

APPENDIX A

Table 4. Correlations of weight with albumin, leukocyte number, percent lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Albumin	Weight	-0.112	0.23
Leukocyte number	Weight	0.122	0.20
% lymphocytes	Weight	-0.211	0.02
Lymphocyte number	Weight	-0.092	0.33
CD4+ (0 hours)	Weight	-0.056	0.56
CD8+ (0 hours)	Weight	0.007	0.94
CD4+ (72 hours)	Weight	-0.007	0.95
CD8+ (72 hours)	Weight	-0.029	0.77
Lymphocyte proliferation	Weight	0.179	0.08
CD4:CD8 (0 hours)	Weight	-0.0137	0.16
CD4:CD8 (72 hours)	Weight	-0.014	0.89
Intracellular calcium	Weight	-0.119	0.21

Table 5. Correlations of albumin with weight, leukocyte number, percent lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	Albumin	-0.113	0.23
Leukocyte number	Albumin	-0.173	0.07
% lymphocytes	Albumin	-0.082	0.39
Lymphocyte number	Albumin	-0.286	0.002
CD4+ (0 hours)	Albumin	-0.187	0.05
CD8+ (0 hours)	Albumin	0.052	0.59
CD4+ (72 hours)	Albumin	-0.011	0.91
CD8+ (72 hours)	Albumin	-0.007	0.99
Lymphocyte proliferation	Albumin	-0.185	0.07
CD4:CD8 (0 hours)	Albumin	-0.137	0.16
CD4:CD8 (72 hours)	Albumin	-0.013	0.89
Intracellular calcium	Albumin	-0.011	0.90

Table 6. Correlations of leukocyte number with weight, albumin, percent lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	Leukocyte number	0.122	0.20
Albumin	Leukocyte number	-0.173	0.07
% lymphocytes	Leukocyte number	-0.382	0.0001
Lymphocyte number	Leukocyte number	0.534	0.0001
CD4+ (0 hours)	Leukocyte number	0.060	0.54
CD8+ (0 hours)	Leukocyte number	-0.195	0.04
CD4+ (72 hours)	Leukocyte number	-0.069	0.48
CD8+ (72 hours)	Leukocyte number	-0.292	0.003
Lymphocyte proliferation	Leukocyte number	0.047	0.65
CD4:CD8 (0 hours)	Leukocyte number	-0.034	0.73
CD4:CD8 (72 hours)	Leukocyte number	0.325	0.0008
Intracellular calcium	Leukocyte number	-0.108	0.26

Table 7. Correlations of percent lymphocytes with weight, albumin, leukocyte number, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	% lymphocytes	-0.211	0.02
Albumin	% lymphocytes	-0.082	0.39
Leukocyte number	% lymphocytes	-0.381	0.0001
Lymphocyte number	% lymphocytes	0.489	0.0001
CD4+ (0 hours)	% lymphocytes	0.224	0.02
CD8+ (0 hours)	% lymphocytes	-0.012	0.91
CD4+ (72 hours)	% lymphocytes	0.126	0.20
CD8+ (72 hours)	% lymphocytes	0.016	0.87
Lymphocyte proliferation	% lymphocytes	0.090	0.38
CD4:CD8 (0 hours)	% lymphocytes	0.046	0.64
CD4:CD8 (72 hours)	% lymphocytes	-0.101	0.31
Intracellular calcium	% lymphocytes	-0.017	0.86

Table 8. Correlations of lymphocyte number with weight, albumin, leukocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	Lymph number	-0.092	0.33
Albumin	Lymph number	-0.286	0.002
Leukocyte number	Lymph number	0.534	0.0001
% lymphocytes	Lymph number	0.489	0.0001
CD4+ (0 hours)	Lymph number	0.287	0.002
CD8+ (0 hours)	Lymph number	-0.188	0.05
CD4+ (72 hours)	Lymph number	0.169	0.08
CD8+ (72 hours)	Lymph number	-0.191	0.05
Lymphocyte proliferation	Lymph number	0.134	0.19
CD4:CD8 (0 hours)	Lymph number	-0.069	0.49
CD4:CD8 (72 hours)	Lymph number	0.104	0.30
Intracellular calcium	Lymph number	-0.085	0.37

Table 9. Correlation of CD4+ cells at time zero with weight, albumin, leukocytes, % lymphocyte number, lymphocyte number, CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	CD4+ (0 hours)	-0.056	0.54
Albumin	CD4+ (0 hours)	-0.187	0.05
Leukocyte number	CD4+ (0 hours)	0.060	0.54
% lymphocytes	CD4+ (0 hours)	0.224	0.02
Lymphocyte number	CD4+ (0 hours)	0.287	0.002
CD8+ (0 hours)	CD4+ (0 hours)	0.423	0.0001
CD4+ (72 hours)	CD4+ (0 hours)	0.013	0.90
CD8+ (72 hours)	CD4+ (0 hours)	-0.115	0.24
Lymphocyte proliferation	CD4+ (0 hours)	-0.133	0.19
CD4:CD8 (0 hours)	CD4+ (0 hours)	0.074	0.46
CD4:CD8 (72 hours)	CD4+ (0 hours)	0.033	0.74
Intracellular calcium	CD4+ (0 hours)	-0.042	0.67

Table 10. Correlations of CD8+ cells at time zero with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	CD8+ (0 hours)	0.006	0.95
Albumin	CD8+ (0 hours)	0.052	0.59
Leukocyte number	CD8+ (0 hours)	-0.195	0.04
% lymphocytes	CD8+ (0 hours)	-0.012	0.90
Lymphocyte number	CD8+ (0 hours)	-0.188	0.05
CD4+ (0 hours)	CD8+ (0 hours)	0.423	0.0001
CD4+ (72 hours)	CD8+ (0 hours)	-0.159	0.106
CD8+ (72 hours)	CD8+ (0 hours)	-0.183	0.05
Lymphocyte proliferation	CD8+ (0 hours)	-0.035	0.74
CD4:CD8 (0 hours)	CD8+ (0 hours)	-0.534	0.0001
CD4:CD8 (72 hours)	CD8+ (0 hours)	-0.158	0.11
Intracellular calcium	CD8+ (0 hours)	0.209	0.03

Table 11. Correlation of CD4+ cells (72 hours) with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	CD4+ (72 hours)	-0.007	0.95
Albumin	CD4+ (72 hours)	-0.011	0.91
Leukocyte number	CD4+ (72 hours)	0.069	0.48
% lymphocytes	CD4+ (72 hours)	0.126	0.20
Lymphocyte number	CD4+ (72 hours)	0.169	0.08
CD4+ (0 hours)	CD4+ (72 hours)	0.013	0.90
CD8+ (0 hours)	CD4+ (72 hours)	-0.159	0.11
CD8+ (72 hours)	CD4+ (72 hours)	0.465	0.0001
Lymphocyte proliferation	CD4+ (72 hours)	0.014	0.90
CD4:CD8 (0 hours)	CD8+ (72 hours)	-0.084	0.40
CD4:CD8 (72 hours)	CD8+ (72 hours)	0.220	0.02
Intracellular calcium	CD4+ (72 hours)	-0.185	0.06

Table 12. Correlations of CD8+ cells (72 hours) with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	CD8+ (72 hours)	-0.029	0.76
Albumin	CD8+ (72 hours)	-0.001	0.99
Leukocyte number	CD8+ (72 hours)	-0.291	0.003
% lymphocytes	CD8+ (72 hours)	0.016	0.87
Lymphocyte number	CD8+ (72 hours)	-0.191	0.05
CD4+ (0 hours)	CD8+ (72 hours)	-0.115	0.24
CD8+ (0 hours)	CD8+ (72 hours)	0.023	0.81
CD4+ (72 hours)	CD8+ (72 hours)	0.465	0.0001
Lymphocyte proliferation	CD8+ (72 hours)	0.037	0.73
CD4:CD8 (0 hours)	CD8+ (72 hours)	-0.100	0.32
CD4:CD8 (72 hours)	CD8+ (72 hours)	-0.307	0.002
Intracellular calcium	CD8+ (72 hours)	0.010	0.92

Table 13. Correlations of lymphocyte proliferation with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), CD4:CD8 (0 hours), CD4:CD8 (72 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	Lymph pro	0.179	0.08
Albumin	Lymph pro	-0.185	0.07
Leukocyte number	Lymph pro	0.047	0.65
% lymphocytes	Lymph pro	0.090	0.38
Lymphocyte number	Lymph pro	0.134	0.19
CD4+ (0 hours)	Lymph pro	0.022	0.83
CD8+ (0 hours)	Lymph pro	-0.035	0.74
CD4+ (72 hours)	Lymph pro	0.014	0.90
CD8+ (72 hours)	Lymph pro	0.037	0.73
CD4:CD8 (0 hours)	Lymph pro	0.092	0.39
CD4:CD8 (72 hours)	Lymph pro	0.088	0.41
Intracellular calcium	Lymph pro	-0.042	0.69

Table 14. Correlations of CD4:CD8 (0 hours) with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), CD4:CD8 (72 hours), lymphocyte proliferation, intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	CD4:CD8 (0 hours)	-0.137	0.16
Albumin	CD4:CD8 (0 hours)	-0.110	0.27
Leukocyte number	CD4:CD8 (0 hours)	0.325	0.0008
% lymphocytes	CD4:CD8 (0 hours)	0.046	0.64
Lymphocyte number	CD4:CD8 (0 hours)	-0.068	0.49
CD4+ (0 hours)	CD4:CD8 (0 hours)	0.074	0.46
CD8+ (0 hours)	CD4:CD8 (0 hours)	-0.534	0.0001
CD4+ (72 hours)	CD4:CD8 (0 hours)	-0.084	0.40
CD8+ (72 hours)	CD4:CD8 (0 hours)	-0.100	0.32
Lymphocyte proliferation	CD4:CD8 (0 hours)	0.092	0.39
CD4:CD8 (72 hours)	CD4:CD8 (0 hours)	0.098	0.33
Intracellular calcium	CD4:CD8 (0 hours)	0.006	0.95

Table 15. Correlations of CD4:CD8 (72 hours) with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), lymphocyte proliferation, CD4:CD8 (0 hours), intracellular calcium.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	CD4:CD8 (72 hours)	-0.013	0.89
Albumin	CD4:CD8 (72 hours)	-0.063	0.53
Leukocyte number	CD4:CD8 (72 hours)	0.325	0.0008
% lymphocytes	CD4:CD8 (72 hours)	-0.101	0.31
Lymphocyte number	CD4:CD8 (72 hours)	0.104	0.30
CD4+ (0 hours)	CD4:CD8 (72 hours)	0.033	0.74
CD8+ (0 hours)	CD4:CD8 (72 hours)	-0.158	0.11
CD4+ (72 hours)	CD4:CD8 (72 hours)	0.220	0.02
CD8+ (72 hours)	CD4:CD8 (72 hours)	-0.307	0.002
Lymphocyte proliferation	CD4:CD8 (72 hours)	0.088	0.41
CD4:CD8 (0 hours)	CD4:CD8 (72 hours)	0.098	0.33
Intracellular calcium	CD4:CD8 (72 hours)	-0.106	0.29

Table 16. Correlations of intracellular calcium flux with weight, albumin, leukocyte number, % lymphocytes, lymphocyte number, CD4+ cells (0 hours), CD8+ cells (0 hours), CD4+ cells (72 hours), CD8+ cells (72 hours), CD4:CD8 (0 hours), CD4:CD8 (72 hours), lymphocyte proliferation.

Variable 1	Variable 2	Correlation Coefficient	p value
Weight	intracellular calcium	-0.0123	0.20
Albumin	intracellular calcium	-0.015	0.88
Leukocyte number	intracellular calcium	-0.096	0.32
% lymphocytes	intracellular calcium	-0.024	0.81
Lymphocyte number	intracellular calcium	-0.078	0.42
CD4+ (0 hours)	intracellular calcium	-0.139	0.14
CD8+ (0 hours)	intracellular calcium	-0.039	0.68
CD4+ (72 hours)	intracellular calcium	0.087	0.36
CD8+ (72 hours)	intracellular calcium	0.078	0.41
Lymphocyte proliferation	intracellular calcium	-0.044	0.66
CD4:CD8 (0 hours)	Intracellular calcium	0.006	0.95
CD4:CD8 (72 hours)	Intracellular calcium	-0.106	0.29

Table 17. The mean difference \pm SEM of weight (lbs) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-0.96	0.06	0.0001
Day 7	-1.36	0.07	0.0001
Day 11	-1.06	0.08	0.0001
Day 14	-1.02	0.09	0.0001
Difference From Day 7			
Day 11	0.30	0.03	0.0001
Day 14	0.33	0.04	0.0001

Table 18. The mean difference \pm SEM of albumin (g/dl) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	0.05	0.02	0.05
Day 7	0.03	0.02	0.25
Day 11	-0.08	0.02	0.0006
Day 14	-0.09	0.02	0.0003
Difference From Day 7			
Day 11	-0.10	0.02	0.0006
Day 14	-0.10	0.03	0.030

Table 19. The mean difference \pm SEM of leukocyte number between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-1.87	0.87	0.04
Day 7	-0.55	0.65	0.41
Day 11	0.22	1.04	0.83
Day 14	-0.27	1.04	0.80
Difference From Day 7			
Day 11	0.93	0.54	0.094
Day 14	0.34	0.76	0.658

Table 20. The mean difference \pm SEM of percent lymphocytes between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-2.85	2.76	0.31
Day 7	-5.41	2.18	0.02
Day 11	-1.32	2.73	0.50
Day 14	-1.05	2.92	0.66
Difference From Day 7			
Day 11	1.43	2.64	0.10
Day 14	2.87	2.05	0.057

Table 21. The mean difference \pm SEM of lymphocyte number between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-0.56	0.23	0.02
Day 7	-0.43	0.23	0.08
Day 11	0.302	0.27	0.26
Day 14	0.03	0.24	0.89
Difference From Day 7			
Day 11	0.73	0.23	0.004
Day 14	0.47	0.19	0.02

Table 22. The mean difference \pm SEM of CD4+ cells (0 hours) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-5.97	2.90	0.06
Day 7	-4.27	2.52	0.09
Day 11	1.12	3.32	0.0002
Day 14	-6.58	2.77	0.50
Difference From Day 7			
Day 11	6.06	2.18	0.007
Day 14	-2.00	2.52	0.46

Table 23. The mean difference \pm SEM of CD8+ cells (0 hours) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	4.28	3.01	0.16
Day 7	5.24	2.60	0.04
Day 11	10.9	2.58	0.0002
Day 14	1.61	2.92	0.50
Difference From Day 7			
Day 11	5.16	2.33	0.04
Day 14	-3.24	2.74	0.20

Table 24. The mean difference \pm SEM of CD4+ cells (72 hours) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-3.09	5.51	0.56
Day 7	-4.69	5.15	0.68
Day 11	-7.26	3.86	0.06
Day 14	8.34	6.19	0.17
Difference From Day 7			
Day 11	0.18	3.05	0.88
Day 14	13.66	4.87	0.01

Table 25. The mean difference \pm SEM of CD8+ cells (72 hours) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	22.84	5.77	0.003
Day 7	17.10	7.24	0.107
Day 11	4.68	6.55	0.517
Day 14	22.70	7.30	0.006
Difference From Day 7			
Day 11	-6.91	5.18	0.31
Day 14	12.76	8.33	0.10

Table 26. The mean difference \pm SEM of lymphocyte proliferation between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-0.01	0.06	0.92
Day 7	-0.07	0.04	0.11
Day 11	-0.01	0.03	0.82
Day 14	-0.08	0.05	0.14
Difference From Day 7			
Day 11	0.07	0.04	0.08
Day 14	-0.01	0.05	0.86

Table 27. The mean difference \pm SEM of CD4:CD8 (0 hours) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-0.67	0.21	0.004
Day 7	-0.66	0.18	0.304
Day 11	-0.70	0.14	0.0001
Day 14	-0.59	0.18	0.004
Difference From Day 7			
Day 11	0.04	0.09	0.66
Day 14	0.07	0.13	0.59

Table 28. The mean difference \pm SEM of CD4:CD8 (72 hours) between treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	-1.12	0.75	0.15
Day 7	-0.99	0.74	0.26
Day 11	-0.96	0.67	0.17
Day 14	-0.82	0.70	0.26
Difference From Day 7			
Day 11	-0.02	0.09	0.09
Day 14	-0.02	0.11	0.85

Table 29. The mean difference \pm SEM of intracellular calcium flux in treatment days.

Difference From Baseline	Mean Difference	SEM	p value
Day 4	1.76	2.13	0.42
Day 7	9.27	3.72	0.02
Day 11	14.28	1.72	0.0001
Day 14	5.59	1.93	0.005
Difference From Day 7			
Day 11	4.99	2.69	0.08
Day 14	-3.52	2.31	0.14