Principal Component Analysis
Univariate Analysis

The UNIVARIATE Procedure
Variable: DRINK

Moments			
N	294	Sum Weights	294
Mean	1.20408163	Sum Observations	354
Std Deviation	0.40371611	Variance	0.1629867
Skewness	1.47601346	Kurtosis	0.17979241
Uncorrected SS	474	Corrected SS	47.755102
Coeff Variation	33.528965	Std Error Mean	0.0235452

Basic Statistical Measures			
Location		Variability	
Mean	1.204082	Std Deviation	0.40372
Median	1.000000	Variance	0.16299
Mode	1.000000	Range	1.00000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	51.13915	Pr > |t|	<.0001
Sign	M	147	Pr >= |M|	<.0001
Signed Rank	S	21682.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2
99%	2
95%	2
90%	2
75% Q3	1
50% Median	1
25% Q1	1
10%	1
5%	1
1%	1
0% Min	1

The UNIVARIATE Procedure
Variable: DRINK

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1	292	2	269
1	291	2	284
1	290	2	289
1	288	2	293
1	287	2	294

The UNIVARIATE Procedure
Variable: HEALTH

Moments			
N	294	Sum Weights	294
Mean	1.77210884	Sum Observations	521
Std Deviation	0.83794665	Variance	0.70215458
Skewness	0.9410902	Kurtosis	0.29689915
Uncorrected SS	1129	Corrected SS	205.731293
Coeff Variation	47.285281	Std Error Mean	0.04887004

Basic Statistical Measures			
Location		**Variability**	
Mean	1.772109	Std Deviation	0.83795
Median	2.000000	Variance	0.70215
Mode	1.000000	Range	3.00000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	36.26166	Pr > |t|	<.0001
Sign	M	147	Pr >= |M|	<.0001
Signed Rank	S	21682.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4
99%	4
95%	3
90%	3
75% Q3	2
50% Median	2
25% Q1	1
10%	1
5%	1
1%	1
0% Min	1

The UNIVARIATE Procedure
Variable: HEALTH

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	293	4	213
1	291	4	223
1	289	4	225
1	286	4	240
1	285	4	274

The UNIVARIATE Procedure
Variable: REG_DOC

Moments			
N	294	Sum Weights	294
Mean	1.18707483	Sum Observations	349
Std Deviation	0.3906365	Variance	0.15259687
Skewness	1.6131032	Kurtosis	0.60617925
Uncorrected SS	459	Corrected SS	44.7108844
Coeff Variation	32.9074874	Std Error Mean	0.02278238

Basic Statistical Measures			
Location		Variability	
Mean	1.187075	Std Deviation	0.39064
Median	1.000000	Variance	0.15260
Mode	1.000000	Range	1.00000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	52.10495	Pr > |t|	<.0001
Sign	M	147	Pr >= |M|	<.0001
Signed Rank	S	21682.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2
99%	2
95%	2
90%	2
75% Q3	1
50% Median	1
25% Q1	1
10%	1
5%	1
1%	1
0% Min	1

The UNIVARIATE Procedure
Variable: REG_DOC

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	294	2	262
1	293	2	266
1	292	2	273
1	291	2	283
1	289	2	290

The UNIVARIATE Procedure
Variable: TREATED

Moments			
N	294	Sum Weights	294
Mean	1.49659864	Sum Observations	440
Std Deviation	0.50084093	Variance	0.25084163
Skewness	0.01367563	Kurtosis	-2.0135574
Uncorrected SS	732	Corrected SS	73.4965986
Coeff Variation	33.4652801	Std Error Mean	0.02920964

Basic Statistical Measures			
Location		Variability	
Mean	1.496599	Std Deviation	0.50084
Median	1.000000	Variance	0.25084
Mode	1.000000	Range	1.00000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	51.23647	Pr > |t|	<.0001
Sign	M	147	Pr >= |M|	<.0001
Signed Rank	S	21682.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2
99%	2
95%	2
90%	2
75% Q3	2
50% Median	1
25% Q1	1
10%	1
5%	1
1%	1
0% Min	1

The UNIVARIATE Procedure
Variable: TREATED

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1	294	2	281
1	290	2	287
1	289	2	291
1	288	2	292
1	286	2	293

The UNIVARIATE Procedure
Variable: BEDDAYS

Moments			
N	294	Sum Weights	294
Mean	0.21428571	Sum Observations	63
Std Deviation	0.41102552	Variance	0.16894198
Skewness	1.39977309	Kurtosis	-0.0409604
Uncorrected SS	63	Corrected SS	49.5
Coeff Variation	191.81191	Std Error Mean	0.0239715

Basic Statistical Measures			
Location		**Variability**	
Mean	0.214286	Std Deviation	0.41103
Median	0.000000	Variance	0.16894
Mode	0.000000	Range	1.00000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.939188	Pr > |t|	<.0001
Sign	M	31.5	Pr >= |M|	<.0001
Signed Rank	S	1008	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1
99%	1
95%	1
90%	1
75% Q3	0
50% Median	0
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

The UNIVARIATE Procedure
Variable: BEDDAYS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	294	1	254
0	293	1	256
0	292	1	258
0	291	1	259
0	290	1	289

The UNIVARIATE Procedure
Variable: ACUTE_ILLNESS

Moments			
N	294	Sum Weights	294
Mean	0.29591837	Sum Observations	87
Std Deviation	0.45723274	Variance	0.20906178
Skewness	0.89879588	Kurtosis	-1.2003784
Uncorrected SS	87	Corrected SS	61.255102
Coeff Variation	154.513134	Std Error Mean	0.02666636

Basic Statistical Measures			
Location		Variability	
Mean	0.295918	Std Deviation	0.45723
Median	0.000000	Variance	0.20906
Mode	0.000000	Range	1.00000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.09707	Pr > |t|	<.0001
Sign	M	43.5	Pr >= |M|	<.0001
Signed Rank	S	1914	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1
99%	1
95%	1
90%	1
75% Q3	1
50% Median	0
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

The UNIVARIATE Procedure
Variable: ACUTE_ILLNESS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	294	1	280
0	292	1	285
0	291	1	286
0	290	1	289
0	288	1	293

The UNIVARIATE Procedure
Variable: CHRON_ILLNESS

Moments			
N	294	Sum Weights	294
Mean	0.50680272	Sum Observations	149
Std Deviation	0.50080616	Variance	0.25080681
Skewness	-0.0273532	Kurtosis	-2.0129924
Uncorrected SS	149	Corrected SS	73.4863946
Coeff Variation	98.8167854	Std Error Mean	0.02920761

Basic Statistical Measures			
Location		**Variability**	
Mean	0.506803	Std Deviation	0.50081
Median	1.000000	Variance	0.25081
Mode	1.000000	Range	1.00000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	t	17.35174	Pr > |t|	<.0001
Sign	M	74.5	Pr >= |M|	<.0001
Signed Rank	S	5587.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1
99%	1
95%	1
90%	1
75% Q3	1
50% Median	1
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

The UNIVARIATE Procedure
Variable: CHRON_ILLNESS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	291	1	288
0	289	1	290
0	286	1	292
0	285	1	293
0	281	1	294

Co-relation matrix

The CORR Procedure

7 Variables:	DRINK	HEALTH	REG_DOC	TREATED	BEDDAYS	ACUTE_ILLNESS CHRON_ILLNESS

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
DRINK	294	1.20408	0.40372	354.00000	1.00000	2.00000
HEALTH	294	1.77211	0.83795	521.00000	1.00000	4.00000
REG_DOC	294	1.18707	0.39064	349.00000	1.00000	2.00000
TREATED	294	1.49660	0.50084	440.00000	1.00000	2.00000
BEDDAYS	294	0.21429	0.41103	63.00000	0	1.00000
ACUTE_ILLNESS	294	0.29592	0.45723	87.00000	0	1.00000
CHRON_ILLNESS	294	0.50680	0.50081	149.00000	0	1.00000

Pearson Correlation Coefficients, N = 294 Prob > |r| under H0: Rho=0						
	DRINK	HEALTH	REG_DOC	TREATED	BEDDAYS	ACUTE_ILLNESS	CHRON_ILLNESS
DRINK	1.00000	0.18839 0.0012	-0.04814 0.4108	-0.03031 0.6047	0.04407 0.4515	-0.05094 0.3841	0.11127 0.0567
HEALTH	0.18839 0.0012	1.00000	-0.08827 0.1310	-0.27429 <.0001	0.21164 0.0003	-0.03718 0.5255	0.39002 <.0001
REG_DOC	-0.04814 0.4108	-0.08827 0.1310	1.00000	0.13410 0.0215	0.08958 0.1254	0.01384 0.8131	-0.08503 0.1458
TREATED	-0.03031 0.6047	-0.27429 <.0001	0.13410 0.0215	1.00000	-0.17053 0.0034	-0.16698 0.0041	-0.47615 <.0001
BEDDAYS	0.04407 0.4515	0.21164 0.0003	0.08958 0.1254	-0.17053 0.0034	1.00000	0.42418 <.0001	0.16699 0.0041
ACUTE_ILLNESS	-0.05094 0.3841	-0.03718 0.5255	0.01384 0.8131	-0.16698 0.0041	0.42418 <.0001	1.00000	0.07316 0.2111
CHRON_ILLNESS	0.11127 0.0567	0.39002 <.0001	-0.08503 0.1458	-0.47615 <.0001	0.16699 0.0041	0.07316 0.2111	1.00000

The PRINCOMP Procedure

Observations	294
Variables	7

Simple Statistics							
	DRINK	HEALTH	REG_DOC	TREATED	BEDDAYS	ACUTE_ILLNESS	CHRON_ILLNESS
Mean	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
StD	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000

Correlation Matrix							
	DRINK	HEALTH	REG_DOC	TREATED	BEDDAYS	ACUTE_ILLNESS	CHRON_ILLNESS
DRINK	1.0000	0.1884	-.0481	-.0303	0.0441	-.0509	0.1113
HEALTH	0.1884	1.0000	-.0883	-.2743	0.2116	-.0372	0.3900
REG_DOC	-.0481	-.0883	1.0000	0.1341	0.0896	0.0138	-.0850
TREATED	-.0303	-.2743	0.1341	1.0000	-.1705	-.1670	-.4762
BEDDAYS	0.0441	0.2116	0.0896	-.1705	1.0000	0.4242	0.1670
ACUTE_ILLNESS	-.0509	-.0372	0.0138	-.1670	0.4242	1.0000	0.0732
CHRON_ILLNESS	0.1113	0.3900	-.0850	-.4762	0.1670	0.0732	1.0000

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.00100152	0.64871939	0.2859	0.2859
2	1.35228212	0.32543852	0.1932	0.4790
3	1.02684360	0.10357356	0.1467	0.6257
4	0.92327004	0.20411271	0.1319	0.7576
5	0.71915733	0.22420397	0.1027	0.8604
6	0.49495336	0.01246134	0.0707	0.9311
7	0.48249202		0.0689	1.0000

Eigenvectors							
	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7
DRINK	0.170216	-.287500	0.674745	0.503666	-.420975	-.046741	-.002461
HEALTH	0.458682	-.271120	0.252348	-.128449	0.623922	-.048648	0.494248
REG_DOC	-.124368	0.342873	0.546949	-.698762	-.240477	-.037496	0.142527
TREATED	-.506643	0.077589	0.328992	0.188895	0.425175	0.637323	-.080132
BEDDAYS	0.376393	0.524437	0.221331	0.137397	0.341233	-.221623	-.591500
ACUTE_ILLNESS	0.255377	0.637296	-.131388	0.323415	-.191171	0.292046	0.533797
CHRON_ILLNESS	0.530655	-.197675	-.086024	-.287049	-.204725	0.673390	-.306865

The PRINCOMP Procedure