NASA Life Sciences Data Archive

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Mission (Payload): STS-58 (SLS-2)

Experiment title (ID): Regulation of Erythropoiesis During Spaceflight (178012 2/2)

File name/Inventory ID: (EPO dose) Monocyte Data

STATISTICS ON MONOCYTES FROM BONE MARROW CELLS

Note: These are averages of three replicates from each animal. Total bone marrow cells derived from each animal were incubated with 0, 0.25, 0.5 or 1.0U/ml recombinant erythropoietin (see bone marrow data logic-read me file for more information)

Monocytes were measured seven days after the start of incubation.

Data is expressed as number of monocyte colonies per 3.7X10E5 bone marrow cells.

Animal Group

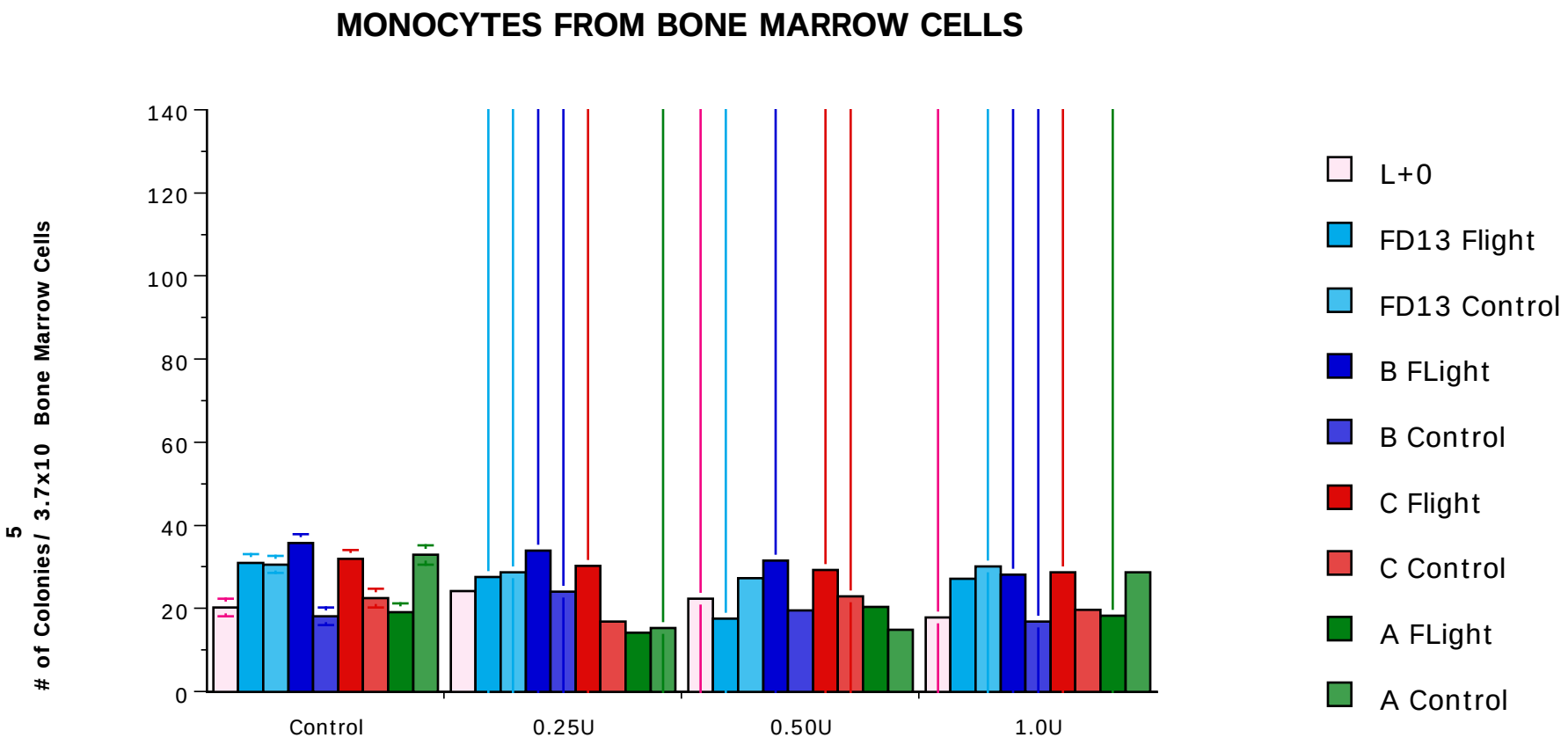
	DAY 7			
L+0	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	15	22	31	24
	45	17	14	19
	32	41	27	15
	15	13	17	11
	15	36	24	11
	13	27	17	17
	13	19	15	15
	16	27	17	25
	21	23	29	25
	17	16	33	18

	DAY 7			
A Flight	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	30	6	11	19
	13	23	14	17
	23	15	21	21
	21	21	44	17
	9	6	12	18

	DAY 7			
A Control	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	75	26	31	59
	21	16	9	23
	25	11	13	17
	19	9	7	20
	25	15	15	25

	DAY 7			
B Flight	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	29	24	23	19
	41	39	36	35
	45	43	38	19
	29	29	28	33
	35	35	33	35
	DAY 7			
B Control	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	8	25	19	18
	22	18	22	19
	11	18	14	7
	21	19	19	21
	29	41	24	20
	DAY 7			
C Flight	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	33	32	37	32
	31	29	24	26
	39	32	29	27
	36	34	30	24
	21	25	27	35
	DAY 7			
C Control	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	11	1	25	27
	15	14	13	19
	15	21	NR	NR
	35	29	29	22
	37	20	25	11
	DAY 7			
FD13 Flight	**CONTROL**	**0.25U EPO**	**0.50U EPO**	**1.0U EPO**
	28	19	19	22
	23	30	13	23
	17	20	20	15
	32	15	9	33
	35	33	27	37
	51	49	18	33

	DAY 7							
FD13 Control	CONTROL		0.25U EPO		0.50U EPO		1.0U EPO	
	26		40		27		25	
	39		11		15		23	
	33		42		35		31	
	30		31		30		37	
	25		21		26		33	
	31		28		31		32	


MONOCYTES FROM BONE MARROW CELLS
# of Colonies/ 3.7x10 5 Bone Marrow Cells
140
120
100
80
60
40
20
0
Control
0.25U
0.50U
1.0U
L+0
FD13 Flight
FD13 Control
B FLight
B Control
C Flight
C Control
A FLight
A Control

AVERAGES OF MONOCYTE DATA FROM NONADHEREN BONE MARROW CELLS INCUBATED IN PRESENCE OF GCSF

Note: No data is given for small monocytes. Large monocytes were measured after bone marrow cells were allowed to incubate 7 days in the presence of GCSF

Data is given as number of colonies per (2X10E5) bone marrow cells.

Note: Data expressed is mean of three replicates of plates that had been cultured for each animal.

Animal group	Large monocytes, day 7			
L+0	**CONTROL**	**60U GCSF**	**120U GCSF**	**240U GCSF**
	X	X	52	X
	16	X	48	28
	44	108	41	53
	137	141	100	157
	104	132	121	125
	X	90	X	88
	117	108	121	148
	163	136	108	149
	137	163	156	152
	111	97	88	128

	Large monocytes, day 7			
A Flight	**CONTROL**	**60U GCSF**	**120U GCSF**	**240U GCSF**
	65	64	45	47
	49	57	56	45
	38	32	27	48
	34	39	48	44
	25	38	35	34

	Large monocytes, day 7			
A Control	**CONTROL**	**60U GCSF**	**120U GCSF**	**240U GCSF**
	52	43	43	53
	59	53	41	53
	39	43	49	59
	46	39	39	55
	37	51	34	25

	Large monocytes, day 7			
B Flight	CONTROL	60U GCSF	120U GCSF	240U GCSF
	102	69	61	55
	52	51	43	50
	35	49	35	37
	73	76	104	71
	40	68	67	49
	Large monocytes, day 7			
B Control	CONTROL	60U GCSF	120U GCSF	240U GCSF
	49	49	59	52
	55	56	55	55
	41	45	55	50
	55	53	41	66
	49	48	54	57
	Large monocytes, day 7			
C Flight	CONTROL	60U GCSF	120U GCSF	240U GCSF
	52	43	42	44
	85	67	78	84
	65	75	97	95
	42	43	49	37
	41	39	41	42
	Large monocytes, day 7			
C Control	CONTROL	60U GCSF	120U GCSF	240U GCSF
	24	41	37	33
	45	57	59	39
	33	33	25	33
	42	54	55	67
	59	76	63	63
	Large monocytes, day 7			
FD13 Flight	CONTROL	60U GCSF	120U GCSF	240U GCSF
	13	17	27	23
	31	35	47	35
	41	48	44	41
	27	31	37	35
	15	15	13	13
	Large monocytes, day 7			
FD13 Control	CONTROL	60U GCSF	120U GCSF	240U GCSF
	43	59	51	56
	18	43	31	27
	44	62	50	45
	17	33	38	32
	85	74	74	60
	28	23	28	47

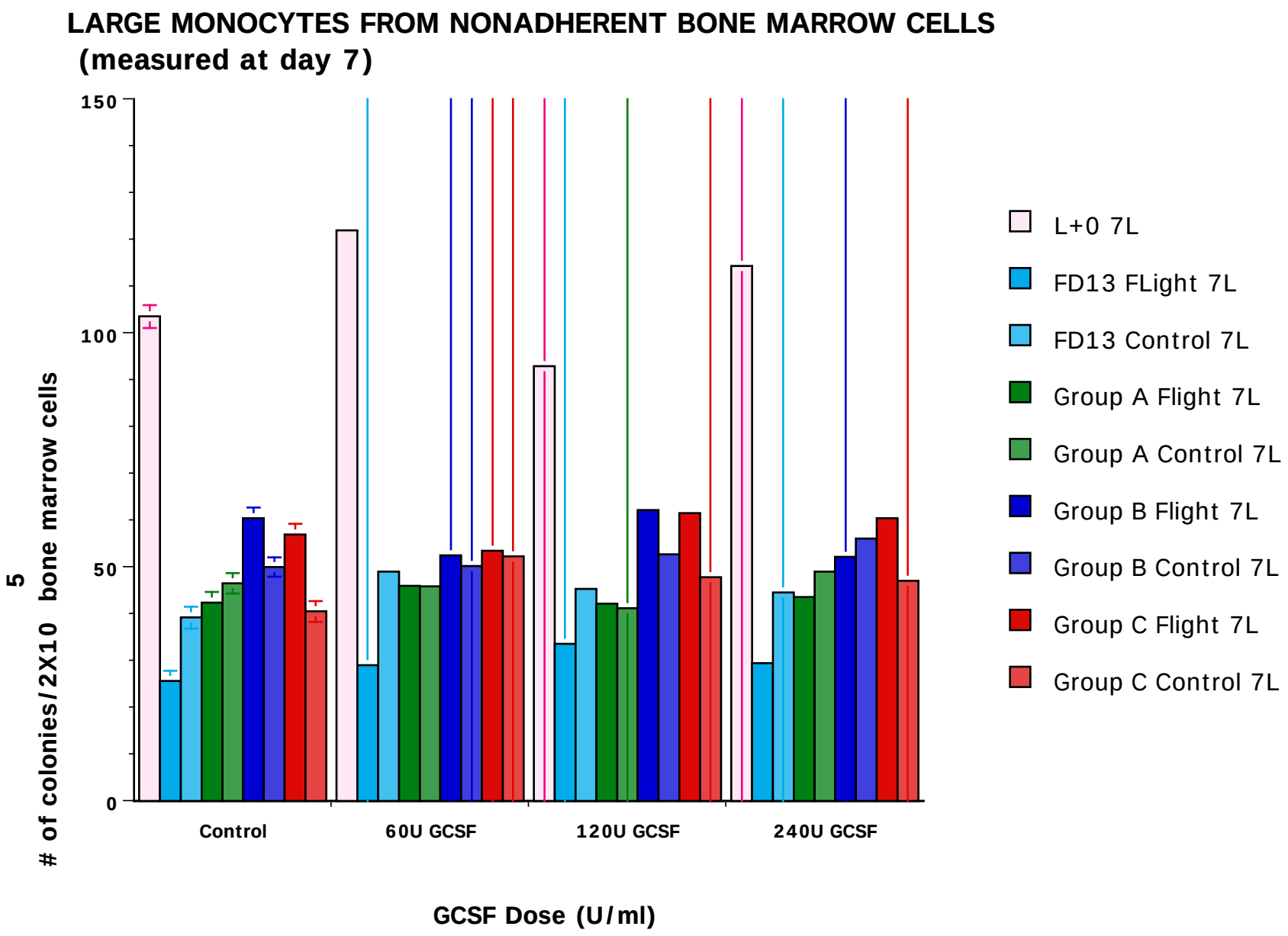
Statistical analysis of comparisons

Large monocytes - Control dose

Groups compared	ANOVA	Wilcoxan	Median
A-F vs A-C	0.6192	0.5309	0.5485
B-F vs B-C	1.0000	0.7122	0.7773
C-F vs C-C	0.1454	0.2492	0.5485
FD13-F vs FD13-C	0.2947	0.2353	0.7518
L+0 vs A-F	0.0229	0.0673	0.0112
L+0 vs A-C	0.0291	0.0923	0.0112
L+0 vs B-F	0.0666	0.1066	0.0190
L+0 vs B-C	0.0372	0.0124	0.0112
L+0 vs C-F	0.0718	0.0923	0.0112
L+0 vs C-C	0.0191	0.0673	0.0112
A-F vs B-F	0.5071	0.3913	0.7773
A-F vs C-F	0.2154	0.2101	0.5485
C-F vs B-F	0.5833	0.4606	0.6547
A-C vs B-C	0.4895	0.5296	0.5485
A-C vs C-C	0.4237	0.4633	0.5485
C-C vs B-C	0.1784	0.2948	0.0719
L+0 vs FD13-F	0.0058	0.0157	0.0112
L+0 vs FD13-C	0.0135	0.0387	0.0374
A-F vs FD13-F	0.0861	0.1437	0.0719
A-C vs FD13-C	0.5546	0.3153	0.3991
B-F vs FD13-F	0.0370	0.0662	0.1198
B-C vs FD13-C	0.3765	0.1699	0.0452
C-F vs FD13-F	0.0123	0.0160	0.0143
C-C vs FD13-C	0.9189	0.6481	0.7518

	Large monocytes - 60U/ml dose			
	Groups compared	**ANOVA**	**Wilcoxan**	**Median**
	A-F vs A-C	0.9843	0.7526	0.9999
	B-F vs B-C	0.0660	0.1161	0.5485
	C-F vs C-C	0.9110	0.9999	0.5485
	FD13-F vs FD13-C	0.0859	0.1207	0.1400
	L+0 vs A-F	0.0001	0.0043	0.0112
	L+0 vs A-C	0.0001	0.0042	0.0112
	L+0 vs B-F	0.0005	0.0043	0.0112
	L+0 vs B-C	0.0001	0.0043	0.0112
	L+0 vs C-F	0.0002	0.0042	0.0112
	L+0 vs C-C	0.0002	0.0043	0.0112
	A-F vs B-F	0.0774	0.0947	0.5485
	A-F vs C-F	0.4549	0.2948	0.9999
	C-F vs B-F	0.3483	0.2087	0.5485
	A-C vs B-C	0.2007	0.2087	0.5485
	A-C vs C-C	0.4363	0.5296	0.5485
	C-C vs B-C	0.8003	0.8345	0.5485
	L+0 vs FD13-F	0.0001	0.0043	0.0112
	L+0 vs FD13-C	0.0001	0.0024	0.0018
	A-F vs FD13-F	0.0861	0.0947	0.0719
	A-C vs FD13-C	0.7359	0.9271	0.7518
	B-F vs FD13-F	0.0035	0.0122	0.0027
	B-C vs FD13-C	0.8899	0.9999	0.7518
	C-F vs FD13-F	0.0338	0.0593	0.0719
	C-C vs FD13-C	0.7729	0.9999	0.7518
	Large monocytes - 120U/ml dose			
	Groups compared	**ANOVA**	**Wilcoxan**	**Median**
	A-F vs A-C	0.8746	0.8345	0.5485
	B-F vs B-C	0.4675	0.5309	0.5485
	C-F vs C-C	0.3391	0.5309	0.5485
	FD13-F vs FD13-C	0.2485	0.2353	0.7518
	L+0 vs A-F	0.0260	0.0399	0.1508
	L+0 vs A-C	0.0221	0.0156	0.0112
	L+0 vs B-F	0.1848	0.2128	0.1508
	L+0 vs B-C	0.0643	0.2716	0.1508
	L+0 vs C-F	0.1710	0.1637	0.1508
	L+0 vs C-C	0.0475	0.1238	0.1508
	A-F vs B-F	0.1647	0.2492	0.5485
	A-F vs C-F	0.1561	0.2963	0.5485
	C-F vs B-F	0.9687	0.9999	0.5485
	A-C vs B-C	0.0205	0.0465	0.0719
	A-C vs C-C	0.4116	0.5309	0.5485
	C-C vs B-C	0.5611	0.9999	0.5485
	L+0 vs FD13-F	0.0125	0.0103	0.0112
	L+0 vs FD13-C	0.0248	0.0330	0.0374

	A-F vs FD13-F	0.3257	0.3457	0.5485
	A-C vs FD13-C	0.6151	0.9273	0.7518
	B-F vs FD13-F	0.0687	0.1437	0.5485
	B-C vs FD13-F	0.3895	0.1709	0.0452
	C-F vs FD13-F	0.0624	0.0947	0.5485
	C-C vs FD13-C	0.8068	0.7842	0.3991
	Large monocytes - 240U/ml dose			
	Groups compared	**ANOVA**	**Wilcoxan**	**Median**
	A-F vs A-C	0.4275	0.1437	0.0719
	B-F vs B-C	0.5346	0.3457	0.5485
	C-F vs C-C	0.3720	0.2963	0.5485
	FD13-F vs FD13-C	0.0751	0.1207	0.1400
	L+0 vs A-F	0.0065	0.0234	0.0072
	L+0 vs A-C	0.0115	0.0386	0.0072
	L+0 vs B-F	0.0147	0.0455	0.0072
	L+0 vs B-C	0.0193	0.0619	0.0072
	L+0 vs C-F	0.0380	0.0619	0.1069
	L+0 vs C-C	0.0103	0.0455	0.0072
	A-F vs B-F	0.1954	0.0947	0.0719
	A-F vs C-F	0.2070	0.9166	0.5485
	C-F vs B-F	0.5481	0.9999	0.5485
	A-C vs B-C	0.3192	0.6761	0.5485
	A-C vs C-C	0.8399	0.9999	0.5485
	C-C vs B-C	0.2861	0.5309	0.5485
	L+0 vs FD13-F	0.0021	0.0113	0.0072
	L+0 vs FD13-C	0.0039	0.0216	0.0043
	A-F vs FD13-F	0.0362	0.0601	0.0719
	A-C vs FD13-C	0.5791	0.7842	0.3991
	B-F vs FD13-F	0.0161	0.0216	0.0719
	B-C vs FD13-C	0.1012	0.1709	0.3991
	C-F vs FD13-F	0.0446	0.0216	0.0719
	C-C vs FD13-C	0.7757	0.6481	0.7518


LARGE MONOCYTES FROM NONADHERENT BONE MARROW CELLS
(measured at day 7)
150
100
50
0
# of colonies/2X10 5 bone marrow cells
Control
60U GCSF
120U GCSF
240U GCSF
GCSF Dose (U/ml)
L+0 7L
FD13 FLight 7L
FD13 Control 7L
Group A Flight 7L
Group A Control 7L
Group B Flight 7L
Group B Control 7L
Group C Flight 7L
Group C Control 7L

MONOCYTE DATA FROM NONADHERENT BONE MARROW CELLS INCUBATED WITH ERYTHROPOIETIN, IL-3, BOTH OR NEITHER

Note: Sample preparation: Bone marrow from rat femur was flushed into 10ml Iscove's modified Dulbecco medium with pen/strep and fetal calf serum and incubated to obtain nonadherent marrow cells. These cells were then incubated with 0.25U/ml recombinant Erythropoietin, with 6U/ml recombinant IL-3, or both. Seven days later large andsmall monocytes were measured. Data is given as number of colonies per ($2X10^5$) bone marrow cells

Day 7 SMALL

L+0	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
1	28	36	*	**32**	40	52	48	**47**	140	108	44	**97**	156	140	64	**120**
2	*	40	44	**42**	48	40	44	**44**	116	112	128	**119**	80	96	124	**100**
3	*	36	40	**38**	48	*	60	**54**	120	108	140	**123**	*	*84	136	**73**
4	100	32	40	**57**	56	52	64	**57**	136	156	72	**121**	72	68	72	**71**
5	108	44	20	**57**	56	96	96	**83**	44	56	28	**43**	32	44	52	**43**
6	88	84	68	**80**	76	96	88	**87**	80	96	104	**93**	76	80	64	**73**
7	12	36	76	**41**	28	68	60	**52**	136	112	*20	**89**	132	124	*	**128**
8	84	56	48	**63**	36	44	60	**47**	124	136	20	**93**	*68	96	92	**85**
9	76	0	72	**49**	68	80	56	**68**	80	100	116	**99**	92	112	132	**112**
10	32	48	32	**37**	28	36	72	**45**	*52	*120	108	**93**	108	116	88	**104**

Day 7 LARGE

L+0	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
1	0	0	*	**0**	0	0	4	**1**	92	84	76	**84**	116	112	88	**105**
2	*	4	8	**6**	0	12	0	**4**	124	100	104	**109**	140	80	116	**112**
3	*	4	0	**1**	8	*	0	**4**	84	96	92	**91**	*	*108	84	**96**
4	0	4	0	**1**	0	0	0	**0**	76	88	104	**89**	120	60	112	**97**
5	0	16	12	**9**	16	24	12	**17**	64	124	76	**88**	112	42	60	**71**
6	12	16	0	**9**	0	8	0	**3**	92	84	100	**92**	108	96	80	**95**
7	0	4	4	**3**	0	0	0	**0**	124	132	*44	**100**	76	96	*	**86**
8	0	0	4	**1**	0	0	0	**0**	116	108	116	**113**	*80	124	92	**99**
9	4	24	0	**9**	8	0	0	**3**	88	108	56	**84**	116	88	136	**113**
10	0	0	12	**4**	0	0	0	**0**	*76	*96	112	**95**	84	64	76	**75**

DAY 7 SMALL

GROUP A	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
C2	64	54	76	**65**	46	68	52	**55**	54	96	108	**86**	82	78	62	**74**
J1	62	50	64	**59**	44	42	42	**43**	68	64	70	**67**	48	54	52	**51**
C1	48	64	56	**56**	30	42	28	**33**	60	74	72	**69**	76	*	*	**76**
D1	72	30	44	**49**	84	72	74	**77**	66	58	56	**60**	52	52	*68	**57**
E2	34	30	40	**35**	52	42	48	**47**	42	52	54	**49**	68	70	62	**67**

DAY 7 LARGE

GROUP A	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
C2	0	0	0	**0**	0	0	0	**0**	72	66	74	**71**	62	64	72	**66**
J1	0	0	0	**0**	0	0	2	**1**	82	84	92	**86**	52	66	64	**61**
C1	0	0	0	**0**	0	0	0	**0**	50	70	56	**59**	62	*	*	**62**
D1	0	4	0	**1**	0	0	0	**0**	50	44	52	**49**	78	88	*72	**79**
E2	0	0	0	**0**	0	0	0	**0**	48	64	44	**52**	56	52	58	**55**

DAY 7 SMALL

GROUP A	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
D3	56	68	58	**61**	64	66	52	**61**	74	78	84	**79**	82	88	74	**81**
H3	72	80	74	**75**	56	68	58	**61**	60	64	58	**61**	72	64	78	**71**
B5	50	74	66	**63**	64	62	57	**61**	84	88	72	**81**	78	76	82	**79**
C5	64	70	80	**71**	54	50	62	**55**	56	66	70	**64**	92	96	86	**91**
C4	60	58	64	**61**	62	50	48	**53**	62	68	66	**65**	78	64	76	**73**

DAY 7 LARGE

GROUP A	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
D3	0	0	0	**0**	0	0	0	**0**	80	76	88	**81**	66	76	82	**75**
H3	0	0	0	**0**	0	4	0	**1**	76	54	68	**66**	84	80	66	**77**
B5	0	0	0	**0**	0	0	0	**0**	62	76	96	**78**	72	84	74	**77**
C5	0	0	0	**0**	0	0	0	**0**	82	80	92	**85**	102	88	98	**96**
C4	0	0	0	**0**	0	0	0	**0**	84	82	74	**80**	74	66	76	**72**

DAY 7 SMALL

GROUP B	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
E5	32	38	46	**39**	48	26	36	**37**	98	82	86	**89**	*	98	102	**100**
K3	26	36	42	**35**	36	56	30	**41**	64	74	78	**72**	112	100	104	**105**
F1	36	44	52	**44**	44	68	54	**55**	60	64	76	**67**	60	72	68	**67**
H5	30	34	40	**35**	46	54	68	**56**	76	88	NR	**82**	62	66	74	**67**
J4	50	48	54	**51**	46	50	44	**47**	84	106	92	**94**	52	44	62	**53**

DAY 7 LARGE

GROUP B	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
E5	0	0	0	**0**	2	0	10	**4**	72	58	60	**63**	*	62	74	**68**
K3	2	0	0	**1**	0	16	0	**5**	52	58	48	**53**	48	74	68	**63**
F1	0	2	2	**1**	0	0	8	**3**	62	66	58	**62**	74	78	82	**78**
H5	0	0	0	**0**	0	10	0	**3**	68	58	NR	**63**	58	54	72	**61**
J4	0	0	0	**0**	0	0	10	**3**	52	74	68	**65**	34	38	58	**43**

DAY 7 SMALL

GROUP B	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
A2	30	42	54	**42**	62	76	58	**65**	32	42	40	**38**	88	98	NR	**93**
B3	46	44	52	**47**	38	48	40	**42**	74	56	92	**74**	86	98	82	**89**
F3	46	56	54	**52**	44	38	48	**43**	62	84	88	**78**	104	108	108	**107**
G1	78	64	62	**68**	62	56	58	**59**	88	96	80	**88**	100	84	98	**94**
G5	58	68	70	**65**	48	46	48	**47**	104	102	110	**105**	76	90	102	**89**

DAY 7 LARGE

GROUP B	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
A2	0	4	0	**1**	0	0	0	**0**	60	54	58	**57**	54	52	NR	**53**
B3	0	0	0	**0**	4	0	0	**1**	58	64	78	**67**	78	94	64	**79**
F3	6	0	0	**2**	0	2	0	**1**	56	66	72	**65**	82	98	84	**88**
G1	14	8	10	**11**	4	2	0	**2**	76	78	52	**69**	64	72	60	**65**
G5	0	6	0	**2**	34	0	6	**13**	84	68	78	**77**	62	72	60	**65**

DAY 7 SMALL

GROUP C	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
K1	86	64	36	**62**	42	36	46	**41**	72	76	78	**75**	78	82	84	**81**
G2	18	46	32	**32**	16	56	44	**39**	94	68	52	**71**	76	74	94	**81**
A3	28	34	42	**35**	*36	46	64	**49**	60	58	70	**63**	62	78	82	**74**
K4	58	*	54	**56**	72	74	92	**79**	*	76	94	**85**	58	78	76	**71**
K2	74	36	46	**52**	46	40	50	**45**	52	60	72	**61**	86	82	106	**91**

DAY 7 LARGE

GROUP C	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
K1	4	6	0	**3**	6	10	12	**9**	86	94	82	**87**	64	88	78	**77**
G2	0	0	2	**1**	6	0	6	**4**	102	52	46	**67**	84	88	56	**76**
A3	0	0	0	**0**	*2	0	0	**1**	68	62	46	**59**	74	92	102	**89**
K4	0	*	0	**0**	4	2	0	**2**	*	56	66	**61**	72	68	78	**73**
K2	0	0	6	**2**	2	18	6	**9**	76	76	68	**73**	70	78	62	**70**

DAY 7 SMALL

GROUP C	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
I3	42	48	30	**40**	44	34	32	**37**	66	82	88	**79**	60	78	68	**69**
I4	52	68	62	**61**	52	54	62	**56**	136	106	NR	**121**	82	78	84	**81**
F4	26	26	28	**27**	*	18	26	**22**	34	42	52	**43**	94	80	96	**90**
G3	58	52	60	**57**	64	62	68	**65**	74	70	86	**77**	92	106	114	**104**
H1	44	42	38	**41**	46	34	50	**43**	64	68	66	**66**	38	64	56	**53**

DAY 7 LARGE

GROUP C	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG	1	2	3	AVG
I3	0	2	0	**1**	0	4	4	**3**	52	64	54	**57**	66	64	72	**67**
I4	0	0	0	**0**	4	2	6	**4**	66	82	NR	**49**	62	40	36	**46**
F4	0	0	0	**0**	*	0	0	**0**	50	32	42	**41**	80	46	78	**68**
G3	0	0	0	**0**	0	0	0	**0**	62	58	80	**67**	58	76	70	**68**
H1	0	0	0	**0**	0	0	0	**0**	58	56	54	**56**	84	82	74	**80**

DAY 7 SMALL

FD 13	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**
1	48	92	84	**75**	42	44	48	**45**	48	62	64	**58**	88	80	70	**79**
2	92	44	80	**72**	18	52	32	**34**	64	44	48	**52**	36	36	46	**39**
3	124	120	136	**127**	88	76	70	**78**	54	68	64	**62**	86	82	64	**77**
4	60	72	68	**67**	54	*	42	**48**	*	30	52	**27**	78	84	102	**88**
5	108	124	112	**115**	36	54	64	**51**	92	106	108	**102**	88	74	84	**82**
6	80	96	64	**80**	32	28	38	**33**	68	*	84	**51**	44	48	42	**45**

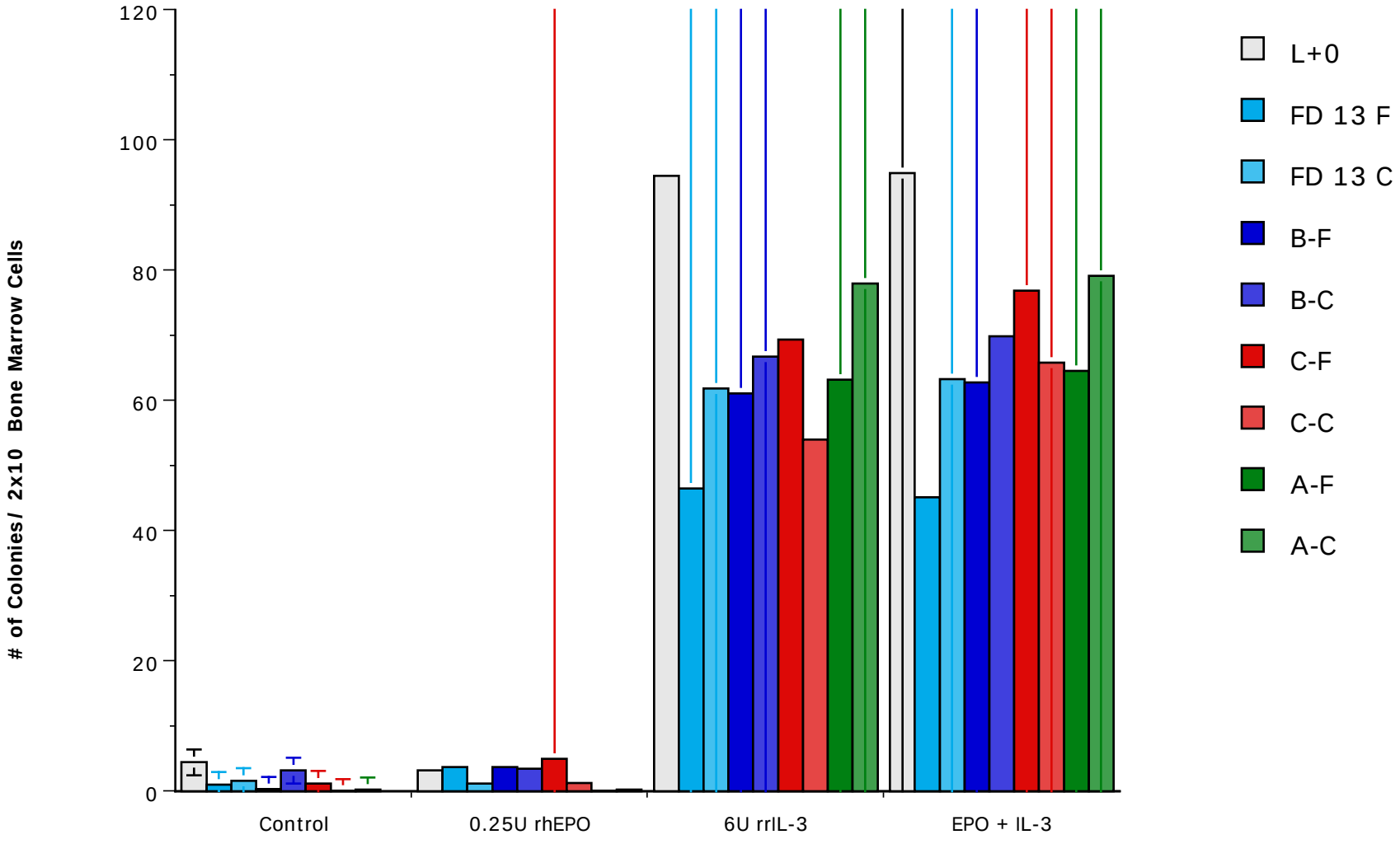
DAY 7 LARGE

FD 13	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
G CONTROL	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**
1	2	0	0	**1**	6	0	4	**3**	66	44	58	**56**	64	46	42	**51**
2	6	2	6	**5**	0	0	0	**0**	58	40	42	**47**	46	50	48	**48**
3	0	12	0	**4**	0	0	12	**4**	76	58	62	**65**	74	78	66	**73**
4	0	0	0	**0**	0	*	0	**0**	*	68	78	**73**	76	94	64	**78**
5	0	0	0	**0**	0	0	0	**0**	64	72	78	**71**	62	102	78	**81**
6	2	0	0	**1**	0	0	0	**0**	56	*	62	**59**	38	54	58	**50**

DAY 7 SMALL

FD 13	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**
1	*	24	34	**29**	26	32	28	**29**	30	20	26	**25**	34	28	32	**31**
2	50	66	42	**53**	64	50	56	**57**	64	70	86	**73**	88	78	72	**79**
3	34	46	62	**47**	42	52	58	**51**	62	44	46	**51**	58	56	62	**59**
4	14	20	24	**19**	20	24	32	**25**	38	42	52	**44**	10	26	38	**25**
5	**DID NOT CULTURE**															
6	22	28	26	**25**	26	10	26	**21**	20	18	36	**25**	24	32	24	**27**

DAY 7 LARGE

FD 13	CONTROL				0.25U EPO				6U rrIL-3				EPO + rrIL-3			
FLIGHT	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**	**1**	**2**	**3**	**AVG**
1	*	0	0	**0**	0	0	0	**0**	36	32	38	**35**	30	34	28	**31**
2	6	0	2	**3**	14	4	10	**9**	62	58	74	**65**	66	54	68	**63**
3	0	0	0	**0**	0	0	0	**0**	24	52	56	**44**	70	52	72	**65**
4	2	0	0	**1**	0	4	0	**1**	48	64	76	**63**	30	32	58	**40**
5	**DID NOT CULTURE**															
6	0	2	4	**2**	10	8	6	**8**	26	30	22	**26**	28	26	30	**28**

LARGE MONOCYTES FROM NONADHERENT BONE MARROW CELLS (measured at day 7)