Statistical Report

All patients diagnosed with HIV during the study period (n=1717)

The FREQ Procedure

sex				
sex	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
female	688	40.07	688	40.07
male	1029	59.93	1717	100.00

Frequency Missing = 57

Variable: age (age)
sex=male

Moments			
N	1018	**Sum Weights**	1018
Mean	33.7043222	**Sum Observations**	34311
Std Deviation	12.3134257	**Variance**	151.620453
Skewness	0.44102847	**Kurtosis**	0.14824806

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	73
99%	65
95%	57
90%	50
75% Q3	42
50% Median	32
25% Q1	24
10%	20
5%	18
1%	0
0% Min	0

The UNIVARIATE Procedure
Variable: age (age)
sex=female

Moments			
N	678	**Sum Weights**	678
Mean	33.939528	**Sum Observations**	23011
Std Deviation	13.3768534	**Variance**	178.940208
Skewness	0.10574218	**Kurtosis**	0.17126393

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	81
99%	65
95%	57
90%	53
75% Q3	43
50% Median	33
25% Q1	25
10%	19
5%	16
1%	0
0% Min	0

The UNIVARIATE Procedure

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable age Classified by Variable sex					
sex	**N**	**Sum of Scores**	**Expected Under H0**	**Std Dev Under H0**	**Mean Score**
female	678	583619.50	575283.0	9876.14920	860.795723
male	1018	855436.50	863773.0	9876.14920	840.310904
Average scores were used for ties.					

Wilcoxon Two-Sample Test	
Statistic	583619.5000
Normal Approximation	
Z	0.8441

Wilcoxon Two-Sample Test	
One-Sided Pr > Z	0.1993
Two-Sided Pr > |Z|	0.3986

All patients who were tested for HBV and HCV (n=1259)

The SAS System

The FREQ Procedure

HIV_HBV				
HIV_HBV	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	1218	96.90	1218	96.90
reagent	39	3.10	1257	100.00

Frequency Missing = 2

HIV_HCV				
HIV_HCV	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	1218	96.90	1218	96.90
reagent	39	3.10	1257	100.00

Frequency Missing = 2

HIV_HBV_HCV				
HIV_HBV_HCV	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	1218	99.84	1218	99.84
reagent	2	0.16	1220	100.00

Frequency Missing = 2

hepatitis				
hepatitis	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	1179	93.65	1179	93.65
reagent	80	6.35	1259	100.00

The FREQ Procedure
HIV-monoinfected_and_HIV_hepatitis

sex				
sex	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
female	528	41.94	528	41.94
male	731	58.06	1259	100.00

The UNIVARIATE Procedure
Variable: age (age)
sex=male

Moments			
N	731	**Sum Weights**	731
Mean	33.1340629		
Std Deviation	12.1459651	**Variance**	147.524468
Skewness	0.47682548	**Kurtosis**	0.08956363

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	70
99%	63
95%	56
90%	50
75% Q3	41
50% Median	31
25% Q1	24
10%	20
5%	18
1%	0
0% Min	0

The UNIVARIATE Procedure
Variable: age (age)
sex=female

Moments			
N	524	**Sum Weights**	524
Mean	33.7232824		
Std Deviation	13.1700799	**Variance**	173.451006
Skewness	0.20688551	**Kurtosis**	0.25039397

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	81
99%	65
95%	56
90%	53
75% Q3	42
50% Median	32
25% Q1	25
10%	19
5%	17
1%	0
0% Min	0

The NPAR1WAY Procedure

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

sex	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
female	524	336564.0	329072.0	6329.47918	642.297710
male	731	451576.0	459068.0	6329.47918	617.751026

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	336564.0000
Z	1.1836
One-Sided Pr > Z	0.1183
Two-Sided Pr > |Z|	0.2366

The SAS System

The UNIVARIATE Procedure
Variable: age (age)
hepatitis=reagent sex=male

Moments			
N	51	**Sum Weights**	51
Mean	35.8823529	**Sum Observations**	1830
Std Deviation	10.8658125	**Variance**	118.065882
Skewness	0.1261037	**Kurtosis**	-0.6400289

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	58
99%	58
95%	54
90%	52
75% Q3	44
50% Median	35
25% Q1	28
10%	23
5%	18
1%	14
0% Min	14

The SAS System

The UNIVARIATE Procedure
Variable: age (age)
hepatitis=reagent sex=female

Moments			
N	29	**Sum Weights**	29
Mean	32.7931034	**Sum Observations**	951
Std Deviation	10.523373	**Variance**	110.741379
Skewness	0.68765047	**Kurtosis**	0.08078095

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	60
99%	60
95%	51
90%	47
75% Q3	39
50% Median	33
25% Q1	25
10%	20
5%	18
1%	18
0% Min	18

The SAS System

The NPAR1WAY Procedure
hepatitis=reagent

Wilcoxon Scores (Rank Sums) for Variable age Classified by Variable sex					
sex	**N**	**Sum of Scores**	**Expected Under H0**	**Std Dev Under H0**	**Mean Score**
female	29	1041.50	1174.50	99.834206	35.913793
male	51	2198.50	2065.50	99.834206	43.107843
Average scores were used for ties.					

Wilcoxon Two-Sample Test	
Statistic	1041.5000
Normal Approximation	
Z	-1.3272

Wilcoxon Two-Sample Test	
One-Sided Pr < Z	0.0922
Two-Sided Pr > |Z|	0.1844

Table 1. Socio-demographic characteristics of HIV-infected patients

The SAS System

The FREQ Procedure

Frequency
Col Pct

Table of Age of HIV_monoinfected_vs_HIV_HBV			
	HIV_HBV	**HIV_monoinfected**	**Total**
18-29	10	476	486
	25.64	40.51	
30-49	23	505	528
	58.98	42.98	
0-17	0	55	55
	0.00	4.68	
>_50	6	139	145
	15.38	11.83	
Total	39	1175	1214
Frequency Missing = 45			

Statistics for Table of transformed_age_1 by HIV_monoinfected_vs_HIV_HBV

Statistic	**DF**	**Value**	**Prob**
Chi-Square	3	6.5303	0.0885
Likelihood Ratio Chi-Square	3	8.3443	0.0394
Mantel-Haenszel Chi-Square	1	1.2403	0.2654
Phi Coefficient		0.0733	
Contingency Coefficient		0.0731	
Cramer's V		0.0733	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Effective Sample Size = 1214
Frequency Missing = 45

Frequency Col Pct

Table of sex by HIV_monoinfected_vs_HIV_HBV			
	HIV_HBV	HIV_monoinfected	Total
female	17	499	516
	43.59	42.32	
male	22	680	702
	56.41	57.68	
Total	39	1179	1218
Frequency Missing = 41			

Statistics for Table of sex by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	1	0.0248	0.8749
Likelihood Ratio Chi-Square	1	0.0247	0.8751
Continuity Adj. Chi-Square	1	0.0000	1.0000
Mantel-Haenszel Chi-Square	1	0.0247	0.8750
Phi Coefficient		0.0045	
Contingency Coefficient		0.0045	
Cramer's V		0.0045	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	17
Left-sided Pr <= F	0.6288
Right-sided Pr >= F	0.4997
Table Probability (P)	0.1285
Two-sided Pr <= P	0.8708

Effective Sample Size = 1218
Frequency Missing = 41

Frequency Col Pct			
Table of marital_status by HIV_monoinfected_vs_HIV_HBV			
	HIV_HBV	**HIV_monoinfected**	**Total**
divorced	4	100	104
	10.26	8.54	
married	17	459	476
	43.59	39.20	
single	18	562	580
	46.15	47.99	
widower	0	50	50
	0.00	4.27	
Total	39	1171	1210
Frequency Missing = 49			

Statistics for Table of marital_status by HIV_monoinfected_vs_HIV_HBV

Statistic	**DF**	**Value**	**Prob**
Chi-Square	3	2.0064	0.5711
Likelihood Ratio Chi-Square	3	3.6042	0.3075
Mantel-Haenszel Chi-Square	1	1.0948	0.2954
Phi Coefficient		0.0407	
Contingency Coefficient		0.0407	
Cramer's V		0.0407	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Effective Sample Size = 1210
Frequency Missing = 49

Frequency
Col Pct

Table of ethnicity by HIV_monoinfected_vs_HIV_HBV			
	HIV_HBV	**HIV_monoinfected**	**Total**
black	2	42	44
	5.56	3.65	
brown	14	400	414
	38.89	34.72	
other	0	6	6
	0.00	0.52	
white	20	704	724
	55.55	61.11	
Total	36	1152	1188
Frequency Missing = 71			

Statistics for Table of ethnicity by HIV_monoinfected_vs_HIV_HBV

Statistic	**DF**	**Value**	**Prob**
Chi-Square	3	0.8820	0.8298
Likelihood Ratio Chi-Square	3	1.0181	0.7969
Mantel-Haenszel Chi-Square	1	0.5971	0.4397
Phi Coefficient		0.0272	
Contingency Coefficient		0.0272	
Cramer's V		0.0272	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Effective Sample Size = 1188
Frequency Missing = 71

Frequency Col Pct

Table of transformed_degree_level by HIV_monoinfected_vs_HIV_HBV

	HIV_HBV	HIV_monoinfected	Total
≤ 8 years	25	551	576
	65.79	48.72	
> 8 years	13	580	593
	34.21	51.28	
Total	38	1131	1169

Frequency Missing = 90

Statistics for Table of degree_level by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	1	4.2868	0.0384
Likelihood Ratio Chi-Square	1	4.3516	0.0370
Continuity Adj. Chi-Square	1	3.6310	0.0567
Mantel-Haenszel Chi-Square	1	4.2831	0.0385
Phi Coefficient		0.0606	
Contingency Coefficient		0.0604	
Cramer's V		0.0606	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	25
Left-sided Pr <= F	0.9878
Right-sided Pr >= F	0.0278
Table Probability (P)	0.0156
Two-sided Pr <= P	0.0471

Effective Sample Size = 1169
Frequency Missing = 90

Frequency Col Pct

Table of sexual_behavior by HIV_monoinfected_vs_HIV_HBV			
	HIV_HBV	HIV_monoinfected	Total
heterosexual	32	880	912
	86.49	77.13	
homosexual/bisexual	5	261	266
	13.51	22.87	
Total	37	1141	1178
Frequency Missing = 81			

Statistic	DF	Value	Prob
Chi-Square	1	1.7965	0.1801
Likelihood Ratio Chi-Square	1	2.0103	0.1562
Continuity Adj. Chi-Square	1	1.3009	0.2541
Mantel-Haenszel Chi-Square	1	1.7949	0.1803
Phi Coefficient		0.0391	
Contingency Coefficient		0.0390	
Cramer's V		0.0391	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	32
Left-sided Pr <= F	0.9457
Right-sided Pr >= F	0.1241
Table Probability (P)	0.0698
Two-sided Pr <= P	0.2312

Effective Sample Size = 1178
Frequency Missing = 81

Frequency Col Pct

WARNING: 20% of the data are missing.

Table of way_of_acquiring_virus by HIV_monoinfected_vs_HIV_HBV			
	HIV_HBV	HIV_monoinfected	Total
OUTROS	0	27	27
	0.00	2.31	
sexual	38	1144	1182
	100.00	97.69	
Total	38	1171	1209
Frequency Missing = 50			

Statistics for Table of way_of_acquiring_virus by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	1	0.8962	0.3438
Likelihood Ratio Chi-Square	1	1.7444	0.1866
Continuity Adj. Chi-Square	1	0.1513	0.6973
Mantel-Haenszel Chi-Square	1	0.8954	0.3440
Phi Coefficient		-0.0272	
Contingency Coefficient		0.0272	
Cramer's V		-0.0272	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Fisher's Exact Test	
Cell (1,1) Frequency (F)	0
Left-sided Pr <= F	0.4182
Right-sided Pr >= F	1.0000
Table Probability (P)	0.4182
Two-sided Pr <= P	1.0000

Effective Sample Size = 1209
Frequency Missing = 50

Frequency

Col Pct

Table of diagnostic_period by HIV_monoinfected_vs_HIV_HBV

	HIV_HBV	HIV_monoinfected	Total
>_5	21	528	549
	53.85	44.79	
3 to 5	7	227	234
	17.95	19.25	
<_3	11	424	435
	28.20	35.96	
Total	39	1179	1218

Frequency Missing = 41

Statistics for Table of diagnostic_period by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	2	1.3574	0.5073
Likelihood Ratio Chi-Square	2	1.3671	0.5048
Mantel-Haenszel Chi-Square	1	1.3354	0.2478
Phi Coefficient		0.0334	
Contingency Coefficient		0.0334	
Cramer's V		0.0334	

Effective Sample Size = 1218
Frequency Missing = 41

Frequency

Col Pct

Table of Alcohol by HIV_monoinfected_vs_HIV_HBV

	HIV_HBV	HIV_monoinfected	Total
no	29	900	929
	76.32	81.45	
yes	9	205	214
	23.68	18.55	
Total	38	1105	1143

Frequency Missing = 116

Statistics for Table of Alcohol by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	1	0.6359	0.4252
Likelihood Ratio Chi-Square	1	0.5993	0.4389
Continuity Adj. Chi-Square	1	0.3433	0.5579
Mantel-Haenszel Chi-Square	1	0.6353	0.4254
Phi Coefficient		-0.0236	
Contingency Coefficient		0.0236	
Cramer's V		-0.0236	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	29
Left-sided Pr <= F	0.2701
Right-sided Pr >= F	0.8439
Table Probability (P)	0.1140
Two-sided Pr <= P	0.4015

Effective Sample Size = 1143
Frequency Missing = 116

Frequency Col Pct	Table of injectable_drugs by HIV_monoinfected_vs_HIV_HBV		
	HIV_HBV	**HIV_monoinfected**	**Total**
no	36	1104	1140
	100.00	99.28	
yes	0	8	8
	0.00	0.72	
Total	36	1112	1148
	Frequency Missing = 111		

Statistics for Table of injectable_drugs by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	1	0.2608	0.6096
Likelihood Ratio Chi-Square	1	0.5116	0.4745
Continuity Adj. Chi-Square	1	0.0000	1.0000
Mantel-Haenszel Chi-Square	1	0.2606	0.6097
Phi Coefficient		0.0151	
Contingency Coefficient		0.0151	
Cramer's V		0.0151	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Fisher's Exact Test	
Cell (1,1) Frequency (F)	36
Left-sided Pr <= F	1.0000
Right-sided Pr >= F	0.7744
Table Probability (P)	0.7744
Two-sided Pr <= P	1.0000

Effective Sample Size = 1148
Frequency Missing = 111

Frequency Col Pct	Table of tattoo by HIV_monoinfected_vs_HIV_HBV		
	HIV_HBV	**HIV_monoinfected**	**Total**
no	31	986	1017
	91.18	86.11	
yes	3	159	162
	8.82	13.89	
Total	34	1145	1179
Frequency Missing = 80			

Statistics for Table of tattoo by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	1	0.7141	0.3981
Likelihood Ratio Chi-Square	1	0.8000	0.3711
Continuity Adj. Chi-Square	1	0.3508	0.5536
Mantel-Haenszel Chi-Square	1	0.7135	0.3983
Phi Coefficient		0.0246	
Contingency Coefficient		0.0246	
Cramer's V		0.0246	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Fisher's Exact Test	
Cell (1,1) Frequency (F)	31
Left-sided Pr <= F	0.8681
Right-sided Pr >= F	0.2907
Table Probability (P)	0.1588
Two-sided Pr <= P	0.6114

Effective Sample Size = 1179
Frequency Missing = 80

HIV_monoinfected_vs._HIV_HCV

The SAS System

The FREQ Procedure

Table of transformed_age_1 by HIV_monoinfected_vs_HIV_HCV

Frequency
Col Pct

	HIV_HCV	HIV_monoinfected	Total
18-29	16	476	492
	41.02	40.51	
30-49	17	505	522
	43.59	42.98	
0-17	2	55	57
	5.13	4.68	
>_50	4	139	143
	10.26	11.83	
Total	39	1175	1214

Frequency Missing = 45

Statistics for Table of transformed_age_1 by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	3	0.1012	0.9917
Likelihood Ratio Chi-Square	3	0.1042	0.9913
Mantel-Haenszel Chi-Square	1	0.0429	0.8359
Phi Coefficient		0.0091	
Contingency Coefficient		0.0091	
Cramer's V		0.0091	

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Effective Sample Size = 1214
Frequency Missing = 45

Frequency Col Pct	Table of sex by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
female	12	499	511
	30.77	42.32	
male	27	680	707
	69.23	57.68	
Total	39	1179	1218
	Frequency Missing = 41		

Statistics for Table of sex by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	2.0697	0.1503
Likelihood Ratio Chi-Square	1	2.1401	0.1435
Continuity Adj. Chi-Square	1	1.6224	0.2028
Mantel-Haenszel Chi-Square	1	2.0680	0.1504
Phi Coefficient		-0.0412	
Contingency Coefficient		0.0412	
Cramer's V		-0.0412	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	12
Left-sided Pr <= F	0.1001
Right-sided Pr >= F	0.9477
Table Probability (P)	0.0478
Two-sided Pr <= P	0.1870

Effective Sample Size = 1218
Frequency Missing = 41

Frequency Col Pct	Table of marital_status by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
divorced	2	100	102
	5.41	8.54	
married	16	459	475
	43.24	39.20	
single	18	562	580
	48.65	47.99	
widower	1	50	51
	2.70	4.27	
Total	37	1171	1208
Frequency Missing = 51			

Statistics for Table of marital_status by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	3	0.7785	0.8546
Likelihood Ratio Chi-Square	3	0.8634	0.8342
Mantel-Haenszel Chi-Square	1	0.0031	0.9559
Phi Coefficient		0.0254	
Contingency Coefficient		0.0254	
Cramer's V		0.0254	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Effective Sample Size = 1208
Frequency Missing = 51

Frequency Col Pct	Table of ethnicity by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
black	0	42	42
	0.00	3.65	
brown	13	400	413
	35.14	34.72	
other	0	6	6
	0.00	0.52	
white	24	704	728
	64.86	61.11	
Total	37	1152	1189
	Frequency Missing = 70		

Statistics for Table of ethnicity by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	3	1.6259	0.6535
Likelihood Ratio Chi-Square	3	3.1176	0.3739
Mantel-Haenszel Chi-Square	1	0.3809	0.5371
Phi Coefficient		0.0370	
Contingency Coefficient		0.0370	
Cramer's V		0.0370	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Effective Sample Size = 1189
Frequency Missing = 70

Frequency Col Pct	Table of degree_level by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	HIV_monoinfected	Total
≤ 8 years	22	551	573
	61.11	48.72	
> 8 years	14	580	594
	38.89	51.28	
Total	36	1131	1167
	Frequency Missing = 92		

Statistics for Table of degree_level by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	2.1442	0.1431
Likelihood Ratio Chi-Square	1	2.1585	0.1418
Continuity Adj. Chi-Square	1	1.6770	0.1953
Mantel-Haenszel Chi-Square	1	2.1423	0.1433
Phi Coefficient		0.0429	
Contingency Coefficient		0.0428	
Cramer's V		0.0429	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	22
Left-sided Pr <= F	0.9493
Right-sided Pr >= F	0.0975
Table Probability (P)	0.0467
Two-sided Pr <= P	0.1755

Effective Sample Size = 1167
Frequency Missing = 92

Frequency Col Pct	Table of sexual_behavior by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
heterosexual	32	880	912
	86.49	77.13	
homosexual/bisexual	5	261	266
	13.51	22.87	
Total	37	1141	1178
	Frequency Missing = 81		

Statistics for Table of sexual_behavior by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	1.7965	0.1801
Likelihood Ratio Chi-Square	1	2.0103	0.1562
Continuity Adj. Chi-Square	1	1.3009	0.2541
Mantel-Haenszel Chi-Square	1	1.7949	0.1803
Phi Coefficient		0.0391	
Contingency Coefficient		0.0390	
Cramer's V		0.0391	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	32
Left-sided Pr <= F	0.9457
Right-sided Pr >= F	0.1241
Table Probability (P)	0.0698
Two-sided Pr <= P	0.2312

Effective Sample Size = 1178
Frequency Missing = 81

WARNING: 21% of the data are missing.

Frequency Col Pct	Table of way_of_acquiring_virus by HIV_monoinfected_vs_HIV_CV		
	HIV_HCV	**HIV_monoinfected**	**Total**
OUTROS	0	27	27
	0.00	2.31	
sexual	38	1144	1182
	100.00	97.69	
Total	38	1171	1209
	Frequency Missing = 50		

Statistics for Table of way_of_acquiring_virus by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	0.8962	0.3438
Likelihood Ratio Chi-Square	1	1.7444	0.1866
Continuity Adj. Chi-Square	1	0.1513	0.6973
Mantel-Haenszel Chi-Square	1	0.8954	0.3440
Phi Coefficient		-0.0272	
Contingency Coefficient		0.0272	
Cramer's V		-0.0272	

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Fisher's Exact Test	
Cell (1,1) Frequency (F)	0
Left-sided Pr <= F	0.4182
Right-sided Pr >= F	1.0000
Table Probability (P)	0.4182
Two-sided Pr <= P	1.0000

Effective Sample Size = 1209
Frequency Missing = 50

Frequency
Col Pct

Table of diagnostic_period by HIV_monoinfected_vs_HIV_HCV

	HIV_HCV	HIV_monoinfected	Total
> 5 years	31	528	559
	79.49	44.79	
3-5 years	5	227	232
	12.82	19.25	
>5 years	3	424	427
	7.69	35.96	
Total	39	1179	1218

Frequency Missing = 41

Statistics for Table of diagnostic_period by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	2	19.3328	<.0001
Likelihood Ratio Chi-Square	2	21.6126	<.0001
Mantel-Haenszel Chi-Square	1	18.7505	<.0001
Phi Coefficient		0.1260	
Contingency Coefficient		0.1250	
Cramer's V		0.1260	

Effective Sample Size = 1218
Frequency Missing = 41

Frequency Col Pct	Table of Alcohol by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
no	19	900	919
	59.38	81.45	
yes	13	205	218
	40.63	18.55	
Total	32	1105	1137
	Frequency Missing = 122		

Statistics for Table of Alcohol by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	9.7774	0.0018
Likelihood Ratio Chi-Square	1	8.0795	0.0045
Continuity Adj. Chi-Square	1	8.4049	0.0037
Mantel-Haenszel Chi-Square	1	9.7688	0.0018
Phi Coefficient		-0.0927	
Contingency Coefficient		0.0923	
Cramer's V		-0.0927	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	19
Left-sided Pr <= F	0.0037
Right-sided Pr >= F	0.9989
Table Probability (P)	0.0026
Two-sided Pr <= P	0.0046

Effective Sample Size = 1137
Frequency Missing = 122

Frequency Col Pct	Table of injectable_drugs by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
no	30	1104	1134
	90.91	99.28	
yes	3	8	11
	9.09	0.72	
Total	33	1112	1145
	Frequency Missing = 114		

Statistics for Table of injectable_drugs by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	23.6061	<.0001
Likelihood Ratio Chi-Square	1	9.0899	0.0026
Continuity Adj. Chi-Square	1	15.6274	<.0001
Mantel-Haenszel Chi-Square	1	23.5854	<.0001
Phi Coefficient		-0.1436	
Contingency Coefficient		0.1421	
Cramer's V		-0.1436	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Fisher's Exact Test	
Cell (1,1) Frequency (F)	30
Left-sided Pr <= F	0.0031
Right-sided Pr >= F	0.9998
Table Probability (P)	0.0029
Two-sided Pr <= P	0.0031

Effective Sample Size = 1145
Frequency Missing = 114

Frequency Col Pct	Table of tattoo by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
no	29	986	1015
	90.63	86.11	
yes	3	159	162
	9.38	13.89	
Total	32	1145	1177
	Frequency Missing = 82		

Statistics for Table of tattoo by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	1	0.5338	0.4650
Likelihood Ratio Chi-Square	1	0.5896	0.4426
Continuity Adj. Chi-Square	1	0.2214	0.6380
Mantel-Haenszel Chi-Square	1	0.5334	0.4652
Phi Coefficient		0.0213	
Contingency Coefficient		0.0213	
Cramer's V		0.0213	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Fisher's Exact Test	
Cell (1,1) Frequency (F)	29
Left-sided Pr <= F	0.8397
Right-sided Pr >= F	0.3373
Table Probability (P)	0.1770
Two-sided Pr <= P	0.6082

Effective Sample Size = 1177
Frequency Missing = 82

HIV_monoinfected_vs._Hepatitis

The SAS System

The FREQ Procedure

Table of transformed_age_1 by HIV_monoinfected_vs_Hepatitis

Frequency
Col Pct

	HIV_monoinfected	Hepatitis	Total
18-29	476	26	502
	40.51	32.50	
30-49	505	42	547
	42.98	52.50	
0-17	55	2	57
	4.68	2.50	
>_50	139	10	149
	11.83	12.50	
Total	1175	80	1255

Frequency Missing = 4

Statistics for Table of transformed_age_1 by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	3	3.5721	0.3115
Likelihood Ratio Chi-Square	3	3.7031	0.2954
Mantel-Haenszel Chi-Square	1	0.4244	0.5147
Phi Coefficient		0.0534	
Contingency Coefficient		0.0533	
Cramer's V		0.0534	

Effective Sample Size = 1255
Frequency Missing = 4

Frequency Col Pct	Table of sex by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
female	499	29	528
	42.32	36.25	
male	680	51	731
	57.68	63.75	
Total	1179	80	1259

Statistics for Table of sex by HIV_monoinfected_vs_Hepatitis

Statistic	**DF**	**Value**	**Prob**
Chi-Square	1	1.1351	0.2867
Likelihood Ratio Chi-Square	1	1.1511	0.2833
Continuity Adj. Chi-Square	1	0.8993	0.3430
Mantel-Haenszel Chi-Square	1	1.1342	0.2869
Phi Coefficient		0.0300	
Contingency Coefficient		0.0300	
Cramer's V		0.0300	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	499
Left-sided Pr <= F	0.8820
Right-sided Pr >= F	0.1716
Table Probability (P)	0.0537
Two-sided Pr <= P	0.2952

Sample Size = 1259

Frequency Col Pct	Table of marital_status by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
divorced	100	6	106
	8.54	7.79	
married	459	34	493
	39.20	44.16	
single	562	36	598
	47.99	46.75	
widower	50	1	51
	4.27	1.30	
Total	1171	77	1248
Frequency Missing = 11			

Statistics for Table of marital_status by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	3	2.0811	0.5557
Likelihood Ratio Chi-Square	3	2.6018	0.4572
Mantel-Haenszel Chi-Square	1	0.5966	0.4399
Phi Coefficient		0.0408	
Contingency Coefficient		0.0408	
Cramer's V		0.0408	

Effective Sample Size = 1248
Frequency Missing = 11

Frequency Col Pct	Table of ethnicity by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
black	42	2	44
	3.65	2.67	
brown	400	28	428
	34.72	37.33	
other	6	0	6
	0.52	0.00	
white	704	45	749
	61.11	60.00	
Total	1152	75	1227
Frequency Missing = 32			

Statistics for Table of ethnicity by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	3	0.7308	0.8659
Likelihood Ratio Chi-Square	3	1.1115	0.7743
Mantel-Haenszel Chi-Square	1	0.0205	0.8861
Phi Coefficient		0.0244	
Contingency Coefficient		0.0244	
Cramer's V		0.0244	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Effective Sample Size = 1227
Frequency Missing = 32

Frequency Col Pct	Table of degree_level by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
≤ 8 years	551	48	599
	48.72	64.00	
> 8 years	580	27	607
	51.28	36.00	
Total	1131	75	1206
	Frequency Missing = 53		

Statistics for Table of degree_level by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	1	6.5708	0.0104
Likelihood Ratio Chi-Square	1	6.6500	0.0099
Continuity Adj. Chi-Square	1	5.9737	0.0145
Mantel-Haenszel Chi-Square	1	6.5654	0.0104
Phi Coefficient		-0.0738	
Contingency Coefficient		0.0736	
Cramer's V		-0.0738	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	551
Left-sided Pr <= F	0.0070
Right-sided Pr >= F	0.9965
Table Probability (P)	0.0036
Two-sided Pr <= P	0.0120

Effective Sample Size = 1206
Frequency Missing = 53

Frequency Col Pct	Table of sexual_behavior by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
heterosexual	880	66	946
	77.13	86.84	
homosexual/bisexual	261	10	271
	22.87	13.16	
Total	1141	76	1217
Frequency Missing = 42			

Statistics for Table of sexual_behavior by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	1	3.8866	0.0487
Likelihood Ratio Chi-Square	1	4.3473	0.0371
Continuity Adj. Chi-Square	1	3.3455	0.0674
Mantel-Haenszel Chi-Square	1	3.8834	0.0488
Phi Coefficient		-0.0565	
Contingency Coefficient		0.0564	
Cramer's V		-0.0565	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	880
Left-sided Pr <= F	0.0289
Right-sided Pr >= F	0.9868
Table Probability (P)	0.0156
Two-sided Pr <= P	0.0472

Effective Sample Size = 1217
Frequency Missing = 42

WARNING: 18% of the data are missing.

Frequency Col Pct	Table of way_of_acquiring_virus by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
OUTROS	27	0	27
	2.31	0.00	
sexual	1144	78	1222
	97.69	100.00	
Total	1171	78	1249
	Frequency Missing = 10		

Statistics for Table of way_of_acquiring_virus by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	1	1.8382	0.1752
Likelihood Ratio Chi-Square	1	3.5217	0.0606
Continuity Adj. Chi-Square	1	0.9097	0.3402
Mantel-Haenszel Chi-Square	1	1.8367	0.1753
Phi Coefficient		0.0384	
Contingency Coefficient		0.0383	
Cramer's V		0.0384	

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Fisher's Exact Test	
Cell (1,1) Frequency (F)	27
Left-sided Pr <= F	1.0000
Right-sided Pr >= F	0.1720
Table Probability (P)	0.1720
Two-sided Pr <= P	0.4072

Effective Sample Size = 1249
Frequency Missing = 10

Frequency Col Pct	Table of _diagnostic_period by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
> 5 years	528	54	582
	44.78	67.50	
3-5 years	227	12	239
	19.25	15.00	
< 3 years	424	14	438
	35.96	17.50	
Total	1179	80	1259

Statistics for Table of transformed_diagnostic_period by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	2	16.4173	0.0003
Likelihood Ratio Chi-Square	2	17.0364	0.0002
Mantel-Haenszel Chi-Square	1	15.9250	<.0001
Phi Coefficient		0.1142	
Contingency Coefficient		0.1135	
Cramer's V		0.1142	

Sample Size = 1259

Frequency Col Pct	Table of Alcohol by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
no	900	50	950
	81.45	69.44	
yes	205	22	227
	18.55	30.56	
Total	1105	72	1177
	Frequency Missing = 82		

Statistics for Table of Alcohol by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	1	6.2566	0.0124
Likelihood Ratio Chi-Square	1	5.5950	0.0180
Continuity Adj. Chi-Square	1	5.5093	0.0189
Mantel-Haenszel Chi-Square	1	6.2513	0.0124
Phi Coefficient		0.0729	
Contingency Coefficient		0.0727	
Cramer's V		0.0729	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	900
Left-sided Pr <= F	0.9943
Right-sided Pr >= F	0.0122
Table Probability (P)	0.0065
Two-sided Pr <= P	0.0196

Effective Sample Size = 1177
Frequency Missing = 82

Frequency Col Pct	Table of injectable_drugs by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
no	1104	68	1172
	99.28	95.77	
yes	8	3	11
	0.72	4.23	
Total	1112	71	1183
Frequency Missing = 76			

Statistics for Table of injectable_drugs by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	1	8.9050	0.0028
Likelihood Ratio Chi-Square	1	5.0618	0.0245
Continuity Adj. Chi-Square	1	5.5058	0.0190
Mantel-Haenszel Chi-Square	1	8.8975	0.0029
Phi Coefficient		0.0868	
Contingency Coefficient		0.0864	
Cramer's V		0.0868	
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.			

Fisher's Exact Test	
Cell (1,1) Frequency (F)	1104
Left-sided Pr <= F	0.9971
Right-sided Pr >= F	0.0241
Table Probability (P)	0.0213
Two-sided Pr <= P	0.0241

Effective Sample Size = 1183
Frequency Missing = 76

Frequency Col Pct	Table of tattoo by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
no	986	62	1048
	86.11	91.18	
yes	159	6	165
	13.89	8.82	
Total	1145	68	1213
Frequency Missing = 46			

Statistics for Table of tattoo by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	1	1.4000	0.2367
Likelihood Ratio Chi-Square	1	1.5601	0.2117
Continuity Adj. Chi-Square	1	1.0024	0.3167
Mantel-Haenszel Chi-Square	1	1.3989	0.2369
Phi Coefficient		-0.0340	
Contingency Coefficient		0.0340	
Cramer's V		-0.0340	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	986
Left-sided Pr <= F	0.1579
Right-sided Pr >= F	0.9208
Table Probability (P)	0.0787
Two-sided Pr <= P	0.2784

Effective Sample Size = 1213
Frequency Missing = 46

The FREQ Procedure
HIV_monoinfected

HIV_monoinfected				
HIV_monoinfected	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
HIV_monoinfected	1179	100.00	1179	100.00

anti_HBs				
anti_HBs	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	605	53.73	605	53.73
reagent	521	46.27	1126	100.00

anti_HBC				
anti_HBC	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	900	83.26	900	83.26
reagent	181	16.74	1181	100.00

Frequency Missing = 108

The SAS System

The FREQ Procedure
HIV_HCV=reagent

HIV_HCV				
HIV_HCV	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
reagent	39	100.00	39	100.00

anti_HBs				
anti_HBs	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	22	68.75	22	68.75
reagent	10	31.25	32	100.00

anti_HBC				
anti_HBC	**Frequency**	**Percent**	**Cumulative Frequency**	**Cumulative Percent**
non_reactive	25	78.24	25	78.24
reagent	7	21.86	32	100.00

The SAS System

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_monoinfected_female

Moments			
N	476	**Sum Weights**	476
Mean	503.2164		
Std Deviation	333.5076	**Variance**	111227.3
Skewness	1.188964	**Kurtosis**	5.550357

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1636
99%	1636
95%	1115
90%	894
75% Q3	688.5
50% Median	450.5
25% Q1	265.5
10%	120
5%	62
1%	20

The SAS System

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_monoinfected_male

Moments			
N	627	**Sum Weights**	627
Mean	408.7177		

Moments			
Std Deviation	269.8876	**Variance**	72839.32
Skewness	1.136779	**Kurtosis**	5.630798

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1248
99%	1248
95%	918
90%	764
75% Q3	538
50% Median	379
25% Q1	213
10%	91
5%	43
1%	9

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis (cd4_diagnosis) Classified by Variable HIV_monoinfected female vs male		
female vs male	**N**	**Sum of Scores**
female	476	476
male	627	627

Wilcoxon Two-Sample Test	
Statistic	
U	124944.00
Z	4.6340
One-Sided Pr < Z	<0.0001
Two-Sided Pr > |Z|	<0.0001

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_HBV_female

Moments			
N	16	**Sum Weights**	16
Mean	504.6875		
Std Deviation	223.0048	**Variance**	49731.16
Skewness	1.231659	**Kurtosis**	5.26303

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1138
99%	1138
95%	1138
90%	718
75% Q3	590.5
50% Median	475
25% Q1	383.5
10%	257
5%	161
1%	161

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_HBV_male

Moments			
N	21	**Sum Weights**	21
Mean	376.1905		
Std Deviation	214.5259	**Variance**	46021.36
Skewness	0.7132155	**Kurtosis**	3.619756

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	938
99%	938
95%	701
90%	638
75% Q3	477
50% Median	336

Quantiles (Definition 5)	
Quantile	**Estimate**
25% Q1	258
10%	156
5%	74
1%	17

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis (cd4_diagnosis) Classified by Variable HIV_HBV female vs male		
female vs male	**N**	**Sum of Scores**
Female	16	16
male	21	21

Wilcoxon Two-Sample Test	
Statistic	
U	108.00
Z	1.8394
One-Sided Pr < Z	0.0329
Two-Sided Pr > |Z|	0.0659

The SAS System

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_HCV_female

Moments			
N	11	**Sum Weights**	11
Mean	360.2727		
Std Deviation	184.5487	**Variance**	34058.22
Skewness	0.1671016	**Kurtosis**	1.675045

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	666
99%	666
95%	666

Quantiles (Definition 5)	
Quantile	**Estimate**
90%	568
75% Q3	506
50% Median	410
25% Q1	185
10%	141
5%	134
1%	134

The SAS System

The UNIVARIATE Procedure

Variable: cd4_diagnosis (cd4_diagnosis) HIV_HCV_male

Moments			
N	25	**Sum Weights**	25
Mean	421.15		
Std Deviation	249.9246	**Variance**	62462.31
Skewness	1.359291	**Kurtosis**	5.100264

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1211
99%	1211
95%	815
90%	726
75% Q3	522
50% Median	345
25% Q1	243
10%	154
5%	147
1%	98

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis (cd4_diagnosis) Classified by Variable HIV_HCV female vs male		
female vs male	**N**	**Sum of Scores**
female	11	11
male	25	25

Wilcoxon Two-Sample Test	
Statistic	
U	119
Z	0.6353
One-Sided Pr < Z	0.2626
Two-Sided Pr > |Z|	0.5252

The SAS System

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) All_cd4_≤ 18_age

Moments			
N	71	**Sum Weights**	71
Mean	660.0423		
Std Deviation	379.138	**Variance**	143745.6
Skewness	1.312528	**Kurtosis**	4.967981

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	2001
99%	2001
95%	1402
90%	1175
75% Q3	764
50% Median	582
25% Q1	423
10%	265
5%	156
1%	97

The SAS System

The UNIVARIATE Procedure

Variable: cd4_diagnosis (cd4_diagnosis) All_cd4_≥_50_age

Moments			
N	139	**Sum Weights**	139
Mean	374.3094		
Std Deviation	263.7228	**Variance**	69549.71
Skewness	1.321624	**Kurtosis**	5.486856

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1361
99%	1361
95%	838
90%	756
75% Q3	507
50% Median	333
25% Q1	168
10%	97
5%	54
1%	20

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis (cd4_diagnosis) Classified by Variable All_≤ 18_age_vs _≥ 50_age		
≤ 18_age_vs _>50_age	**N**	**Sum of Scores**
≤ 18_age	71	71
≥ 50_age	139	139

Wilcoxon Two-Sample Test	
Statistic	
U	2447.50
Z	5.9702
One-Sided Pr < Z	<0.0001
Two-Sided Pr > |Z|	<0.0001

Table 3. CD4+ T-cell count and HIV viral load and their association with HBV and HCV in HIV-infected patients at baseline

The SAS System

Frequency Col Pct	Table of cd4_diagnosis_transformed by HIV_monoinfected_vs_HIV_HBV		
	HIV_HBV	**HIV_monoinfected**	**Total**
200-500	20	473	493
	54.06	42.88	
<200	5	232	237
	13.51	21.03	
>500	12	398	410
	32.43	36.08	
Total	37	1103	1140
	Frequency Missing = 119		

Statistics for Table of cd4_diagnosis_transformed by HIV_monoinfected_vs_HIV_HBV

Statistic	DF	Value	Prob
Chi-Square	2	2.1395	0.3371
Likelihood Ratio Chi-Square	2	2.2042	0.3322
Mantel-Haenszel Chi-Square	1	0.9987	0.3176
Phi Coefficient		0.0433	
Contingency Coefficient		0.0433	
Cramer's V		0.0433	

Effective Sample Size = 1140
Frequency Missing = 119

Frequency Col Pct	Table of cd4_diagnosis_transformed by HIV_monoinfected_vs_HIV_HCV		
	HIV_HCV	**HIV_monoinfected**	**Total**
200-500	20	473	493
	55.55	42.88	
<200	6	232	238
	16.67	21.03	
>500	10	398	408
	27.78	36.08	
Total	36	1103	1139
	Frequency Missing = 120		

Statistics for Table of cd4_diagnosis_transformed by HIV_monoinfected_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	2	2.2830	0.3143
Likelihood Ratio Chi-Square	2	2.2572	0.3235
Mantel-Haenszel Chi-Square	1	1.9515	0.1624
Phi Coefficient		0.0448	
Contingency Coefficient		0.0447	
Cramer's V		0.0448	

Effective Sample Size = 1139
Frequency Missing = 120

Frequency Col Pct	Table of cd4_diagnosis_transformed by HIV_monoinfected_vs_Hepatitis		
	HIV_monoinfected	**Hepatitis**	**Total**
200-500	473	42	515
	42.88	56.00	
<200	232	11	243
	21.03	14.67	
>500	398	22	420
	36.08	29.33	
Total	1103	75	1178
	Frequency Missing = 81		

Statistics for Table of cd4_diagnosis_transformed by HIV_monoinfected_vs_Hepatitis

Statistic	DF	Value	Prob
Chi-Square	2	5.0412	0.0774
Likelihood Ratio Chi-Square	2	5.0293	0.0809
Mantel-Haenszel Chi-Square	1	3.5180	0.0607
Phi Coefficient		0.0654	
Contingency Coefficient		0.0653	
Cramer's V		0.0654	

Effective Sample Size = 1178
Frequency Missing = 81

Frequency Col Pct	Table of cd4_diagnosis_transformed by HIV_HBV_vs_HIV_HCV		
	HIV_HBV	**HIV_HCV**	**Total**
200-500	5	6	11
	13.51	16.67	
<200	20	20	40
	54.05	55.56	
>500	12	10	22
	32.43	27.78	
Total	37	36	73

Statistics for Table of cd4_diagnosis_transformed by HIV_HBV_vs_HIV_HCV

Statistic	DF	Value	Prob
Chi-Square	2	2.2591	0.8790
Likelihood Ratio Chi-Square	2	2.0293	0.8809
Mantel-Haenszel Chi-Square	1	2.5180	0.8607
Phi Coefficient		0.0234	
Contingency Coefficient		0.0356	
Cramer's V		0.0346	

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis)
HIV_monoinfected

Moments			
N	1103	**Sum Weights**	1103
Mean	449.499547		
Std Deviation	302.509462	**Variance**	91511.9744
Skewness	1.24370692	**Kurtosis**	2.96352292

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	2283
99%	1408
95%	974
90%	828
75% Q3	608
50% Median	405
25% Q1	234
10%	99
5%	54
1%	14
0% Min	2

The SAS System

The UNIVARIATE Procedure

Variable: cd4_diagnosis (cd4_diagnosis) HIV_HBV

Moments			
N	37	**Sum Weights**	37
Mean	431.756757		
Std Deviation	224.619234	**Variance**	50453.8003
Skewness	0.90223774	**Kurtosis**	1.86296389

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1138
99%	1138
95%	938
90%	701
75% Q3	557
50% Median	387
25% Q1	287
10%	161
5%	74
1%	17

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis Classified by Variable HIV_monoinfected_vs_HIV_HBV

HIV_monoinfected_vs_HIV_HBV	N	Sum of Scores
HIV_monoinfected	1103	629075.0
HIV_HBV	37	21295.0

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	21295.0000
Normal Approximation	
Z	0.0944
One-Sided Pr > Z	0.4624

Wilcoxon Two-Sample Test	
Two-Sided Pr > |Z|	0.9248

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_HCV

Moments			
N	36	**Sum Weights**	36
Mean	402.5556		
Std Deviation	231.0224	**Variance**	53371.34
Skewness	1.289724	**Kurtosis**	5.348068

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1211
99%	1211
95%	815
90%	697
75% Q3	514
50% Median	377.5
25% Q1	228.5
10%	147
5%	134
1%	98

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis Classified by Variable HIV_monoinfected_vs_HIV_HCV		
HIV_monoinfected_vs_HIV_HCV	**N**	**Sum of Scores**
HIV_monoinfected	1103	630146
HIV_HCV	36	19084
Average scores were used for ties.		

Wilcoxon Two-Sample Test	
Statistic	18418.000
Normal Approximation	

Wilcoxon Two-Sample Test	
Z	0.7394
One-Sided Pr > Z	0.2298
Two-Sided Pr > |Z|	0.4597

The UNIVARIATE Procedure
Variable: cd4_diagnosis (cd4_diagnosis) HIV_hepatitis

Moments			
N	75	**Sum Weights**	75
Mean	417.3733		
Std Deviation	223.6863	**Variance**	50035.56
Skewness	1.084653	**Kurtosis**	4.970194

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1211
99%	1211
95%	815
90%	697
75% Q3	522
50% Median	387
25% Q1	257
10%	156
5%	134
1%	17

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis Classified by Variable HIV_monoinfected_vs_HIV_hepatitis		
HIV_monoinfected_vs_HIV_HCV	**N**	**Sum of Scores**
HIV_monoinfected	1103	651430.5
HIV_hepatitis	75	43000.5
Average scores were used for ties.		

Wilcoxon Two-Sample Test	
Statistic	40150.50

Wilcoxon Two-Sample Test	
Normal Approximation	
Z	0.4251
One-Sided Pr > Z	0.3354
Two-Sided Pr > |Z|	0.6707

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable cd4_diagnosis Classified by Variable HIV_HBV_vs_HIV_CV

HIV_HBV_vs_HIV_HCV	N	Sum of Scores
HIV_HBV	37	1452.5
HIV_HCV	36	1248.5

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	582.50
Normal Approximation	
Z	0.9213
One-Sided Pr > Z	0.1784
Two-Sided Pr > |Z|	0.3569

The UNIVARIATE Procedure
Variable: HIV_viral_load_LOG (HIV_viral_load_LOG)
HIV_monoinfected_

Moments			
N	1098	**Sum Weights**	1098
Mean	4.02112754		
Std Deviation	0.61235927	**Variance**	0.37498388
Skewness	-0.7940259	**Kurtosis**	0.56704082

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	4.99397
99%	4.96757
95%	4.87880
90%	4.75727
75% Q3	4.44988
50% Median	4.09915
25% Q1	3.64205
10%	3.11926
5%	2.85673
1%	2.26007
0% Min	1.66745

The UNIVARIATE Procedure
Variable: HIV_viral_load_LOG (HIV_viral_load_LOG)
HIV_monoinfected_vs_HIV_HBV=HIV_HBV

Moments			
N	34	**Sum Weights**	34
Mean	3.80586445		
Std Deviation	1.09463913	**Variance**	1.19823482
Skewness	-0.69925	**Kurtosis**	-0.4538951

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	5.32314
99%	5.32314
95%	5.18959
90%	5.08189
75% Q3	4.49868
50% Median	4.11798
25% Q1	3.17026
10%	1.86332
5%	1.60206
1%	1.60206
0% Min	1.60206

Wilcoxon Scores (Rank Sums) for Variable HIV_viral_load_LOG Classified by Variable HIV_monoinfected_vs_HIV_HBV

HIV_monoinfected_vs_HIV_HBV	N	Sum of Scores
HIV_monoinfected	1098	622804.0
HIV_HBV	34	18474.0

Wilcoxon Two-Sample Test	
Statistic	18474.0000
Z	-0.4189
One-Sided Pr < Z	0.3376
Two-Sided Pr > |Z|	0.6753

The SAS System

The UNIVARIATE Procedure
Variable: HIV_viral_load_LOG_HIV_HCV

Moments			
N	27	**Sum Weights**	27
Mean	4.236667		
Std Deviation	.9510237	**Variance**	.904446
Skewness	-.5194416	**Kurtosis**	3.514769

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	5.95
99%	5.95
95%	5.68
90%	5.68
75% Q3	4.81
50% Median	4.24
25% Q1	3.77
10%	2.83
5%	2.65
1%	1.7

Wilcoxon Scores (Rank Sums) for Variable HIV_viral_load_LOG Classified by Variable HIV_monoinfected_vs_HIV_HCV

HIV_monoinfected_vs_HIV_HCV	N	Sum of Scores
HIV_monoinfected	1098	615581.5
HIV_HCV	27	17793.5

Wilcoxon Two-Sample Test	
Statistic	12230.50
Normal Approximation	
Z	1.5544
One-Sided Pr < Z	0.0600
Two-Sided Pr > |Z|	0.1201

The SAS System

The UNIVARIATE Procedure
Variable: HIV_viral_load_LOG HIV_hepatitis

Moments			
N	63	**Sum Weights**	63
Mean	3.984444		
Std Deviation	1.042074	**Variance**	1.085919
Skewness	0.6399357	**Kurtosis**	2.940407

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	5.95
99%	5.95
95%	5.32
90%	5.14
75% Q3	4.70
50% Median	4.12
25% Q1	3.47
10%	2.65
5%	1.72
1%	1.6

Wilcoxon Scores (Rank Sums) for Variable HIV_viral_load_LOG Classified by Variable HIV_monoinfected_vs_HIV_hepatitis

HIV_monoinfected_vs_HIV_hepatitis	N	Sum of Scores
HIV_monoinfected	1098	636424
HIV_hepatitis	63	38117

Wilcoxon Two-Sample Test	
Statistic	33073
Normal Approximation	
Z	0.5850
One-Sided Pr < Z	0.2793
Two-Sided Pr > |Z|	0.5586

Wilcoxon Scores (Rank Sums) for Variable HIV_viral_load_LOG Classified by Variable HIV_HBV_vs_HIV_HCV		
HIV_HBV_vs_HIV_HCV	**N**	**Sum of Scores**
HIV_HBV	30	777.0
HIV_HCV	27	876.0

Wilcoxon Two-Sample Test	
Statistic	312.00
Normal Approximation	
Z	14863
One-Sided Pr < Z	0.0686
Two-Sided Pr > |Z|	0.1372

Table 4. Effect of cART on CD4+ T-cell count, CD4/CD8 ratio and HIV viral load in HIV-coinfected patients

The SAS System

The UNIVARIATE Procedure
Variable: HBV (HBV)
cd_4_naïve

Moments			
N	24	**Sum Weights**	24
Mean	347.541667	**Sum Observations**	8341
Std Deviation	198.75569	**Variance**	39503.8243
Skewness	0.83695443	**Kurtosis**	0.84732151
Uncorrected SS	3807433	**Corrected SS**	908587.958
Coeff Variation	57.1890248	**Std Error Mean**	40.5708353

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	869.0
99%	869.0
95%	701.0
90%	595.0
75% Q3	465.5
50% Median	316.0
25% Q1	226.5
10%	128.0
5%	74.0
1%	30.0
0% Min	30.0

The UNIVARIATE Procedure
Variable: HBV (HBV)
Treat=cd_4_time_12_months

Moments			
N	24	**Sum Weights**	24
Mean	514.625	**Sum Observations**	12351
Std Deviation	230.574861	**Variance**	53164.7663
Skewness	1.16483499	**Kurtosis**	1.96882452
Uncorrected SS	7578923	**Corrected SS**	1222789.63
Coeff Variation	44.8044422	**Std Error Mean**	47.0658963

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1103.0
99%	1103.0
95%	1101.0
90%	678.0
75% Q3	612.5
50% Median	512.0
25% Q1	346.0
10%	246.0
5%	243.0
1%	194.0
0% Min	194.0

The SAS System
The NPAR1WAY Procedure
Treat=cd_4 count

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	24	462.0	588.0	48.497423	19.250
12	24	714.0	588.0	48.497423	29.750

Wilcoxon Two-Sample Test	
Statistic	462.0000
Normal Approximation	
Z	-2.5878
One-Sided Pr < Z	0.0048
Two-Sided Pr > |Z|	0.0097
t Approximation	
One-Sided Pr < Z	0.0064
Two-Sided Pr > |Z|	0.0128

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	6.7500
DF	1
Pr > Chi-Square	0.0094

The UNIVARIATE Procedure
Variable: HBV (HBV)
Treat=cd_4_time_24_months

Moments			
N	24	**Sum Weights**	24
Mean	597.5	**Sum Observations**	14340
Std Deviation	229.043759	**Variance**	52461.0435
Skewness	0.13367518	**Kurtosis**	-0.0836305
Uncorrected SS	9774754	**Corrected SS**	1206604
Coeff Variation	38.3336835	**Std Error Mean**	46.7533615

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1127.0
99%	1127.0
95%	908.0
90%	835.0
75% Q3	747.5
50% Median	613.0
25% Q1	423.0
10%	312.0
5%	280.0
1%	170.0
0% Min	170.0

The NPAR1WAY Procedure
Treat=cd_4 cell count

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	24	414.50	588.0	48.494790	17.270833
24	24	761.50	588.0	48.494790	31.729167

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	414.5000
Normal Approximation	
Z	-3.5674
One-Sided Pr < Z	0.0002
Two-Sided Pr > |Z|	0.0004
t Approximation	
One-Sided Pr < Z	0.0004
Two-Sided Pr > |Z|	0.0008

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	12.8000
DF	1
Pr > Chi-Square	0.0003

The NPAR1WAY Procedure
Treat=cd_4_count

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	24	503.50	588.0	48.494790	20.979167
24	24	672.50	588.0	48.494790	28.020833

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	503.5000
Normal Approximation	
Z	-1.7321
One-Sided Pr < Z	0.0416
Two-Sided Pr > |Z|	0.0832
t Approximation	
One-Sided Pr < Z	0.0449
Two-Sided Pr > |Z|	0.0898

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	3.0362
DF	1
Pr > Chi-Square	0.0814

The UNIVARIATE Procedure
Variable: HBV (HBV)
cd_4:cd_8_naïve

Moments			
N	24	**Sum Weights**	24
Mean	0.40958333	**Sum Observations**	9.83
Std Deviation	0.35201876	**Variance**	0.12391721
Skewness	1.92805077	**Kurtosis**	4.49438498
Uncorrected SS	6.8763	**Corrected SS**	2.85009583
Coeff Variation	85.9455782	**Std Error Mean**	0.07185553

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1.590
99%	1.590
95%	0.960
90%	0.900
75% Q3	0.585
50% Median	0.295
25% Q1	0.185
10%	0.120
5%	0.080
1%	0.040
0% Min	0.040

The UNIVARIATE Procedure
Variable: HBV (HBV)
Treat=cd_4:cd_8 time_12

Moments			
N	24	**Sum Weights**	24
Mean	0.58375	**Sum Observations**	14.01
Std Deviation	0.40338581	**Variance**	0.16272011
Skewness	1.60015192	**Kurtosis**	2.77777703
Uncorrected SS	11.9209	**Corrected SS**	3.7425625
Coeff Variation	69.1024936	**Std Error Mean**	0.08234078

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1.81
99%	1.81
95%	1.39
90%	1.08
75% Q3	0.70
50% Median	0.48
25% Q1	0.30
10%	0.20
5%	0.19
1%	0.11
0% Min	0.11

The NPAR1WAY Procedure
Treat=cd_4/cd_8

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	24	491.50	588.0	48.486892	20.479167
12	24	684.50	588.0	48.486892	28.520833

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	491.5000
Normal Approximation	
Z	-1.9799
One-Sided Pr < Z	0.0239
Two-Sided Pr > |Z|	0.0477
t Approximation	
One-Sided Pr < Z	0.0268
Two-Sided Pr > |Z|	0.0536

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	3.9610
DF	1
Pr > Chi-Square	0.0466

The UNIVARIATE Procedure
Variable: HBV (HBV)
Treat=cd_4:cd_8 time_24_months

Moments

N	24	**Sum Weights**	24
Mean	0.71291667	**Sum Observations**	17.11
Std Deviation	0.35799537	**Variance**	0.12816069
Skewness	1.03779198	**Kurtosis**	1.85730225
Uncorrected SS	15.1457	**Corrected SS**	2.94769583
Coeff Variation	50.215599	**Std Error Mean**	0.0730755

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1.740
99%	1.740
95%	1.390
90%	0.970
75% Q3	0.885
50% Median	0.655
25% Q1	0.480
10%	0.330
5%	0.230
1%	0.170
0% Min	0.170

The NPAR1WAY Procedure
Treat=cd_4/cd_8

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_0_vs_24

time_0_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	24	430.0	588.0	48.481626	17.916667
24	24	746.0	588.0	48.481626	31.083333

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	430.0000
Normal Approximation	
Z	-3.2487
One-Sided Pr < Z	0.0006
Two-Sided Pr > |Z|	0.0012
t Approximation	
One-Sided Pr < Z	0.0011
Two-Sided Pr > |Z|	0.0021

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	10.6209
DF	1
Pr > Chi-Square	0.0011

The NPAR1WAY Procedure
Treat=cd_4/cd_8

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	24	508.0	588.0	48.481626	21.166667
24	24	668.0	588.0	48.481626	27.833333

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	508.0000
Normal Approximation	
Z	-1.6398
One-Sided Pr < Z	0.0505
Two-Sided Pr > |Z|	0.1010
t Approximation	
One-Sided Pr < Z	0.0539
Two-Sided Pr > |Z|	0.1077

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	2.7229
DF	1
Pr > Chi-Square	0.0989

The UNIVARIATE Procedure
Variable: HBV (HBV)
cv_log_naïve

Moments			
N	20	**Sum Weights**	20
Mean	3.90788235	**Sum Observations**	78.157647
Std Deviation	1.38726974	**Variance**	1.92451734
Skewness	-0.643462	**Kurtosis**	-1.0758625
Uncorrected SS	341.996718	**Corrected SS**	36.5658295
Coeff Variation	35.499271	**Std Error Mean**	0.31020295

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	5.49958
99%	5.49958
95%	5.46713
90%	5.37892
75% Q3	5.10267
50% Median	4.25391
25% Q1	2.64960
10%	1.69897
5%	1.69897
1%	1.69897
0% Min	1.69897

The UNIVARIATE Procedure
Variable: HBV (HBV)
Treat=cv_log time_12_months

Moments			
N	24	**Sum Weights**	24
Mean	1.84097179	**Sum Observations**	44.183323
Std Deviation	0.36142809	**Variance**	0.13063026
Skewness	1.39137635	**Kurtosis**	2.04905513
Uncorrected SS	84.3447474	**Corrected SS**	3.00449606
Coeff Variation	19.6324621	**Std Error Mean**	0.0737762

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	2.80889
99%	2.80889
95%	2.60206
90%	2.55630
75% Q3	1.90224
50% Median	1.69897
25% Q1	1.69897
10%	1.65321
5%	1.30103
1%	1.30103
0% Min	1.30103

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	20	627.0	450.0	41.739148	31.3500
12	24	363.0	540.0	41.739148	15.1250

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	627.0000
Normal Approximation	
Z	4.2286
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	0.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	17.9829
DF	1
Pr > Chi-Square	<.0001

The SAS System

The UNIVARIATE Procedure
Variable: HBV (HBV)
Treat=cv_log time_24_months

Moments			
N	24	**Sum Weights**	24
Mean	1.64018853	**Sum Observations**	39.3645247
Std Deviation	0.34071471	**Variance**	0.11608651
Skewness	2.68138938	**Kurtosis**	10.8251556
Uncorrected SS	67.2352315	**Corrected SS**	2.6699898
Coeff Variation	20.7728992	**Std Error Mean**	0.0695481

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	2.99056
99%	2.99056
95%	1.83251
90%	1.75587
75% Q3	1.69897
50% Median	1.69897
25% Q1	1.39794
10%	1.30103
5%	1.30103
1%	1.30103
0% Min	1.30103

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	20	650.0	450.0	41.151502	32.500000
24	24	340.0	540.0	41.151502	14.166667

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	650.0000
Normal Approximation	
Z	4.8479
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	23.6205
DF	1
Pr > Chi-Square	<.0001

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable HBV Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	24	692.0	588.0	45.672283	28.833333
24	24	484.0	588.0	45.672283	20.166667

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	692.0000
Normal Approximation	
Z	2.2661
One-Sided Pr > Z	0.0117
Two-Sided Pr > |Z|	0.0234
t Approximation	
One-Sided Pr > Z	0.0140
Two-Sided Pr > |Z|	0.0281

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	5.1851
DF	1
Pr > Chi-Square	0.0228

The UNIVARIATE Procedure
Variable: HCV (HCV)
cd_4_naïve

Moments			
N	23	**Sum Weights**	23
Mean	364.521739	**Sum Observations**	8384
Std Deviation	269.03884	**Variance**	72381.8972
Skewness	1.82338367	**Kurtosis**	3.35485997
Uncorrected SS	4648552	**Corrected SS**	1592401.74
Coeff Variation	73.8059794	**Std Error Mean**	56.098476

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1171
99%	1171
95%	977
90%	697
75% Q3	478
50% Median	304
25% Q1	154
10%	141
5%	140
1%	67
0% Min	67

The UNIVARIATE Procedure
Variable: HCV (HCV)
Treat=cd_4 time_12_months

Moments

N	23	**Sum Weights**	23
Mean	407.934633	**Sum Observations**	9382.49657
Std Deviation	208.678839	**Variance**	43546.8577
Skewness	1.43441038	**Kurtosis**	1.88947398
Uncorrected SS	4785476.17	**Corrected SS**	958030.87
Coeff Variation	51.1549699	**Std Error Mean**	43.5125458

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1009.33
99%	1009.33
95%	786.00
90%	706.00
75% Q3	555.50
50% Median	344.00
25% Q1	252.00
10%	209.00
5%	208.00
1%	191.00
0% Min	191.00

The NPAR1WAY Procedure
Treat=cd_4

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	23	477.50	540.50	45.516908	20.760870
12	23	603.50	540.50	45.516908	26.239130

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	477.5000
Normal Approximation	
Z	-1.3731
One-Sided Pr < Z	0.0849
Two-Sided Pr > |Z|	0.1697
t Approximation	
One-Sided Pr < Z	0.0883
Two-Sided Pr > |Z|	0.1765

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	1.9157
DF	1
Pr > Chi-Square	0.1663

The UNIVARIATE Procedure
Variable: HCV (HCV)
Treat=cd_4 time_24_months

Moments

N	23	**Sum Weights**	23
Mean	521.094893	**Sum Observations**	11985.1825
Std Deviation	179.657242	**Variance**	32276.7245
Skewness	1.35136353	**Kurtosis**	2.22099672
Uncorrected SS	6955505.35	**Corrected SS**	710087.94
Coeff Variation	34.4768763	**Std Error Mean**	37.4611245

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1029.50
99%	1029.50
95%	898.25
90%	755.00
75% Q3	561.00
50% Median	485.00
25% Q1	406.00
10%	357.00
5%	312.60
1%	260.00
0% Min	260.00

The NPAR1WAY Procedure
Treat=cd_4

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	23	389.0	540.50	45.518311	16.913043
24	23	692.0	540.50	45.518311	30.086957

Wilcoxon Two-Sample Test	
Statistic	389.0000
Normal Approximation	
Z	-3.3173
One-Sided Pr < Z	0.0005
Two-Sided Pr > |Z|	0.0009
t Approximation	
One-Sided Pr < Z	0.0009
Two-Sided Pr > |Z|	0.0018

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	11.0778
DF	1
Pr > Chi-Square	0.0009

The NPAR1WAY Procedure
Treat=cd_4

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	23	430.0	540.50	45.518311	18.695652
24	23	651.0	540.50	45.518311	28.304348

Wilcoxon Two-Sample Test	
Statistic	430.0000
Normal Approximation	
Z	-2.4166
One-Sided Pr < Z	0.0078
Two-Sided Pr > |Z|	0.0157
t Approximation	
One-Sided Pr < Z	0.0099
Two-Sided Pr > |Z|	0.0198

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	5.8932
DF	1
Pr > Chi-Square	0.0152

The SAS System

The UNIVARIATE Procedure
Variable: HCV (HCV)
cd_4:cd_8_naïve

Moments			
N	21	**Sum Weights**	21
Mean	0.37952381	**Sum Observations**	7.97
Std Deviation	0.30292699	**Variance**	0.09176476
Skewness	1.4991632	**Kurtosis**	1.90482872
Uncorrected SS	4.8601	**Corrected SS**	1.83529524
Coeff Variation	79.8176513	**Std Error Mean**	0.06610409

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1.20
99%	1.20
95%	0.93
90%	0.93
75% Q3	0.47
50% Median	0.32
25% Q1	0.16
10%	0.13
5%	0.06
1%	0.04
0% Min	0.04

The UNIVARIATE Procedure
Variable: HCV (HCV)
Treat=cd_4:cd_8_time_12_months

Moments			
N	23	**Sum Weights**	23
Mean	0.46947705	**Sum Observations**	10.797972
Std Deviation	0.25162292	**Variance**	0.06331409
Skewness	1.14999088	**Kurtosis**	2.20756216
Uncorrected SS	6.46231007	**Corrected SS**	1.39291006
Coeff Variation	53.5964265	**Std Error Mean**	0.05246701

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1.202538
99%	1.202538
95%	0.929559
90%	0.697546
75% Q3	0.561721
50% Median	0.481043
25% Q1	0.288509
10%	0.181119
5%	0.167385
1%	0.105423
0% Min	0.105423

The NPAR1WAY Procedure
Treat=cd_4_8

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	21	395.0	472.50	42.555784	18.809524
12	23	595.0	517.50	42.555784	25.869565

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	395.0000
Normal Approximation	
Z	-1.8094
One-Sided Pr < Z	0.0352
Two-Sided Pr > |Z|	0.0704
t Approximation	
One-Sided Pr < Z	0.0387
Two-Sided Pr > |Z|	0.0774

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	3.3165
DF	1
Pr > Chi-Square	0.0686

The UNIVARIATE Procedure
Variable: HCV (HCV)
Treat=cd_4:cd_8_time_24_months

Moments

N	23	**Sum Weights**	23
Mean	0.5903869	**Sum Observations**	13.5788988
Std Deviation	0.24704325	**Variance**	0.06103037
Skewness	1.09898667	**Kurtosis**	2.00357549
Uncorrected SS	9.3594721	**Corrected SS**	1.34266812
Coeff Variation	41.8442977	**Std Error Mean**	0.05151208

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1.313138
99%	1.313138
95%	0.935780
90%	0.872832
75% Q3	0.708029
50% Median	0.496272
25% Q1	0.433754
10%	0.332751
5%	0.317933
1%	0.185464
0% Min	0.185464

The NPAR1WAY Procedure
Treat=cd_4_8

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	21	348.0	472.50	42.555784	16.571429
24	23	642.0	517.50	42.555784	27.913043

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	348.0000
Normal Approximation	
Z	-2.9138
One-Sided Pr < Z	0.0018
Two-Sided Pr > |Z|	0.0036
t Approximation	
One-Sided Pr < Z	0.0028
Two-Sided Pr > |Z|	0.0056

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	8.5590
DF	1
Pr > Chi-Square	0.0034

The NPAR1WAY Procedure
Treat=cd_4_8

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	23	463.0	540.50	45.518311	20.130435
24	23	618.0	540.50	45.518311	26.869565

Wilcoxon Two-Sample Test	
Statistic	463.0000
Normal Approximation	
Z	-1.6916
One-Sided Pr < Z	0.0454
Two-Sided Pr > |Z|	0.0907
t Approximation	
One-Sided Pr < Z	0.0488
Two-Sided Pr > |Z|	0.0976

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	2.8989
DF	1
Pr > Chi-Square	0.0886

The UNIVARIATE Procedure
Variable: HCV (HCV)
cv_log_naïve

Moments

N	19	**Sum Weights**	19
Mean	3.84786664	**Sum Observations**	73.1094661
Std Deviation	1.63562441	**Variance**	2.6752672
Skewness	-0.1319716	**Kurtosis**	-1.4781717
Uncorrected SS	329.470285	**Corrected SS**	48.1548095
Coeff Variation	42.5073049	**Std Error Mean**	0.37523797

Quantiles (Definition 5)

Quantile	Estimate
100% Max	6.00000
99%	6.00000
95%	6.00000
90%	6.00000
75% Q3	5.35218
50% Median	4.05258
25% Q1	1.69897
10%	1.69897
5%	1.69897
1%	1.69897
0% Min	1.69897

The UNIVARIATE Procedure
Variable: HCV (HCV)
Treat=cv_log time_12_months

Moments			
N	23	**Sum Weights**	23
Mean	1.8309835	**Sum Observations**	42.1126206
Std Deviation	0.51657329	**Variance**	0.26684797
Skewness	2.457642	**Kurtosis**	6.03110656
Uncorrected SS	82.9781689	**Corrected SS**	5.87065527
Coeff Variation	28.2128862	**Std Error Mean**	0.10771298

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	3.58422
99%	3.58422
95%	2.83948
90%	2.73640
75% Q3	1.69897
50% Median	1.69897
25% Q1	1.69897
10%	1.39794
5%	1.39794
1%	1.30103
0% Min	1.30103

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	19	567.0	408.50	37.016974	29.842105
12	23	336.0	494.50	37.016974	14.608696

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	567.0000
Normal Approximation	
Z	4.2683
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	0.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	18.3340
DF	1
Pr > Chi-Square	<.0001

The UNIVARIATE Procedure
Variable: HCV (HCV)
Treat=cv_log time_24_months

Moments

N	23	**Sum Weights**	23
Mean	1.63978574	**Sum Observations**	37.7150719
Std Deviation	0.32821062	**Variance**	0.10772221
Skewness	2.58708864	**Kurtosis**	10.3701658
Uncorrected SS	64.2145257	**Corrected SS**	2.36988866
Coeff Variation	20.0154577	**Std Error Mean**	0.06843665

Quantiles (Definition 5)

Quantile	**Estimate**
100% Max	2.91116
99%	2.91116
95%	1.77085
90%	1.69897
75% Q3	1.69897
50% Median	1.69897
25% Q1	1.39794
10%	1.30103
5%	1.30103
1%	1.30103
0% Min	1.30103

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	19	583.50	408.50	37.949589	30.710526
24	23	319.50	494.50	37.949589	13.891304

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	583.5000
Normal Approximation	
Z	4.5982
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	21.2648
DF	1
Pr > Chi-Square	<.0001

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable HCV Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	23	597.50	540.50	39.336864	25.978261
24	23	483.50	540.50	39.336864	21.021739

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	597.5000
Normal Approximation	
Z	1.4363
One-Sided Pr > Z	0.0755
Two-Sided Pr > |Z|	0.1509
t Approximation	
One-Sided Pr > Z	0.0789
Two-Sided Pr > |Z|	0.1578

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	2.0997
DF	1
Pr > Chi-Square	0.1473

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
cd_4_naïve

Moments			
N	47	**Sum Weights**	47
Mean	353.893617	**Sum Observations**	16633
Std Deviation	235.479182	**Variance**	55450.445
Skewness	1.50883137	**Kurtosis**	2.83466909
Uncorrected SS	8437033	**Corrected SS**	2550720.47
Coeff Variation	66.5395391	**Std Error Mean**	34.3481688

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1171
99%	1171
95%	869
90%	697
75% Q3	467
50% Median	312
25% Q1	202
10%	128
5%	67
1%	30
0% Min	30

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
Treat=cd_4_time_12_months

Moments			
N	47	**Sum Weights**	47
Mean	462.387289	**Sum Observations**	21732.2026
Std Deviation	224.311503	**Variance**	50315.6504
Skewness	1.20229569	**Kurtosis**	1.52505047
Uncorrected SS	12363214.1	**Corrected SS**	2314519.92
Coeff Variation	48.5116067	**Std Error Mean**	32.7191955

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1103.000
99%	1103.000
95%	1009.330
90%	706.000
75% Q3	568.500
50% Median	435.333
25% Q1	266.330
10%	233.000
5%	208.000
1%	191.000
0% Min	191.000

The NPAR1WAY Procedure
Treat=cd_4

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	47	1877.0	2232.50	132.240932	39.936170
12	47	2588.0	2232.50	132.240932	55.063830

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	1877.0000
Normal Approximation	
Z	-2.6845
One-Sided Pr < Z	0.0036
Two-Sided Pr > |Z|	0.0073
t Approximation	
One-Sided Pr < Z	0.0043
Two-Sided Pr > |Z|	0.0086

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	7.2268
DF	1
Pr > Chi-Square	0.0072

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
Treat=cd_4_time_24_months

Moments			
N	47	**Sum Weights**	47
Mean	560.042394	**Sum Observations**	26321.9925
Std Deviation	207.748795	**Variance**	43159.562
Skewness	0.61617295	**Kurtosis**	0.24658514
Uncorrected SS	16726771.6	**Corrected SS**	1985339.85
Coeff Variation	37.0951909	**Std Error Mean**	30.3032763

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1127.00
99%	1127.00
95%	908.00
90%	834.66
75% Q3	662.00
50% Median	554.00
25% Q1	406.00
10%	312.60
5%	279.50
1%	170.00
0% Min	170.00

The NPAR1WAY Procedure
Treat=cd_4

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	47	1596.0	2232.50	132.241409	33.957447
24	47	2869.0	2232.50	132.241409	61.042553

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	1596.0000
Normal Approximation	
Z	-4.8094
One-Sided Pr < Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr < Z	<.0001
Two-Sided Pr > |Z|	<.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	23.1666
DF	1
Pr > Chi-Square	<.0001

The NPAR1WAY Procedure
Treat=cd_4

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	47	1903.50	2232.50	132.240932	40.50
24	47	2561.50	2232.50	132.240932	54.50

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	1903.5000
Normal Approximation	
Z	-2.4841
One-Sided Pr < Z	0.0065
Two-Sided Pr > |Z|	0.0130
t Approximation	
One-Sided Pr < Z	0.0074
Two-Sided Pr > |Z|	0.0148

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	6.1896
DF	1
Pr > Chi-Square	0.0129

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
cd_4:cd_8_naïve

Moments			
N	47	**Sum Weights**	47
Mean	0.39957447	**Sum Observations**	18.78
Std Deviation	0.3236474	**Variance**	0.10474764
Skewness	1.69613778	**Kurtosis**	3.2478416
Uncorrected SS	12.3224	**Corrected SS**	4.81839149
Coeff Variation	80.9980187	**Std Error Mean**	0.04720883

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	1.59
99%	1.59
95%	0.96
90%	0.93
75% Q3	0.50
50% Median	0.30
25% Q1	0.17
10%	0.12
5%	0.06
1%	0.04
0% Min	0.04

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
Treat=cd_4:cd_8_time_12_months

Moments

N	47	**Sum Weights**	47
Mean	0.52791123	**Sum Observations**	24.8118277
Std Deviation	0.33865149	**Variance**	0.11468483
Skewness	1.7241357	**Kurtosis**	3.90472742
Uncorrected SS	18.3739449	**Corrected SS**	5.2755024
Coeff Variation	64.1493259	**Std Error Mean**	0.0493974

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1.807882
99%	1.807882
95%	1.202538
90%	0.992703
75% Q3	0.632539
50% Median	0.481043
25% Q1	0.291814
10%	0.188291
5%	0.167385
1%	0.105423
0% Min	0.105423

The NPAR1WAY Procedure
Treat=cd_4_8

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	47	1901.0	2232.50	132.236154	40.446809
12	47	2564.0	2232.50	132.236154	54.553191

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	1901.0000
Normal Approximation	
Z	-2.5031
One-Sided Pr < Z	0.0062
Two-Sided Pr > |Z|	0.0123
t Approximation	
One-Sided Pr < Z	0.0070
Two-Sided Pr > |Z|	0.0141

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	6.2844
DF	1
Pr > Chi-Square	0.0122

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
Treat=cd_4:cd_8_time_24_months

Moments

N	47	**Sum Weights**	47
Mean	0.65347821	**Sum Observations**	30.713476
Std Deviation	0.31192005	**Variance**	0.09729412
Skewness	1.20759219	**Kurtosis**	2.36382749
Uncorrected SS	24.5461169	**Corrected SS**	4.4755295
Coeff Variation	47.7322804	**Std Error Mean**	0.04549822

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1.739198
99%	1.739198
95%	1.313138
90%	0.964548
75% Q3	0.855786
50% Median	0.614629
25% Q1	0.458201
10%	0.331034
5%	0.232814
1%	0.173293
0% Min	0.173293

The NPAR1WAY Procedure
Treat=cd_4_8

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_0_24

time_0_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	47	1650.0	2232.50	132.236154	35.106383
24	47	2815.0	2232.50	132.236154	59.893617

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	1650.0000
Normal Approximation	
Z	-4.4012
One-Sided Pr < Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr < Z	<.0001
Two-Sided Pr > |Z|	<.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	19.4040
DF	1
Pr > Chi-Square	<.0001

The NPAR1WAY Procedure
Treat=cd_4_8

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	47	1912.0	2232.50	132.241887	40.680851
24	47	2553.0	2232.50	132.241887	54.319149

Wilcoxon Two-Sample Test

Statistic	1912.0000
Normal Approximation	
Z	-2.4198
One-Sided Pr < Z	0.0078
Two-Sided Pr > |Z|	0.0155
t Approximation	
One-Sided Pr < Z	0.0087
Two-Sided Pr > |Z|	0.0175

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	5.8738
DF	1
Pr > Chi-Square	0.0154

The SAS System

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
cv_log_naïve

Moments			
N	39	**Sum Weights**	39
Mean	3.20837	**Sum Observations**	77.0008801
Std Deviation	1.1555229	**Variance**	1.33523317
Skewness	-0.2632938	**Kurtosis**	-1.6299519
Uncorrected SS	277.757677	**Corrected SS**	30.7103629
Coeff Variation	36.0158865	**Std Error Mean**	0.23587012

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	4.69512
99%	4.69512
95%	4.60977
90%	4.53667
75% Q3	4.21188
50% Median	3.55601
25% Q1	1.69897
10%	1.69897
5%	1.69897
1%	1.69897
0% Min	1.69897

The SAS System

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
Treat=cv_log time_12_months

Moments			
N	47	**Sum Weights**	47
Mean	1.83608391	**Sum Observations**	86.2959436
Std Deviation	0.43927616	**Variance**	0.19296354
Skewness	2.18154879	**Kurtosis**	5.34636267
Uncorrected SS	167.322916	**Corrected SS**	8.87632305
Coeff Variation	23.9246234	**Std Error Mean**	0.06407501

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	3.58422
99%	3.58422
95%	2.80889
90%	2.60206
75% Q3	1.77815
50% Median	1.69897
25% Q1	1.69897
10%	1.39794
5%	1.30103
1%	1.30103
0% Min	1.30103

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_0_vs_12

time_0_vs_12	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	39	1233.0	864.0	78.027963	51.375000
12	47	1323.0	1692.0	78.027963	28.148936

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	1233.0000
Normal Approximation	
Z	4.7227
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	22.3641
DF	1
Pr > Chi-Square	<.0001

The UNIVARIATE Procedure
Variable: hepatitis (hepatitis)
Treat=cv_log time_24_months

Moments			
N	47	**Sum Weights**	47
Mean	1.63999142	**Sum Observations**	77.0795966
Std Deviation	0.33100244	**Variance**	0.10956262
Skewness	2.55031731	**Kurtosis**	9.3591623
Uncorrected SS	131.449757	**Corrected SS**	5.03988036
Coeff Variation	20.1831814	**Std Error Mean**	0.04828167

Quantiles (Definition 5)	
Quantile	**Estimate**
100% Max	2.99056
99%	2.99056
95%	1.83251
90%	1.75587
75% Q3	1.69897
50% Median	1.69897
25% Q1	1.39794
10%	1.30103
5%	1.30103
1%	1.30103
0% Min	1.30103

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_0_vs_24

time_0_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
0	39	1296.0	864.0	77.896960	54.000000
24	47	1260.0	1692.0	77.896960	26.808511

Average scores were used for ties.

Wilcoxon Two-Sample Test	
Statistic	1296.0000
Normal Approximation	
Z	5.5394
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001
t Approximation	
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	<.0001

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test	
Chi-Square	30.7558
DF	1
Pr > Chi-Square	<.0001

The NPAR1WAY Procedure
Treat=cv_log

Wilcoxon Scores (Rank Sums) for Variable hepatitis Classified by Variable time_12_vs_24

time_12_vs_24	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	47	2552.0	2232.50	120.312575	54.297872
24	47	1913.0	2232.50	120.312575	40.702128

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	2552.0000
Normal Approximation	
Z	2.6514
One-Sided Pr > Z	0.0040
Two-Sided Pr > |Z|	0.0080
t Approximation	
One-Sided Pr > Z	0.0047
Two-Sided Pr > |Z|	0.0094

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	7.0521
DF	1
Pr > Chi-Square	0.0079

Frequency Col Pct	Table of cd4_diagnosis_transformed by naïve			
	<200	**200-500**	**>500**	**Total**
HIV-HBV	5 20.84	15 62.50	4 16.66	24
HIV-HCV	6 26.09	13 56.52	4 17.39	23
HIV-hepatitis	11 23.41	28 59.57	8 17.02	47
Total	22	56	16	94

Frequency Col Pct	Table of cd4_diagnosis_transformed by 12 months			
	<200	**200-500**	**>500**	**Total**
HIV-HBV	1 4.17	11 45.83	12 50.00	24
HIV-HCV	1 4.17	16 69.57	6 26.08	23
HIV-hepatitis	2 4.26	27 57.45	18 38.29	47
Total	4	54	36	94

Frequency Col Pct	Table of cd4_diagnosis_transformed by 24 months			
	<200	**200-500**	**>500**	**Total**
HIV-HBV	1 4.17	7 29.17	16 66.66	24
HIV-HCV	0 0.00	12 52.17	11 47.83	23
HIV-hepatitis	1 2.13	19 40.43	27 57.44	47
Total	4	54	36	94

Statistics for Table of cd4_diagnosis
HIV-HBV time naïve vs 12

Statistic	DF	Value	Prob
Chi-Square	2	7.282	0.0262

Statistics for Table of cd4_diagnosis

HIV-HBV time naïve vs 24

Statistic	DF	Value	Prob
Chi-Square	2	12.776	0.0017

Statistics for Table of cd4_diagnosis
HIV-HBV time 12 vs 24

Statistic	DF	Value	Prob
Chi-Square	2	1.460	0.4818

Statistics for Table of cd4_diagnosis
HIV-HCV time naïve vs 12

Statistic	DF	Value	Prob
Chi-Square	2	4.282	0.1176

Statistics for Table of cd4_diagnosis
HIV-HCV time naïve vs 24

Statistic	DF	Value	Prob
Chi-Square	2	9.307	0.0095

Statistics for Table of cd4_diagnosis
HIV-HCV time 12 vs 24

Statistic	DF	Value	Prob
Chi-Square	2	3.042	0.2185

Statistics for Table of cd4_diagnosis
hepatitis time naïve vs 12

Statistic	DF	Value	Prob
Chi-Square	2	10.095	0.0064

Statistics for Table of cd4_diagnosis
hepatitis time naïve vs 24

Statistic	DF	Value	Prob
Chi-Square	2	20.371	<.0001

Statistics for Table of cd4_diagnosis
hepatitis time 12 vs 24

Statistic	DF	Value	Prob
Chi-Square	2	3.525	0.1716