

```
appsrv01.srv> ls
senic0.sas  senic.dat
appsrv01.srv> sas senic0
appsrv01.srv> ls
senic0.log  senic0.lst  senic0.sas  senic.dat
appsrv01.srv>
appsrv01.srv> cat senic0.log
1
The SAS System
13:59 Sunday, September 5, 2007

NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)
      Licensed to UNIVERSITY OF TORONTO/COMPUTING & COMMUNICATIONS, Site 0008987001.
NOTE: This session is executing on the Linux 2.6.8.1-smp-athlon-bk platform.
```

This message is contained in the SAS news file, and is presented upon initialization. Edit the files "news" in the "misc/base" directory to display site-specific news and information in the program log.
The command line option "-nonews" will prevent this display.

```
NOTE: SAS initialization used:
      real time          0.03 seconds
      cpu time          0.00 seconds

1      /* senic0.sas */
2      data simple;
3          infile 'senic.dat';
4          input id stay age infrisk culratio xratio nbeds medschl
5              region census nurses service;

NOTE: The infile 'senic.dat' is:
      File Name=/homes/students/u0/stats/brunner/senic.dat,
      Owner Name=brunner, Group Name=stats,
      Access Permission=rw-r----,
      File Size (bytes)=5989

NOTE: 113 records were read from the infile 'senic.dat'.
      The minimum record length was 52.
      The maximum record length was 52.
NOTE: The data set WORK.SIMPLE has 113 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.00 seconds
      cpu time          0.02 seconds

6      proc freq;
7          tables _all_;
8
NOTE: There were 113 observations read from the data set WORK.SIMPLE.
NOTE: The PROCEDURE FREQ printed pages 1-20.
NOTE: PROCEDURE FREQ used:
      real time          0.02 seconds
```

cpu time 0.01 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

NOTE: The SAS System used:

real time 0.11 seconds
cpu time 0.03 seconds

appsrv01.srv>

appsrv01.srv> less senic0.lst

The SAS System

13:59 Sunday, September 5, 2007 1

The FREQ Procedure

Cumulative Percent	id	Frequency	Percent	Cumulative Frequency
0.88	1	1	0.88	1
1.77	2	1	0.88	2
2.65	3	1	0.88	3
3.54	4	1	0.88	4
4.42	5	1	0.88	5
5.31	6	1	0.88	6
6.19	7	1	0.88	7
7.08	8	1	0.88	8
7.96	9	1	0.88	9
8.85	10	1	0.88	10
9.73	11	1	0.88	11
10.62	12	1	0.88	12
11.50	13	1	0.88	13
12.39	14	1	0.88	14
13.27	15	1	0.88	15
14.16	16	1	0.88	16
	17	1	0.88	17

:

```

appsrv01.srv>
appsrv01.srv> cp senic0.sas senic0.1.sas
appsrv01.srv> emacs senic0.1.sas

appsrv01.srv> cat senic0.1.sas

/* senic0.1.sas */
options linesize = 79;
data simple;
  infile 'senic.dat';
  input id stay age infrisk culratio xratio nbeds medschl
        region census nurses service;

/** sas doesn't like numeric missing value codes. a period . is
   best for missing. however .... **/

if stay eq 9999 then stay = . ;
if age eq 9999 then age = . ;
if xratio eq 9999 then xratio = . ;
if culratio eq 9999 then culratio = . ;
if infrisk = 999 then infrisk = . ;
if nbeds = 9 then nbeds = . ;
if medschl = 9 then medschl = . ;
if region = 9 then region = . ;
if census = 9 then census = . ;
if service = 9 then service = . ;
if nurses eq (0 or .999) then nurses = . ;

proc freq;
  tables _all_;

```

```

appsrv01.srv> sas senic0.1.lst
appsrv01.srv> less senic0.1.log
appsrv01.srv> less senic0.1.lst

```

The SAS System 1
 14:21 Sunday, September 5, 2007

The FREQ Procedure

id	Frequency	Percent	Cumulative	Cumulative
			Frequency	Percent
1	1	0.88	1	0.88
2	1	0.88	2	1.77
3	1	0.88	3	2.65
4	1	0.88	4	3.54
5	1	0.88	5	4.42
6	1	0.88	6	5.31
7	1	0.88	7	6.19
8	1	0.88	8	7.08
9	1	0.88	9	7.96
10	1	0.88	10	8.85

11	1	0.88	11	9.73
12	1	0.88	12	10.62
13	1	0.88	13	11.50
14	1	0.88	14	12.39
15	1	0.88	15	13.27

Skipping some lines ...

50	1	0.88	50	44.25
51	1	0.88	51	45.13
52	1	0.88	52	46.02

^L
2

The SAS System

14:21 Sunday, September 5, 2007

The FREQ Procedure

id	Frequency	Percent	Cumulative	Cumulative
			Frequency	Percent
53	1	0.88	53	46.90
54	1	0.88	54	47.79
55	1	0.88	55	48.67
56	1	0.88	56	49.56
57	1	0.88	57	50.44
58	1	0.88	58	51.33
59	1	0.88	59	52.21
60	1	0.88	60	53.10
61	1	0.88	61	53.98
62	1	0.88	62	54.87
63	1	0.88	63	55.75
64	1	0.88	64	56.64

And so on. Some of the frequency distributions are less ugly

The FREQ Procedure

medsch1	Frequency	Percent	Cumulative	Cumulative
			Frequency	Percent
1	17	15.04	17	15.04
2	96	84.96	113	100.00

region	Frequency	Percent	Cumulative	Cumulative
			Frequency	Percent
1	29	25.66	29	25.66
2	32	28.32	61	53.98
3	36	31.86	97	85.84
4	16	14.16	113	100.00

```

***** senicread.sas just reads and labels SENIC data ****
*
* Reading from the data file senic.raw, in which the variables are in *
* fixed columns and missing data are represented by blanks. *
*
*****
title 'Study of the Effectiveness of Nosocomial Infection Control';
options linesize=79 noovp formdlim='_' ;

proc format; /* value labels used in data step below */
  value yesnofmt 1 = 'Yes' 2 = 'No' ;
  value regfmt 1 = 'Northeast'
    2 = 'North Central'
    3 = 'South'
    4 = 'West' ;
  value acatfmt 1 = '53 & under' 2 = 'Over 53';

data senic;
  infile 'senic.raw' n=1 missover ;
    /* n=1 lines of data per case (unnecessary here) */
    /* missover helps blank=missing to be done properly at end of line */
  input
    #1 id      1-5
    stay    7-11
    age     13-16
    infrisk 18-20
    culratio 22-25
    xratio   27-31
    nbeds   33-35
    medschl 37
    region  39
    census  41-43
    nurses   45-47
    service  49-52 ;
  label id      = 'Hospital identification number'
    stay    = 'Av length of hospital stay, in days'
    age     = 'Average patient age'
    infrisk = 'Prob of acquiring infection in hospital'
    culratio = '# cultures / # no hosp acq infect'
    xratio   = '# x-rays / # no signs of pneumonia'
    nbeds   = 'Average # beds during study period'
    medschl = 'Medical school affiliation'
    region  = 'Region of country (usa)'
    census  = 'Aver # patients in hospital per day'
    nurses   = 'Aver # nurses during study period'
    service  = '% of 35 potential facil. & services' ;
  /* associating variables with their value labels */
  format medschl yesnofmt. ;
  format region regfmt. ;

  ***** recodes, computes & ifs ****

if 0<age<=53 then agecat=1;
else if age>53 then agecat=2;
label agecat = 'av patient age category';

```

Study of the Effectiveness of Nosocomial Infection Control 1
Descriptive Statistics
Frequency distributions of categorical variables
14:58 Sunday, September 5, 2007

The FREQ Procedure

Medical school affiliation

medschl	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	17	15.04	17	15.04
No	96	84.96	113	100.00

Region of country (usa)

region	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Northeast	29	25.66	29	25.66
North Central	32	28.32	61	53.98
South	36	31.86	97	85.84
West	16	14.16	113	100.00

av patient age category

agecat	Frequency	Percent	Cumulative Frequency	Cumulative Percent
53 & under	56	49.56	56	49.56
Over 53	57	50.44	113	100.00

Study of the Effectiveness of Nosocomial Infection Control

2

Descriptive Statistics

Means and SDs of quantitative variables

14:58 Sunday, September 5, 2007

The MEANS Procedure

Variable	Label	N	Mean
stay	Av length of hospital stay, in days	113	9.6483186
age	Average patient age	113	53.2318584
infrisk	Prob of acquiring infection in hospital	113	4.3548673
culratio	# cultures / # no hosp acq infect	113	15.6840708
xratio	# x-rays / # no signs of pneumonia	113	81.6300885
nbeds	Average # beds during study period	113	252.1769912
census	Aver # patients in hospital per day	113	191.3716814
nurses	Aver # nurses during study period	113	173.2477876
service	% of 35 potential facil. & services	113	43.1548673

Variable	Label	Std Dev
stay	Av length of hospital stay, in days	1.9114560
age	Average patient age	4.4616074
infrisk	Prob of acquiring infection in hospital	1.3409080
culratio	# cultures / # no hosp acq infect	10.1830441
xratio	# x-rays / # no signs of pneumonia	19.3667373
nbeds	Average # beds during study period	192.8451558
census	Aver # patients in hospital per day	153.7595639
nurses	Aver # nurses during study period	139.2653897
service	% of 35 potential facil. & services	15.2001879

Study of the Effectiveness of Nosocomial Infection Control 3
Descriptive Statistics
Describe Quantitative Variables in More Detail
14:58 Sunday, September 5, 2007

The UNIVARIATE Procedure
Variable: stay (Av length of hospital stay, in days)

Moments

N	113	Sum Weights	113
Mean	9.64831858	Sum Observations	1090.26
Std Deviation	1.91145602	Variance	3.65366411
Skewness	2.06891744	Kurtosis	8.07748986
Uncorrected SS	10928.3862	Corrected SS	409.210381
Coeff Variation	19.8112863	Std Error Mean	0.17981466

Basic Statistical Measures

	Location	Variability	
Mean	9.648319	Std Deviation	1.91146
Median	9.420000	Variance	3.65366
Mode	7.140000	Range	12.86000
		Interquartile Range	2.13000

Tests for Location: Mu0=0

Test	-Statistic-	-----p Value-----
Student's t	t 53.65702	Pr > t <.0001
Sign	M 56.5	Pr >= M <.0001
Signed Rank	S 3220.5	Pr >= S <.0001

Tests for Normality

Test	--Statistic---	-----p Value-----
Shapiro-Wilk	W 0.853032	Pr < W <0.0001
Kolmogorov-Smirnov	D 0.086861	Pr > D 0.0357
Cramer-von Mises	W-Sq 0.289727	Pr > W-Sq <0.0050
Anderson-Darling	A-Sq 2.228908	Pr > A-Sq <0.0050

Quantiles (Definition 5)

Quantile	Estimate
100% Max	19.56
99%	17.94
95%	12.07

90%	11.48
75% Q3	10.47
50% Median	9.42
25% Q1	8.34
10%	7.67
5%	7.14

Study of the Effectiveness of Nosocomial Infection Control

4

Descriptive Statistics

Describe Quantitative Variables in More Detail

14:58 Sunday, September 5, 2007

The UNIVARIATE Procedure

Variable: stay (Av length of hospital stay, in days)

Quantiles (Definition 5)

Quantile	Estimate
----------	----------

1%	7.08
0% Min	6.70

Extreme Observations

-----Lowest-----	-----Highest-----
------------------	-------------------

Value	Obs	Value	Obs
6.70	76	12.78	13
7.08	72	13.59	34
7.13	1	13.95	104
7.14	107	17.94	112
7.14	103	19.56	47

Stem Leaf	#	Boxplot
19 6	1	*
19		
18		
18		
17 9	1	*
17		
16		
16		
15		
15		
14		
14 0	1	0
13 6	1	
13		
12 8	1	
12 01	2	
11 556688	6	

11	0112222244	10	
10	577889	6	+-----+
10	000122223344	12	
9	55677788888899	14	+ +
9	000122344444	12	*-----*
8	556677888999999	15	
8	0001222333344	13	+-----+
7	56667788999	11	
7	111114	6	
6	7	1	
-----+-----+-----+			

Study of the Effectiveness of Nosocomial Infection Control
Descriptive Statistics

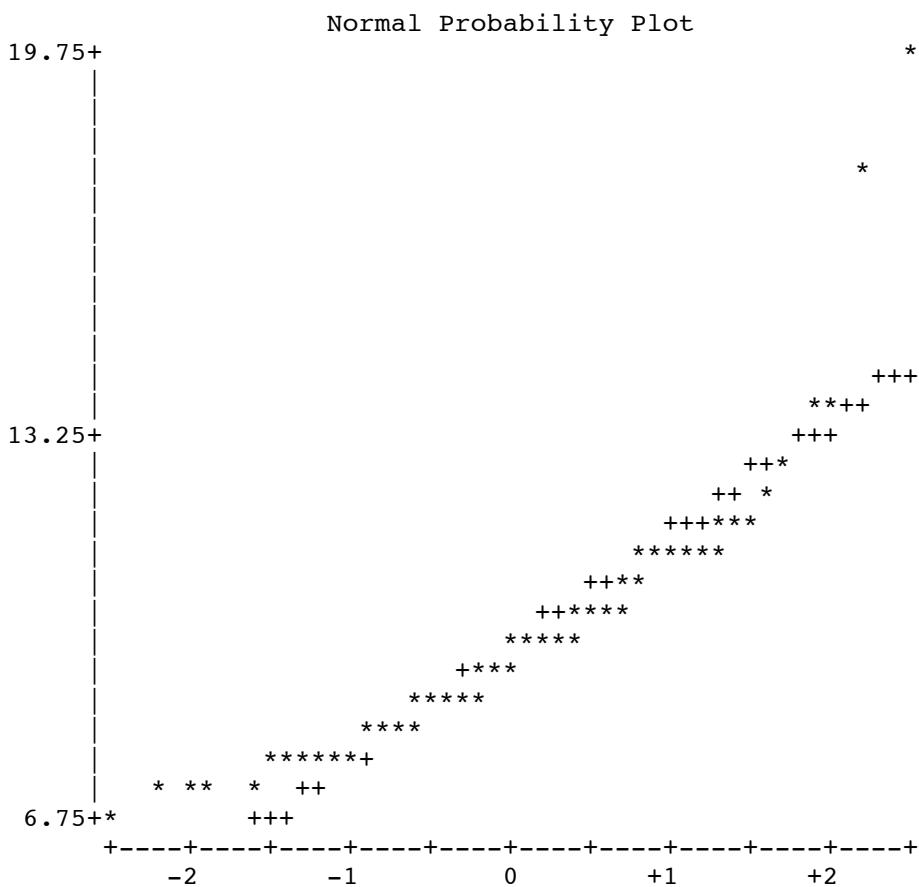
5

Describe Quantitative Variables in More Detail

14:58 Sunday, September 5, 2007

The UNIVARIATE Procedure

Variable: stay (Av length of hospital stay, in days)



```

***** basicsenic.sas *****/
/*
Elementary tests on SENIC Data
*/
***** basicsenicread.sas *****/
%include 'senicread.sas'; /* senicread.sas reads data, etc. */
title2 'Elementary tests on SENIC Data';

proc freq;
  title3 'Use proc freq to do crosstabs with chisquare test';
  tables region*medschl / nocol nopercnt expected chisq;
proc ttest;
  title3 'T-test: Less risk at Hospitals with Med School Affiliation?';
  class medschl;
  var infrisk age ;
proc glm;
  title3 'One-way anova with proc glm';
  class region;
  model infrisk=region;
  means region / ;
proc plot;
  title3 'Scatterplot';
  plot infrisk * nurses
    infrisk * nurses = medschl;
proc corr;
  title3 'Correlation Matrix';
  var stay -- nbeds census nurses service;
proc glm;
  title3 'Simple regression with proc glm';
  model infrisk=nurses;

cat basicsenic.lst

```

1

Study of the Effectiveness of Nosocomial Infection Control
 Elementary tests on SENIC Data
 Use proc freq to do crosstabs with chisquare test
 15:13 Sunday, September 5, 2007

The FREQ Procedure

Table of region by medschl

	region(Region of country (usa))		medschl(Medical school affiliation)
Frequency	Yes	No	Total
Northeast	6	23	29
	4.3628	24.637	
	20.69	79.31	

North Central	7	25	32
	4.8142	27.186	
	21.88	78.13	
-----+-----+-----+-----+			
South	2	34	36
	5.4159	30.584	
	5.56	94.44	
-----+-----+-----+-----+			
West	2	14	16
	2.4071	13.593	
	12.50	87.50	
-----+-----+-----+-----+			
Total	17	96	113

Statistics for Table of region by medschl

Statistic	DF	Value	Prob
Chi-Square	3	4.5084	0.2115
Likelihood Ratio Chi-Square	3	5.0108	0.1710
Mantel-Haenszel Chi-Square	1	2.3105	0.1285
Phi Coefficient		0.1997	
Contingency Coefficient		0.1959	
Cramer's V		0.1997	

WARNING: 38% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 113

Study of the Effectiveness of Nosocomial Infection Control 2
 Elementary tests on SENIC Data
 T-test: Less risk at Hospitals with Med School Affiliation?
 15:13 Sunday, September 5, 2007

The TTEST Procedure

Statistics

Variable	medschl	Lower CL		Upper CL		Lower CL	
		N	Mean	Mean	Mean	Std Dev	Std Dev
infrisk	Yes	17	4.5223	5.0941	5.6659	0.8283	1.1121
infrisk	No	96	3.9524	4.224	4.4955	1.1738	1.3403
infrisk	Diff (1-2)		0.1872	0.8702	1.5531	1.1579	1.3099
age	Yes	17	50.061	51.7	53.339	2.3745	3.1883
age	No	96	52.569	53.503	54.437	4.0383	4.611
age	Diff (1-2)		-4.115	-1.803	0.509	3.9198	4.4342

Statistics

Variable	medschl	Upper CL		Minimum	Maximum
		Std Dev	Std Err		
infrisk	Yes	1.6926	0.2697	2.9	7.7
infrisk	No	1.5622	0.1368	1.3	7.8
infrisk	Diff (1-2)	1.5081	0.3447		
age	Yes	4.8523	0.7733	44.2	56.8
age	No	5.3746	0.4706	38.8	65.9
age	Diff (1-2)	5.1053	1.1668		

T-Tests

Variable	Method	Variances	DF	t Value	Pr > t
infrisk	Pooled	Equal	111	2.52	0.0130
infrisk	Satterthwaite	Unequal	25	2.88	0.0081
age	Pooled	Equal	111	-1.55	0.1251
age	Satterthwaite	Unequal	29.4	-1.99	0.0557

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
infrisk	Folded F	95	16	1.45	0.4026
age	Folded F	95	16	2.09	0.0957

Study of the Effectiveness of Nosocomial Infection Control 3
Elementary tests on SENIC Data
One-way anova with proc glm
15:13 Sunday, September 5, 2007

The GLM Procedure

Class Level Information

Class	Levels	Values
region	4	North Central Northeast South West
		Number of observations 113

Study of the Effectiveness of Nosocomial Infection Control 4
Elementary tests on SENIC Data
One-way anova with proc glm
15:13 Sunday, September 5, 2007

The GLM Procedure

Dependent Variable: infrisk Prob of acquiring infection in hospital

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	17.5750218	5.8583406	3.47	0.0186
Error	109	183.8048012	1.6862826		
Corrected Total	112	201.3798230			
		R-Square	Coeff Var	Root MSE	infrisk Mean
		0.087273	29.81881	1.298569	4.354867
Source	DF	Type I SS	Mean Square	F Value	Pr > F
region	3	17.57502176	5.85834059	3.47	0.0186
Source	DF	Type III SS	Mean Square	F Value	Pr > F
region	3	17.57502176	5.85834059	3.47	0.0186

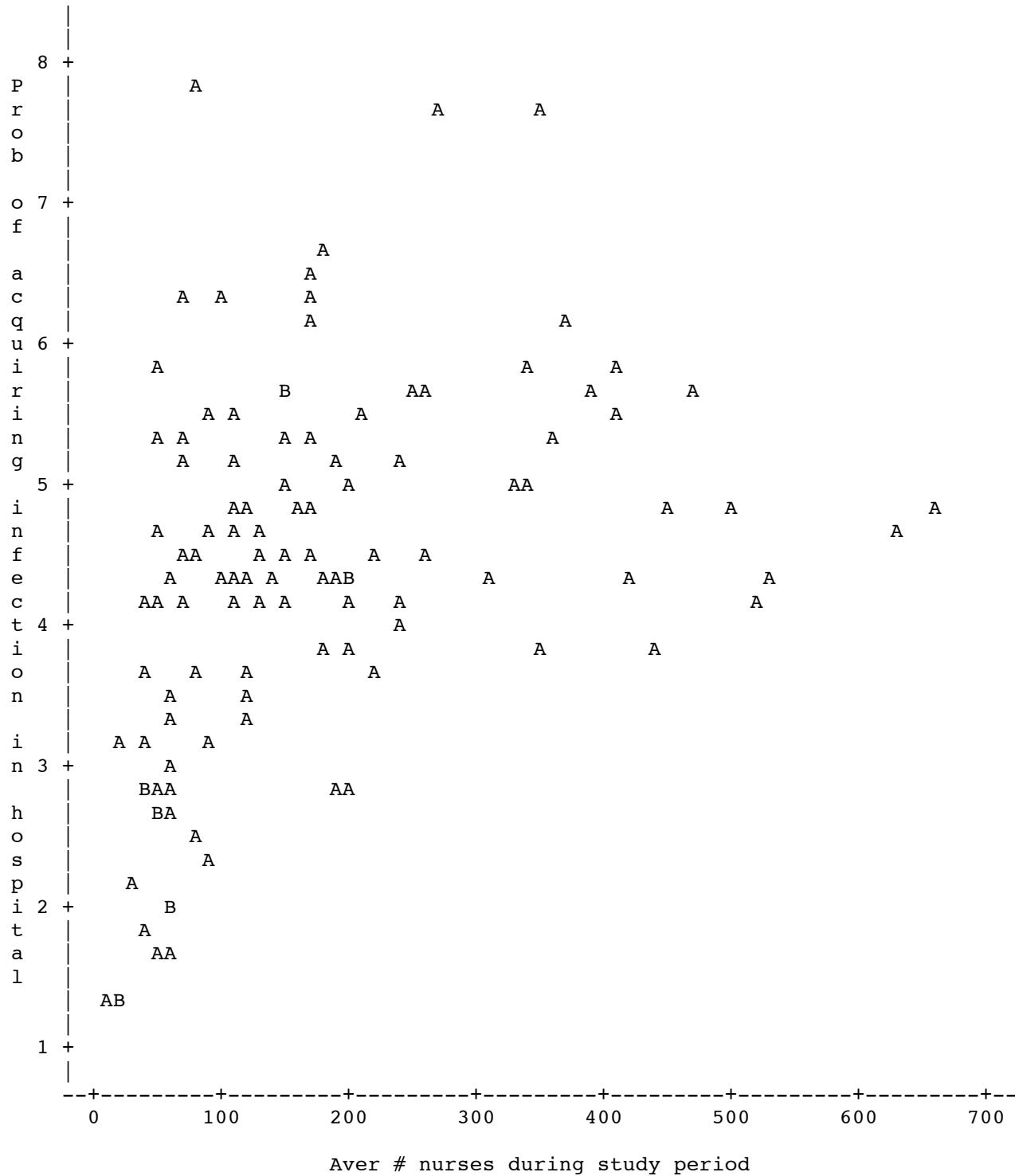
Study of the Effectiveness of Nosocomial Infection Control 5
 Elementary tests on SENIC Data
 One-way anova with proc glm
 15:13 Sunday, September 5, 2007

The GLM Procedure

Level of region	N	-----infrisk-----	
		Mean	Std Dev
North Central	32	4.39375000	1.33921920
Northeast	29	4.90689655	1.27277285
South	36	3.86388889	1.42751588
West	16	4.38125000	0.87652248

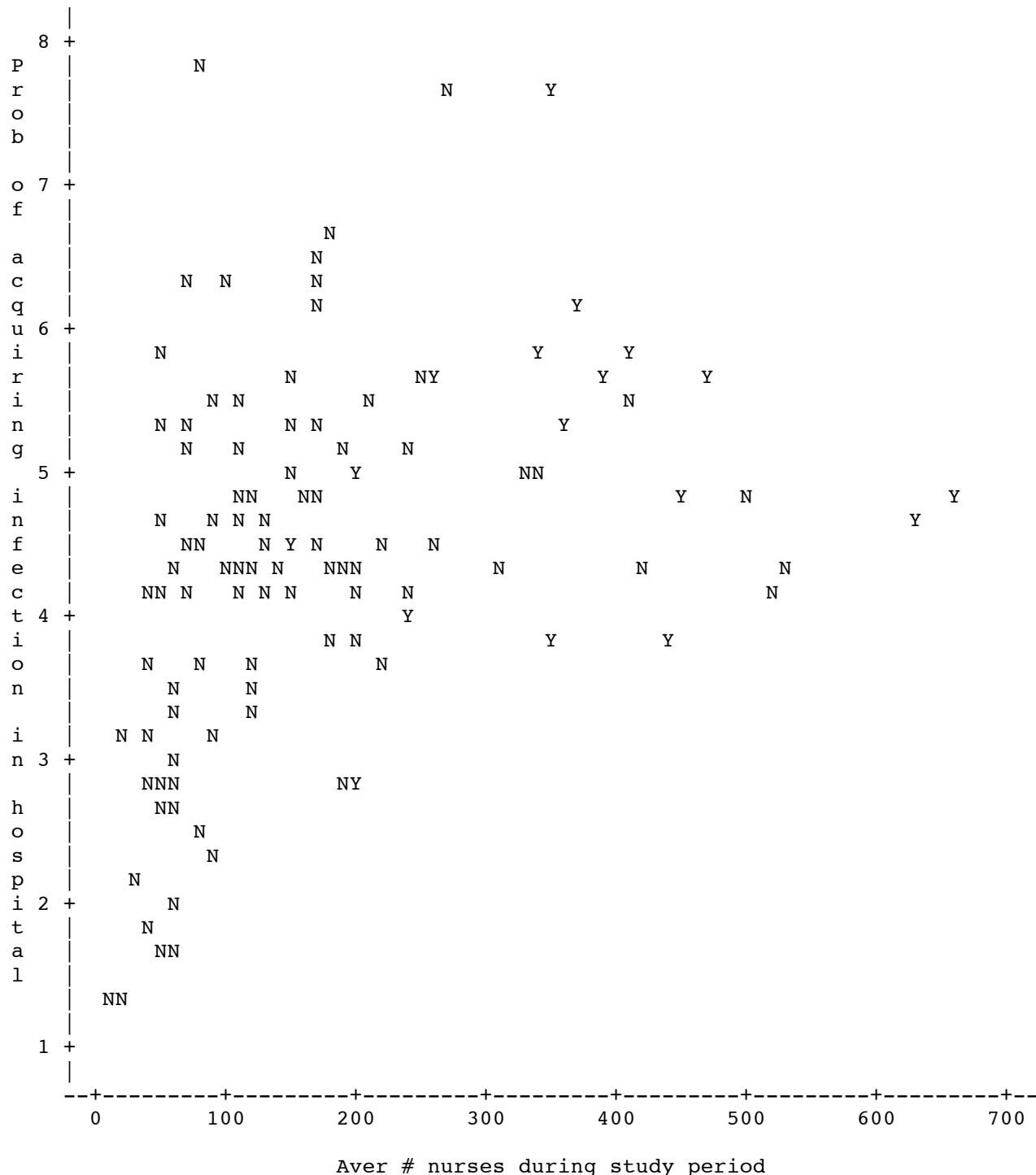
Study of the Effectiveness of Nosocomial Infection Control 9
Elementary tests on SENIC Data
Scatterplot 15:13 Sunday, September 5, 2007

Plot of infrisk*nurses. Legend: A = 1 obs, B = 2 obs, etc.



Study of the Effectiveness of Nosocomial Infection Control 10
 Elementary tests on SENIC Data
 Scatterplot 15:13 Sunday, September 5, 2007

Plot of infrisk*nurses. Symbol is value of medschl.



Aver # nurses during study period

NOTE: 6 obs hidden.

Study of the Effectiveness of Nosocomial Infection Control 11
Elementary tests on SENIC Data
Correlation Matrix
15:13 Sunday, September 5, 2007

The CORR Procedure

9 Variables: stay age infrisk culratio xratio nbds
census nurses service

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
stay	113	9.64832	1.91146	1090	6.70000	19.56000
age	113	53.23186	4.46161	6015	38.80000	65.90000
infrisk	113	4.35487	1.34091	492.10000	1.30000	7.80000
culratio	113	15.68407	10.18304	1772	1.60000	60.50000
xratio	113	81.63009	19.36674	9224	39.60000	133.50000
nbds	113	252.17699	192.84516	28496	29.00000	835.00000
census	113	191.37168	153.75956	21625	20.00000	791.00000
nurses	113	173.24779	139.26539	19577	14.00000	656.00000
service	113	43.15487	15.20019	4877	5.70000	80.00000

Simple Statistics

Variable Label

stay	Av length of hospital stay, in days
age	Average patient age
infrisk	Prob of acquiring infection in hospital
culratio	# cultures / # no hosp acq infect
xratio	# x-rays / # no signs of pneumonia
nbds	Average # beds during study period
census	Aver # patients in hospital per day
nurses	Aver # nurses during study period
service	% of 35 potential facil. & services

Pearson Correlation Coefficients, N = 113
 Prob > |r| under H0: Rho=0

	stay	age	infrisk	culratio
stay Av length of hospital stay, in days	1.00000	0.18891 0.0451	0.53344 <.0001	0.33354 0.0003
age Average patient age	0.18891 0.0451	1.00000	0.00109 0.9908	-0.23593 0.0119
infrisk Prob of acquiring infection in hospital	0.53344 <.0001	0.00109 0.9908	1.00000	0.57914 <.0001
culratio # cultures / # no hosp acq infect	0.33354 0.0003	-0.23593 0.0119	0.57914 <.0001	1.00000
xratio # x-rays / # no signs of pneumonia	0.38236 <.0001	-0.01893 0.8423	0.45329 <.0001	0.42707 <.0001

Study of the Effectiveness of Nosocomial Infection Control
 Elementary tests on SENIC Data
 Correlation Matrix

15:13 Sunday, September 5, 2007

The CORR Procedure

Pearson Correlation Coefficients, N = 113
 Prob > |r| under H0: Rho=0

	stay	age	infrisk	culratio
nbeds Average # beds during study period	0.40924 <.0001	-0.05884 0.5359	0.35976 <.0001	0.14879 0.1158
census Aver # patients in hospital per day	0.47389 <.0001	-0.05477 0.5645	0.38141 <.0001	0.15288 0.1060
nurses Aver # nurses during study period	0.34037 0.0002	-0.08294 0.3824	0.39398 <.0001	0.20742 0.0275
service % of 35 potential facil. & services	0.35572 0.0001	-0.04064 0.6691	0.41303 <.0001	0.18239 0.0532

Pearson Correlation Coefficients, N = 113
 Prob > |r| under H0: Rho=0

	xratio	nbeds	census	nurses
stay Av length of hospital stay, in days	0.38236 <.0001	0.40924 <.0001	0.47389 <.0001	0.34037 0.0002
age	-0.01893	-0.05884	-0.05477	-0.08294

Average patient age	0.8423	0.5359	0.5645	0.3824
infrisk Prob of acquiring infection in hospital	0.45329 <.0001	0.35976 <.0001	0.38141 <.0001	0.39398 <.0001
culratio # cultures / # no hosp acq infect	0.42707 <.0001	0.14879 0.1158	0.15288 0.1060	0.20742 0.0275
xratio # x-rays / # no signs of pneumonia	1.00000	0.04597 0.6288	0.06304 0.5071	0.07754 0.4143
nbeds Average # beds during study period	0.04597 0.6288	1.00000	0.98100 <.0001	0.91550 <.0001
census Aver # patients in hospital per day	0.06304 0.5071	0.98100 <.0001	1.00000	0.90790 <.0001
nurses Aver # nurses during study period	0.07754 0.4143	0.91550 <.0001	0.90790 <.0001	1.00000
service % of 35 potential facil. & services	0.11199 0.2376	0.79481 <.0001	0.77835 <.0001	0.78375 <.0001

Study of the Effectiveness of Nosocomial Infection Control

13

Elementary tests on SENIC Data

Correlation Matrix

15:13 Sunday, September 5, 2007

The CORR Procedure

Pearson Correlation Coefficients, N = 113
Prob > |r| under H0: Rho=0

	service
stay Av length of hospital stay, in days	0.35572 0.0001
age Average patient age	-0.04064 0.6691
infrisk Prob of acquiring infection in hospital	0.41303 <.0001
culratio # cultures / # no hosp acq infect	0.18239 0.0532
xratio # x-rays / # no signs of pneumonia	0.11199 0.2376
nbeds Average # beds during study period	0.79481 <.0001

census	0.77835
Aver # patients in hospital per day	<.0001
nurses	0.78375
Aver # nurses during study period	<.0001
service	1.00000
% of 35 potential facil. & services	

Study of the Effectiveness of Nosocomial Infection Control 15
 Elementary tests on SENIC Data
 Simple regression with proc glm
 15:13 Sunday, September 5, 2007

The GLM Procedure

Dependent Variable: infrisk Prob of acquiring infection in hospital

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	31.2584372	31.2584372	20.40	<.0001
Error	111	170.1213858	1.5326251		
Corrected Total	112	201.3798230			

R-Square	Coeff Var	Root MSE	infrisk Mean
0.155221	28.42779	1.237992	4.354867

Source	DF	Type I SS	Mean Square	F Value	Pr > F
nurses	1	31.25843716	31.25843716	20.40	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
nurses	1	31.25843716	31.25843716	20.40	<.0001

Parameter	Estimate	Standard Error	t Value	Pr > t
Intercept	3.697664892	0.18638716	19.84	<.0001
nurses	0.003793424	0.00083997	4.52	<.0001