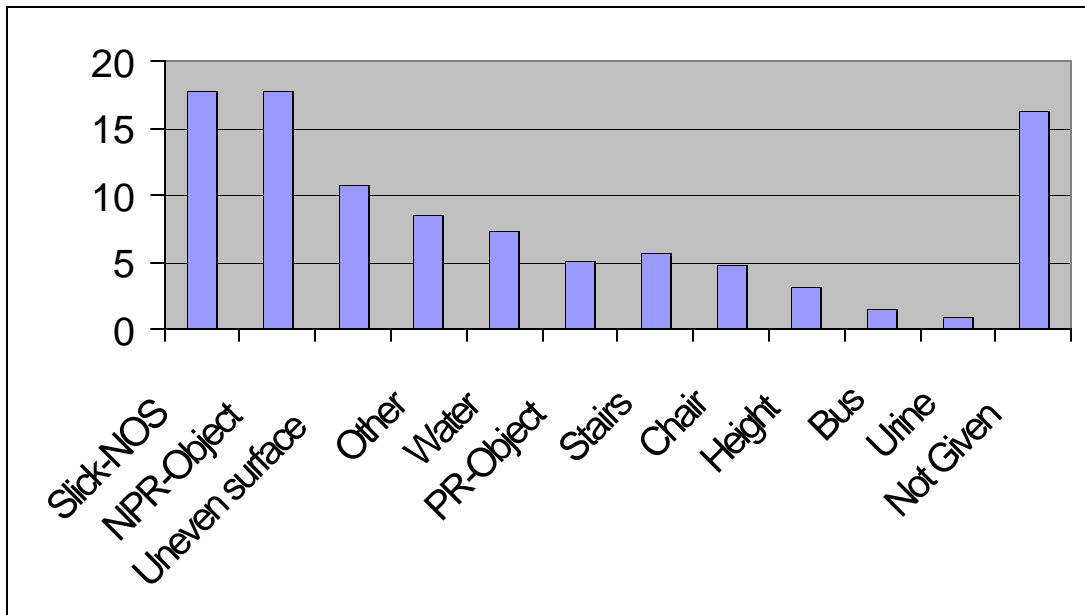


Figure 6. Percent of Workers Returned to Full and Light Duty Following an STF Incident

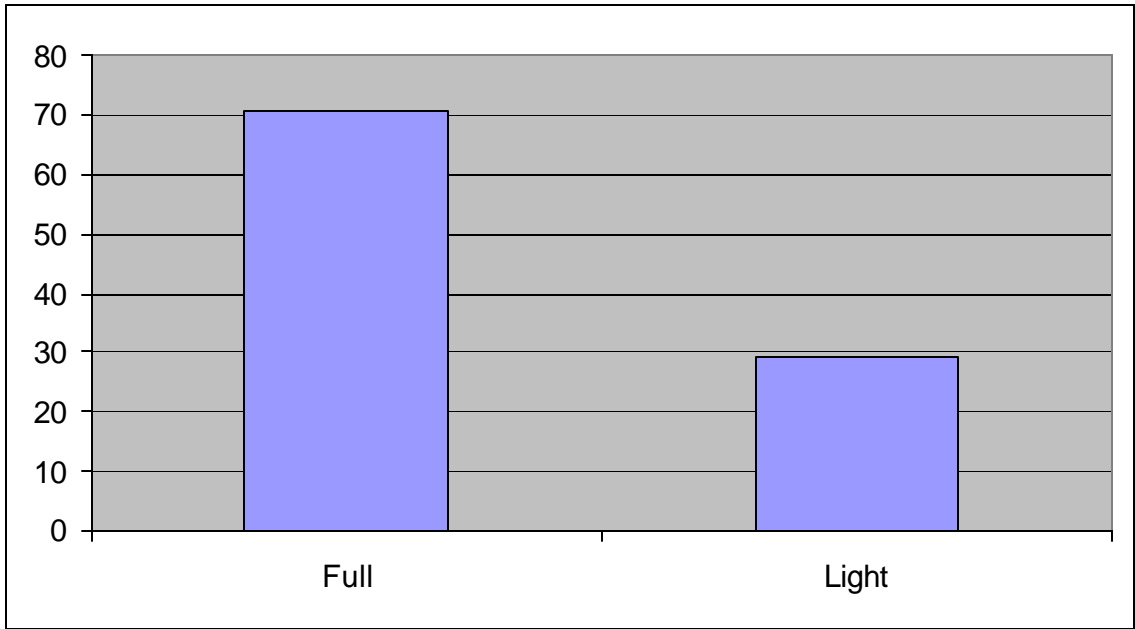
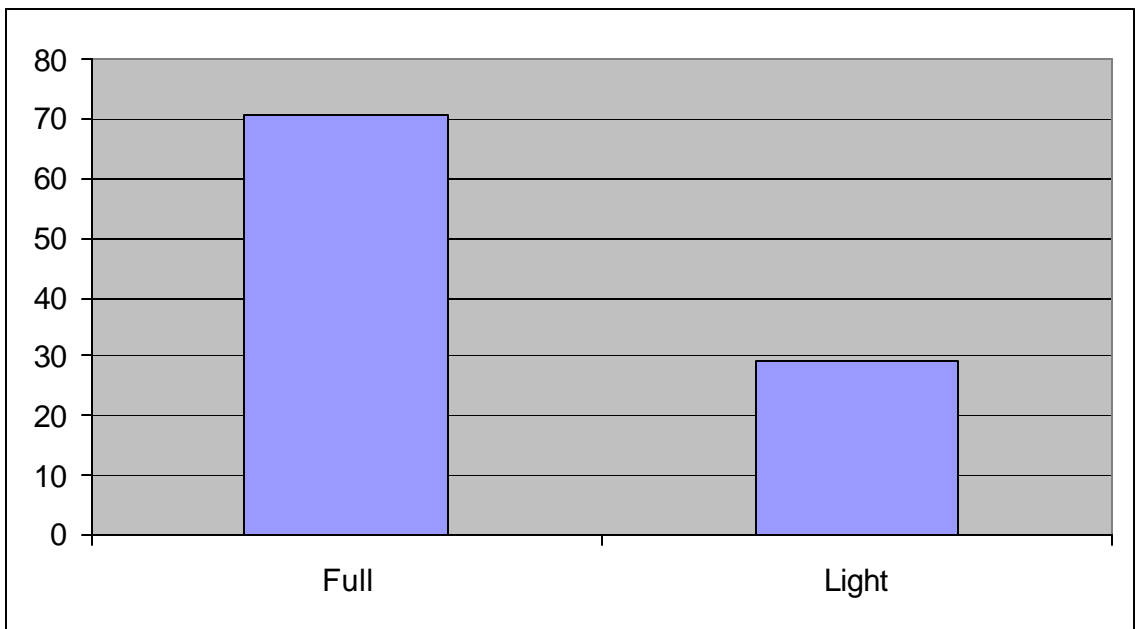


Figure 7. Percent of Workers with Lost Work Days and No Lost Work Days Following an STF Incident.



Data to compare the number of slip, trip and fall incidents as compared to all the reported injuries was available for years 1999 through 2001 only. To determine the three year trend; slip, trip, and fall incidents per 100 full time employees was determined and is presented in Table 3.

Table 3. Percent of Slip, Trip, and Fall Incidents per Year as Part of Total Reported Incidents and per 100 Full Time Employees.

Year	Total Number Incidents	Number of Slips, Trips, Falls	Percent of Slips, trips, Falls	Total Number of Employees	STFs/ 100FTEs
1999	630	112	17.78%	2,178	5.14
2000	625	84	13.44%	2,200	3.82
2001	850	83	9.76%	2,434	3.14

Percent of Slips, trips, Falls = Number of Slips, Trips, Falls/ Total Number Incidents X 100%; STFs/ 100FTEs = Number of Slips, Trips, Falls/ Total Number of Employees X 100.

From the ASISTS database, the fields lost work time (yes/no) and light duty (yes/no) were combined to form a third category of “affected work time”.

A Wilcoxon Ranked Sum test was performed to determine if there was a difference between the age of those workers who suffered a slip, trip, and fall incident and had “affected work time” compared to those without affected work time. The t score was -0.8181 with a p-value of 0.4133.

Actual number of lost work days and days of light duty were obtained from the alternate database and matched to the ASISTS data using case number. This data is presented in Table 4.



Table 4. Percent of Reported Lost and Light Duty Work Days From Each Database

Data Set	Percent with lost Days	Percent with light Days
ASISTS	16.33%	29.15%
Alternate	4.38%	8.19%

To further compare the consistency between the two data sources, the frequency with which lost work days (yes/no), and light work days (yes/no) was indicated in the ASISTS database was matched to the alternate database. The results are depicted in Table 5.

Table 5. Frequency with which Light and Lost Work Day Data from the ASISTS Database Matched the Alternate Database

Variable	Frequency
Light Work Days	Yes: 8.19% Not Available: 10.82% Known light days w/o data: 46.84%
Lost work Days	Yes: 4.38% Not Available: 8.19% Known lost days w/o data: 58.33%

Yes = number of subjects with numerical values available in alternate data set/ total number slips, trips, falls X 100%; Not Available = number of subjects known to have light (or lost) days from ASISTS database - number of subjects with numerical values available in alternate database/ total number slips, trips, falls X 100%; known light days w/o data = number of subjects known to have light days from ASISTS database - number of subjects with numerical values for lost days available in alternate data base/ number of subjects known to have light days from ASISTS database X 100%; known lost days w/o data = number of subjects known to have lost days from ASISTS database- number of subjects with numerical values available for lost days in alternate data set/ number of subjects known to have lost days from ASISTSX 100%.

## Discussion

Descriptive statistics are used to describe the basic features of the data in a study. They provide simple summaries about the sample and the measures. Together with simple graphics, they form the basis of virtually every quantitative analysis of data.

The ASISTS database was analyzed to determine where to focus resources and efforts to decrease the number of STF incidents. For this, the appropriate denominator for the count data is the total number of STF incidents. The frequency provides an indication of where, how, and to whom, the incidents are occurring. It is not an indication of risk for that group. It should be noted that this data represents reported and not actual STF incidents and therefore may represent the most severe of the incidents and is subject to information bias.

The original intent of this study was to analyze 72 months, (1996-2001), of historical STF data. The ASISTS software package is a relatively new resource to the hospital and data could be retrieved as far back as 1998 only. Therefore, this study analyzed the available 45 months of data from December 1998- August 2002.

Table 2 shows that females were involved in over twice as many STF incidents as males which is consistent with the current literature. Davis, Stevens, and Manning (2001) reported that females have an increased relative risk of two compared with men of having a STF incident and that holding something while walking increases this risk to four. They described possible explanations for the increased risk seen when objects are being carried as:

- Men are more likely to have non-underfoot accidents.
- Women are more likely than men to be injured by falling as part as an underfoot accident.
- Women are more likely to have underfoot accidents.
- Women simply spend more time than men in environments with underfoot hazards Davies et al (2001).

The mean age of a worker involved in a reported STF incident was 47.58 years. To avoid the influence of outlier values, the median value of 49.0 years may be a better representation of the central tendency of age. The Shapiro-Wilk statistic was obtained to determine if the age was normally distributed. The Shapiro-Wilk value of 0.9709 with a corresponding p value of 0.0001 indicates that age is not normally distributed. Skewness is a measure of symmetry, or more precisely, the lack of symmetry. A distribution, or data set, is symmetric if it looks the same to the left and right of the center point. Skewness was calculated to be -0.0472. A negative skew indicates that the histogram has a rightward distribution. The histogram depicting age had a

kurtosis of 2.034. Kurtosis is a measure of whether the data are peaked or flat relative to a normal distribution. That is, data sets with high kurtosis, tend to have a distinct peak near the mean, decline rather rapidly, and have heavy tails. This is referred to as a leptokurtic distribution. Data sets with low kurtosis tend to have a flat top near the mean, rather than a sharp peak. These data sets are referred to as platykurtic. A uniform distribution would be the extreme case.

The occupation with the highest number of STF incidents was the nurses. Together, the RN and LPN occupation codes accounted for 33% of the incidents. This could be attributed to the heavy workload and often rushed circumstances that are characteristic of today's nursing profession. The category of "other" was composed 58 distinct occupational codes, all having frequencies of less than 10 over the 45 month period. Another possibility is the effect of reporting bias, which is a type of information bias. In circumstances in which reporting bias takes place, a subject may be reluctant to report an injury because of attitudes, beliefs, and perceptions. Physicians, for example, may be less likely to report an STF incident due to their perception that it "is not their job", or for the fear of being perceived as a "complainer".

The distribution of type of incident was relatively even among the three categories of slip, trip, and fall. This information was derived from the narrative text input on the VA form 2162. This is prone to great subjectivity for a number of reasons. The most obvious is the lack of any standardization in entering this data. For example, no guidance exists as to if an incident should

be described as a trip and fall or a fall only. In the ASISTS database, all STF incidents are essentially coded under one category and it is only through the subjective narrative field input that these can be distinguished. There is no uniformity among the text narrative text input, which is at the discretion of the safety officer. Text fields varied from 3 words in length to lengthy paragraphs.

The locations with the highest frequency of STF incidents were the parking lot, (23.70%), and patient rooms (12.66%). The literature suggests that in northern climates, slippery conditions due to ice and rain account for the majority of outdoor STF incidents. Therefore, the high number of parking lot STF incidents was not expected in this warm climate. Outdoor obstacles such as parking stops and slippery leaves were frequently cited. Another contributing factor may have been the unpaved and gravel areas within the parking lot causing underfoot accidents. Stairwell incidents were the fourth most common location (9.42%) of STF incidents. Rosy (2001), suggests that the three major reasons for stair accidents include user behavior, stair maintenance, and stair design. He suggests that behavior and maintenance can be targeted by accident reduction campaigns, but these usually have little effect. The best prevention, according to Rosy, is proper stair design such as proper rise, pitch, and going.

The most frequently cited causes of STF incidents were slick surfaces - not otherwise specified (17.83%), non patient related objects such as computer cords, parking stops, door stoppers (17.83%), and uneven surfaces such as transversing through a doorway in which the floor changed from tile

to carpet (10.83%). STF incidents are multifactorial and it is difficult to speculate as to the exact cause. More specific data regarding the nature of the floor surface and of the obstacle would help delineate these factors. The literature also reports slick surfaces as the leading cause of STF incidents and proposes such interventions as non-slip shoes and various types of non-slick flooring. Specifically, Manning and Jones (2001) in their research concluded that the incidence of occupational injuries caused by slipping could be reduced by the following:

- Use of footwear soled with microcellular polyurethane AP66033.
- Abrading all new and smooth footwear soling with a belt sanding machine coated with P100 grit.
- Avoiding the use of floor polish.
- Informing the general public about the poor slip resistance of ordinary footwear on ice.

Table 3 demonstrates the 3 year trend in STF incidents. While the total number of injury incidents is increasing, the percent of STF incidents and number of STF incidents per 100 full time employees is decreasing. The overall NIOSH study proposes a pre intervention and post intervention analysis. Caution must be used in analyzing the post intervention data as the current STF trend, prior to any intervention, is downward. It may be prudent to consider what, if any, safety initiatives have been instituted since 1998.

The literature suggests that older workers comprise most of the STF incidents and have more resulting lost work days. To evaluate this in the JAH sample, the Wilcoxon- Rank Sum test was performed to evaluate if there was a significant difference between the ages of those workers with lost work days (due to STF incidents), and those without lost work days. The Wilcoxon- Rank Sum test is the non- parametric version of the independent samples t- test. It is used when the assumptions of normality or equality of variances are not met for the dependant variable. An inherent characteristic of many nonparametric statistics is the use of ranks rather than actual values, which has the advantage of eliminating the influence of outlying variables.

The results of a Z- score of -0.8181 and a p-value of 0.4133 indicate that there was no significant difference among the ages of those who suffered an STF incident and had lost work time compared to those who suffered an STF incident and had no lost work time. The 5<sup>th</sup> percentile and 95<sup>th</sup> percentile for age were 29 and 64 years respectively. In the absence of socioeconomic factors, it would be expected for older workers to have more lost work time after an STF incident. This was not demonstrated in this data set.

There were several problems encountered in evaluating actual number of lost work days and light work days. From the ASISTS database, the information specialist was able to retrieve the fields “lost work days” (yes/no) and “light work duty” (yes/no) only. The actual number of each, (which is entered at the close of a case by the supervisor), could not be accessed. For this reason, data from the safety office alternate data base was utilized. Table

4 shows the discrepancy in the data obtained from the alternate database as compared to the data from the ASISTS database.

The percent of STF incidents in which either lost or light duty work days was recorded was drastically different. The ASISTS database showed over three times as many workers with resulting lost and light duty work days when compared to the alternate database. Table 5 shows the frequency with which case numbers that were shown to have lost or light work days (yes/no) in the ASISTS database matched with a corresponding number in the lost and light day fields from the alternate database. The alternate database was clearly lacking data on lost and light work days when compared to the ASISTS database.

Further attempts were made to obtain the actual number of days lost such as requesting the information from the workers' compensation database. This database, which is housed within Human Resources, tracks the number of lost and light duty workday for each injured employee. The problem arose in matching the data in a manner which would maintain confidentiality. The workers' compensation database is maintained independently from the ASISTS database and it is not possible to request information using the case numbers alone. The data can only be matched by name and social security number which made the data unattainable for this study.

The data from the alternate database was useful when analyzed from a case management perspective. Of the 5% of cases for which the number of



days lost were provided, there were two outliers of 39 and 18 days. If a worker suffered a catastrophic event, the expected number of lost work days would be greater than 39 and on the same note, a lesser injury would be expected to return to work earlier than 18 days. This suggests that case management as well as prevention should be addressed.

There are a number of suggestions that can be made to improve the present system of data collection. Currently, there is a plethora of data collected with no stated purpose. A more efficient system would decide on the question that needs to be answered, what data is required to answer that question, and then design a collection system around the stated purpose. To minimize duplication of effort and increase accuracy, reports should be generatable from the initial database and not need to be entered into an alternate database.

The current system has several key players that do not have optimal communication regarding worker accidents. A more integrated approach may facilitate the entire process. This would encompass having one database in which all the worker accident information was maintained, including the number of lost and light work days and worker compensation information. Each of the four specialties of safety, risk management, occupational health, and human resources has valuable input regarding worker safety and rapid return to work following an accident. Combining these resources and data into one centralized system, with regular analysis of the data, would enhance the

communication between these areas, identify trends, clarify case management, and lead to an overall more efficient system.

To decrease the reporting bias, employees should be encouraged to report all STF incidents and near misses. Altering VA form 2162 to eliminate the narrative text fields and replace these with menu options would increase the speed and accuracy of reporting as well as making the characterization of the STF incidents more precise.

A subject not addressed here, but discussed in the literature is the perceptions of managers and accident subjects towards STF accidents. Stubbs (1992) examined the influence of the Health and Safety Work Act of 1974 on industrial health and safety. He concluded that a delicate balance exists between the employers, managers, and employees. An example of this balance is illustrated by the “blame” culture in the investigation of accidents. Lacroix and Dejoy (1989) suggested that managers allocated higher degrees of responsibility to the employee when the cause of the accident was perceived to be internal such as lack of ability or carelessness.

Lehane and Stubbs (2001) describe the attribution of causal responsibility between those who experience and those who investigate STF incidents. They delineate how differing perceptions of causal responsibility held by accident subjects and managers are likely to exert influence in different ways. For managers, this may influence:

- Their decision as to whether or not they carry out any investigation.

- Their attitude towards the accident subject.
- Their willingness to implement preventative strategies.

Whilst the perceptions of the accident subjects may influence:

- Their attitude towards any investigation carried out by their manager.
- Their attitude towards their manager.
- Their subsequent behavior and confidence involving any preventive strategy.

If both accident subjects and managers could be brought to a position where they perceive a more balanced view as to the attribution of causal responsibility, it would foster a better environment for the effective implementation of preventive strategies in a mutually supportive way.

## Conclusion

Based on the analyzed data, efforts and resources to decrease the number of STF incidents and the JAH Veterans Administration Hospital would be best concentrated in the following areas:

- Occupations of RN, LPN, and administrative.
- The locations of the parking lot, patient rooms (including the ICU and SICU), and the stairwells.
- Causes of slick flooring- not otherwise specified, non patient related objects (such as computer cords, parking stops, and door stops), and uneven walking surfaces.

Proposed improvements in the method of data collection include:

- Identify what STF questions want to be answered. Decide what data is required to answer the question. Design a data collection system around this.
- Strive for a more integrated approach. Form a team composed of Safety, Risk Management, Occupational Health, and Human Resources which are all valuable sources of knowledge and data.
- Form a centralized database with continuous analysis.

- Encourage employee reporting of both STF incidents and near misses.
- Altering VA form 2162 to eliminate the narrative text fields and replace these with menu options.

Given the downward trend in the three year analysis of STF incidents, caution should be used in analyzing the results of a pre and post intervention study.

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## Appendices

Appendix A: VA Form 2162 First Report of Incident

Page 1

Report of Accident 2002-00596

Cue of ppl that slip

Describe date of incident  
 2. m. descriptive  
 3 hypoxia's generating  
 4. Significant instructions

\*CASE NUMBER..... 2002-00596

PERSONNEL STATUS..... Employee

\*SERVICE.....  NURSING SERVICE

\*TYPE OF INCIDENT..... Slip/Trip/Fall

CASE STATUS..... Closed

INJURY/ILLNESS..... Injury

PERSON INVOLVED.....

SSN.....

\*DATE OF BIRTH..... MAR 04, 1957

\*SEX.....  Female

HOME ADDRESS..... P.O. BOX 7271  
 TAMPA, FLORIDA 33671

HOME PHONE NUMBER..... 8137273482

\*STATION NUMBER..... TAMPA (JMS VAR)

COST CENTER/ORG..... 82412130

\*OCCUPATION.....  0620

GRADE/STEP..... 05/07

\*EDUCATION.....  1 year of college

SUPERVISOR.....

SECONDARY SUPERVISOR.....

\*DATE/TIME OF OCCURRENCE.....  JUN 09, 2002@07:30 *Time (Shift)*

GENERAL SETTING OF INCIDENT.....  Patient care setting

\*LOCATION OF INCIDENT.....  NHCU (Nursing Home Care Unit)

\*CHARACTERIZATION OF INJURY.....  Sprain/Strain

MEDICAL EMERGENCY.....  Normal Operations (No Emergency)

\*BODY PART MOST AFFECTED.....  LOWER BACK/BUTTOCKS

\*ADDITIONAL BODY PART AFFECTED:

\*SIDE OF BODY AFFECTED.....  Right

\*DUTY RETURNED TO.....  Light duty

\*LOST TIME.....  No *← 5 or days lost - skewed, kyphosis, normally distributed*

\*DESCRIPTION OF INCIDENT..... *Supervisor*

Employee reported she went to a patient's room to deliver his breakfast tray. As she entered his room, she slipped in front of the "foot of the bed". She had breakfast tray in hand. She grabbed onto the footboard, fell on her left knee and then the right knee hit the floor. She was able to get up on her own. An EMS employee assisted after hearing the "crashing noise" of the tray. Employee decided not to visit ER. Later that evening, she complained of right back pain.

She informed NM that she noticed "drops of water" on the floor and she was also wearing new nursing shoes.

CORRECTIVE ACTION.....

Be careful when passing out trays, assess patient's bedroom floors and if wet, call EMS to assist.

SAFETY OFF. COMMENTS.....

Employee has been advised to look for spill's on the floors at all times especially in patients rooms

PERSON ENTERING STUB RECORD... HENDERSON, REBECCA

/ES/SUPERVISOR..... ALVEAR, MYRNA

SUPERVISOR SIGNATURE DATE..... JUN 12, 2002@08:45:17

/ES/SAFETY OFFICER..... VENTURA, DAVID M

SAFETY OFFICER SIGNATURE DATE: JUN 25, 2002@13:03:07

Appendix B: VA Form CA-1

Page 1

Case # 2002-00596

---

NAME OF EMPLOYEE.....

SSN.....

DOB..... MAR 04, 1957

SEX..... Female

HOME TELEPHONE.....

GRADE/STEP..... 05/07

PAY PLAN..... GS

EMPLOYEE'S ADDRESS..... P.O. BOX 7371

CITY..... TAMPA

STATE..... FLORIDA

ZIP..... 33673

DEPENDENTS..... Children under 18

PLACE WHERE INJURY OCCURRED..... NHCU-A

STREET WHERE INJURY OCCURRED..... 13000 North 30th Street

CITY WHERE INJURY OCCURRED..... Tampa

STATE WHERE INJURY OCCURRED..... FLORIDA

ZIP CODE WHERE INJURY OCCURRED..... 33612

DATE/TIME OF OCCURRENCE..... JUN 09, 2002#07:30

DATE OF THIS NOTICE..... JUN 12, 2002

EMPLOYEE'S OCCUPATION..... PRACTICAL NURSE

CAUSE OF INJURY CODE..... Other falls

CAUSE OF INJURY..... Fell in 023-1 Due to water on the floor, tried to break fall while holding on to the footboard. I then fell on left-knee and right-knee. Lower right-back started hurting Sunday evening.

NATURE OF INJURY..... right lower back

REQUEST PAY OR LEAVE..... Continuation of regular pay

EMPLOYEE DATE OF SIGNATURE..... JUN 12, 2002#09:35:33

OCCUPATION CODE..... 0620

NOI CODE.....

TYPE CODE.....

SOURCE CODE.....

OWCP CHARGEBACK CODE.....

AGENCY NAME..... James A. Haley VA Hospital

AGENCY ADDRESS..... 13000 N. BRUCE B. DOWNS BLVD.

AGENCY CITY..... TAMPA

AGENCY STATE..... FLORIDA

AGENCY ZIP CODE..... 33612

EMPLOYEE'S DUTY STATION..... James A. Haley VA Hospital

DUTY STATION ADDRESS..... 13000 N. BRUCE B. DOWNS BLVD.

DUTY STATION CITY..... TAMPA

DUTY STATION STATE..... FLORIDA

DUTY STATION ZIP CODE..... 33612

EMPLOYEE RETIREMENT COVERAGE..... FEBS

EMP RETIREMENT COVERAGE DESC.....

REGULAR HRS FROM TIME..... 06:00A

REGULAR HRS TO TIME..... 02:10P

REGULAR WORK SCHEDULE..... Wed

DATE OF INJURY..... JUN 09, 2002#07:30

DATE NOTICE RECEIVED..... JUN 12, 2002

DATE/TIME STOPPED WORK.....

DATE PAY STOPPED.....

DATE 45 DAY PERIOD BEGAN.....

DATE/TIME RETURNED TO WORK.....

INJURED PERFORMING DUTY..... Yes

NOT INJURED PERFORMING JOB.....

INJURY CAUSED BY EMPLOYEE..... No

CAUSED BY EMPLOYEE EXPLAIN.....

CA-1

## Appendix C: Numerical coding scheme

### Type of Incident

Slip 1

Trip 2

Fall 3

### Location of Incident

Restroom 1

Stairwell 2

Parking Lot 3

Patient Room (including ICU an SICU) 4

Lobby 5

Hallway 6

Outpatient clinic area 7

Other 8

Cafeteria 9

### Cause of Incident

Urine 1

Water 2

Slick Surface not otherwise specified 3

Patient related object (bed sheets, IV poles Etc) 4

Non-patient related objects (computer cords, parking stops, door stoppers) 5

Uneven surface 6

From height 7

On/off bus 8

From chairs 9

Stairs 10

Other 11

## Appendix D: SAS Programs and Printouts

```
PROC IMPORT OUT= WORK.all
    DATAFILE= "a:\all.XLS"
    DBMS=EXCEL2000 REPLACE;
    GETNAMES=YES;
run;
proc contents data=all;
run;
proc print data=all;
run;
proc freq data=all;
tables location age;
run;
proc npar1way data=all wilcoxon;
    Title 'Nonparametric Test to compare mean age and lost time';
    class losttime;
    var age;
run;
proc npar1way data=all wilcoxon;
    Title 'Nonparametric Test to compare mean age and affected work
days';
    class Lightlost;
    var age;
run;
proc freq data=all2;
tables lightlost*location / chisq;
run;
```

Appendix D: SAS Programs and Printouts (continued)

2003 508

The SAS System      15:16 Friday, January 10,

Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
1	01DEC1998: 00: 00: 00	1998	1999-00001	Mal	APR 29, 1948	
2	04JAN1999: 00: 00: 00	1999	1999-00003	Fem	APR 24, 1946	
3	04JAN1999: 00: 00: 00	1999	1999-00005	Fem	APR 24, 1946	
4	05JAN1999: 00: 00: 00	1999	1999-00006	Mal	JUN 30, 1980	
5	04FEB1999: 00: 00: 00	1999	1999-00008	Fem	OCT 23, 1954	
6	04FEB1999: 00: 00: 00	1999	1999-00008A	Fem	OCT 23, 1954	EXTERNAL,
7	11FEB1999: 00: 00: 00	1999	1999-00021	Fem	MAR 19, 1967	Leg(s),
Up						
8	12FEB1999: 00: 00: 00	1999	1999-00024	Fem	MAR 23, 1952	Ankl es
9	17FEB1999: 00: 00: 00	1999	1999-00045	Fem	JUN 30, 1927	PELVIS
10	23FEB1999: 00: 00: 00	1999	1999-00046	Fem	APR 6, 1958	
11	27FEB1999: 00: 00: 00	1999	1999-00074	Fem	SEP 3, 1957	Knees
12	01MAR1999: 00: 00: 00	1999	1999-00077	Fem	FEB 13, 1961	Hi p
13	01MAR1999: 00: 00: 00	1999	1999-00077A	Fem	FEB 13, 1961	Hi p
14	01MAR1999: 00: 00: 00	1999	1999-00078	Fem	AUG 18, 1958	Leg(s),
Lo						
15	03MAR1999: 00: 00: 00	1999	1999-00083	Fem	MAR 31, 1949	
16	03MAR1999: 00: 00: 00	1999	1999-00085	Fem	JUL 4, 1931	Hi p
17	03MAR1999: 00: 00: 00	1999	1999-00087			Wri st(s)
18	03MAR1999: 00: 00: 00	1999	1999-00087A			Wri st(s)
19	09MAR1999: 00: 00: 00	1999	1999-00099	Fem	SEP 9, 1941	EXTERNAL,
20	12MAR1999: 00: 00: 00	1999	1999-00112	Fem	MAY 9, 1953	
21	12MAR1999: 00: 00: 00	1999	1999-00112A	Fem	MAY 9, 1953	Foot,
Incl						
22	16MAR1999: 00: 00: 00	1999	1999-00122	Fem	NOV 14, 1964	Knees
23	19MAR1999: 00: 00: 00	1999	1999-00126	Mal	OCT 6, 1950	Knees

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty
losttime	age						
1		.	.	.		610	
50		.	.	.		301	
53		.	.	.		301	
3		.	.	.		301	
53		.	.	.		2091	
4		.	.	.		603	
19		.	.	.		603	
5		.	.	.		603	
45	Both	3	9	7		603	Full duty No
45	Left	3	11	8		638	Full duty No
32	Right	1	3	8		7408	Light duty Yes
47	Right	0	0	0		.	No
72		.	.	.		630	
10		.	.	.		630	
41	Right	1	3	4		620	Full duty No
42	Right	0	0	0		621	Light duty No
38	Right	1	0	0		621	Light duty Yes
38	Right	1	0	0		621	Light duty Yes
14	Left	2	5	7		610	Full duty Yes
41		3	11	7		603	
15		3	11	7		603	
50	Left	2	5	3		610	Yes
68	Left	0	0	0		.	
17	Left	0	0	0		.	
18	Left	0	0	0		.	
19	NA	3	10	2		.	No
58		0	0	0		610	
20		0	0	0		610	
46							

Appendix D: SAS Programs and Printouts (continued)

21 46	Left	1	3	6	610	Full duty	No
22 35	Left	3	10	2	3566	Full duty	No
23 49	Right	1	6	3	6907	Full duty	No

Appendix D: SAS Programs and Printouts (continued)

The SAS System 15:16 Friday, January 10, 2003 509

Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
24	26MAR1999: 00: 00: 00	1999	1999-00145	Mal	SEP 30, 1970	Wrist(s)
25	04APR1999: 00: 00: 00	1999	1999-00164	Fem	JUN 9, 1941	Leg(s),
Up 26	08APR1999: 00: 00: 00	1999	1999-00173	Fem	DEC 28, 1953	Knees
Lo 27	11APR1999: 00: 00: 00	1999	1999-00181	Mal	NOV 3, 1969	Leg(s),
BACK 28	14APR1999: 00: 00: 00	1999	1999-00194	Fem	MAR 25, 1934	LOWER
29	16APR1999: 00: 00: 00	1999	1999-00201	Mal	FEB 25, 1964	Knees
30	16APR1999: 00: 00: 00	1999	1999-00201A	Mal	FEB 25, 1964	Knees
31	20APR1999: 00: 00: 00	1999	1999-00208	Fem	DEC 31, 1964	Buttcks
32	02FEB1999: 00: 00: 00	1999	1999-00213	Fem	JUL 17, 1957	Knees
33	29APR1999: 00: 00: 00	1999	1999-00227	Fem	DEC 31, 1939	CHEST
34	01APR1999: 00: 00: 00	1999	1999-00242	Mal	MAY 24, 1940	
35	01APR1999: 00: 00: 00	1999	1999-00242A	Mal	MAY 24, 1940	LOWER
BACK 36	07MAY1999: 00: 00: 00	1999	1999-00244	Fem	FEB 12, 1946	Ankl es
37	07MAY1999: 00: 00: 00	1999	1999-00249	Fem	AUG 28, 1948	
38	07MAY1999: 00: 00: 00	1999	1999-00250	Fem	AUG 28, 1948	Ankl es
39	12MAY1999: 00: 00: 00	1999	1999-00260	Fem	NOV 18, 1949	Ankl es
40	14MAY1999: 00: 00: 00	1999	1999-00266	Fem	APR 11, 1956	Ankl es
41	16MAY1999: 00: 00: 00	1999	1999-00268	Fem	JUN 6, 1958	Knees
42	17MAY1999: 00: 00: 00	1999	1999-00269	Fem	OCT 23, 1962	Arm(s),
Up 43	17MAY1999: 00: 00: 00	1999	1999-00270	Fem	APR 21, 1950	Knees
44	17MAY1999: 00: 00: 00	1999	1999-00270A	Fem	APR 21, 1950	Knees
45	14MAY1999: 00: 00: 00	1999	1999-00271	Mal	AUG 19, 1951	Knees
46	21MAY1999: 00: 00: 00	1999	1999-00286	Fem	JAN 5, 1956	Hi p

Obs	losttime	age	type	cause	LOCATION	F11	occup	returnrduty
24		Both	1	3	8		640	Full duty Yes
29		Left	0	0	0		610	Full duty No
58		Both	2	11	3		679	Full duty Yes
46		Left	3	11	3		305	Full duty No
30		Both	3	7	8		620	Full duty No
65		Right	0	0	0		7408	Light duty No
35		Right	0	0	0		7408	Light duty No
35		Both	3	9	8		303	Full duty No
35		Both	1	3	5		318	Full duty No
42		Right	2	4	4		610	Full duty No
60			0	0	0		640	
59		Both	1	3	8		640	No
59		Left	3	11	4		640	Light duty No
53			0	0	0		185	
51		Left	1	3	6		185	Full duty No
51		Right	1	3	4		679	Full duty Yes
50		Left	1	3	6		630	Full duty No
43		Left	1	3	6		620	Light duty No
41		Right	2	5	3		620	Light duty Yes
37								



Appendix D: SAS Programs and Printouts (continued)

43	Both	1	6	3	610	Light duty	No
49							
44	Both	1	6	3	610	Light duty	No
49							
45	Left	1	10	2	660	Full duty	No
48							
46	Right	1	6	3	610	Full duty	No
43							

Appendix D: SAS Programs and Printouts (continued)

The SAS System 15:16 Friday, January 10, 2003 510

Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
47	24MAY1999: 00: 00: 00	1999	1999-00299	Fem	MAR 19, 1951	Foot,
Incl 48	24MAY1999: 00: 00: 00	1999	1999-00301	Fem	OCT 9, 1957	Hand(s),
I 49	01JUN1999: 00: 00: 00	1999	1999-00313	Fem	MAY 9, 1943	FACE
50	07MAY1999: 00: 00: 00	1999	1999-00316			
51	07MAY1999: 00: 00: 00	1999	1999-00322	Fem	APR 10, 1925	LOWER
BACK 52	10JUN1999: 00: 00: 00	1999	1999-00341	Mal	DEC 3, 1946	LOWER
BACK 53	04JUN1999: 00: 00: 00	1999	1999-00343	Fem	AUG 30, 1946	Knees
54	15JUN1999: 00: 00: 00	1999	1999-00351	Fem	OCT 11, 1947	Knees
55	15JUN1999: 00: 00: 00	1999	1999-00361	Fem	APR 29, 1938	FACE
56	21JUN1999: 00: 00: 00	1999	1999-00375	Fem	JAN 21, 1942	LOWER
BACK 57	22JUN1999: 00: 00: 00	1999	1999-00389	Fem	AUG 28, 1950	MOUTH
58	02JUL1999: 00: 00: 00	1999	1999-00415	Fem	DEC 21, 1961	Wri st(s)
59	09JUL1999: 00: 00: 00	1999	1999-00430	Fem	NOV 3, 1922	Knees
60	12JUL1999: 00: 00: 00	1999	1999-00441	Fem	JUN 15, 1958	Total
Body 61	13JUL1999: 00: 00: 00	1999	1999-00445	Mal	MAR 16, 1942	Hi p
62	15JUL1999: 00: 00: 00	1999	1999-00455	Fem	AUG 5, 1948	LOWER
BACK 63	16JUL1999: 00: 00: 00	1999	1999-00456	Mal	JUN 23, 1947	
64	15JUL1999: 00: 00: 00	1999	1999-00458	Fem	AUG 5, 1948	
65	20JUL1999: 00: 00: 00	1999	1999-00464	Fem	SEP 7, 1950	SKULL
(CRA 66	22JUL1999: 00: 00: 00	1999	1999-00473	Fem	NOV 9, 1958	LOWER
BACK 67	21JUL1999: 00: 00: 00	1999	1999-00478	Mal	FEB 25, 1969	EXTERNAL,
68	21JUL1999: 00: 00: 00	1999	1999-00481	Mal	JAN 31, 1948	Arm(s),
Lo 69	16JUL1999: 00: 00: 00	1999	1999-00484	Mal	JUN 23, 1947	Knees

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty
losttime	age						
47	Right	1	2	3		690	Yes
48	Both	2	5	2		679	Full duty
42							
49	Left	2	5	5		303	Full duty
56							
50							
51	Right	0	0	0			Full duty
74							
52	Both	3	8	3		83	No
53							
53	Right	1	10	2		679	Full duty
54	Left	2	5	7		679	Full duty
52							
55	Both	2	5	3		3111	Full duty
61							
56	Both	1	2	6		610	Light duty
57							
57	Right	3	11	8		303	Full duty
49							
58	Left	3	9	8		309	Light duty
38							
59	Right	2	5	3			Full duty
77							
60	Both	2	6	8		525	Full duty
41							
61	Right	1	3	6		3566	Full duty
57							
62	Both	2	4	4		610	Light duty
51							
63						83	
52							

Appendix D: SAS Programs and Printouts (continued)

64		0	0	0	610		
51							
65	Right	1	3	6	203	Full duty	No
49							
66	Both	2	5	8	647	Full duty	No
41							
67	NA	3	9	8	303	Full duty	No
30							
68	Left	1	3	1	661	Full duty	Yes
69	Left	1	6	3	83	Full duty	No
52							

Appendix D: SAS Programs and Printouts (continued)

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
70	27JUL1999: 00: 00: 00	1999	1999-00490	Fem	SEP 13, 1940	Knees
71	31JUL1999: 00: 00: 00	1999	1999-00497	Fem	MAR 17, 1949	
72	07AUG1999: 00: 00: 00	1999	1999-00521	Mal	OCT 15, 1968	Ankl es
73	12AUG1999: 00: 00: 00	1999	1999-00530	Fem	MAR 19, 1938	Hand(s),
I						
74	24AUG1999: 00: 00: 00	1999	1999-00552	Fem	DEC 9, 1958	
75	24AUG1999: 00: 00: 00	1999	1999-00553	Fem	SEP 12, 1940	Ankl es
76	16SEP1999: 00: 00: 00	1999	1999-00556	Mal	FEB 12, 1954	Leg(s),
Lo						
77	30AUG1999: 00: 00: 00	1999	1999-00561	Fem	JUN 7, 1968	Knees
78	01SEP1999: 00: 00: 00	1999	1999-00565	Fem	SEP 15, 1953	Knees
79	03SEP1999: 00: 00: 00	1999	1999-00578	Mal	OCT 1, 1941	LOWER
BACK						
80	05SEP1999: 00: 00: 00	1999	1999-00584	Mal	MAR 13, 1940	LOWER
BACK						
81	09SEP1999: 00: 00: 00	1999	1999-00587	Fem	JUL 26, 1955	
82	15SEP1999: 00: 00: 00	1999	1999-00608	Mal	JAN 14, 1950	Buttocks
83	16SEP1999: 00: 00: 00	1999	1999-00615	Fem	APR 13, 1951	Leg(s),
Lo						
84	17SEP1999: 00: 00: 00	1999	1999-00616	Fem	JUN 30, 1961	Knees
85	21SEP1999: 00: 00: 00	1999	1999-00620	Fem	OCT 25, 1970	Knees
86	21SEP1999: 00: 00: 00	1999	1999-00621	Fem	MAR 15, 1954	LOWER
BACK						
87	22SEP1999: 00: 00: 00	1999	1999-00624	Mal	SEP 20, 1949	Knees
88	25SEP1999: 00: 00: 00	1999	1999-00627	Fem	AUG 24, 1943	LOWER
BACK						
89	15SEP1999: 00: 00: 00	1999	1999-00634	Fem	AUG 25, 1946	
90	01OCT1999: 00: 00: 00	1999	2000-00002	Mal	AUG 21, 1948	NECK
91	18SEP1999: 00: 00: 00	1999	2000-00003	Mal	OCT 17, 1949	LOWER
BACK						
92	09OCT1999: 00: 00: 00	1999	2000-00020	Mal	AUG 30, 1951	Buttocks

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty	
losttime	age							
70	NA	2	6	6		622	Full duty	No
59								
71		1	0	0		621		
50								
72	Left	3	10	2		601	Light duty	Yes
31								
73	Right	3	11	6		322	Full duty	No
61								
74	.	.	.	.		3566		
41								
75	Left	3	10	2		318	Full duty	Yes
59								
76	Right	3	0	0		3566	Full duty	No
45								
77	Right	1	3	6		630	Full duty	No
31								
78	Right	2	5	3		621	Full duty	
46								
79	Right	0	0	0		5402	Full duty	No
58								
80	NA	1	3	8		4102	Light duty	No
59								
81		1	6	3		1101		
44								
82		1	3	2		602		No
49								
83		1	2	6		610	Full duty	No
48								
84	Right	1	3	4		620	Light duty	Yes
38								
85	Both	3	7	8		621	Full duty	No
29								

Appendix D: SAS Programs and Printouts (continued)

86	Both	1	2	8	7408	Light duty	Yes
45							
87	Left	2	4	4	620	Full duty	No
50							
88	Left	3	0	6	620	Light duty	No
56							
89		3	0	0	610		
53							
90	Right	1	2	6	185	Light duty	No
51							
91	NA	3	7	8	622	Light duty	No
50)							
92	Both	1	3	4	621	Full duty	No
48							

Appendix D: SAS Programs and Printouts (continued)

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
93	08OCT1999: 00: 00: 00	1999	2000-00025	Fem	JUN 15, 1956	
94	18OCT1999: 00: 00: 00	1999	2000-00035	Fem	SEP 21, 1962	Leg(s),
Lo						
95	18OCT1999: 00: 00: 00	1999	2000-00036	Fem	JUN 15, 1958	Arm(s),
Up						
96	07OCT1999: 00: 00: 00	1999	2000-00038	Mal	JAN 4, 1938	MOUTH
97	08OCT1999: 00: 00: 00	1999	2000-00042	Fem	JUN 15, 1956	Ankl es
98	18OCT1999: 00: 00: 00	1999	2000-00052	Fem	JUN 15, 1958	
99	28OCT1999: 00: 00: 00	1999	2000-00062	Fem	MAR 27, 1952	Leg(s),
Lo						
100	11NOV1999: 00: 00: 00	1999	2000-00094	Fem	MAY 23, 1946	Leg(s),
Up						
101	17NOV1999: 00: 00: 00	1999	2000-00120	Fem	MAY 2, 1957	Foot,
Incl						
102	17NOV1999: 00: 00: 00	1999	2000-00120A	Fem	MAY 2, 1957	Foot,
Incl						
103	23NOV1999: 00: 00: 00	1999	2000-00148	Fem	AUG 14, 1948	Wrist(s)
104	24NOV1999: 00: 00: 00	1999	2000-00150	Fem		Leg(s),
Up						
105	18NOV1999: 00: 00: 00	1999	2000-00158	Mal	JAN 3, 1934	Knees
106	29NOV1999: 00: 00: 00	1999	2000-00159	Fem	JAN 30, 1943	Knees
107	29NOV1999: 00: 00: 00	1999	2000-00159A	Fem	JAN 30, 1943	Knees
108	08DEC1999: 00: 00: 00	1999	2000-00175	Fem	MAR 5, 1944	Knees
109	09DEC1999: 00: 00: 00	1999	2000-00176	Fem	AUG 30, 1946	Knees
110	12DEC1999: 00: 00: 00	1999	2000-00182	Fem	MAY 3, 1940	Wrist(s)
111	20DEC1999: 00: 00: 00	1999	2000-00201	Mal	MAR 17, 1950	Shoul der
112	26DEC1999: 00: 00: 00	1999	2000-00204	Mal	AUG 1, 1958	Ankl es
113	27DEC1999: 00: 00: 00	1999	2000-00205	Fem	AUG 14, 1948	LOWER
BACK						
114	28DEC1999: 00: 00: 00	1999	2000-00206	Fem	JAN 14, 1944	Knees
115	21JAN2000: 00: 00: 00	2000	2000-00243	Fem	JAN 18, 1951	CHEST

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty
losttime	age						
93		.	.	.		610	
43							
94	Both	1	3	5		303	Full duty No
37							
95	Right	0	0	6		525	Light duty Yes
41							
96	Left	3	11	8		802	Full duty No
61							
97	Right	1	2	2		610	Full duty No
43							
98		.	.	.		525	
41							
99	Right	3	0	3		610	Light duty No
47							
100	Right	1	3	6		610	Light duty No
53							
101	Right	1	6	3		610	No
42							
102	Right	1	6	3		610	Full duty No
42							
103	Left	2	4	8		610	Light duty No
51							
104	Left	2	5	0		.	
.							
105	Right	2	6	6		3566	Light duty No
65							
106	Right	3	0	3		610	Full duty No
56							
107	Right	3	0	3		610	Full duty No
56							
108	Both	3	11	7		303	Full duty No
55							
109	Right	1	6	3		679	Full duty No
53							

Appendix D: SAS Programs and Printouts (continued)

110 59	Right	1	3	6	610	Full duty	No
111 49	Left	.	.	.	5306	Full duty	No
112 41	Left	1	3	8	7408	Light duty	No
113 51	Right	1	2	0	610	Light duty	No
114 55	Both	3	8	3	318	Full duty	No
115	Both	2	5	3	620	Full duty	No

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
116	18JAN2000:00:00:00	2000	2000-00247	Fem	NOV 13, 1946	Arm(s),
Lo						
117	27JAN2000:00:00:00	2000	2000-00261	Fem	SEP 2, 1940	Shoulder
118	01FEB2000:00:00:00	2000	2000-00269	Mal	FEB 27, 1961	Ankles
119	06FEB2000:00:00:00	2000	2000-00289	Mal	OCT 11, 1949	LOWER
BACK						
120	08FEB2000:00:00:00	2000	2000-00291	Mal	AUG 30, 1951	Hip
121	10FEB2000:00:00:00	2000	2000-00295	Mal	MAY 19, 1947	Wrist(s)
122	10FEB2000:00:00:00	2000	2000-00301	Mal	JAN 26, 1972	Knees
123	11FEB2000:00:00:00	2000	2000-00303	Fem	JAN 21, 1948	Knees
124	16FEB2000:00:00:00	2000	2000-00307	Fem	OCT 22, 1957	Ankles
125	16FEB2000:00:00:00	2000	2000-00309	Fem	DEC 25, 1937	Knees
126	17FEB2000:00:00:00	2000	2000-00315	Mal	JAN 10, 1948	Shoulder
127	27JAN2000:00:00:00	2000	2000-00327	Mal	JUN 22, 1935	
128	03MAR1999:00:00:00	1999	2000-00342	Fem	FEB 29, 2000	Wrist(s)
129	21MAR2000:00:00:00	2000	2000-00371	Fem	MAR 23, 1947	Shoulder
130	27MAR2000:00:00:00	2000	2000-00388	Fem	APR 26, 1979	Ankles
131	28MAR2000:00:00:00	2000	2000-00394	Mal	NOV 19, 1957	Wrist(s)
132	30MAR2000:00:00:00	2000	2000-00398	Fem	SEP 16, 1963	Foot,
Incl						
133	03APR2000:00:00:00	2000	2000-00410	Fem	SEP 28, 1956	Knees
134	03APR2000:00:00:00	2000	2000-00414	Fem	APR 4, 1945	Foot,
Incl						
135	04APR2000:00:00:00	2000	2000-00415	Fem	SEP 2, 1960	Elbow
136	04APR2000:00:00:00	2000	2000-00416	Fem	FEB 5, 1941	LOWER
BACK						
137	10APR2000:00:00:00	2000	2000-00428	Fem	NOV 9, 1970	ABDOMEN
138	10APR2000:00:00:00	2000	2000-00429	Fem	DEC 21, 1961	Foot,
Incl						

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnrduty	
losttime	age							
116 54	Right	2	6	6		309	Light duty	No
117 60	Right	2	5	5		620	Light duty	No
118 39	Left	2	5	3		83	Light duty	No
119 51	Both	2	6	5		3566	Light duty	No
120 49	Both	1	3	4		621	Light duty	No
121 53	Left	2	6	5		561	Full duty	No
122 28	Right	3	0	0		.		
123 52	Right	3	0	4		610	Light duty	No
124 43	Right	3	11	3		3566	Light duty	No
125 63	Left	1	2	8		610	Full duty	No
126 52	Right	2	5	4		303	Light duty	Yes
127 65	.	.	.	.		4749		

Appendix D: SAS Programs and Printouts (continued)

128	Left	0	0	0	.		
-1							
129	Left	3	7	8	.		No
53							
130	Right	0	0	8	7408	Full duty	No
21							
131	Left	2	5	3	802	Full duty	No
43							
132	Both	1	3	6	665		Yes
37							
133	Right	2	6	3	682	Light duty	No
44							
134	Left	3	10	2	610	Full duty	No
55							
135	Right	1	1	1	610	Full duty	No
40							
136	Left	3	9	7	620	Full duty	No
59							
)							
137	NA	3	11	8	645	Full duty	Yes
30							
138	Left	0	0	5	309	Light duty	No
39							



Appendix D: SAS Programs and Printouts (continued)

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
I 139	11APR2000: 00: 00: 00	2000	2000-00435	Fem	NOV 12, 1936	Hand(s),
140	20APR2000: 00: 00: 00	2000	2000-00452	Fem	NOV 22, 1950	Ankl es
141	20APR2000: 00: 00: 00	2000	2000-00457	Mal	MAY 15, 1935	LOWER
BACK 142	08MAY2000: 00: 00: 00	2000	2000-00486	Fem	AUG 5, 1948	NECK
143	08MAY2000: 00: 00: 00	2000	2000-00489	Fem	FEB 5, 1941	Ankl es
144	16MAY2000: 00: 00: 00	2000	2000-00505	Fem	MAR 31, 1947	Knees
145	24MAY2000: 00: 00: 00	2000	2000-00525	Fem	APR 24, 1946	Total
Body 146	14JUN2000: 00: 00: 00	2000	2000-00568	Fem	MAY 19, 1953	Knees
147	30JUN2000: 00: 00: 00	2000	2000-00594	Fem	NOV 24, 1944	LOWER
BACK 148	21JUN2000: 00: 00: 00	2000	2000-00596	Fem	AUG 23, 1955	Knees
149	06JUL2000: 00: 00: 00	2000	2000-00601	Fem	DEC 15, 1977	Knees
150	13JUL2000: 00: 00: 00	2000	2000-00614	Fem	OCT 20, 1957	
151	14JUL2000: 00: 00: 00	2000	2000-00616	Mal	MAR 2, 1962	Leg(s),
Up 152	14JUL2000: 00: 00: 00	2000	2000-00616A	Mal	MAR 2, 1962	Leg(s),
Up 153	13JUL2000: 00: 00: 00	2000	2000-00619	Mal	MAR 2, 1962	Leg(s),
Lo 154	25FEB2000: 00: 00: 00	2000	2000-00644	Mal	JUL 20, 2000	Foot,
Incl 155	25JUL2000: 00: 00: 00	2000	2000-00654	Fem	DEC 9, 1949	Ankl es
156	28JUL2000: 00: 00: 00	2000	2000-00659	Fem	SEP 8, 1955	Knees
157	31JUL2000: 00: 00: 00	2000	2000-00661	Mal	JAN 14, 1963	Knees
158	27JUL2000: 00: 00: 00	2000	2000-00667	Mal	JUN 6, 1957	Hand(s),
I 159	08AUG2000: 00: 00: 00	2000	2000-00684	Fem	AUG 25, 1969	Hi p
160	08AUG2000: 00: 00: 00	2000	2000-00685	Mal	NOV 24, 1970	Ankl es
161	04AUG2000: 00: 00: 00	2000	2000-00686	Fem	APR 3, 1941	Leg(s),
Lo						

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty	
losttime	age							
139	Both	2	5	.		621	Light duty	No
64 140	NA	2	5	8		620	Light duty	Yes
50 141	NA	3	9	8		305	Light duty	No
65 142	Left	2	5	8		610	Full duty	No
52 143	Both	2	6	5		620	Full duty	No
59 144	Left	2	6	3		303	Full duty	No
53 145	Left	1	0	7		301	Full duty	No
54 146	Right	1	2	5		.		
47 147	NA	0	0	3		620	Full duty	No
56 148	Left	2	6	3		305	Light duty	No
45 149	Left	2	11	3		305	Full duty	No
23 150		.	.	.		260		
43 151	Both	2	5	8		636	Full duty	No
38 152	Both	2	5	8		636	Full duty	No
38 153	Both	2	5	8		636	Full duty	No
38								

Appendix D: SAS Programs and Printouts (continued)

154 0	Both	2	5	4	.		
155 51		1	3	2	645		Yes
156 45	Right	3	11	4	610	Light duty	Yes
157 37	Right	1	3	8	3566	Light duty	No
158 43	Right	0	0	0	610	Full duty	No
159 31	Left	2	5	8	3566	Light duty	No
160 30	Right	0	0	2	601	Full duty	No
161 59	Right	3	9	7	661	Light duty	No

Appendix D: SAS Programs and Printouts (continued)

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
162	13AUG2000: 00: 00: 00	2000	2000-00695	Fem	SEP 8, 1938	Knees
163	15AUG2000: 00: 00: 00	2000	2000-00697	Fem	DEC 6, 1913	FACE
164	18AUG2000: 00: 00: 00	2000	2000-00711	Fem	FEB 10, 1944	Hand(s),
I 165	29AUG2000: 00: 00: 00	2000	2000-00733	Fem	JAN 24, 1964	Hand(s),
I 166	03SEP2000: 00: 00: 00	2000	2000-00758	Fem	MAY 1, 1970	Leg(s),
Up 167	06SEP2000: 00: 00: 00	2000	2000-00763	Fem	JAN 5, 1952	Wrist(s)
168	11SEP2000: 00: 00: 00	2000	2000-00769	Fem	FEB 11, 1954	LOWER
BACK 169	11SEP2000: 00: 00: 00	2000	2000-00770	Fem	FEB 24, 1938	Foot,
Incl 170	09AUG2000: 00: 00: 00	2000	2000-00794	Fem	AUG 30, 1946	Knees
171	20SEP2000: 00: 00: 00	2000	2000-00797	Fem	SEP 2, 1946	Arm(s),
Up 172	22SEP2000: 00: 00: 00	2000	2000-00798	Mal	FEB 7, 1958	LOWER
BACK 173	26SEP2000: 00: 00: 00	2000	2000-00807	Fem	JUN 29, 1951	El bow
174	26SEP2000: 00: 00: 00	2000	2000-00811	Fem	JUL 3, 1963	LOWER
BACK 175	25SEP2000: 00: 00: 00	2000	2000-00815	Fem	FEB 7, 1948	LOWER
BACK 176	20SEP2000: 00: 00: 00	2000	2001-00007	Fem	APR 26, 1979	Ankl es
177	04OCT2000: 00: 00: 00	2000	2001-00011	Fem	NOV 15, 1956	LOWER
BACK 178	10OCT2000: 00: 00: 00	2000	2001-00021	Mal	OCT 11, 1949	Knees
179	16OCT2000: 00: 00: 00	2000	2001-00040	Fem	FEB 8, 1943	Buttocks
180	19OCT2000: 00: 00: 00	2000	2001-00050	Fem	MAY 20, 1941	Wrist(s)
181	23OCT2000: 00: 00: 00	2000	2001-00061	Mal	JUL 4, 1914	Knees
182	25OCT2000: 00: 00: 00	2000	2001-00064	Fem	NOV 24, 1944	LOWER
BACK 183	31OCT2000: 00: 00: 00	2000	2001-00076	Mal	JAN 15, 1981	Leg(s),
Lo 184	02NOV2000: 00: 00: 00	2000	2001-00084	Mal	OCT 9, 1958	Knees

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnrduty	
losttime	age							
162	Right	2	11	6		610	Light duty	Yes
62 163	Right	2	6	3		.		
87 164	Left	3	0	4		620	Light duty	No
56 165	Left	3	0	3		303	Light duty	Yes
36 166	Left	1	3	4		620	Full duty	Yes
30 167	Right	1	5	3		610	Full duty	No
48 168	Both	2	4	4		610	Full duty	Yes
46 169	Right	2	5	6		610	Light duty	Yes
62 170	Left	0	0	3		998	Full duty	No
54 171	Left	1	3	8		185	Full duty	No
54 172	Both	1	3	5		3566	Full duty	No
42 173	Right	2	6	3		305	Full duty	No
49 174	Both	1	11	2		303	Full duty	No
37 175	NA	3	9	5		303	Light duty	No
52								

Appendix D: SAS Programs and Printouts (continued)

176	Right	0	0	0	7408	Full duty	No
21							
177	NA	2	5	8	679	Full duty	No
44							
178	Right	1	2	1	3566	Light duty	Yes
51							
179	Left	1	2	8	7408	Full duty	No
57							
180	Left	2	6	5	.		
59							
181	Left	3	11	8	60		No
86							
182	Both	2	5	7	620	Light duty	Yes
56							
183	Left	3	10	2	305	Full duty	No
19							
184	Right	2	10	2	640	Light duty	Yes

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
185	02NOV2000:00:00:00	2000	2001-00090	Fem	JUL 29, 1953	Knees
186	06NOV2000:00:00:00	2000	2001-00096	Fem	JAN 26, 1952	Arm(s),
Up						
187	11NOV2000:00:00:00	2000	2001-00107	Fem	MAR 27, 1952	Leg(s),
Lo						
188	13NOV2000:00:00:00	2000	2001-00108	Fem	DEC 17, 1960	Hand(s),
I						
189	04DEC2000:00:00:00	2000	2001-00158	Mal	MAR 15, 1948	
190	04DEC2000:00:00:00	2000	2001-00159	Mal	MAR 15, 1948	Knees
191	02DEC2000:00:00:00	2000	2001-00165	Mal	JUL 14, 1954	Ankles
192	07DEC2000:00:00:00	2000	2001-00175	Fem	FEB 8, 1943	FACE
193	09DEC2000:00:00:00	2000	2001-00182	Fem	MAY 24, 1942	Knees
194	22NOV2000:00:00:00	2000	2001-00184	Fem	APR 10, 1954	Ankles
195	21DEC2000:00:00:00	2000	2001-00202	Fem	APR 10, 1961	Knees
196	21DEC2000:00:00:00	2000	2001-00205	Mal	MAR 24, 1956	SKULL
(CRA						
197	26DEC2000:00:00:00	2000	2001-00209	Fem	NOV 26, 1954	Buttocks
198	28DEC2000:00:00:00	2000	2001-00210	Fem	SEP 15, 1942	Knees
199	01JAN2001:00:00:00	2001	2001-00214	Mal	FEB 6, 1966	Knees
200	08JAN2001:00:00:00	2001	2001-00235	Fem	JUL 7, 1941	Hi p
201	12JAN2001:00:00:00	2001	2001-00244	Fem	NOV 16, 1952	Knees
202	16JAN2001:00:00:00	2001	2001-00252	Fem	APR 28, 1949	Foot,
Incl						
203	10JAN2001:00:00:00	2001	2001-00256	Fem	NOV 24, 1953	Arm(s),
Lo						
204	17JAN2001:00:00:00	2001	2001-00259	Fem	OCT 16, 1941	Ankles
205	24JAN2001:00:00:00	2001	2001-00270	Mal	NOV 24, 1977	Knees
206	25JAN2001:00:00:00	2001	2001-00273	Fem	OCT 3, 1949	RIB
207	26JAN2001:00:00:00	2001	2001-00281	Fem	MAY 30, 1948	Knees

Obs	SIDE	BODY	type	cause	LOCATION	F11	occup	return	duty	
losttime	age									
185	Left		2	4	7		620	Full	duty	No
47										
186	Right		2	6	3		640	Full	duty	No
48										
187	Right		1	3	6		610	Full	duty	No
48										
188	Left		3	0	2		649	Full	duty	No
40										
189			.	.	.		303			
52										
190	Right		1	3	8		303	Full	duty	No
52										
191	Right		0	0	0		610			No
46										
192	Left		2	5	3		7408	Full	duty	No
57										
193	Right		1	3	6		610	Light	duty	No
58										

Appendix D: SAS Programs and Printouts (continued)

194 46	Left	2	6	3	303	Full duty	No
195 39	Right	1	3	3	660		Yes
196 44	NA	0	0	0	305	Full duty	No
197 46	Both	2	5	8	305	Full duty	No
198 58	Both	1	2	4	610	Light duty	No
199 35	Both	2	4	4	620	Full duty	No
200 60	Left	1	3	3	679	Full duty	No
201 49	Left	1	3	4	620	Full duty	No
202 52	Left	2	5	6	620	Full duty	No
203 48	Right	2	6	8	301	Full duty	No
204 60	Left	2	6	3	601	Light duty	Yes
205 24	Both	1	3	1	679	Full duty	Yes
206 52	Right	2	5	3	3566	Light duty	No
207 53	Right	2	5	8	603	Full duty	No

Appendix D: SAS Programs and Printouts (continued)

10, 2003 517		The SAS System			15:16 Friday, January			
Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART		
208	01FEB2001:00:00:00	2001	2001-00295	Mal	JUL 24, 1936	Shoulder		
209	06FEB2001:00:00:00	2001	2001-00305	Fem	JAN 19, 1959	Wrist(s)		
210	07FEB2001:00:00:00	2001	2001-00309	Mal	JUN 17, 1959	Knees		
211	06FEB2001:00:00:00	2001	2001-00312	Fem	JAN 5, 1956	Ankles		
212	15FEB2001:00:00:00	2001	2001-00327	Fem	SEP 20, 1940	Knees		
213	22DEC2000:00:00:00	2000	2001-00345	Mal	OCT 1, 1941	Total		
Body								
214	23FEB2001:00:00:00	2001	2001-00347	Fem	SEP 30, 1972	LOWER		
BACK								
215	26FEB2001:00:00:00	2001	2001-00359	Mal	AUG 24, 1969	Leg(s),		
Lo								
216	03MAR2001:00:00:00	2001	2001-00381	Fem	SEP 6, 1964	Knees		
217	07MAR2001:00:00:00	2001	2001-00390	Fem	AUG 8, 1950	Leg(s),		
Lo								
218	07MAR2001:00:00:00	2001	2001-00391	Fem	MAY 18, 1956	Leg(s),		
Lo								
219	06MAR2001:00:00:00	2001	2001-00392	Mal	JUN 22, 1935	Knees		
220	09MAR2001:00:00:00	2001	2001-00404	Mal	JAN 15, 1981	LOWER		
BACK								
221	10MAR2001:00:00:00	2001	2001-00406	Fem	JAN 3, 1947			
222	16MAR2001:00:00:00	2001	2001-00420	Mal	SEP 16, 1969	Arm(s),		
Lo								
223	17MAR2001:00:00:00	2001	2001-00421	Fem	MAR 25, 1966	Knees		
224	28MAR2001:00:00:00	2001	2001-00440	Fem	JAN 8, 1946	Arm(s),		
Up								
225	02APR2001:00:00:00	2001	2001-00460	Fem	SEP 14, 1939	Hip		
226	11APR2001:00:00:00	2001	2001-00477	Fem	AUG 13, 1947	Ankles		
227	11APR2001:00:00:00	2001	2001-00479	Mal	NOV 2, 1955	FACE		
228	12APR2001:00:00:00	2001	2001-00484	Mal	FEB 12, 1954			
229	12APR2001:00:00:00	2001	2001-00484A	Mal	FEB 12, 1954	LOWER		
BACK								
230	13APR2001:00:00:00	2001	2001-00485	Mal	AUG 18, 1959	Knees		
Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty	
losttime	age							
208	Right	3	11	8		180	Full duty	No
65								
209	Right	1	2	6		610	Full duty	No
42								
210	Left	3	11	8		83	Full duty	No
42								
211	Left	3	0	8		303	Full duty	No
45								
212	NA	1	10	2		610		No
61								
213		3	11	8		5402	Full duty	No
59								
214	Left	2	0	0		2091	Full duty	No
29								
215	Right	1	3	8		7408	Full duty	No
32								
216	Left	1	3	5		610		Yes
37								
217	Both	2	5	3		610	Full duty	No
51								
218	Right	2	10	2		610	Full duty	No
45								
219	Left	3	0	0		4742	Full duty	No
66								
220	Both	3	9	8		305	Full duty	No
20								
221		.	.	.		620		
54								
222	Left	3	9	8		644		No
32								
223	Right	2	4	4		620	Light duty	No
35								

Appendix D: SAS Programs and Printouts (continued)

224 55	Left	0	0	3	7408	Full duty	No
225 62	Right	2	5	3	318	Full duty	No
226 54	Right	2	5	3	305	Full duty	No
227 46	Left	1	3	8	303	Full duty	No
228 47		.	.	.	3566		
229	Right	3	7	8	3566	Full duty	No
)							
47 230 42	Right	0	0	2	4801	Full duty	No

Appendix D: SAS Programs and Printouts (continued)

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
231	19APR2001: 00: 00: 00	2001	2001-00498	Mal	NOV 5, 1956	
232	17APR2001: 00: 00: 00	2001	2001-00527	Fem	JUN 25, 1941	Arm(s),
Up						
233	26APR2001: 00: 00: 00	2001	2001-00537	Fem	JUN 6, 1958	Hi p
234	30APR2001: 00: 00: 00	2001	2001-00545	Mal	JUL 15, 1940	Ankl es
235	03MAY2001: 00: 00: 00	2001	2001-00556	Fem	DEC 13, 1955	Total
Body						
236	07MAY2001: 00: 00: 00	2001	2001-00580	Mal	OCT 27, 1954	
237	09MAY2001: 00: 00: 00	2001	2001-00591	Mal	MAR 23, 1948	Wrist(s)
238	10MAY2001: 00: 00: 00	2001	2001-00595	Fem	FEB 16, 1954	LOWER
BACK/B						
239	15MAY2001: 00: 00: 00	2001	2001-00606	Fem	APR 15, 1949	Hand(s),
Inc						
240	16MAY2001: 00: 00: 00	2001	2001-00619	Fem	NOV 19, 1952	Hi p
241	23MAY2001: 00: 00: 00	2001	2001-00633	Fem	JUL 19, 1957	Ankl es
242	29MAY2001: 00: 00: 00	2001	2001-00645	Mal	JAN 18, 1948	Shoul der
243	29MAY2001: 00: 00: 00	2001	2001-00646	Fem	NOV 2, 1941	But tocks
244	30MAY2001: 00: 00: 00	2001	2001-00649	Fem	OCT 12, 1945	LOWER
BACK/B						
245	05JUN2001: 00: 00: 00	2001	2001-00668	Fem	JUN 21, 1929	LOWER
BACK/B						
246	07JUN2001: 00: 00: 00	2001	2001-00670	Fem	FEB 2, 1948	Arm(s),
Lowe						
247	07JUN2001: 00: 00: 00	2001	2001-00671	Fem	MAY 1, 1968	Foot,
Includ						
248	05JUN2001: 00: 00: 00	2001	2001-00672	Fem	APR 16, 1949	LOWER
BACK/B						
249	07JUN2001: 00: 00: 00	2001	2001-00674	Fem	MAR 23, 1952	FACE
250	21JUN2001: 00: 00: 00	2001	2001-00701	Mal	AUG 7, 1944	Leg(s),
Lowe						
251	01JUN2001: 00: 00: 00	2001	2001-00702	Mal	MAY 9, 1951	Knees
252	27JUN2001: 00: 00: 00	2001	2001-00714	Mal	JAN 17, 1964	SKULL
(CRANI						
253	16JUL2001: 00: 00: 00	2001	2001-00734	Fem	NOV 21, 1963	Ankl es

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty
losttime	age						
231		.	.	.		602	
45							
232	Right	3	9	8		610	Full duty No
60							
233	Left	1	2	4		620	Light duty No
43							
234	Right	1	5	3		621	Yes
61							
235	Right	1	2	1		630	Full duty No
46							
236		.	.	.		602	
47							
237	Right	2	5	1		622	Full duty No
53							
238	Left	2	4	8		610	Full duty No
47							
239	Left	1	3	4		620	Light duty No
52							
240	Left	3	8	3		679	Full duty No
49							
241	Left	1	1	4		610	Light duty Yes
44							
242	Right	1	3	8		3566	Full duty No
53							
243	Left	1	3	4		610	Full duty No
60							
244	Right	1	3	7		620	Full duty No
56							
245	Right	1	3	8		.	Full duty No
72							



Appendix D: SAS Programs and Printouts (continued)

246 53	Left	2	5	8	610	Full duty	No
247 33	Left	2	5	3	679	Full duty	No
248 52	NA	3	9	8	303	Full duty	No
249 49	Left	2	5	3	303	Full duty	No
250 57	Right	1	2	5	.	Full duty	No
251 50	Left	2	4	6	621	Full duty	No
252 37	Right	3	11	8	2805	Full duty	No
253 38	Right	3	11	8	661	Full duty	No

Appendix D: SAS Programs and Printouts (continued)

							The SAS System	15:16 Friday, January
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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART		
254	19JUL2001:00:00:00	2001	2001-00752	Mal	FEB 2, 1952	Arm(s),		
Uppe								
255	24JUL2001:00:00:00	2001	2001-00778	Fem	JAN 29, 1951	Ankl es		
256	26JUL2001:00:00:00	2001	2001-00779	Fem	JUL 16, 1955	Ankl es		
257	30JUL2001:00:00:00	2001	2001-00804	Mal	JAN 31, 1968			
258	30JUL2001:00:00:00	2001	2001-00809	Mal	APR 19, 1953	Hand(s),		
Inc								
259	09AUG2001:00:00:00	2001	2001-00844	Fem	NOV 25, 1960	Ankl es		
260	13AUG2001:00:00:00	2001	2001-00855	Fem	AUG 20, 1949	NOSE		
261	14AUG2001:00:00:00	2001	2001-00856	Fem	JUL 10, 1974	FACE		
262	03AUG2001:00:00:00	2001	2001-00861	Fem	DEC 10, 1943	Foot,		
Includ								
263	14AUG2001:00:00:00	2001	2001-00862	Fem	MAR 28, 1946			
264	24AUG2001:00:00:00	2001	2001-00904	Fem	MAY 5, 1957			
265	06SEP2001:00:00:00	2001	2001-00927	Mal	DEC 20, 1955	UPPER		
BACK								
266	07SEP2001:00:00:00	2001	2001-00934	Fem	OCT 2, 1951	SINGLE		
KNEE								
267	14SEP2001:00:00:00	2001	2001-00950	Mal	AUG 24, 1969			
268	14SEP2001:00:00:00	2001	2001-00965	Mal	AUG 24, 1969	LEG(S),		
OTHE								
269	24SEP2001:00:00:00	2001	2001-00985	Fem	AUG 9, 1950	LOWER		
BACK/B								
270	04OCT2001:00:00:00	2001	2002-00011	Fem	MAR 29, 1954	SINGLE		
ELBOW								
271	03OCT2001:00:00:00	2001	2002-00021	Fem	FEB 23, 1950	LEG(S),		
OTHE								
272	17OCT2001:00:00:00	2001	2002-00040	Fem	SEP 29, 1953	LOWER		
BACK/B								
273	29OCT2001:00:00:00	2001	2002-00082	Fem	SEP 11, 1957	BOTH ARMS		
AN								
274	03NOV2001:00:00:00	2001	2002-00092	Fem	MAR 5, 1947	LEG(S),		
OTHE								
275	07NOV2001:00:00:00	2001	2002-00103	Fem	AUG 18, 1959	JAW,		
MANDIBL								
276	30OCT2001:00:00:00	2001	2002-00107	Fem	OCT 15, 1948			
Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty	
losttime	age							
254	Right	3	7	8		2005	Light duty	No
49								
255	Both	2	4	5		561	Full duty	No
50								
256	Right	3	10	2		7408	Light duty	No
46								
257	.	.	.	.		303		
33								
258	Left	3	10	2		3566	Light duty	No
48								
259	Right	1	2	5		645	Full duty	No
41								
260	NA	1	3	7		610	Full duty	No
52								
261	Right	2	10	2		633	Full duty	No
27								
262	Right	3	8	3		610	Light duty	Yes
58								
263		2	0	0		303		
55								
264		1	3	8		318		
44								
265	Both	3	7	8		2805	Full duty	No
46								
266	Right	1	3	8		610	Full duty	No
50								
267		.	.	.		7408		
32								
268	Left	2	5	3		7408	Light duty	No
32								

Appendix D: SAS Programs and Printouts (continued)

269 51	Right	2	10	2	303	Full duty	No
270 47	Left	3	0	3	610	Full duty	No
271 51	Left	3	11	2	303	Full duty	No
272 48	Right	1	1	4	610	Full duty	No
273 44	Left	2	3	8	3566	Full duty	No
274 54	Right	2	6	5	621	Full duty	Yes
275 42	NA	2	5	3	334		Yes
276 53		0	0	0	610		

Appendix D: SAS Programs and Printouts (continued)

10, 2003 520		The SAS System			15: 16 Friday, January		
Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART	
277	20NOV2001: 00: 00: 00	2001	2002-00125	Fem	AUG 17, 1937	CHIN	
278	19NOV2001: 00: 00: 00	2001	2002-00126	Fem	AUG 31, 1946	SINGLE	
FOOT							
279	29NOV2001: 00: 00: 00	2001	2002-00137	Fem	MAY 4, 1954	LEG(S),	
OTHE							
280	10DEC2001: 00: 00: 00	2001	2002-00176	Fem	DEC 29, 1952	ANATOMI C	
SIT							
281	17DEC2001: 00: 00: 00	2001	2002-00182	Mal	FEB 16, 1943	SINGLE	
SHOUL							
282	25DEC2001: 00: 00: 00	2001	2002-00242	Fem	APR 18, 1971	LEG(S),	
MULT							
283	02JAN2002: 00: 00: 00	2002	2002-00249	Fem	MAR 25, 1955	SINGLE	
HIP/T							
284	06JAN2002: 00: 00: 00	2002	2002-00254	Fem	MAY 22, 1953		
285	06JAN2002: 00: 00: 00	2002	2002-00254A	Fem	MAY 22, 1953	LOWER	
BACK/B							
286	06JAN2002: 00: 00: 00	2002	2002-00254B	Fem	MAY 22, 1953	LOWER	
BACK/B							
287	31DEC2001: 00: 00: 00	2001	2002-00256	Mal	MAR 13, 1940	HEAD,	
EXTERN							
288	15JAN2002: 00: 00: 00	2002	2002-00282	Fem	AUG 25, 1969	SINGLE	
FOOT							
289	17JAN2002: 00: 00: 00	2002	2002-00284	Mal	SEP 17, 1955	ANATOMI C	
SIT							
290	17JAN2002: 00: 00: 00	2002	2002-00285	Fem	MAR 20, 1958	LEG(S),	
OTHE							
291	15JAN2002: 00: 00: 00	2002	2002-00291	Fem	JAN 14, 1953	SINGLE	
FOOT							
292	23JAN2002: 00: 00: 00	2002	2002-00296	Fem	JUN 20, 1963	ARM(S),	
OTHE							
293	09JAN2002: 00: 00: 00	2002	2002-00306	Fem	JUN 1, 1958		
294	01FEB2002: 00: 00: 00	2002	2002-00314	Fem	FEB 4, 1952		
295	08FEB2002: 00: 00: 00	2002	2002-00327	Fem	JAN 31, 1955	SINGLE	
ARM A							
296	07FEB2002: 00: 00: 00	2002	2002-00328	Fem	APR 21, 1972	PELVIS	
297	20FEB2002: 00: 00: 00	2002	2002-00350	Fem	FEB 15, 1944	HEAD,	
EXTERN							
298	21FEB2002: 00: 00: 00	2002	2002-00355	Fem	JUN 29, 1957	SINGLE	
ELBOW							
299	22FEB2002: 00: 00: 00	2002	2002-00357	Fem	MAY 6, 1954		

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty	
losttime	age							
277	Right	2	5	3		648	Full duty	No
64								
278	Right	1	3	4		303		No
55								
279	Right	1	2	6		561	Full duty	No
47								
280	NA	2	5	4		620	Full duty	No
49								
281	Left	2	5	8		5352	Full duty	No
58								
282	Right	1	3	5		620	Light duty	No
30								
283	Right	1	6	3		303	Full duty	No
47								
284		1	2	4		620		
49								
285	Both	1	2	4		620	Light duty	Yes
49								
286	Both	1	2	4		620	Light duty	Yes
49								
287	NA	3	9	8		4102	Full duty	No
61								
288	Left	3	7	4		3566	Full duty	No
33								

Appendix D: SAS Programs and Printouts (continued)

289 47	NA	3	11	8	2854	Full duty	No
290 44	Left	2	5	3	610	Full duty	No
291 49	Left	2	6	3	610	Full duty	No
292 39	Right	2	5	7	682	Full duty	No
293 44		.	.	.	.		
294 50		0	0	0	620		
295 47	Right	2	4	4	610	Full duty	No
296 30	Left	1	3	7	633	Full duty	No
297 58	Right	3	9	4	610	Full duty	No
298 45	Right	1	3	8	7408	Full duty	No

299 0 0 0 0 3566  
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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
300 OTHE	22FEB2002: 00: 00: 00	2002	2002-00358	Fem	JUL 3, 1962	LEG(S),
301	26FEB2002: 00: 00: 00	2002	2002-00363	Mal	MAY 14, 1947	RI B
302	27FEB2002: 00: 00: 00	2002	2002-00364	Fem	OCT 18, 1947	ABDOMEN
303 LOWER L	11MAR2002: 00: 00: 00	2002	2002-00378	Fem	DEC 12, 1966	BOTH
304 OTHE	11MAR2002: 00: 00: 00	2002	2002-00383	Fem	FEB 21, 1971	ARM(S),
305	13MAR2002: 00: 00: 00	2002	2002-00394	Fem	FEB 5, 1943	
306 LEG/H	14MAR2002: 00: 00: 00	2002	2002-00398	Fem	MAR 23, 1970	SINGLE
307 MULT	15MAR2002: 00: 00: 00	2002	2002-00403	Fem	OCT 31, 1957	ARM(S),
308 FOOT	18MAR2002: 00: 00: 00	2002	2002-00407	Fem	MAY 5, 1969	SINGLE
309	23MAR2002: 00: 00: 00	2002	2002-00411	Fem	JAN 1, 1936	FACE
310	23MAR2002: 00: 00: 00	2002	2002-00413	Fem	JAN 1, 1936	FACE
311 KNEE	03APR2002: 00: 00: 00	2002	2002-00438	Mal	JAN 21, 1944	SINGLE
312	20MAR2002: 00: 00: 00	2002	2002-00453	Mal	MAR 23, 1948	NECK
313 OTHE	12APR2002: 00: 00: 00	2002	2002-00455	Mal	MAY 14, 1947	LEG(S),
314 BACK/B	16APR2002: 00: 00: 00	2002	2002-00460	Fem	FEB 25, 1982	LOWER
315 KNEE	17APR2002: 00: 00: 00	2002	2002-00464	Fem	MAY 13, 1931	SINGLE
316 THUMB	24APR2002: 00: 00: 00	2002	2002-00477	Mal	MAR 23, 1948	SINGLE
317 BACK/B	26APR2002: 00: 00: 00	2002	2002-00484	Fem	MAR 22, 1975	LOWER
318 KNEES	03MAY2002: 00: 00: 00	2002	2002-00501	Fem	DEC 18, 1958	BOTH
319 KNEE	06MAY2002: 00: 00: 00	2002	2002-00504	Mal	JUN 26, 1945	SINGLE
320	10MAY2002: 00: 00: 00	2002	2002-00522	Fem	AUG 21, 1946	
321 MULT	29MAY2002: 00: 00: 00	2002	2002-00569	Fem	MAY 28, 1940	ARM(S),
322 KNEE	30MAY2002: 00: 00: 00	2002	2002-00571	Mal	MAY 23, 1950	SINGLE

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty
losttime	age						
300 40	Right	3	0	3		621	Full duty
301 55	Right	3	7	8		3806	Full duty

Appendix D: SAS Programs and Printouts (continued)

302 55	Both	3	9	8	303	Full duty	No
303 36	Right	1	6	3	610	Light duty	No
304 31	Right	2	5	3	620	Full duty	No
305 59		.	.	.	318		
306 32	Left	3	10	2	.		
307 45	Left	2	6	3	303	Full duty	No
308 33	Right	2	10	2	303	Light duty	No
309 66	Right	2	4	4	610	Light duty	Yes
310 66	Right	0	0	0	610	Full duty	No
311 58	Left	1	3	6	605	Full duty	No
312 54	NA	2	5	6	622	Full duty	No
313 55	Left	2	5	3	3806	Full duty	No
314 20	Both	1	2	4	621	Full duty	No
315 71	Right	.	.	.	9999	Full duty	No
316 54	NA	2	6	4	622	Full duty	No
317 27	NA	3	11	4	620	Full duty	No
318 44	Both	2	5	3	303	Full duty	Yes
319 57	Right	3	10	2	4204	Light duty	No
320 56		2	4	8	647	Full duty	No
321 62	Left	.	.	.	9999	Full duty	No
322 52	Right	2	5	8	610	Full duty	No

Appendix D: SAS Programs and Printouts (continued)

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Obs	DATE	year	CASENUMBER	SEX	DOB	BODYPART
323 BACK/B	09JUN2002: 00: 00: 00	2002	2002-00596	Fem	MAR 4, 1957	LOWER
324 FOOT	11JUN2002: 00: 00: 00	2002	2002-00602	Fem	AUG 11, 1941	SINGLE
325 EXTERN	01JUL2002: 00: 00: 00	2002	2002-00644	Fem	JUN 6, 1958	HEAD,
326 SHOUL	28JUN2002: 00: 00: 00	2002	2002-00651	Mal	MAR 21, 1959	SINGLE
327 BACK	10JUL2002: 00: 00: 00	2002	2002-00668	Mal	NOV 20, 1973	UPPER
328 OTHE	11JUL2002: 00: 00: 00	2002	2002-00677	Fem	DEC 15, 1960	LEG(S),
329 KNEE	12JUL2002: 00: 00: 00	2002	2002-00680	Fem	JUN 11, 1965	SINGLE
330 LEG/H	12JUL2002: 00: 00: 00	2002	2002-00682	Fem	JAN 21, 1942	SINGLE
331 OTHE	17JUL2002: 00: 00: 00	2002	2002-00706	Fem	AUG 6, 1966	LEG(S),
332 OTHE	25JUL2002: 00: 00: 00	2002	2002-00716	Fem	SEP 18, 1946	ARM(S),
333 FOOT	26JUL2002: 00: 00: 00	2002	2002-00720	Fem	JUN 3, 1986	SINGLE
334 BACK/B	31JUL2002: 00: 00: 00	2002	2002-00731	Fem	JUL 6, 1949	LOWER
335 FOOT	05AUG2002: 00: 00: 00	2002	2002-00742	Mal	MAR 25, 1948	SINGLE
336 SHOUL	23JUL2002: 00: 00: 00	2002	2002-00761	Mal	JUN 30, 1949	SINGLE
337 HAND	12AUG2002: 00: 00: 00	2002	2002-00763	Fem	JUN 15, 1958	SINGLE
338 LOWER	13AUG2002: 00: 00: 00	2002	2002-00769	Fem	JAN 7, 1949	SINGLE
339 OTHE	15AUG2002: 00: 00: 00	2002	2002-00772	Mal	SEP 14, 1963	LEG(S),
340	16AUG2002: 00: 00: 00	2002	2002-00775	Fem	JAN 31, 1955	ABDOMEN
341	22AUG2002: 00: 00: 00	2002	2002-00792	Mal	JUL 18, 1953	RIB

Obs	SIDEBODY	type	cause	LOCATION	F11	occup	returnduty	
losttime	age							
323 45	Right	1	2	4		620	Light duty	No
324 61	Left	2	5	2		303	Full duty	No
325 44	Both	3	11	8		620	Full duty	No
326 43	Right	1	3	8		7408	Light duty	No
327 29	Both	2	3	5		645	Light duty	No
328 42	Left	1	6	3		610	Full duty	No
329 37	Left	2	5	8		661		No
330 60	Left	1	5	5		610	Light duty	No
331 36	Right	3	0	3		620	Light duty	Yes
332 56	Left	2	6	8		646		Yes
333 16	Left	.	.	.		9999	Full duty	No
334 53	Both	2	4	8		610	Full duty	No
335 54	Right	2	8	3		5703		Yes
336 53	Both	3	7	8		809	Full duty	No
337 44	Left	1	3	8		525	Full duty	No

Appendix D: SAS Programs and Printouts (continued)

338 53	Right	3	11	2	610	Full duty	No
339 39	Right	.	.	.	679	Light duty	No
340 47	NA	2	11	4	610	Full duty	Yes
341 49	Right	2	4	4	620		No



Appendix D: SAS Programs and Printouts (continued)

)

10, 2003 523

The SAS System

15:16 Friday, January

The FREQ Procedure

SEX

SEX	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Fem	240	71.22	240	71.22
Mal	97	28.78	337	100.00

Frequency Missing = 4

Appendix D: SAS Programs and Printouts (continued)

10, 2003 524

The SAS System

15:16 Friday, January

The FREQ Procedure

BODYPART

BODYPART	Frequency	Percent	Cumul ative Frequency	Cumul ative Percent
ABDOMEN	3	0.99	3	0.99
ANATOMI C SIT	2	0.66	5	1.64
ARM(S), MULT	2	0.66	7	2.30
ARM(S), OTHE	3	0.99	10	3.29
Ankl es	28	9.21	38	12.50
Arm(s), Lo	4	1.32	42	13.82
Arm(s), Lowe	1	0.33	43	14.14
Arm(s), Up	6	1.97	49	16.12
Arm(s), Uppe	1	0.33	50	16.45
BOTH ARMS AN	1	0.33	51	16.78
BOTH KNEES	1	0.33	52	17.11
BOTH LOWER L	1	0.33	53	17.43
Buttcks	6	1.97	59	19.41
CHEST	2	0.66	61	20.07
CHIN	1	0.33	62	20.39
EXTERNAL,	3	0.99	65	21.38
El bow	2	0.66	67	22.04
FACE	9	2.96	76	25.00
Foot, Incl	10	3.29	86	28.29
Foot, Includ	2	0.66	88	28.95
HEAD, EXTERN	3	0.99	91	29.93
Hand(s), I	7	2.30	98	32.24
Hand(s), Inc	2	0.66	100	32.89
Hi p	11	3.62	111	36.51
JAW, MANDIBL	1	0.33	112	36.84
Knees	58	19.08	170	55.92
LEG(S), MULT	1	0.33	171	56.25
LEG(S), OTHE	10	3.29	181	59.54
LOWER BACK	26	8.55	207	68.09
LOWER BACK/B	12	3.95	219	72.04
Leg(s), Lo	13	4.28	232	76.32
Leg(s), Lowe	1	0.33	233	76.64
Leg(s), Up	7	2.30	240	78.95
MDUTH	2	0.66	242	79.61
NECK	3	0.99	245	80.59
NOSE	1	0.33	246	80.92
PELVIS	2	0.66	248	81.58
RIB	3	0.99	251	82.57
SINGLE ARM A	1	0.33	252	82.89
SINGLE ELBOW	2	0.66	254	83.55
SINGLE FOOT	7	2.30	261	85.86
SINGLE HAND	1	0.33	262	86.18
SINGLE HIP/T	1	0.33	263	86.51
SINGLE KNEE	6	1.97	269	88.49

Appendix D: SAS Programs and Printouts (continued)

10, 2003 525

The SAS System

15:16 Friday, January

The FREQ Procedure

BODYPART

BODYPART	Frequency	Percent	Cumulative Frequency	Cumulative Percent
SINGLE LEG/H	2	0.66	271	89.14
SINGLE LOWER	1	0.33	272	89.47
SINGLE SHOUL	3	0.99	275	90.46
SINGLE THUMB	1	0.33	276	90.79
SKULL (CRA	2	0.66	278	91.45
SKULL (CRANI	1	0.33	279	91.78
Shoulder	6	1.97	285	93.75
Total Body	4	1.32	289	95.07
UPPER BACK	2	0.66	291	95.72
Wrist(s)	13	4.28	304	100.00

Frequency Missing = 37

type

type	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	30	9.55	30	9.55
1	102	32.48	132	42.04
2	105	33.44	237	75.48
3	77	24.52	314	100.00

Frequency Missing = 27

Appendix D: SAS Programs and Printouts (continued)

10, 2003 526

The SAS System

15:16 Friday, January

The FREQ Procedure

LOCATION

LOCATION	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	32	10.22	32	10.22
1	6	1.92	38	12.14
2	29	9.27	67	21.41
3	68	21.73	135	43.13
4	40	12.78	175	55.91
5	20	6.39	195	62.30
6	29	9.27	224	71.57
7	14	4.47	238	76.04
8	75	23.96	313	100.00

Frequency Missing = 28

cause

cause	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	51	16.24	51	16.24
1	3	0.96	54	17.20
2	23	7.32	77	24.52
3	56	17.83	133	42.36
4	16	5.10	149	47.45
5	56	17.83	205	65.29
6	34	10.83	239	76.11
7	10	3.18	249	79.30
8	5	1.59	254	80.89
9	15	4.78	269	85.67
10	18	5.73	287	91.40
11	27	8.60	314	100.00

Frequency Missing = 27

Appendix D: SAS Programs and Printouts (continued)

10, 2003 527

The SAS System

15:16 Friday, January

The FREQ Procedure

occup

occup	Frequency	Percent	Cumulative Frequency	Cumulative Percent
60	1	0.31	1	0.31
83	5	1.55	6	1.86
180	1	0.31	7	2.17
185	4	1.24	11	3.42
203	1	0.31	12	3.73
260	1	0.31	13	4.04
301	4	1.24	17	5.28
303	29	9.01	46	14.29
305	10	3.11	56	17.39
309	3	0.93	59	18.32
318	6	1.86	65	20.19
322	1	0.31	66	20.50
334	1	0.31	67	20.81
525	4	1.24	71	22.05
561	3	0.93	74	22.98
601	3	0.93	77	23.91
602	3	0.93	80	24.84
603	4	1.24	84	26.09
605	1	0.31	85	26.40
610	70	21.74	155	48.14
620	37	11.49	192	59.63
621	13	4.04	205	63.66
622	5	1.55	210	65.22
630	4	1.24	214	66.46
633	2	0.62	216	67.08
636	3	0.93	219	68.01
638	1	0.31	220	68.32
640	6	1.86	226	70.19
644	1	0.31	227	70.50
645	4	1.24	231	71.74
646	1	0.31	232	72.05
647	2	0.62	234	72.67
648	1	0.31	235	72.98
649	1	0.31	236	73.29
660	2	0.62	238	73.91
661	4	1.24	242	75.16
665	1	0.31	243	75.47
679	12	3.73	255	79.19
682	2	0.62	257	79.81
690	1	0.31	258	80.12
802	2	0.62	260	80.75
809	1	0.31	261	81.06
998	1	0.31	262	81.37
1101	1	0.31	263	81.68

Appendix D: SAS Programs and Printouts (continued)

10, 2003 528

The SAS System

15:16 Friday, January

The FREQ Procedure

occup

occup	Frequency	Percent	Cumul ative Frequency	Cumul ative Percent
2005	1	0.31	264	81.99
2091	2	0.62	266	82.61
2805	2	0.62	268	83.23
2854	1	0.31	269	83.54
3111	1	0.31	270	83.85
3566	19	5.90	289	89.75
3806	2	0.62	291	90.37
4102	2	0.62	293	90.99
4204	1	0.31	294	91.30
4742	1	0.31	295	91.61
4749	1	0.31	296	91.93
4801	1	0.31	297	92.24
5306	1	0.31	298	92.55
5352	1	0.31	299	92.86
5402	2	0.62	301	93.48
5703	1	0.31	302	93.79
6907	1	0.31	303	94.10
7408	16	4.97	319	99.07
9999	3	0.93	322	100.00

Frequency Missing = 19

returnduty

returnduty	Frequency	Percent	Cumul ative Frequency	Cumul ative Percent
Full duty	192	70.85	192	70.85
Light duty	79	29.15	271	100.00

Frequency Missing = 70

Appendix D: SAS Programs and Printouts (continued)

10, 2003 529

The SAS System

15:16 Friday, January

The FREQ Procedure

losttime

losttime	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	246	83.67	246	83.67
Yes	48	16.33	294	100.00

Frequency Missing = 47

Appendix D: SAS Programs and Printouts (continued)

10, 2003 530

The SAS System 15:16 Friday, January

The UNIVARIATE Procedure  
Variable: age

Moments

N	337	Sum Weights	337
Mean	47.5816024	Sum Observations	16035
Std Deviation	11.363319	Variance	129.125018
Skewness	-0.4726106	Kurtosis	2.03480556
Uncorrected SS	806357	Corrected SS	43386.0059
Coeff Variation	23.8817492	Std Error Mean	0.61899943

Basic Statistical Measures

Location		Variability	
Mean	47.58160	Std Deviation	11.36332
Median	49.00000	Variance	129.12502
Mode	49.00000	Range	88.00000
		Interquartile Range	12.00000

Tests for Location:  $\mu_0=0$

Test	-Statistic-	----- p Value-----	
Student's t	t 76.86857	Pr >  t	<.0001
Sign	M 167	Pr >=  M	<.0001
Signed Rank	S 28307	Pr >=  S	<.0001

Tests for Normality

Test	--Statistic--	----- p Value-----	
Shapiro-Wilk	W 0.970908	Pr < W	<0.0001
Kolmogorov-Smirnov	D 0.068321	Pr > D	<0.0100
Cramer-von Mises	W-Sq 0.36429	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq 2.167693	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Quantile	Estimate
100% Max	87
99%	74
95%	64
90%	60
75% Q3	54



Appendix D: SAS Programs and Printouts (continued)

)

10, 2003 531

The SAS System

15:16 Friday, January

The UNIVARIATE Procedure  
Variable: age

Quantiles (Definition 5)

Quantile	Estimate
50% Median	49
25% Q1	42
10%	32
5%	29
1%	19
0% Min	-1

Extreme Observations

---- Lowest----		---- Highest----	
Value	Obs	Value	Obs
-1	128	72	245
0	154	74	51
16	333	77	59
19	183	86	181
19	4	87	163

Missing Values

Missing Value	Count	----- Percent Of-----	
		All Obs	Missing Obs
.	4	1.17	100.00

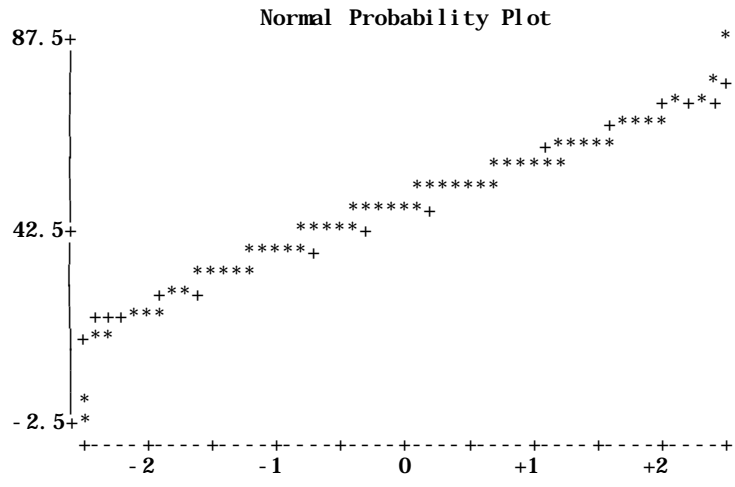
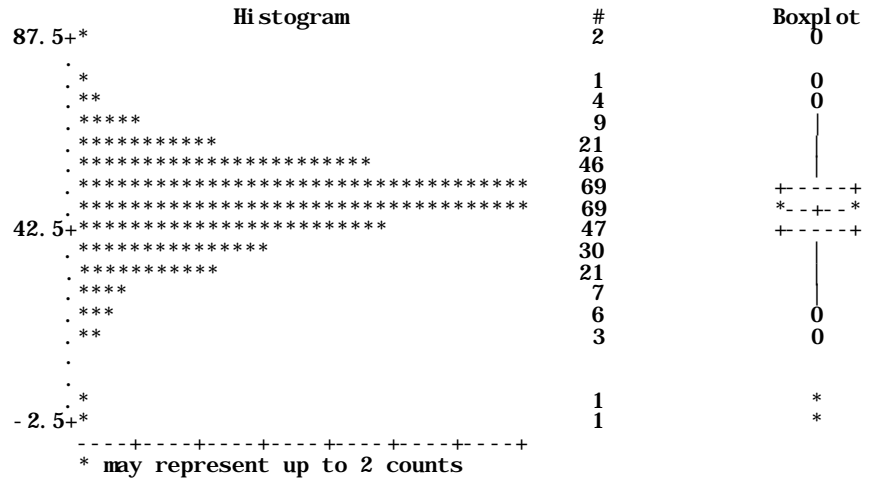
Appendix D: SAS Programs and Printouts (continued)

10, 2003 532

The SAS System

15:16 Friday, January

The UNIVARIATE Procedure  
Variable: age



Appendix D: SAS Programs and Printouts (continued)

135 Nonparametric Test to compare mean age and affected work days  
 March 11, 2003 14: 21 Tuesday,

The CONTENTS Procedure

335 Data Set Name: WORK.ALL Observations:  
 15 Member Type: DATA Variables:  
 Engine: V8 Indexes: 0  
 112 Created: 14: 58 Tuesday, March 11, 2003 Observation Length:  
 Last Modified: 14: 58 Tuesday, March 11, 2003 Deleted Observations: 0  
 NO Protection: Compressed:  
 NO Data Set Type: Sorted:  
 Label:

----- Engine/Host Dependent Information -----

Data Set Page Size: 12288  
 Number of Data Set Pages: 4  
 First Data Page: 1  
 Max Obs per Page: 109  
 Obs in First Data Page: 86  
 Number of Data Set Repairs: 0  
 File Name: C:\DOCUME~1\default\LOCALS~1\Temp\SAS  
 Temporary Files\\_TD2836\all1.sas7bdat  
 Release Created: 8. 0202MD  
 Host Created: WIN\_PRO

----- Alphabetic List of Variables and Attributes -----

#	Variable	Type	Len	Pos	Format	Informat	Label
3	CASENUMBER	Char	11	80	\$11.	\$11.	
1	DATE	Num	8	0	DATETIME20.	DATETIME20.	DATE
5	DOB	Num	8	16	DATETIME20.	DATETIME20.	DOB
8	LOCATION	Num	8	40			
4	SEX	Char	3	91	\$3.	\$3.	SEX
9	age	Num	8	48			age
7	cause	Num	8	32			cause
15	lightlost	Char	3	107	\$3.	\$3.	
12	losttime	Char	3	104	\$3.	\$3.	
14	numlight	Num	8	72			
13	numlost	Num	8	64			numlost
10	occup	Num	8	56			occup
11	returnduty	Char	10	94	\$10.	\$10.	
6	type	Num	8	24			type
2	year	Num	8	8			year

Appendix D: SAS Programs and Printouts (continued)

136 Nonparametric Test to compare mean age and affected work days  
 March 11, 2003 14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
0 1	10FEB2000: 00: 00: 00	2000	2000- 00301	Mal	26JAN1972: 00: 00: 00	3
. 2	30JUL2001: 00: 00: 00	2001	2001- 00804	Mal	31JAN1968: 00: 00: 00	.
. 3	18OCT1999: 00: 00: 00	1999	2000- 00035	Fem	21SEP1962: 00: 00: 00	1
3 4	24AUG1999: 00: 00: 00	1999	1999- 00552	Fem	09DEC1958: 00: 00: 00	.
. 5	18OCT1999: 00: 00: 00	1999	2000- 00052	Fem	15JUN1958: 00: 00: 00	.
. 6	13JUL2000: 00: 00: 00	2000	2000- 00614	Fem	20OCT1957: 00: 00: 00	.
. 7	08OCT1999: 00: 00: 00	1999	2000- 00025	Fem	15JUN1956: 00: 00: 00	.
. 8	19APR2001: 00: 00: 00	2001	2001- 00498	Mal	05NOV1956: 00: 00: 00	.
. 9	14JUN2000: 00: 00: 00	2000	2000- 00568	Fem	19MAY1953: 00: 00: 00	1
2 10	12APR2001: 00: 00: 00	2001	2001- 00484	Mal	12FEB1954: 00: 00: 00	.
. 11	20JUL1999: 00: 00: 00	1999	1999- 00464	Fem	07SEP1950: 00: 00: 00	1
3 12	31JUL1999: 00: 00: 00	1999	1999- 00497	Fem	17MAR1949: 00: 00: 00	1
0 13	07MAY1999: 00: 00: 00	1999	1999- 00249	Fem	28AUG1948: 00: 00: 00	0
0 14	07MAY1999: 00: 00: 00	1999	1999- 00250	Fem	28AUG1948: 00: 00: 00	1
3 15	15JUL1999: 00: 00: 00	1999	1999- 00458	Fem	05AUG1948: 00: 00: 00	0
0 16	16JUL1999: 00: 00: 00	1999	1999- 00456	Mal	23JUN1947: 00: 00: 00	.
. 17	04DEC2000: 00: 00: 00	2000	2001- 00158	Mal	15MAR1948: 00: 00: 00	.
. 18	15SEP1999: 00: 00: 00	1999	1999- 00634	Fem	25AUG1946: 00: 00: 00	3
0 19	10MAR2001: 00: 00: 00	2001	2001- 00406	Fem	03JAN1947: 00: 00: 00	.
. 20	01APR1999: 00: 00: 00	1999	1999- 00242	Mal	24MAY1940: 00: 00: 00	0
0 21	01APR1999: 00: 00: 00	1999	1999- 00242A	Mal	24MAY1940: 00: 00: 00	1
3 22	19OCT2000: 00: 00: 00	2000	2001- 00050	Fem	20MAY1941: 00: 00: 00	2
6						

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
1	0	28	.			0	0
. 2	.	34	303			0	0
. 3	5	37	303	Full duty	No	0	0
. 4	.	41	3566			0	0
. 5	.	41	525			0	0
. 6	.	43	260			0	0
. 7	.	43	610			0	0
. 8	.	44	602			0	0

Appendix D: SAS Programs and Printouts (continued)

9	5	47	.			0	0
10	.	47	3566			0	0
11	6	49	203	Full duty	No	0	0
12	0	50	621			0	0
13	0	51	185			0	0
14	6	51	185	Full duty	No	0	0
15	0	51	610			0	0
16	.	52	83			0	0
17	.	53	303			0	0
18	0	53	610			0	0
19	.	54	620			0	0
20	0	59	640			0	0
21	8	59	640		No	0	0
22	5	59	.			.	.

Appendix D: SAS Programs and Printouts (continued)

137 Nonparametric Test to compare mean age and affected work days  
 March 11, 2003 14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
23	27JAN2000: 00: 00: 00	2000	2000- 00327	Mal	22JUN1935: 00: 00: 00	.
24	15AUG2000: 00: 00: 00	2000	2000- 00697	Fem	06DEC1913: 00: 00: 00	2
25	26JUL2002: 00: 00: 00	2002	2002- 00720	Fem	03JUN1986: 00: 00: 00	.
26	05JAN1999: 00: 00: 00	1999	1999- 00006	Mal	30JUN1980: 00: 00: 00	.
27	31OCT2000: 00: 00: 00	2000	2001- 00076	Mal	15 JAN1981: 00: 00: 00	3
28	16APR2002: 00: 00: 00	2002	2002- 00460	Fem	25FEB1982: 00: 00: 00	1
29	09MAR2001: 00: 00: 00	2001	2001- 00404	Mal	15JAN1981: 00: 00: 00	3
30	27MAR2000: 00: 00: 00	2000	2000- 00388	Fem	26APR1979: 00: 00: 00	0
31	20SEP2000: 00: 00: 00	2000	2001- 00007	Fem	26APR1979: 00: 00: 00	0
32	06JUL2000: 00: 00: 00	2000	2000- 00601	Fem	15DEC1977: 00: 00: 00	2
33	14AUG2001: 00: 00: 00	2001	2001- 00856	Fem	10JUL1974: 00: 00: 00	2
34	26APR2002: 00: 00: 00	2002	2002- 00484	Fem	22MAR1975: 00: 00: 00	3
35	23FEB2001: 00: 00: 00	2001	2001- 00347	Fem	30SEP1972: 00: 00: 00	2
36	10JUL2002: 00: 00: 00	2002	2002- 00668	Mal	20NOV1973: 00: 00: 00	2
37	21SEP1999: 00: 00: 00	1999	1999- 00620	Fem	25OCT1970: 00: 00: 00	3
38	10APR2000: 00: 00: 00	2000	2000- 00428	Fem	09NOV1970: 00: 00: 00	3
39	11APR1999: 00: 00: 00	1999	1999- 00181	Mal	03NOV1969: 00: 00: 00	3
40	08AUG2000: 00: 00: 00	2000	2000- 00685	Mal	24NOV1970: 00: 00: 00	0
41	07FEB2002: 00: 00: 00	2002	2002- 00328	Fem	21APR1972: 00: 00: 00	1
42	03SEP2000: 00: 00: 00	2000	2000- 00758	Fem	01MAY1970: 00: 00: 00	1
43	21JUL1999: 00: 00: 00	1999	1999- 00478	Mal	25FEB1969: 00: 00: 00	3
44	11MAR2002: 00: 00: 00	2002	2002- 00383	Fem	21FEB1971: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
23	.	65	4749			0	0
24	3	87	.			0	0
25	.	16	9999	Full duty	No	0	0
26	.	19	2091			0	0
27	2	20	305	Full duty	No	0	0
28	4	20	621	Full duty	No	0	0
29	8	20	305	Full duty	No	0	0
30	8	21	7408	Full duty	No	0	0

Appendix D: SAS Programs and Printouts (continued)

31	0	21	7408	Full duty	No	0	0
No							
32	3	23	305	Full duty	No	0	0
No							
33	2	27	633	Full duty	No	0	0
No							
34	4	27	620	Full duty	No	0	0
No							
35	0	28	2091	Full duty	No	0	0
No							
36	9	29	645	Light duty	No	0	0
No							
37	8	29	621	Full duty	No	0	0
No							
38	8	29	645	Full duty	Yes	.	0
No							
39	3	29	305	Full duty	No	0	0
No							
40	2	30	601	Full duty	No	0	0
No							
41	7	30	633	Full duty	No	0	0
No							
42	4	30	620	Full duty	Yes	.	0
No							
43	8	30	303	Full duty	No	0	0
No							
44	3	31	620	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

138

March 11, 2003

14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
45 3	30AUG1999: 00: 00: 00	1999	1999-00561	Fem	07JUN1968: 00: 00: 00	1
46 9	16MAR2001: 00: 00: 00	2001	2001-00420	Mal	16SEP1969: 00: 00: 00	3
47 3	26FEB2001: 00: 00: 00	2001	2001-00359	Mal	24AUG1969: 00: 00: 00	1
48 11	11FEB1999: 00: 00: 00	1999	1999-00021	Fem	19MAR1967: 00: 00: 00	3
49 10	14MAR2002: 00: 00: 00	2002	2002-00398	Fem	23MAR1970: 00: 00: 00	3
50 .	14SEP2001: 00: 00: 00	2001	2001-00950	Mal	24AUG1969: 00: 00: 00	.
51 7	15JAN2002: 00: 00: 00	2002	2002-00282	Fem	25AUG1969: 00: 00: 00	3
52 5	07JUN2001: 00: 00: 00	2001	2001-00671	Fem	01MAY1968: 00: 00: 00	2
53 9	20APR1999: 00: 00: 00	1999	1999-00208	Fem	31DEC1964: 00: 00: 00	3
54 10	16MAR1999: 00: 00: 00	1999	1999-00122	Fem	14NOV1964: 00: 00: 00	3
55 4	01JAN2001: 00: 00: 00	2001	2001-00214	Mal	06FEB1966: 00: 00: 00	2
56 5	12JUL2002: 00: 00: 00	2002	2002-00680	Fem	11JUN1965: 00: 00: 00	2
57 11	26SEP2000: 00: 00: 00	2000	2000-00811	Fem	03JUL1963: 00: 00: 00	1
58 11	27JUN2001: 00: 00: 00	2001	2001-00714	Mal	17JAN1964: 00: 00: 00	3
59 11	16JUL2001: 00: 00: 00	2001	2001-00734	Fem	21NOV1963: 00: 00: 00	3
60 5	13JUL2000: 00: 00: 00	2000	2000-00619	Mal	02MAR1962: 00: 00: 00	2
61 5	14JUL2000: 00: 00: 00	2000	2000-00616	Mal	02MAR1962: 00: 00: 00	2
62 5	14JUL2000: 00: 00: 00	2000	2000-00616A	Mal	02MAR1962: 00: 00: 00	2
63 5	23JAN2002: 00: 00: 00	2002	2002-00296	Fem	20JUN1963: 00: 00: 00	2
64 1	04APR2000: 00: 00: 00	2000	2000-00415	Fem	02SEP1960: 00: 00: 00	1
65 0	22FEB2002: 00: 00: 00	2002	2002-00358	Fem	03JUL1962: 00: 00: 00	3
66 0	13NOV2000: 00: 00: 00	2000	2001-00108	Fem	17DEC1960: 00: 00: 00	3

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
45 No	6	31	630	Full duty	No	0	0
46 No	8	32	644		No	0	0
47 No	8	32	7408	Full duty	No	0	0
48 No	8	32	638	Full duty	No	0	0
49 No	2	32	.			0	0
50 No	.	32	7408			0	0
51 No	4	32	3566	Full duty	No	0	0
52 No	3	33	679	Full duty	No	0	0



Appendix D: SAS Programs and Printouts (continued)

No 53	8	34	303	Full duty	No	0	0
No 54	2	34	3566	Full duty	No	0	0
No 55	4	35	620	Full duty	No	0	0
No 56	8	37	661		No	0	0
No 57	2	37	303	Full duty	No	0	0
No 58	8	37	2805	Full duty	No	0	0
No 59	8	38	661	Full duty	No	0	0
No 60	8	38	636	Full duty	No	0	0
No 61	8	38	636	Full duty	No	0	0
No 62	8	38	636	Full duty	No	0	0
)							
No 63	7	39	682	Full duty	No	0	0
No 64	1	40	610	Full duty	No	0	0
No 65	3	40	621	Full duty	No	0	0
No 66	2	40	649	Full duty	No	0	0

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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March 11, 2003

14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
5 67	22JUL1999: 00: 00: 00	1999	1999-00473	Fem	09NOV1958: 00: 00: 00	2
2 68	09AUG2001: 00: 00: 00	2001	2001-00844	Fem	25NOV1960: 00: 00: 00	1
. 69	23FEB1999: 00: 00: 00	1999	1999-00046	Fem	06APR1958: 00: 00: 00	.
6 70	12JUL1999: 00: 00: 00	1999	1999-00441	Fem	15JUN1958: 00: 00: 00	2
3 71	27FEB1999: 00: 00: 00	1999	1999-00074	Fem	03SEP1957: 00: 00: 00	1
3 72	02FEB1999: 00: 00: 00	1999	1999-00213	Fem	17JUL1957: 00: 00: 00	1
6 73	11JUL2002: 00: 00: 00	2002	2002-00677	Fem	15DEC1960: 00: 00: 00	1
5 74	24MAY1999: 00: 00: 00	1999	1999-00301	Fem	09OCT1957: 00: 00: 00	2
11 75	07FEB2001: 00: 00: 00	2001	2001-00309	Mal	17JUN1959: 00: 00: 00	3
0 76	13APR2001: 00: 00: 00	2001	2001-00485	Mal	18AUG1959: 00: 00: 00	0
2 77	06FEB2001: 00: 00: 00	2001	2001-00305	Fem	19JAN1959: 00: 00: 00	1
5 78	28MAR2000: 00: 00: 00	2000	2000-00394	Mal	19NOV1957: 00: 00: 00	2
6 79	17NOV1999: 00: 00: 00	1999	2000-00120	Fem	02MAY1957: 00: 00: 00	1
6 80	17NOV1999: 00: 00: 00	1999	2000-00120A	Fem	02MAY1957: 00: 00: 00	1
3 81	22SEP2000: 00: 00: 00	2000	2000-00798	Mal	07FEB1958: 00: 00: 00	1
3 82	14MAY1999: 00: 00: 00	1999	1999-00266	Fem	11APR1956: 00: 00: 00	1
0 83	27JUL2000: 00: 00: 00	2000	2000-00667	Mal	06JUN1957: 00: 00: 00	0
3 84	28JUN2002: 00: 00: 00	2002	2002-00651	Mal	21MAR1959: 00: 00: 00	1
2 85	08OCT1999: 00: 00: 00	1999	2000-00042	Fem	15JUN1956: 00: 00: 00	1
6 86	21MAY1999: 00: 00: 00	1999	1999-00286	Fem	05JAN1956: 00: 00: 00	1
. 87	09JAN2002: 00: 00: 00	2002	2002-00306	Fem	01JUN1958: 00: 00: 00	.
5 88	17JAN2002: 00: 00: 00	2002	2002-00285	Fem	20MAR1958: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
No 67	8	41	647	Full duty	No	0	0
No 68	5	41	645	Full duty	No	0	0
No 69	.	41	630			.	.
No 70	8	41	525	Full duty	No	0	0
No 71	4	42	620	Full duty	No	0	0
No 72	5	42	318	Full duty	No	0	0
No 73	3	42	610	Full duty	No	0	0
No 74	2	42	679	Full duty	No	0	0

Appendix D: SAS Programs and Printouts (continued)

No 75	8	42	83	Full duty	No	0	0
No 76	2	42	4801	Full duty	No	0	0
No 77	6	42	610	Full duty	No	0	0
No 78	3	42	802	Full duty	No	0	0
No 79	3	43	610		No	0	0
No 80	3	43	610	Full duty	No	0	0
No 81	5	43	3566	Full duty	No	0	0
No 82	6	43	630	Full duty	No	0	0
No 83	0	43	610	Full duty	No	0	0
No 84	9	43	7408	Light duty	No	0	.
No 85	2	43	610	Full duty	No	0	0
No 86	3	43	610	Full duty	No	0	0
No 87	.	44	.			0	0
No 88	3	44	610	Full duty	No	0	0

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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March 11, 2003

14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
89	04OCT2000: 00: 00: 00	2000	2001-00011	Fem	15NOV1956: 00: 00: 00	2
5						
90	01JUL2002: 00: 00: 00	2002	2002-00644	Fem	06JUN1958: 00: 00: 00	3
11						
91	09SEP1999: 00: 00: 00	1999	1999-00587	Fem	26JUL1955: 00: 00: 00	1
6						
92	29OCT2001: 00: 00: 00	2001	2002-00082	Fem	11SEP1957: 00: 00: 00	2
3						
93	12AUG2002: 00: 00: 00	2002	2002-00763	Fem	15JUN1958: 00: 00: 00	1
3						
94	04FEB1999: 00: 00: 00	1999	1999-00008	Fem	23OCT1954: 00: 00: 00	.
.						
95	04FEB1999: 00: 00: 00	1999	1999-00008A	Fem	23OCT1954: 00: 00: 00	3
9						
96	24AUG2001: 00: 00: 00	2001	2001-00904	Fem	05MAY1957: 00: 00: 00	1
3						
97	15MAR2002: 00: 00: 00	2002	2002-00403	Fem	31OCT1957: 00: 00: 00	2
6						
98	21FEB2002: 00: 00: 00	2002	2002-00355	Fem	29JUN1957: 00: 00: 00	1
3						
99	21DEC2000: 00: 00: 00	2000	2001-00205	Mal	24MAR1956: 00: 00: 00	0
0						
100	07MAR2001: 00: 00: 00	2001	2001-00391	Fem	18MAY1956: 00: 00: 00	2
10						
101	06FEB2001: 00: 00: 00	2001	2001-00312	Fem	05JAN1956: 00: 00: 00	3
0						
102	03MAY2001: 00: 00: 00	2001	2001-00556	Fem	13DEC1955: 00: 00: 00	1
2						
103	11APR2001: 00: 00: 00	2001	2001-00479	Mal	02NOV1955: 00: 00: 00	1
3						
104	16SEP1999: 00: 00: 00	1999	1999-00556	Mal	12FEB1954: 00: 00: 00	3
0						
105	06SEP2001: 00: 00: 00	2001	2001-00927	Mal	20DEC1955: 00: 00: 00	3
7						
106	12MAR1999: 00: 00: 00	1999	1999-00112	Fem	09MAY1953: 00: 00: 00	0
0						
107	12MAR1999: 00: 00: 00	1999	1999-00112A	Fem	09MAY1953: 00: 00: 00	1
3						
108	01SEP1999: 00: 00: 00	1999	1999-00565	Fem	15SEP1953: 00: 00: 00	2
5						
109	26DEC2000: 00: 00: 00	2000	2001-00209	Fem	26NOV1954: 00: 00: 00	2
5						
110	17JAN2002: 00: 00: 00	2002	2002-00284	Mal	17SEP1955: 00: 00: 00	3
11						

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
89	8	44	679	Full duty	No	0	0
No							
90	8	44	620	Full duty	No	0	0
No							
91	3	44	1101			0	0
No							
92	8	44	3566	Full duty	No	0	0
No							
93	8	44	525	Full duty	No	0	0
No							
94	.	44	603			0	0
No							
95	7	44	603	Full duty	No	0	0
No							
96	8	44	318			0	0
No							

Appendix D: SAS Programs and Printouts (continued)

97	3	44	303	Full duty	No	0	0
No							
98	8	45	7408	Full duty	No	0	0
No							
99	0	45	305	Full duty	No	.	0
No							
100	2	45	610	Full duty	No	0	0
No							
101	8	45	303	Full duty	No	0	0
No							
102	1	45	630	Full duty	No	0	0
No							
103	8	45	303	Full duty	No	0	0
No							
104	0	46	3566	Full duty	No	0	0
No							
105	8	46	2805	Full duty	No	0	0
No							
106	0	46	610			0	0
No							
107	9	46	610	Full duty	No	0	0
No							
108	3	46	621	Full duty		0	0
No							
109	8	46	305	Full duty	No	0	0
No							
110	8	46	2854	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

March 11, 2003

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
111	02DEC2000: 00: 00: 00	2000	2001-00165	Mal	14JUL1954: 00: 00: 00	0
112	07MAY2001: 00: 00: 00	2001	2001-00580	Mal	27OCT1954: 00: 00: 00	.
113	22NOV2000: 00: 00: 00	2000	2001-00184	Fem	10APR1954: 00: 00: 00	2
114	02JAN2002: 00: 00: 00	2002	2002-00249	Fem	25MAR1955: 00: 00: 00	1
115	08FEB2002: 00: 00: 00	2002	2002-00327	Fem	31JAN1955: 00: 00: 00	2
116	10JAN2001: 00: 00: 00	2001	2001-00256	Fem	24NOV1953: 00: 00: 00	2
117	12APR2001: 00: 00: 00	2001	2001-00484A	Mal	12FEB1954: 00: 00: 00	3
118	10MAY2001: 00: 00: 00	2001	2001-00595	Fem	16FEB1954: 00: 00: 00	2
119	02NOV2000: 00: 00: 00	2000	2001-00090	Fem	29JUL1953: 00: 00: 00	2
120	04OCT2001: 00: 00: 00	2001	2002-00011	Fem	29MAR1954: 00: 00: 00	3
121	29NOV2001: 00: 00: 00	2001	2002-00137	Fem	04MAY1954: 00: 00: 00	1
122	14MAY1999: 00: 00: 00	1999	1999-00271	Mal	19AUG1951: 00: 00: 00	1
123	22FEB2002: 00: 00: 00	2002	2002-00357	Fem	06MAY1954: 00: 00: 00	0
124	17OCT2001: 00: 00: 00	2001	2002-00040	Fem	29SEP1953: 00: 00: 00	1
125	09OCT1999: 00: 00: 00	1999	2000-00020	Mal	30AUG1951: 00: 00: 00	1
126	12JAN2001: 00: 00: 00	2001	2001-00244	Fem	16NOV1952: 00: 00: 00	1
127	16SEP1999: 00: 00: 00	1999	1999-00615	Fem	13APR1951: 00: 00: 00	1
128	19MAR1999: 00: 00: 00	1999	1999-00126	Mal	06OCT1950: 00: 00: 00	1
129	16MAY2001: 00: 00: 00	2001	2001-00619	Fem	19NOV1952: 00: 00: 00	3
130	11NOV2000: 00: 00: 00	2000	2001-00107	Fem	27MAR1952: 00: 00: 00	1
131	06JAN2002: 00: 00: 00	2002	2002-00254	Fem	22MAY1953: 00: 00: 00	1
132	06SEP2000: 00: 00: 00	2000	2000-00763	Fem	05JAN1952: 00: 00: 00	1

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
111	0	46	610		No	0	0
112	.	47	602			0	0
113	3	47	303	Full duty	No	0	0
114	3	47	303	Full duty	No	0	0
115	4	47	610	Full duty	No	0	0
116	8	47	301	Full duty	No	0	0
117	8	47	3566	Full duty	No	0	0

Appendix D: SAS Programs and Printouts (continued)

118	8	47	610	Full duty	No	0	0
No							
119	7	47	620	Full duty	No	0	0
No							
120	3	48	610	Full duty	No	0	0
No							
121	6	48	561	Full duty	No	0	0
No							
122	2	48	660	Full duty	No	0	0
No							
123	0	48	3566			0	0
No							
124	4	48	610	Full duty	No	0	0
No							
125	4	48	621	Full duty	No	0	0
No							
126	4	48	620	Full duty	No	0	0
No							
127	6	48	610	Full duty	No	0	0
No							
128	3	48	6907	Full duty	No	0	0
No							
129	3	49	679	Full duty	No	0	0
No							
130	6	49	610	Full duty	No	0	0
No							
131	4	49	620			0	0
No							
132	3	49	610	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

March 11, 2003

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
133 6	06NOV2000: 00: 00: 00	2000	2001- 00096	Fem	26JAN1952: 00: 00: 00	2
134 11	22JUN1999: 00: 00: 00	1999	1999- 00389	Fem	28AUG1950: 00: 00: 00	3
135 5	10DEC2001: 00: 00: 00	2001	2002- 00176	Fem	29DEC1952: 00: 00: 00	2
136 6	15JAN2002: 00: 00: 00	2002	2002- 00291	Fem	14JAN1953: 00: 00: 00	2
137 5	21JAN2000: 00: 00: 00	2000	2000- 00243	Fem	18JAN1951: 00: 00: 00	2
138 4	22AUG2002: 00: 00: 00	2002	2002- 00792	Mal	18JUL1953: 00: 00: 00	2
139 5	07JUN2001: 00: 00: 00	2001	2001- 00674	Fem	23MAR1952: 00: 00: 00	2
140 6	26SEP2000: 00: 00: 00	2000	2000- 00807	Fem	29JUN1951: 00: 00: 00	2
141 3	15SEP1999: 00: 00: 00	1999	1999- 00608	Mal	14JAN1950: 00: 00: 00	1
142 .	20DEC1999: 00: 00: 00	1999	2000- 00201	Mal	17MAR1950: 00: 00: 00	.
143 11	03MAR1999: 00: 00: 00	1999	1999- 00083	Fem	31MAR1949: 00: 00: 00	3
144 3	07SEP2001: 00: 00: 00	2001	2001- 00934	Fem	02OCT1951: 00: 00: 00	1
145 0	01FEB2002: 00: 00: 00	2002	2002- 00314	Fem	04FEB1952: 00: 00: 00	0
146 4	22SEP1999: 00: 00: 00	1999	1999- 00624	Mal	20SEP1949: 00: 00: 00	2
147 4	01JUN2001: 00: 00: 00	2001	2001- 00702	Mal	09MAY1951: 00: 00: 00	2
148 4	24JUL2001: 00: 00: 00	2001	2001- 00778	Fem	29JAN1951: 00: 00: 00	2
149 5	07MAR2001: 00: 00: 00	2001	2001- 00390	Fem	08AUG1950: 00: 00: 00	2
150 .	01DEC1998: 00: 00: 00	1998	1999- 00001	Mal	29APR1948: 00: 00: 00	.
151 10	24SEP2001: 00: 00: 00	2001	2001- 00985	Fem	09AUG1950: 00: 00: 00	2
152 2	27DEC1999: 00: 00: 00	1999	2000- 00205	Fem	14AUG1948: 00: 00: 00	1
153 11	03OCT2001: 00: 00: 00	2001	2002- 00021	Fem	23FEB1950: 00: 00: 00	3
154 5	15JUN1999: 00: 00: 00	1999	1999- 00351	Fem	11OCT1947: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
133 No	3	49	640	Full duty	No	0	0
134 No	8	49	303	Full duty	No	0	0
135 No	4	49	620	Full duty	No	0	0
136 No	3	49	610	Full duty	No	0	0
137 No	3	49	620	Full duty	No	0	0
138 No	4	49	620		No	0	0
139 No	3	49	303	Full duty	No	0	0
140 No	3	49	305	Full duty	No	0	0



Appendix D: SAS Programs and Printouts (continued)

141	2	50	602		No	0	0
No							
142	.	50	5306	Full duty	No	0	0
No							
143	7	50	603			.	.
No							
144	8	50	610	Full duty	No	0	0
No							
145	0	50	620			0	0
No							
146	4	50	620	Full duty	No	0	0
No							
147	6	50	621	Full duty	No	0	0
No							
148	5	51	561	Full duty	No	0	0
No							
149	3	51	610	Full duty	No	0	0
No							
150	.	51	610			0	0
No							
151	2	51	303	Full duty	No	0	0
No							
152	0	51	610	Light duty	No	0	2
No							
153	2	52	303	Full duty	No	0	0
No							
154	7	52	679	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

March 11, 2003

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
155	16JAN2001: 00: 00: 00	2001	2001- 00252	Fem	28APR1949: 00: 00: 00	2
5						
156	08MAY2000: 00: 00: 00	2000	2000- 00486	Fem	05AUG1948: 00: 00: 00	2
5						
157	13AUG2001: 00: 00: 00	2001	2001- 00855	Fem	20AUG1949: 00: 00: 00	1
3						
158	30MAY2002: 00: 00: 00	2002	2002- 00571	Mal	23MAY1950: 00: 00: 00	2
5						
159	16JUL1999: 00: 00: 00	1999	1999- 00484	Mal	23JUN1947: 00: 00: 00	1
6						
160	05JUN2001: 00: 00: 00	2001	2001- 00672	Fem	16APR1949: 00: 00: 00	3
9						
161	10JUN1999: 00: 00: 00	1999	1999- 00341	Mal	03DEC1946: 00: 00: 00	3
8						
162	26JAN2001: 00: 00: 00	2001	2001- 00281	Fem	30MAY1948: 00: 00: 00	2
5						
163	04JAN1999: 00: 00: 00	1999	1999- 00003	Fem	24APR1946: 00: 00: 00	.
.						
164	04JAN1999: 00: 00: 00	1999	1999- 00005	Fem	24APR1946: 00: 00: 00	.
.						
165	04DEC2000: 00: 00: 00	2000	2001- 00159	Mal	15MAR1948: 00: 00: 00	1
3						
166	10FEB2000: 00: 00: 00	2000	2000- 00295	Mal	19MAY1947: 00: 00: 00	2
6						
167	04JUN1999: 00: 00: 00	1999	1999- 00343	Fem	30AUG1946: 00: 00: 00	1
10						
168	21MAR2000: 00: 00: 00	2000	2000- 00371	Fem	23MAR1947: 00: 00: 00	3
7						
169	30OCT2001: 00: 00: 00	2001	2002- 00107	Fem	15OCT1948: 00: 00: 00	0
0						
170	23JUL2002: 00: 00: 00	2002	2002- 00761	Mal	30JUN1949: 00: 00: 00	3
7						
171	31JUL2002: 00: 00: 00	2002	2002- 00731	Fem	06JUL1949: 00: 00: 00	2
4						
172	16MAY2000: 00: 00: 00	2000	2000- 00505	Fem	31MAR1947: 00: 00: 00	2
6						
173	09MAY2001: 00: 00: 00	2001	2001- 00591	Mal	23MAR1948: 00: 00: 00	2
5						
174	09DEC1999: 00: 00: 00	1999	2000- 00176	Fem	30AUG1946: 00: 00: 00	1
6						
175	07JUN2001: 00: 00: 00	2001	2001- 00670	Fem	02FEB1948: 00: 00: 00	2
5						
176	29MAY2001: 00: 00: 00	2001	2001- 00645	Mal	18JAN1948: 00: 00: 00	1
3						

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
155	6	52	620	Full duty	No	0	0
No							
156	8	52	610	Full duty	No	0	0
No							
157	7	52	610	Full duty	No	0	0
No							
158	8	52	610	Full duty	No	0	0
No							
159	3	52	83	Full duty	No	0	0
No							
160	8	52	303	Full duty	No	0	0
No							
161	3	53	83		No	0	0
No							
162	8	53	603	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

163	.	53	301			0	0
No							
164	.	53	301			0	0
No							
165	8	53	303	Full duty	No	0	0
No							
166	5	53	561	Full duty	No	0	0
No							
167	2	53	679	Full duty	No	0	0
No							
168	8	53	.		No	0	0
No							
169	0	53	610			0	0
No							
170	8	53	809	Full duty	No	0	0
No							
171	8	53	610	Full duty	No	0	0
No							
172	3	53	303	Full duty	No	0	0
No							
173	1	53	622	Full duty	No	0	0
No							
174	3	53	679	Full duty	No	0	0
No							
175	8	53	610	Full duty	No	0	0
No							
176	8	53	3566	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

March 11, 2003

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
177	13AUG2002: 00: 00: 00	2002	2002-00769	Fem	07JAN1949: 00: 00: 00	3
11						
178	11APR2001: 00: 00: 00	2001	2001-00477	Fem	13AUG1947: 00: 00: 00	2
5						
179	09AUG2000: 00: 00: 00	2000	2000-00794	Fem	30AUG1946: 00: 00: 00	0
0						
180	20MAR2002: 00: 00: 00	2002	2002-00453	Mal	23MAR1948: 00: 00: 00	2
5						
181	20SEP2000: 00: 00: 00	2000	2000-00797	Fem	02SEP1946: 00: 00: 00	1
3						
182	24MAY2000: 00: 00: 00	2000	2000-00525	Fem	24APR1946: 00: 00: 00	1
0						
183	24APR2002: 00: 00: 00	2002	2002-00477	Mal	23MAR1948: 00: 00: 00	2
6						
184	27FEB2002: 00: 00: 00	2002	2002-00364	Fem	18OCT1947: 00: 00: 00	3
9						
185	26FEB2002: 00: 00: 00	2002	2002-00363	Mal	14MAY1947: 00: 00: 00	3
7						
186	12APR2002: 00: 00: 00	2002	2002-00455	Mal	14MAY1947: 00: 00: 00	2
5						
187	03APR2000: 00: 00: 00	2000	2000-00414	Fem	04APR1945: 00: 00: 00	3
10						
188	28MAR2001: 00: 00: 00	2001	2001-00440	Fem	08JAN1946: 00: 00: 00	0
0						
189	19NOV2001: 00: 00: 00	2001	2002-00126	Fem	31AUG1946: 00: 00: 00	1
3						
190	30JUN2000: 00: 00: 00	2000	2000-00594	Fem	24NOV1944: 00: 00: 00	0
0						
191	30MAY2001: 00: 00: 00	2001	2001-00649	Fem	12OCT1945: 00: 00: 00	1
3						
192	10MAY2002: 00: 00: 00	2002	2002-00522	Fem	21AUG1946: 00: 00: 00	2
4						
193	08DEC1999: 00: 00: 00	1999	2000-00175	Fem	05MAR1944: 00: 00: 00	3
11						
194	28DEC1999: 00: 00: 00	1999	2000-00206	Fem	14JAN1944: 00: 00: 00	3
8						
195	29NOV1999: 00: 00: 00	1999	2000-00159	Fem	30JAN1943: 00: 00: 00	3
0						
196	29NOV1999: 00: 00: 00	1999	2000-00159A	Fem	30JAN1943: 00: 00: 00	3
0						
197	21JUN2001: 00: 00: 00	2001	2001-00701	Mal	07AUG1944: 00: 00: 00	1
2						
198	13JUL1999: 00: 00: 00	1999	1999-00445	Mal	16MAR1942: 00: 00: 00	1
3						

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
177	2	54	610	Full duty	No	0	0
No							
178	3	54	305	Full duty	No	0	0
No							
179	3	54	998	Full duty	No	0	0
No							
180	6	54	622	Full duty	No	0	0
No							
181	8	54	185	Full duty	No	0	0
No							
182	7	54	301	Full duty	No	0	0
No							
183	4	54	622	Full duty	No	0	0
No							
184	8	54	303	Full duty	No	0	0
No							
185	8	55	3806	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

186	3	55	3806	Full duty	No	0	0
No							
187	2	55	610	Full duty	No	0	0
No							
188	3	55	7408	Full duty	No	0	0
No							
189	4	55	303		No	0	0
No							
190	3	56	620	Full duty	No	0	0
No							
191	7	56	620	Full duty	No	0	0
No							
192	8	56	647	Full duty	No	0	0
No							
193	7	56	303	Full duty	No	0	0
No							
194	3	56	318	Full duty	No	0	0
No							
195	3	57	610	Full duty	No	0	0
No							
196	3	57	610	Full duty	No	0	0
No							
197	5	57	.	Full duty	No	0	0
No							
198	6	57	3566	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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March 11, 2003

14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
199 10	09MAR1999: 00: 00: 00	1999	1999-00099	Fem	09SEP1941: 00: 00: 00	3
200 2	16OCT2000: 00: 00: 00	2000	2001-00040	Fem	08FEB1943: 00: 00: 00	1
201 0	04APR1999: 00: 00: 00	1999	1999-00164	Fem	09JUN1941: 00: 00: 00	0
202 5	07DEC2000: 00: 00: 00	2000	2001-00175	Fem	08FEB1943: 00: 00: 00	2
203 0	03SEP1999: 00: 00: 00	1999	1999-00578	Mal	01OCT1941: 00: 00: 00	0
204 9	20FEB2002: 00: 00: 00	2002	2002-00350	Fem	15FEB1944: 00: 00: 00	3
205 3	03APR2002: 00: 00: 00	2002	2002-00438	Mal	21JAN1944: 00: 00: 00	1
206 2	28DEC2000: 00: 00: 00	2000	2001-00210	Fem	15SEP1942: 00: 00: 00	1
207 5	17DEC2001: 00: 00: 00	2001	2002-00182	Mal	16FEB1943: 00: 00: 00	2
208 6	27JUL1999: 00: 00: 00	1999	1999-00490	Fem	13SEP1940: 00: 00: 00	2
209 .	13MAR2002: 00: 00: 00	2002	2002-00394	Fem	05FEB1943: 00: 00: 00	.
210 9	04APR2000: 00: 00: 00	2000	2000-00416	Fem	05FEB1941: 00: 00: 00	3
211 11	22DEC2000: 00: 00: 00	2000	2001-00345	Mal	01OCT1941: 00: 00: 00	3
212 6	08MAY2000: 00: 00: 00	2000	2000-00489	Fem	05FEB1941: 00: 00: 00	2
213 4	29APR1999: 00: 00: 00	1999	1999-00227	Fem	31DEC1939: 00: 00: 00	2
214 3	08JAN2001: 00: 00: 00	2001	2001-00235	Fem	07JUL1941: 00: 00: 00	1
215 3	29MAY2001: 00: 00: 00	2001	2001-00646	Fem	02NOV1941: 00: 00: 00	1
216 3	12DEC1999: 00: 00: 00	1999	2000-00182	Fem	03MAY1940: 00: 00: 00	1
217 9	17APR2001: 00: 00: 00	2001	2001-00527	Fem	25JUN1941: 00: 00: 00	3
218 10	15FEB2001: 00: 00: 00	2001	2001-00327	Fem	20SEP1940: 00: 00: 00	1
219 5	11JUN2002: 00: 00: 00	2002	2002-00602	Fem	11AUG1941: 00: 00: 00	2
220 5	15JUN1999: 00: 00: 00	1999	1999-00361	Fem	29APR1938: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
199 No	2	58	.		No	0	0
200 No	9	58	7408	Full duty	No	0	0
201 No	0	58	610	Full duty	No	0	0
202 No	3	58	7408	Full duty	No	0	0
203 No	0	58	5402	Full duty	No	0	0
204 No	4	58	610	Full duty	No	0	0
205 No	6	58	605	Full duty	No	0	0
206 No	4	58	610	Light duty	No	0	2

Appendix D: SAS Programs and Printouts (continued)

207	8	59	5352	Full duty	No	0	0
No							
208	6	59	622	Full duty	No	0	0
No							
209	.	59	318			0	0
No							
210	7	59	620	Full duty	No	0	0
No							
211	8	59	5402	Full duty	No	0	0
No							
212	5	59	620	Full duty	No	0	0
No							
213	4	59	610	Full duty	No	0	0
No							
214	3	60	679	Full duty	No	0	0
No							
215	4	60	610	Full duty	No	0	0
No							
216	6	60	610	Full duty	No	0	0
No							
217	8	60	610	Full duty	No	0	0
No							
218	2	60	610		No	0	0
No							
219	2	61	303	Full duty	No	0	0
No							
220	3	61	3111	Full duty	No	0	0
No							

Appendix D: SAS Programs and Printouts (continued)

146 Nonparametric Test to compare mean age and affected work days  
 March 11, 2003 14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
11 221	12AUG1999: 00: 00: 00	1999	1999- 00530	Fem	19MAR1938: 00: 00: 00	3
5 222	02APR2001: 00: 00: 00	2001	2001- 00460	Fem	14SEP1939: 00: 00: 00	2
11 223	07OCT1999: 00: 00: 00	1999	2000- 00038	Mal	04JAN1938: 00: 00: 00	3
9 224	31DEC2001: 00: 00: 00	2001	2002- 00256	Mal	13MAR1940: 00: 00: 00	3
. 225	29MAY2002: 00: 00: 00	2002	2002- 00569	Fem	28MAY1940: 00: 00: 00	.
2 226	16FEB2000: 00: 00: 00	2000	2000- 00309	Fem	25DEC1937: 00: 00: 00	1
5 227	20NOV2001: 00: 00: 00	2001	2002- 00125	Fem	17AUG1937: 00: 00: 00	2
11 228	01FEB2001: 00: 00: 00	2001	2001- 00295	Mal	24JUL1936: 00: 00: 00	3
7 229	14APR1999: 00: 00: 00	1999	1999- 00194	Fem	25MAR1934: 00: 00: 00	3
0 230	06MAR2001: 00: 00: 00	2001	2001- 00392	Mal	22JUN1935: 00: 00: 00	3
0 231	23MAR2002: 00: 00: 00	2002	2002- 00413	Fem	01JAN1936: 00: 00: 00	0
. 232	17APR2002: 00: 00: 00	2002	2002- 00464	Fem	13MAY1931: 00: 00: 00	.
0 233	17FEB1999: 00: 00: 00	1999	1999- 00045	Fem	30JUN1927: 00: 00: 00	0
3 234	05JUN2001: 00: 00: 00	2001	2001- 00668	Fem	21JUN1929: 00: 00: 00	1
0 235	07MAY1999: 00: 00: 00	1999	1999- 00322	Fem	10APR1925: 00: 00: 00	0
5 236	09JUL1999: 00: 00: 00	1999	1999- 00430	Fem	03NOV1922: 00: 00: 00	2
11 237	23OCT2000: 00: 00: 00	2000	2001- 00061	Mal	04JUL1914: 00: 00: 00	3
3 238	24JAN2001: 00: 00: 00	2001	2001- 00270	Mal	24NOV1977: 00: 00: 00	1
3 239	26MAR1999: 00: 00: 00	1999	1999- 00145	Mal	30SEP1970: 00: 00: 00	1
3 240	25DEC2001: 00: 00: 00	2001	2002- 00242	Fem	18APR1971: 00: 00: 00	1
10 241	07AUG1999: 00: 00: 00	1999	1999- 00521	Mal	15OCT1968: 00: 00: 00	3
5 242	08AUG2000: 00: 00: 00	2000	2000- 00684	Fem	25AUG1969: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
No 221	9	61	322	Full duty	No	0	0
No 222	3	62	318	Full duty	No	0	0
No 223	8	62	802	Full duty	No	0	0
No 224	8	62	4102	Full duty	No	0	0
No 225	.	62	9999	Full duty	No	0	0
No 226	8	62	610	Full duty	No	0	0
No 227	3	64	648	Full duty	No	0	0
No 228	8	65	180	Full duty	No	0	0



Appendix D: SAS Programs and Printouts (continued)

229	8	65	620	Full duty	No	0	0
No							
230	0	66	4742	Full duty	No	0	0
No							
231	0	66	610	Full duty	No	0	0
No							
232	.	71	9999	Full duty	No	0	0
No							
233	0	72	.		No	0	0
No							
234	8	72	.	Full duty	No	0	0
No							
235	0	74	.	Full duty	No	0	0
No							
236	3	77	.	Full duty	No	0	0
No							
237	8	86	60		No	0	0
No							
238	1	23	679	Full duty	Yes	0	0
Yes							
239	8	29	640	Full duty	Yes	1	0
Yes							
240	5	31	620	Light duty	No	0	.
Yes							
241	2	31	601	Light duty	Yes	.	4
Yes							
242	8	31	3566	Light duty	No	5	5
Yes							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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March 11, 2003

14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
243 5	14SEP2001: 00: 00: 00	2001	2001-00965	Mal	24AUG1969: 00: 00: 00	2
244 10	18MAR2002: 00: 00: 00	2002	2002-00407	Fem	05MAY1969: 00: 00: 00	2
245 4	17MAR2001: 00: 00: 00	2001	2001-00421	Fem	25MAR1966: 00: 00: 00	2
246 0	16APR1999: 00: 00: 00	1999	1999-00201	Mal	25FEB1964: 00: 00: 00	0
247 0	16APR1999: 00: 00: 00	1999	1999-00201A	Mal	25FEB1964: 00: 00: 00	0
248 6	11MAR2002: 00: 00: 00	2002	2002-00378	Fem	12DEC1966: 00: 00: 00	1
249 0	17JUL2002: 00: 00: 00	2002	2002-00706	Fem	06AUG1966: 00: 00: 00	3
250 3	03MAR2001: 00: 00: 00	2001	2001-00381	Fem	06SEP1964: 00: 00: 00	1
251 3	30MAR2000: 00: 00: 00	2000	2000-00398	Fem	16SEP1963: 00: 00: 00	1
252 5	17MAY1999: 00: 00: 00	1999	1999-00269	Fem	23OCT1962: 00: 00: 00	2
253 0	29AUG2000: 00: 00: 00	2000	2000-00733	Fem	24JAN1964: 00: 00: 00	3
254 9	02JUL1999: 00: 00: 00	1999	1999-00415	Fem	21DEC1961: 00: 00: 00	3
255 3	31JUL2000: 00: 00: 00	2000	2000-00661	Mal	14JAN1963: 00: 00: 00	1
256 0	01MAR1999: 00: 00: 00	1999	1999-00077	Fem	13FEB1961: 00: 00: 00	0
257 0	01MAR1999: 00: 00: 00	1999	1999-00077A	Fem	13FEB1961: 00: 00: 00	1
258 3	17SEP1999: 00: 00: 00	1999	1999-00616	Fem	30JUN1961: 00: 00: 00	1
259 0	10APR2000: 00: 00: 00	2000	2000-00429	Fem	21DEC1961: 00: 00: 00	0
260 .	15AUG2002: 00: 00: 00	2002	2002-00772	Mal	14SEP1963: 00: 00: 00	.
261 5	01FEB2000: 00: 00: 00	2000	2000-00269	Mal	27FEB1961: 00: 00: 00	2
262 3	21DEC2000: 00: 00: 00	2000	2001-00202	Fem	10APR1961: 00: 00: 00	1
263 5	01MAR1999: 00: 00: 00	1999	1999-00078	Fem	18AUG1958: 00: 00: 00	2
264 3	16MAY1999: 00: 00: 00	1999	1999-00268	Fem	06JUN1958: 00: 00: 00	1

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
243 Yes	3	32	7408	Li ght duty	No	0	1
244 Yes	2	33	303	Li ght duty	No	0	.
245 Yes	4	35	620	Li ght duty	No	0	2
246 Yes	0	35	7408	Li ght duty	No	0	.
247 Yes	0	35	7408	Li ght duty	No	0	.
248 Yes	3	35	610	Li ght duty	No	0	.
249 Yes	3	36	620	Li ght duty	Yes	.	.
250 Yes	5	37	610		Yes	2	0

Appendix D: SAS Programs and Printouts (continued)

251 Yes	6	37	665		Yes	5	5
252 Yes	3	37	620	Light duty	Yes	3	0
253 Yes	3	37	303	Light duty	Yes	0	5
254 Yes	8	38	309	Light duty	No	0	0
255 Yes	8	38	3566	Light duty	No	0	0
256 Yes	0	38	621	Light duty	No	0	.
257 Yes	0	38	621	Light duty	Yes	.	3
258 Yes	4	38	620	Light duty	Yes	0	8
259 Yes	5	38	309	Light duty	No	0	.
260 Yes	.	39	679	Light duty	No	0	.
261 Yes	3	39	83	Light duty	No	0	0
262 Yes	3	40	660		Yes	.	0
263 Yes	7	41	610	Full duty	Yes	.	0
264 Yes	6	41	620	Light duty	No	0	3

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

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Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
265 0	18OCT1999: 00: 00: 00	1999	2000- 00036	Fem	15JUN1958: 00: 00: 00	0
266 3	26DEC1999: 00: 00: 00	1999	2000- 00204	Mal	01AUG1958: 00: 00: 00	1
267 10	02NOV2000: 00: 00: 00	2000	2001- 00084	Mal	09OCT1958: 00: 00: 00	2
268 5	07NOV2001: 00: 00: 00	2001	2002- 00103	Fem	18AUG1959: 00: 00: 00	2
269 11	16FEB2000: 00: 00: 00	2000	2000- 00307	Fem	22OCT1957: 00: 00: 00	3
270 2	26APR2001: 00: 00: 00	2001	2001- 00537	Fem	06JUN1958: 00: 00: 00	1
271 5	03MAY2002: 00: 00: 00	2002	2002- 00501	Fem	18DEC1958: 00: 00: 00	2
272 6	03APR2000: 00: 00: 00	2000	2000- 00410	Fem	28SEP1956: 00: 00: 00	2
273 1	23MAY2001: 00: 00: 00	2001	2001- 00633	Fem	19JUL1957: 00: 00: 00	1
274 6	21JUN2000: 00: 00: 00	2000	2000- 00596	Fem	23AUG1955: 00: 00: 00	2
275 11	28JUL2000: 00: 00: 00	2000	2000- 00659	Fem	08SEP1955: 00: 00: 00	3
276 2	09JUN2002: 00: 00: 00	2002	2002- 00596	Fem	04MAR1957: 00: 00: 00	1
277 11	08APR1999: 00: 00: 00	1999	1999- 00173	Fem	28DEC1953: 00: 00: 00	2
278 2	21SEP1999: 00: 00: 00	1999	1999- 00621	Fem	15MAR1954: 00: 00: 00	1
279 10	26JUL2001: 00: 00: 00	2001	2001- 00779	Fem	16JUL1955: 00: 00: 00	3
280 4	11SEP2000: 00: 00: 00	2000	2000- 00769	Fem	11FEB1954: 00: 00: 00	2
281 3	12FEB1999: 00: 00: 00	1999	1999- 00024	Fem	23MAR1952: 00: 00: 00	1
282 11	16AUG2002: 00: 00: 00	2002	2002- 00775	Fem	31JAN1955: 00: 00: 00	2
283 0	28OCT1999: 00: 00: 00	1999	2000- 00062	Fem	27MAR1952: 00: 00: 00	3
284 2	24MAY1999: 00: 00: 00	1999	1999- 00299	Fem	19MAR1951: 00: 00: 00	1
285 10	30JUL2001: 00: 00: 00	2001	2001- 00809	Mal	19APR1953: 00: 00: 00	3
286 3	08FEB2000: 00: 00: 00	2000	2000- 00291	Mal	30AUG1951: 00: 00: 00	1

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
265 Yes	6	41	525	Light duty	Yes	1	1
266 Yes	8	41	7408	Light duty	No	0	0
267 Yes	2	42	640	Light duty	Yes	1	.
268 Yes	3	42	334		Yes	5	0
269 Yes	3	42	3566	Light duty	No	0	.
270 Yes	4	43	620	Light duty	No	0	.
271 Yes	3	43	303	Full duty	Yes	.	0
272 Yes	3	44	682	Light duty	No	0	.

Appendix D: SAS Programs and Printouts (continued)

273	4	44	610	Light duty	Yes	.	2
Yes							
274	3	45	305	Light duty	No	0	4
Yes							
275	4	45	610	Light duty	Yes	0	15
Yes							
276	4	45	620	Light duty	No	0	.
Yes							
277	3	45	679	Full duty	Yes	1	0
Yes							
278	8	46	7408	Light duty	Yes	0	8
Yes							
279	2	46	7408	Light duty	No	0	.
Yes							
280	4	47	610	Full duty	Yes	.	0
Yes							
281	8	47	7408	Light duty	Yes	2	.
Yes							
282	4	48	610	Full duty	Yes	.	0
Yes							
283	3	48	610	Light duty	No	0	0
Yes							
284	3	48	690		Yes	.	0
Yes							
285	2	48	3566	Light duty	No	0	.
Yes							
286	4	48	621	Light duty	No	0	1
Yes							

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14:21 Tuesday,

March 11, 2003

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
287 2	06JAN2002: 00: 00: 00	2002	2002-00254A	Fem	22MAY1953: 00: 00: 00	1
288 2	06JAN2002: 00: 00: 00	2002	2002-00254B	Fem	22MAY1953: 00: 00: 00	1
289 6	17MAY1999: 00: 00: 00	1999	1999-00270	Fem	21APR1950: 00: 00: 00	1
290 6	17MAY1999: 00: 00: 00	1999	1999-00270A	Fem	21APR1950: 00: 00: 00	1
291 5	20APR2000: 00: 00: 00	2000	2000-00452	Fem	22NOV1950: 00: 00: 00	2
292 7	19JUL2001: 00: 00: 00	2001	2001-00752	Mal	02FEB1952: 00: 00: 00	3
293 3	12MAY1999: 00: 00: 00	1999	1999-00260	Fem	18NOV1949: 00: 00: 00	1
294 7	18SEP1999: 00: 00: 00	1999	2000-00003	Mal	17OCT1949: 00: 00: 00	3
295 6	06FEB2000: 00: 00: 00	2000	2000-00289	Mal	11OCT1949: 00: 00: 00	2
296 3	25JUL2000: 00: 00: 00	2000	2000-00654	Fem	09DEC1949: 00: 00: 00	1
297 4	15JUL1999: 00: 00: 00	1999	1999-00455	Fem	05AUG1948: 00: 00: 00	2
298 2	10OCT2000: 00: 00: 00	2000	2001-00021	Mal	11OCT1949: 00: 00: 00	1
299 2	01OCT1999: 00: 00: 00	1999	2000-00002	Mal	21AUG1948: 00: 00: 00	1
300 4	23NOV1999: 00: 00: 00	1999	2000-00148	Fem	14AUG1948: 00: 00: 00	2
301 5	25JAN2001: 00: 00: 00	2001	2001-00273	Fem	03OCT1949: 00: 00: 00	2
302 3	21JUL1999: 00: 00: 00	1999	1999-00481	Mal	31JAN1948: 00: 00: 00	1
303 0	11FEB2000: 00: 00: 00	2000	2000-00303	Fem	21JAN1948: 00: 00: 00	3
304 3	15MAY2001: 00: 00: 00	2001	2001-00606	Fem	15APR1949: 00: 00: 00	1
305 5	17FEB2000: 00: 00: 00	2000	2000-00315	Mal	10JAN1948: 00: 00: 00	2
306 9	25SEP2000: 00: 00: 00	2000	2000-00815	Fem	07FEB1948: 00: 00: 00	3
307 6	18JAN2000: 00: 00: 00	2000	2000-00247	Fem	13NOV1946: 00: 00: 00	2
308 11	07MAY1999: 00: 00: 00	1999	1999-00244	Fem	12FEB1946: 00: 00: 00	3

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
287 Yes	4	49	620	Light duty	Yes	.	.
288 Yes	4	49	620	Light duty	Yes	.	.
289 Yes	3	49	610	Light duty	No	0	1
290 Yes	3	49	610	Light duty	No	0	3
291 Yes	8	49	620	Light duty	Yes	0	9
292 Yes	8	49	2005	Light duty	No	5	5
293 Yes	4	50	679	Full duty	Yes	.	0
294 Yes	8	50	622	Light duty	No	0	.
295 Yes	5	50	3566	Light duty	No	0	2

Appendix D: SAS Programs and Printouts (continued)

296 Yes	2	51	645		Yes	18	0
297 Yes	4	51	610	Light duty	No	0	0
298 Yes	1	51	3566	Light duty	Yes	.	.
299 Yes	6	51	185	Light duty	No	0	.
300 Yes	8	51	610	Light duty	No	0	.
301 Yes	3	51	3566	Light duty	No	0	2
302 Yes	1	52	661	Full duty	Yes	.	0
303 Yes	4	52	610	Light duty	No	0	.
304 Yes	4	52	620	Light duty	No	0	2
305 Yes	4	52	303	Light duty	Yes	.	.
306 Yes	5	53	303	Light duty	No	0	.
307 Yes	6	53	309	Light duty	No	0	.
308 Yes	4	53	640	Light duty	No	0	.

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
309	11NOV1999: 00: 00: 00	1999	2000-00094	Fem	23MAY1946: 00: 00: 00	1
310	05AUG2002: 00: 00: 00	2002	2002-00742	Mal	25MAR1948: 00: 00: 00	2
311	03NOV2001: 00: 00: 00	2001	2002-00092	Fem	05MAR1947: 00: 00: 00	2
312	14AUG2001: 00: 00: 00	2001	2001-00862	Fem	28MAR1946: 00: 00: 00	2
313	25JUL2002: 00: 00: 00	2002	2002-00716	Fem	18SEP1946: 00: 00: 00	2
314	25OCT2000: 00: 00: 00	2000	2001-00064	Fem	24NOV1944: 00: 00: 00	2
315	01JUN1999: 00: 00: 00	1999	1999-00313	Fem	09MAY1943: 00: 00: 00	2
316	25SEP1999: 00: 00: 00	1999	1999-00627	Fem	24AUG1943: 00: 00: 00	3
317	18AUG2000: 00: 00: 00	2000	2000-00711	Fem	10FEB1944: 00: 00: 00	3
318	06MAY2002: 00: 00: 00	2002	2002-00504	Mal	26JUN1945: 00: 00: 00	3
319	21JUN1999: 00: 00: 00	1999	1999-00375	Fem	21JAN1942: 00: 00: 00	1
320	03AUG2001: 00: 00: 00	2001	2001-00861	Fem	10DEC1943: 00: 00: 00	3
321	09DEC2000: 00: 00: 00	2000	2001-00182	Fem	24MAY1942: 00: 00: 00	1
322	24AUG1999: 00: 00: 00	1999	1999-00553	Fem	12SEP1940: 00: 00: 00	3
323	17JAN2001: 00: 00: 00	2001	2001-00259	Fem	16OCT1941: 00: 00: 00	2
324	04AUG2000: 00: 00: 00	2000	2000-00686	Fem	03APR1941: 00: 00: 00	3
325	27JAN2000: 00: 00: 00	2000	2000-00261	Fem	02SEP1940: 00: 00: 00	2
326	05SEP1999: 00: 00: 00	1999	1999-00584	Mal	13MAR1940: 00: 00: 00	1
327	12JUL2002: 00: 00: 00	2002	2002-00682	Fem	21JAN1942: 00: 00: 00	1
328	30APR2001: 00: 00: 00	2001	2001-00545	Mal	15JUL1940: 00: 00: 00	1
329	13AUG2000: 00: 00: 00	2000	2000-00695	Fem	08SEP1938: 00: 00: 00	2
330	11SEP2000: 00: 00: 00	2000	2000-00770	Fem	24FEB1938: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
309 Yes	6	54	610	Light duty	No	0	0
310 Yes	3	54	5703		Yes	.	.
311 Yes	5	55	621	Full duty	Yes	.	0
312 Yes	0	55	303			0	1
313 Yes	8	56	646		Yes	.	.
314 Yes	7	56	620	Light duty	Yes	.	.
315 Yes	5	56	303	Full duty	Yes	2	0
316 Yes	6	56	620	Light duty	No	0	0



Appendix D: SAS Programs and Printouts (continued)

317 Yes	4	57	620	Li ght duty	No	0	2
318 Yes	2	57	4204	Li ght duty	No	0	.
319 Yes	6	57	610	Li ght duty	Yes	0	.
320 Yes	3	58	610	Li ght duty	Yes	.	.
321 Yes	6	59	610	Li ght duty	No	0	2
322 Yes	2	59	318	Full duty	Yes	.	0
323 Yes	3	59	601	Li ght duty	Yes	0	.
324 Yes	7	59	661	Li ght duty	No	0	.
325 Yes	5	59	620	Li ght duty	No	0	5
326 Yes	8	60	4102	Li ght duty	No	0	.
327 Yes	5	61	610	Li ght duty	No	0	.
328 Yes	3	61	621		Yes	.	.
329 Yes	6	62	610	Li ght duty	Yes	.	.
330 Yes	6	63	610	Li ght duty	Yes	.	.

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

March 11, 2003

Obs cause	DATE	year	CASENUMBER	SEX	DOB	type
331 5	11APR2000: 00: 00: 00	2000	2000-00435	Fem	12NOV1936: 00: 00: 00	2
332 9	20APR2000: 00: 00: 00	2000	2000-00457	Mal	15MAY1935: 00: 00: 00	3
333 6	18NOV1999: 00: 00: 00	1999	2000-00158	Mal	03JAN1934: 00: 00: 00	2
334 4	23MAR2002: 00: 00: 00	2002	2002-00411	Fem	01JAN1936: 00: 00: 00	2
335 5	03MAR1999: 00: 00: 00	1999	1999-00085	Fem	04JUL1931: 00: 00: 00	2

Obs lightlost	LOCATION	age	occup	returnduty	losttime	numlost	numlight
331 Yes	.	63	621	Light duty	No	0	.
332 Yes	8	65	305	Light duty	No	3	5
333 Yes	6	66	3566	Light duty	No	0	5
334 Yes	4	66	610	Light duty	Yes	.	.
335 Yes	3	68	610		Yes	39	0

Appendix D: SAS Programs and Printouts (continued)

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Nonparametric Test to compare mean age and affected work days

14: 21 Tuesday,

March 11, 2003

The FREQ Procedure

LOCATION

LOCATION	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	28	9.09	28	9.09
1	6	1.95	34	11.04
2	29	9.42	63	20.45
3	68	22.08	131	42.53
4	39	12.66	170	55.19
5	19	6.17	189	61.36
6	27	8.77	216	70.13
7	14	4.55	230	74.68
8	73	23.70	303	98.38
9	5	1.62	308	100.00

Frequency Missing = 27

Appendix D: SAS Programs and Printouts (continued)

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Nonparametric Test to compare mean age and affected work days

14: 21 Tuesday,

March 11, 2003

The FREQ Procedure

age

age	Frequency	Percent	Cumulative Frequency	Cumulative Percent
16	1	0.30	1	0.30
19	1	0.30	2	0.60
20	3	0.90	5	1.49
21	2	0.60	7	2.09
23	2	0.60	9	2.69
27	2	0.60	11	3.28
28	2	0.60	13	3.88
29	5	1.49	18	5.37
30	4	1.19	22	6.57
31	5	1.49	27	8.06
32	7	2.09	34	10.15
33	2	0.60	36	10.75
34	3	0.90	39	11.64
35	5	1.49	44	13.13
36	1	0.30	45	13.43
37	8	2.39	53	15.82
38	10	2.99	63	18.81
39	3	0.90	66	19.70
40	4	1.19	70	20.90
41	10	2.99	80	23.88
42	11	3.28	91	27.16
43	12	3.58	103	30.75
44	14	4.18	117	34.93
45	10	2.99	127	37.91
46	10	2.99	137	40.90
47	12	3.58	149	44.48
48	14	4.18	163	48.66
49	19	5.67	182	54.33
50	11	3.28	193	57.61
51	14	4.18	207	61.79
52	13	3.88	220	65.67
53	21	6.27	241	71.94
54	11	3.28	252	75.22
55	7	2.09	259	77.31
56	9	2.69	268	80.00
57	7	2.09	275	82.09
58	9	2.69	284	84.78
59	15	4.48	299	89.25
60	6	1.79	305	91.04
61	5	1.49	310	92.54
62	6	1.79	316	94.33
63	2	0.60	318	94.93
64	1	0.30	319	95.22

Appendix D: SAS Programs and Printouts (continued)

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Nonparametric Test to compare mean age and affected work days

14: 21 Tuesday,

March 11, 2003

The FREQ Procedure

age

age	Frequency	Percent	Cumulative Frequency	Cumulative Percent
65	4	1.19	323	96.42
66	4	1.19	327	97.61
68	1	0.30	328	97.91
71	1	0.30	329	98.21
72	2	0.60	331	98.81
74	1	0.30	332	99.10
77	1	0.30	333	99.40
86	1	0.30	334	99.70
87	1	0.30	335	100.00

Appendix D: SAS Programs and Printouts (continued)

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Nonparametric Test to compare mean age and lost time

14: 21 Tuesday,

March 11, 2003

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable age  
Classified by Variable losttime

losttime	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
No	246	36726.0	36285.0	538.472082	149.292683
Yes	48	6639.0	7080.0	538.472082	138.312500

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic 6639.0000

Normal Approximation

Z -0.8181  
One-Sided Pr < Z 0.2067  
Two-Sided Pr > |Z| 0.4133

t Approximation

One-Sided Pr < Z 0.2070  
Two-Sided Pr > |Z| 0.4140

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square 0.6707  
DF 1  
Pr > Chi-Square 0.4128

Appendix D: SAS Programs and Printouts (continued)

Nonparametric Test to compare mean age and affected work days

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14: 21 Tuesday,

March 11, 2003

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable age  
Classified by Variable lightlost

lightlost	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
.	24	4261.50	4032.0	456.880483	177.562500
No	213	35952.00	35784.0	852.484532	168.788732
Yes	98	16066.50	16464.0	805.942395	163.943878

Average scores were used for ties.

Kruskal-Wallis Test

Chi-Square            0.4205  
DF                     2  
Pr > Chi-Square    0.8104

Appendix D: SAS Programs and Printouts (continued)