



Supplementary Materials for

Marburg virus infection in nonhuman primates: Therapeutic treatment by lipid-encapsulated siRNA

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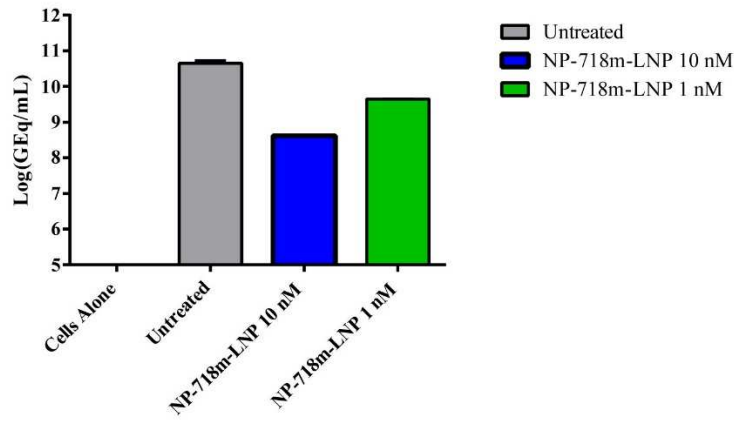
Fig. S1. NP-718m–LNP RNAi mechanism of action confirmation.

Fig. S2. Clinical pathology parameters of MARV HF in NP-718m–LNP–treated, untreated, and Luc LNP–administered animals.

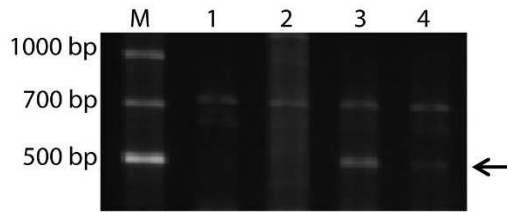
Table S1. Hematology results.

Table S2. Clinical chemistry results.

A



B



C 5' GAUUCUCAGGACUUCUUAUUG 3' NP 718m siRNA
 3' AUCUAAGAGUCCUGAAGAAUA 5'

5' RACE PCR Product Sequence

mRNA Cleavage site
 ↓

RNA Adaptor

CGACTGGAGCACGAGGACACTGGACTGAAGGAGTAGAAA GACTTCTTATTGTGA
 AAACAGTTCTCGAGTTCATCTTGCAAAAACTGATTCAGGGGTGACACTACATCCTTTGG
 TGCGGACCTCCAAAGTGAAAAACGAAGTTGCTAGTTTCAAGCAGGCGTTGAGCAACTTAG
 CCCGACACGGAGAGTACGCACCAATTTGCACGGGTTTTGAATTTATCAGGGATTAACAATC
 TCGAACATGGACTCTATCCTCAGCTCTCAGCAATTGCGCTGGGTGTAGCGACAGCACATG
 GCAGTACATTGGCTGGTGTCAATGTCGGCGAACAATATCAACAGCTACGAGAGGCAGCAC
 ATGATGCAGAAGTAAAAC TACAAAGACGACATGAACATCAGGAAATTC AAGCTATTGCCG
 AAGATGACGAGGAAAGGAAGATATAGAACAAT

Fig. S1. NP-718m–LNP RNAi mechanism of action confirmation. HepG2 cells were treated with NP-718m-LNP (10 nM and 1 nM) for 24 h and then infected with MARV Angola at an MOI of 0.1. Supernatants and cells were harvested 24 h post-infection and subjected to (A) qRT-PCR to assess reduction in viral replication, data shown are means \pm SEM; and (B) 5'-RACE PCR to confirm the production of mRNA cleavage products of the expected size (505 bp). (C) Sequencing of 5'-RACE PCR confirms the expected mRNA cleavage site dictated by positions 10 and 11 of the guide siRNA strand.

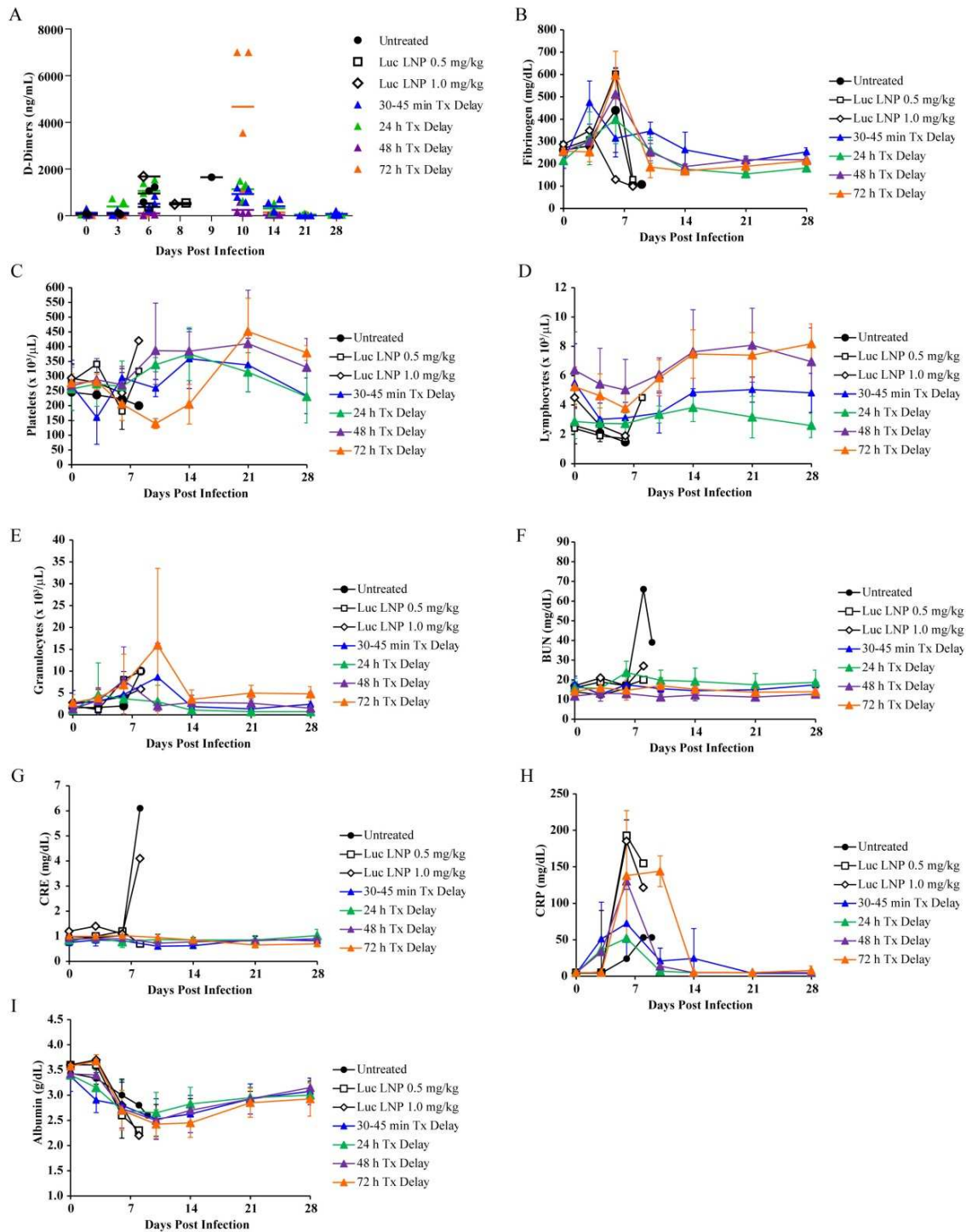


Fig. S2. Clinical pathology parameters of MARV HF in NP-718m-LNP-treated, untreated and Luc LNP-administered animals. (A) D-dimers; (B) Fibrinogen; (C) Platelets; (D) Lymphocytes; (E) Granulocytes; (F) Blood urea nitrogen (BUN); (G) Creatinine (CRE); (H) C-reactive protein (CRP); (I) Albumin. All graphs depict means \pm SD, with the exception of (A) where means are depicted only.

Supplementary Table 1: Hematology results.

Subj. No.	Group	Day PI	WBC	RBC	HgB	HCT	PLT	Lymph	%Lymph	MCV	MCH	MCHC	MO	GR	%MO	%GR	%RDW	MPV
0308904	Control	Prebleed	4.1	4.61	11.9	35.5	356	1.4	35.1	76.9	25.8	33.5	0.3	2.3	7.7	57.2	12.7	8.3
0308904	Control	3	4.0	4.57	11.5	35.0	324	1.5	37.8	76.5	25.0	32.7	0.4	2.1	9.8	52.4	12.9	8.4
0308904	Control	6	4.2	4.27	10.9	32.3	340	1.5	34.6	75.7	25.5	33.7	0.1	2.6	2.4	63.0	12.8	8.1
0904099	Control	Prebleed	9.0	5.59	13.0	39.9	288	4.5	49.9	71.4	23.3	32.6	1.0	3.5	11.3	38.8	14.1	9.3
0904099	Control	3	4.1	4.45	10.7	32.7	203	2.7	66.5	73.6	24.1	32.7	0.3	1.0	8.4	25.1	13.3	9.3
0904099	Control	6	3.4	4.40	10.7	32.2	180	1.4	40.4	73.2	24.3	33.1	0.2	1.8	6.4	53.2	13.3	8.7
0904099	Control	8	18.4	4.97	12.3	37.3	343	NR	NR	75.0	24.7	32.9	NR	NR	NR	NR	14.4	9.3
0707061	Control	Prebleed	6.5	5.41	13.3	37.1	214	3.9	59.9	68.7	24.6	35.8	0.4	2.2	6.4	33.7	13.1	9.7
0707061	Control	3	4.6	4.88	11.3	33.1	182	2.1	45.7	67.9	23.1	34.1	0.5	2.0	10.1	44.2	13.4	9.3
0707061	Control	6	3.6	4.99	11.4	34.1	148	1.5	41.7	68.5	22.9	33.4	0.4	1.7	10.1	48.2	13.3	9.3
0707061	Control	9	19.6	4.26	10.0	29.5	200	8.1	41.1	69.2	23.5	33.9	1.6	10.0	8.0	50.9	13.7	9.2
0907042	Control	Prebleed	4.8	3.37	8.8	25.8	283	2.4	49.8	76.3	26.2	34.3	0.4	2.1	7.4	42.8	11.9	7.6
0907042	Control	3	3.7	3.70	9.5	28.0	341	1.9	50.0	75.6	25.6	33.9	0.7	1.2	17.6	32.4	11.9	7.5
0907042	Control	6	10.8	3.52	8.9	26.3	181	1.7	16.1	74.7	25.4	34.0	0.9	8.1	8.5	75.4	11.6	7.8
0907042	Control	8	10.6	3.49	9.1	25.5	317	4.5	42.8	73.0	26.1	35.7	0.2	5.9	1.6	55.6	11.8	7.8
0903269	Control	Prebleed	8.0	5.66	14.1	41.3	293	4.5	56.1	73.0	25.0	34.2	0.7	2.8	8.9	35.0	13.2	7.2
0903269	Control	3	7.0	5.92	13.8	42.5	278	2.6	37.8	71.8	23.4	32.6	1.2	3.1	17.8	44.4	13.4	6.8
0903269	Control	6	6.3	5.68	13.4	39.5	243	1.9	30.2	69.4	23.6	34.0	0.2	4.2	2.7	67.1	13.8	6.9
0903269	Control	8	41.2	5.62	13.7	40.6	420	NR	NR	72.1	24.3	33.8	NR	NR	NR	NR	14.2	8.3
0908097	30-45	Prebleed	10.1	5.92	14.3	43.5	214	2.9	29.2	73.5	24.1	32.8	0.7	6.4	7.1	63.7	13.4	9.1
0908097	30-45	3	7.9	4.32	10.5	31.5	137	1.9	24.0	73.1	24.3	33.2	0.8	5.2	10.2	65.8	13.6	9.5
0908097	30-45	6	4.3	3.89	9.5	28.4	286	2.5	57.0	73.0	24.4	33.5	0.3	1.6	6.7	36.3	14.0	9.0
0908097	30-45	10	4.2	4.08	9.9	29.6	239	1.5	36.7	72.5	24.2	33.3	0.2	2.5	4.5	58.8	14.5	9.1
0908097	30-45	14	6.8	3.83	9.2	27.4	233	4.8	70.3	71.5	24.0	33.6	1.1	0.9	15.8	13.9	14.1	10.5
0908097	30-45	21	7.8	4.66	11.2	34.3	278	6.1	78.3	73.4	24.1	32.8	0.7	1.0	8.5	13.2	14.4	9.8
0908097	30-45	28	7.0	4.88	11.7	35.6	192	5.0	71.2	73.1	24.1	33.0	0.7	1.3	10.4	18.4	14.4	9.6
08083572	30-45	Prebleed	6.9	4.39	11.1	33.3	275	4.0	57.3	75.8	25.2	33.2	0.6	2.4	8.2	34.5	12.9	8.8
08083572	30-45	3	3.9	4.00	10.1	30.0	42	2.3	58.0	75.0	25.2	33.6	0.5	1.1	12.8	29.2	12.2	9.4
08083572	30-45	6	4.0	4.43	11.1	33.8	313	2.0	48.9	76.1	25.1	33.0	0.2	1.8	5.9	45.2	12.8	8.4
08083572	30-45	10	6.4	4.48	11.3	33.7	301	4.1	64.7	75.2	25.2	33.5	0.6	1.7	9.4	25.9	12.6	8.6
08083572	30-45	14	7.5	4.22	10.6	31.5	339	5.0	66.6	74.7	25.2	33.8	0.6	1.9	8.6	24.8	12.6	8.7
08083572	30-45	21	6.2	4.18	10.5	31.4	285	4.0	64.4	75.0	25.1	33.5	0.7	1.5	10.6	25.0	12.8	8.9
08083572	30-45	28	5.3	2.97	7.4	22.5	205	2.9	55.4	75.7	24.9	32.8	0.6	1.7	11.9	32.7	12.8	8.4
0906057	30-45	Prebleed	5.4	3.87	9.9	29.0	243	4.4	81.5	75.0	25.6	34.2	0.5	0.5	9.3	9.2	13.4	8.4
0906057	30-45	3	4.5	3.58	9.2	26.6	217	3.7	82.1	74.5	25.6	34.4	0.3	0.5	6.3	11.6	13.3	8.7
0906057	30-45	6	6.9	4.40	11.0	32.7	273	3.7	54.1	74.4	25.0	33.6	0.5	2.7	6.9	39.0	13.3	8.3
0906057	30-45	10	21.9	5.12	12.1	36.1	239	3.6	16.5	70.4	23.7	33.7	0.9	17.4	4.0	79.5	12.5	8.8
0906057	30-45	14	5.1	4.34	10.6	31.7	390	4.5	88.5	73.0	24.5	33.5	0.3	0.3	6.3	5.2	13.3	8.5

Subj. No.	Group	Day PI	WBC	RBC	HgB	HCT	PLT	Lymph	%Lymph	MCV	MCH	MCHC	MO	GR	%MO	%GR	%RDW	MPV
0906057	30-45	21	5.8	4.26	10.4	31.2	317	5.1	87.7	73.4	24.4	33.3	0.3	0.4	5.2	7.1	13.4	8.9
0906057	30-45	28	6.3	4.36	10.7	32.1	214	5.5	87.6	73.6	24.5	33.3	0.4	0.4	6.6	5.8	13.9	9.0
R080062	30-45	Prebleed	21.5	4.39	11.7	34.7	381	9.5	44.4	79.1	26.6	33.7	5.1	6.9	23.5	32.1	12.7	8.0
R080062	30-45	3	13.4	4.99	13.1	39.1	243	4.2	31.7	78.3	26.3	33.6	3.6	5.6	26.8	41.5	13.3	8.5
R080062	30-45	6	19.1	4.21	10.9	32.8	306	4.3	22.3	77.7	25.9	33.3	2.4	12.5	12.4	65.3	13.4	8.8
R080062	30-45	10	18.0	4.35	11.0	33.0	259	4.6	25.4	75.9	25.4	33.4	0.7	12.8	3.7	70.9	12.9	9.2
R080062	30-45	14	10.2	4.03	10.2	31.1	474	5.1	50.1	77.1	25.3	32.8	0.7	4.4	7.1	42.8	12.9	8.9
R080062	30-45	21	10.2	3.99	10.2	30.9	472	5.0	48.8	77.4	25.6	33.1	2.6	2.6	25.7	25.5	13.8	8.7
R080062	30-45	28	14.5	4.19	10.5	32.6	323	5.9	40.4	77.7	25.2	32.4	2.2	6.4	15.3	44.3	13.7	8.5
0806012	24 h	Prebleed	3.7	4.78	12.1	35.7	240	2.1	57.0	74.8	25.2	33.8	0.2	1.4	5.9	37.1	14.1	7.5
0806012	24 h	3	3.38	4.49	11.1	32.9	240	2.2	56.8	73.2	24.8	33.9	0.4	1.2	10.4	32.8	12.9	8.3
0806012	24 h	6	4.1	3.84	9.7	29.0	261	2.0	48.1	75.4	25.3	33.5	0.3	1.8	7.5	44.4	14.2	7.4
0806012	24 h	10	5.9	3.89	9.7	29.5	343	3.4	57.2	75.8	24.9	32.9	0.6	1.9	10.5	32.3	15.6	7.7
0806012	24 h	14	6.0	4.44	10.9	33.1	478	4.3	71.2	74.5	24.6	33.1	0.4	1.3	6.6	22.2	15.9	7.5
0806012	24 h	21	4.5	4.45	11.2	33.1	302	2.8	63.2	74.3	25.0	33.7	0.4	1.2	9.2	27.6	14.8	7.8
0806012	24 h	28	4.1	4.17	10.4	30.8	211	3.2	77.3	73.9	25.0	33.8	0.2	0.8	3.8	18.9	14.6	7.7
0704019	24 h	Prebleed	3.7	5.02	13.7	37.5	181	2.4	66.1	74.8	27.3	36.5	0.2	1.1	4.7	29.2	13.3	10.2
0704019	24 h	3	18.4	5.43	13.7	40.1	219	2.0	10.9	73.9	25.2	34.1	0.8	15.6	4.1	85.0	13.5	10.0
0704019	24 h	6	4.3	4.27	10.7	31.3	245	2.2	51.8	73.3	25.0	34.0	0.4	1.7	8.6	39.6	13.9	10.1
0704019	24 h	10	3.9	4.45	11.0	32.1	359	2.6	67.5	72.1	24.7	34.3	0.3	1.0	7.8	24.7	13.9	8.6
0704019	24 h	14	3.8	4.77	11.7	34.3	260	2.5	66.6	71.9	24.6	34.2	0.2	1.1	4.8	28.6	13.7	9.8
0704019	24 h	21	2.4	4.35	10.6	31.1	230	1.6	64.5	71.4	24.4	34.2	0.3	0.6	11.7	23.8	13.1	10.1
0704019	24 h	28	2.6	5.04	12.2	36.5	172	1.7	66.6	72.4	24.2	33.4	0.2	0.7	5.9	27.5	12.9	10.2
0908021	24 h	Prebleed	5.9	4.45	12.0	32.6	339	4.8	80.7	73.1	26.9	36.9	0.3	0.9	4.3	15.0	12.3	7.0
0908021	24 h	3	3.9	4.29	11.0	32.4	250	2.5	63.0	75.4	25.6	33.9	0.4	1.0	11.3	25.7	13.9	7.5
0908021	24 h	6	4.7	4.11	10.4	30.0	381	3.5	74.8	73.1	25.2	34.5	0.5	0.7	11.0	14.2	12.6	6.8
0908021	24 h	10	5.0	4.21	10.6	31.4	350	4.0	80.2	74.6	25.2	33.7	0.4	0.6	8.8	11.0	13.1	6.6
0908021	24 h	14	5.7	4.03	10.0	29.0	393	4.7	82.9	72.0	24.9	34.6	0.5	0.5	8.1	9.0	13.3	7.1
0908021	24 h	21	5.7	3.96	10.0	29.4	388	4.9	86.0	74.3	25.2	33.9	0.4	0.4	6.8	7.2	12.5	7.0
0908021	24 h	28	4.1	3.88	9.7	28.3	361	3.4	82.2	73.0	24.9	34.2	0.3	0.4	8.0	9.8	13.2	7.0
08R0002	24 h	Prebleed	3.9	4.90	11.9	35.5	226	2.2	56.8	72.5	24.3	33.5	0.3	1.4	8.5	34.7	13.3	9.2
08R0002	24 h	3	5.3	3.98	10.1	28.7	386	4.3	81.0	72.0	25.3	35.1	0.6	0.4	11.2	7.8	12.6	6.9
08R0002	24 h	6	13.9	4.24	10.5	30.9	173	3.2	22.7	72.9	24.7	33.9	0.3	10.5	2.1	75.2	13.1	8.9
08R0002	24 h	10	12.9	4.62	11.5	33.1	304	3.4	26.3	71.6	25.0	34.9	0.9	8.6	7.2	66.5	13.6	9.3
08R0002	24 h	14	5.8	4.46	10.6	32.5	370	3.8	66.0	72.8	23.8	32.7	0.5	1.5	8.4	25.6	12.9	9.2
08R0002	24 h	21	5.3	4.68	11.5	33.5	334	3.5	65.4	71.6	24.7	34.5	1.1	0.7	20.6	14.0	13.1	8.7
08R0002	24 h	28	3.4	4.75	11.5	34.1	178	2.1	62.6	71.8	24.2	33.6	0.3	1.0	9.3	28.1	13.4	9.1
0904047	48 h	Prebleed	8.4	5.53	12.9	38.3	268	6.5	77.2	69.2	23.3	33.6	0.4	1.5	5.0	17.8	12.9	9.6
0904047	48 h	3	13.1	5.36	12.5	36.9	288	4.6	35.1	68.7	23.3	33.9	0.9	7.6	7.2	57.7	12.9	9.4
0904047	48 h	6	13.1	4.73	11.1	32.5	250	5.0	37.9	68.7	23.4	34.0	0.7	7.4	5.5	56.6	13.1	10.0

Subj. No.	Group	Day PI	WBC	RBC	HgB	HCT	PLT	Lymph	%Lymph	MCV	MCH	MCHC	MO	GR	%MO	%GR	%RDW	MPV
0904047	48 h	10	8.6	4.93	11.5	33.5	405	6.4	74.8	68.0	23.3	34.2	0.8	1.4	9.3	15.9	13.7	10.4
0904047	48 h	14	12.3	5.03	11.7	34.5	447	8.9	72.5	68.6	23.4	34.1	1.1	2.3	8.9	18.6	13.9	8.9
0904047	48 h	21	10.1	5.13	12.1	35.3	359	7.9	78.2	68.7	23.5	34.2	0.8	1.4	7.9	13.9	14.1	9.3
0904047	48 h	28	9.4	5.45	12.4	37.2	357	7.3	77.8	68.3	22.8	33.4	0.7	1.4	7.6	14.6	14.1	9.0
1002065	48 h	Prebleed	11.7	4.61	11.4	33.8	221	9.0	76.8	73.3	24.7	33.8	0.6	2.1	5.4	17.8	13.1	9.0
1002065	48 h	3	11.7	4.60	11.3	33.3	238	8.8	74.8	72.5	24.7	34.0	1.1	1.9	9.0	16.2	13.4	9.5
1002065	48 h	6	13.5	4.28	10.5	30.6	207	7.5	55.7	71.5	24.4	34.1	1.3	4.6	9.9	34.4	13.5	9.6
1002065	48 h	10	9.5	4.33	10.5	30.8	296	7.2	75.7	71.2	24.4	34.2	1.0	1.3	10.9	13.4	14.0	8.9
1002065	48 h	14	14.4	4.65	11.4	33.6	300	10.5	72.9	72.2	24.6	34.0	0.9	3.0	6.2	20.9	14.6	9.4
1002065	48 h	21	14.5	4.91	12.0	35.1	299	11.6	80.3	71.4	24.4	34.1	0.7	2.2	4.6	15.1	13.8	9.4
1002065	48 h	28	12.2	4.72	11.4	33.4	270	9.5	77.6	70.8	24.1	34.0	0.7	2.0	5.6	16.8	13.7	9.1
0705010	48 h	Prebleed	4.4	5.1	13.5	39.5	368	2.8	62.8	77.4	26.4	34.1	0.5	2.1	11.4	25.8	12.5	8.7
0705010	48 h	3	5.9	5.23	13.6	40.5	389	3.0	51.0	77.3	25.9	33.5	0.5	2.4	8.7	40.3	12.4	9.1
0705010	48 h	6	22.7	5.07	13.4	38.3	356	2.4	10.7	75.6	26.5	35.1	1.5	18.7	6.8	82.5	12.2	9.1
0705010	48 h	10	10.5	4.17	10.7	32.1	605	6.2	59.1	77.0	25.7	33.4	0.5	3.8	4.7	36.2	12.6	7.4
0705010	48 h	14	9.8	4.26	11.0	33.2	424	3.8	38.7	77.8	25.9	33.3	1.0	5.0	9.8	51.5	13.9	8.6
0705010	48 h	21	9.9	4.54	11.8	35.3	679	5.7	57.5	77.8	26.1	33.5	0.9	3.3	9.2	33.3	13.4	8.7
0705010	48 h	28	6.6	5.13	12.9	39.7	456	3.9	59.0	77.4	25.1	32.5	0.8	1.9	11.5	29.5	13.4	8.5
0904088	48 h	Prebleed	8.8	4.64	11.7	35.0	214	7.2	81.3	75.4	25.3	33.5	0.6	1.0	7.1	11.6	12.5	10.2
0904088	48 h	3	7.0	4.57	11.6	33.9	236	5.3	75.8	74.1	25.4	34.3	0.6	1.0	9.2	15.0	12.4	10.1
0904088	48 h	6	6.7	4.87	12.3	36.1	271	5.2	77.4	74.2	25.2	34.0	0.6	0.9	9.0	13.6	12.4	10.2
0904088	48 h	10	6.7	4.48	11.2	32.0	241	4.5	67.8	73.4	25.0	34.1	0.4	1.7	6.5	25.7	12.2	10.4
0904088	48 h	14	9.4	4.77	11.9	35.4	368	7.3	78.1	74.2	24.0	33.6	1.0	1.0	10.8	11.1	12.7	9.8
0904088	48 h	21	12.5	4.99	12.6	37.4	304	7.1	56.8	74.9	25.1	33.6	1.6	3.8	12.8	30.4	13.0	10.6
0904088	48 h	28	8.9	4.86	11.9	35.9	236	7.1	79.3	74.0	24.5	33.1	1.1	0.8	12.0	8.7	13.3	10.1
0906220	72 h	Prebleed	7.9	4.80	12.3	35.3	288	4.3	54.6	73.6	25.7	34.8	0.8	2.8	10.2	35.2	11.9	9.3
0906220	72 h	3	10.9	5.06	12.3	37.3	276	3.8	34.5	73.7	24.4	33.1	1.2	6.0	10.9	54.6	12.6	9.3
0906220	72 h	6	22.0	5.41	13.5	39.1	196	3.5	15.8	72.3	24.9	34.4	1.3	17.3	5.7	78.5	11.9	9.3
0906220	72 h	10	8.5	4.40	10.8	31.3	131	4.2	49.2	71.2	24.5	34.3	0.5	3.8	6.0	44.8	12.0	9.6
0906220	72 h	14	11.9	4.79	11.6	34.3	196	7.6	64.2	71.6	24.3	33.9	1.0	3.3	8.3	27.5	13.1	9.1
0906220	72 h	21	11.4	4.25	10.3	30.5	330	6.7	59.2	71.8	24.1	33.6	1.2	3.5	10.3	30.5	13.5	8.6
0906220	72 h	28	14.9	4.72	11.3	33.2	381	9.5	63.7	70.4	24.0	34.1	1.5	3.9	10.3	26.0	13.1	8.5
0810254	72 h	Prebleed	10.6	5.00	13.1	38.2	313	4.4	41.8	76.2	26.2	34.3	0.7	5.4	6.9	51.3	12.9	10.1
0810254	72 h	3	10.6	5.52	13.7	41.9	319	4.4	41.8	75.8	24.8	32.7	1.0	5.2	9.4	48.8	13.3	10.4
0810254	72 h	6	7.2	4.20	10.4	31.2	207	3.4	33.1	74.3	24.8	33.4	1.4	3.4	19.2	47.7	12.4	10.3
0810254	72 h	10	18.6	4.72	11.8	34.5	147	6.3	33.9	73.0	24.9	34.2	1.2	11.1	6.6	59.5	12.3	9.4
0810254	72 h	14	18.3	4.94	12.1	36.3	247	9.6	52.3	73.4	24.6	33.5	2.0	6.7	11.0	36.7	13.2	10.5
0810254	72 h	21	18.7	4.59	11.5	34.7	513	9.7	51.8	75.4	25.1	33.2	1.9	7.2	9.9	38.3	16.2	9.8
0810254	72 h	28	17.8	4.93	12.4	36.7	413	8.9	49.8	74.3	25.1	33.8	2.0	6.9	11.5	38.7	15.2	8.8

Subj. No.	Group	Day PI	WBC	RBC	HgB	HCT	PLT	Lymph	%Lymph	MCV	MCH	MCHC	MO	GR	%MO	%GR	%RDW	MPV
0906145	72 h	Prebleed	10.3	5.52	15.0	41.1	259	5.3	51.5	74.5	27.2	36.5	0.6	4.4	5.7	42.8	13.3	9.3
0906145	72 h	3	9.3	5.31	13.3	39.8	260	6.8	73.6	75.0	25.1	33.5	1.0	1.5	10.3	16.1	14.1	8.9
0906145	72 h	6	6.7	4.72	11.9	34.9	142	4.3	64.9	73.9	25.1	34.0	0.4	2.0	5.6	29.5	13.2	9.2
0906145	72 h	10	55.4	4.68	12.0	34.8	159	7.1	12.8	74.4	25.7	34.5	6.4	41.9	11.6	75.6	13.5	8.9
0906145	72 h	14	9.4	4.75	12.0	35.6	114	5.6	60.1	74.9	25.3	33.7	1.8	2.0	18.9	21.0	14.2	8.7
0906145	72 h	21	14.2	4.73	12.1	35.9	387	6.7	47.3	75.9	25.6	33.7	1.8	5.7	12.9	39.8	18.4	7.5
0906145	72 h	28	12.9	4.81	12.3	36.3	358	7.9	60.9	75.4	25.6	33.9	1.9	3.1	15.0	24.1	16.8	7.7
0807175	72 h	Prebleed	6.5	5.56	14.7	41.1	270	4.4	67.3	74.0	26.3	35.6	0.3	1.8	4.6	28.1	13.7	8.2
0807175	72 h	3	6.9	5.15	12.6	38.2	270	3.5	50.4	74.2	24.5	33.0	0.6	2.9	8.2	41.4	13.7	7.9
0807175	72 h	6	9.9	4.73	11.9	34.2	278	4.9	49.0	72.4	25.3	34.9	0.4	4.7	4.0	47.0	13.9	9.5
0807175	72 h	10	13.8	4.72	11.5	33.6	121	5.8	42.0	71.2	24.4	34.2	1.0	7.0	7.5	50.5	13.9	8.8
0807175	72 h	14	10.4	4.36	10.5	31.7	263	7.1	68.2	72.7	24.1	33.2	1.0	2.3	9.5	22.3	15.6	7.4
0807175	72 h	21	11.2	4.50	11.1	33.2	576	6.5	58.3	73.9	24.6	33.3	1.1	3.6	10.0	31.7	19.1	7.1
0807175	72 h	28	12.6	4.57	11.2	33.3	363	6.4	50.4	72.9	24.5	33.5	1.0	5.3	7.6	42.0	17.6	8.0

WBC, white blood cell count; RBC, red blood cell count; HgB, hemoglobin; HCT; hematocrit; PLT, platelet count; Lymph, lymphocyte count; %Lymph, percent lymphocytes; MCV, mean corpuscular volume; MCH, mean corpuscular hemoglobin; MCHC, mean corpuscular hemoglobin concentration; MO, monocyte count; GR, granulocyte count; %MO, percent monocytes; %GR, percent granulocytes; RDW, red blood cell distribution width; MPV, mean platelet volume

Supplementary Table 2: Clinical chemistry results.

Subj. No.	Group	Day PI	GLU	BUN	CRE	UA	CA	ALB	TP	ALT	AST	ALP	GGT	AMY	CRP
0308904	Control	Prebleed	86	13	0.8	<0.3	9.6	3.5	7.4	49	26	100	46	177	<5.0
0308904	Control	3	88	12	0.7	<0.3	9.7	3.4	7.2	43	29	95	44	192	<5.0
0308904	Control	6	64	15	0.7	0.5	9.3	2.9	6.8	538	1565	1289	217	124	24.0
0904099	Control	Prebleed	94	15	0.9	<0.3	9.9	3.4	7.5	39	27	303	80	474	<5.0
0904099	Control	3	78	11	1.1	<0.3	9.4	3.2	6.4	55	33	309	87	409	<5.0
0904099	Control	6	94	17	1.2	<0.3	9.2	3.1	6.9	75	192	433	92	334	>200
0904099	Control	8	45	66	6.1	<0.3	8.0	2.8	6.7	1016	>2000	766	273	223	53.1
0707061	Control	Prebleed	96	13	1.1	<0.3	10.1	3.4	7.1	34	25	270	118	407	<5.0
0707061	Control	3	91	14	1.0	<0.3	9.9	3.4	7.3	46	23	281	120	363	<5.0
0707061	Control	6	86	15	1.2	<0.3	9.4	3.0	7.4	29	44	271	104	233	>200
0707061	Control	9	33	39	3.3	0.7	8.5	2.6	5.9	628	1801	197	217	114	>200
0907042	Control	Prebleed	79	16	0.8	<0.3	9.8	3.8	7.0	24	17	109	41	254	<5.0
0907042	Control	3	80	19	1.0	<0.3	9.3	3.6	7.0	32	29	118	40	226	<5.0
0907042	Control	6	77	17	1.2	<0.3	9.1	2.6	6.3	40	120	360	37	330	192.7
0907042	Control	8	56	20	0.7	0.7	9.2	2.3	6.2	1801	>2000	1325	208	96	154.6
0903269	Control	Prebleed	78	17	1.2	<0.3	9.8	3.6	7.2	41	34	175	75	289	<5.0
0903269	Control	3	73	21	1.4	<0.3	9.8	3.7	7.3	43	32	178	74	252	5.7
0903269	Control	6	82	12	1.1	<0.3	9.4	2.8	6.8	253	874	842	103	210	185.2
0903269	Control	8	15	27	4.1	0.8	7.3	2.2	5.5	>2000	>2000	2231	341	125	121.5
0908097	30-45	Prebleed	85	19	0.7	<0.3	9.8	3.5	6.6	46	28	507	44	608	<5.0
0908097	30-45	3	94	12	1.2	<0.3	9.2	2.6	6.4	56	44	391	36	454	120.9
0908097	30-45	6	87	27	1.0	<0.3	9.3	2.2	5.8	59	58	366	42	501	109.8
0908097	30-45	10	73	13	0.6	<0.3	9.4	2.5	5.7	48	37	421	51	429	22.6
0908097	30-45	14	76	13	0.7	<0.3	9.1	2.2	5.8	37	36	390	44	499	85.8
0908097	30-45	21	77	16	1.0	<0.3	9.9	3.0	7.4	42	25	255	65	327	<5.0
0908097	30-45	28	80	16	0.9	<0.3	10.3	3.3	6.7	41	20	451	62	509	<5.0
08083572	30-45	Prebleed	74	15	0.6	<0.3	9.9	3.3	6.8	37	30	233	50	345	<5.0
08083572	30-45	3	78	13	0.7	<0.3	9.4	3.2	6.5	60	65	206	47	483	<5.0
08083572	30-45	6	75	17	0.7	<0.3	9.5	3.3	7.0	107	87	219	50	369	<5.0
08083572	30-45	10	69	15	0.6	<0.3	10.0	3.1	7.2	114	89	269	55	399	<5.0
08083572	30-45	14	72	15	0.5	<0.3	10.1	3.1	7.2	74	41	214	56	369	<5.0
08083572	30-45	21	78	17	1.0	<0.3	10.2	3.3	7.1	88	53	194	55	456	<5.0
08083572	30-45	28	80	18	0.8	<0.3	10.4	3.1	6.5	65	43	150	49	362	<5.0
0906057	30-45	Prebleed	72	14	0.8	<0.3	9.4	3.0	6.0	34	18	233	85	277	<5.0
0906057	30-45	3	82	12	0.7	<0.3	9.4	2.9	6.0	51	33	210	84	311	27.8
0906057	30-45	6	77	12	0.9	<0.3	9.4	2.8	6.0	62	29	188	84	206	89.7
0906057	30-45	10	68	17	0.6	<0.3	9.0	2.2	6.4	82	39	384	105	258	44.9
0906057	30-45	14	66	14	0.6	<0.3	9.3	2.6	6.0	47	29	201	103	230	<5.0

Subj. No.	Group	Day PI	GLU	BUN	CRE	UA	CA	ALB	TP	ALT	AST	ALP	GGT	AMY	CRP
0906057	30-45	21	71	15	0.7	<0.3	9.7	2.6	5.8	39	25	242	107	251	<5.0
0906057	30-45	28	63	17	0.8	<0.3	9.1	2.7	5.9	41	27	202	101	257	<5.0
R080062	30-45	Prebleed	59	23	0.9	<0.3	9.9	3.7	7.5	31	25	224	55	370	<5.0
R080062	30-45	3	67	14	0.8	<0.3	9.2	2.9	6.8	57	53	280	49	277	51.9
R080062	30-45	6	77	14	0.7	<0.3	9.5	2.9	7.5	47	43	331	59	188	85.9
R080062	30-45	10	72	17	0.6	<0.3	8.6	2.3	7.0	68	116	340	63	187	12.6
R080062	30-45	14	60	16	0.7	<0.3	9.3	2.6	7.2	57	29	287	61	275	<5.0
R080062	30-45	21	70	19	0.8	<0.3	9.8	2.7	6.5	43	53	283	47	387	<5.0
R080062	30-45	28	68	19	0.8	<0.3	10.0	3.2	7.3	47	26	191	60	328	<5.0
0806012	24 h	Prebleed	84	14	0.7	<1.0	9.5	3.4	7.0	68	30	97	51	201	<5.0
0806012	24 h	3	79	14	0.8	<0.3	8.9	3.1	6.7	110	58	107	59	352	<5.0
0806012	24 h	6	72	16	0.7	<0.3	9.4	3.1	7.3	198	134	130	52	198	25.0
0806012	24 h	10	74	16	0.6	<0.3	9.3	2.7	7.2	287	99	235	98	213	10.9
0806012	24 h	14	87	15	0.8	<0.3	9.7	3.0	7.9	96	37	207	123	233	<5.0
0806012	24 h	21	107	12	0.7	<0.3	9.6	3.0	7.5	46	24	148	94	305	<5.0
0806012	24 h	28	108	13	1.0	<0.3	9.6	3.2	7.6	57	29	115	80	203	<5.0
0704019	24 h	Prebleed	98	15	1.0	<0.3	9.3	3.3	6.6	86	42	161	125	452	<5.0
0704019	24 h	3	90	15	1.1	0.5	9.6	2.7	6.4	87	80	198	101	287	130.4
0704019	24 h	6	77	23	0.7	<0.3	9.0	2.3	8.0	95	79	260	94	308	18.3
0704019	24 h	10	67	20	0.9	<0.3	9.1	2.4	6.3	84	46	298	124	356	<5.0
0704019	24 h	14	74	21	0.8	<0.3	9.2	2.6	6.4	70	30	264	127	399	<5.0
0704019	24 h	21	83	19	1.0	<0.3	9.5	2.9	6.5	92	40	213	118	473	<5.0
0704019	24 h	28	84	20	1.1	<0.3	9.2	2.9	6.3	110	46	173	111	462	<5.0
0908021	24 h	Prebleed	100	23	0.9	<0.3	10.1	3.4	6.6	36	23	263	62	308	<5.0
0908021	24 h	3	93	13	0.8	0.4	9.6	3.5	7.2	64	46	100	49	208	<5.0
0908021	24 h	6	85	29	1.1	<0.3	10.1	3.3	6.5	51	43	229	62	335	<5.0
0908021	24 h	10	76	27	1.1	<0.3	9.9	3.2	6.6	50	43	227	64	319	<5.0
0908021	24 h	14	88	26	1.0	<0.3	9.7	3.2	6.6	40	31	215	63	290	<5.0
0908021	24 h	21	106	25	1.0	<0.3	9.9	3.2	6.6	37	25	225	66	292	<5.0
0908021	24 h	28	81	27	1.3	<0.3	9.9	3.2	6.3	47	28	202	64	280	<5.0
08R0002	24 h	Prebleed	84	16	0.8	<0.3	9.6	3.6	7.0	80	40	125	64	364	<5.0
08R0002	24 h	3	88	21	1.0	<0.3	9.5	3.3	6.5	53	49	246	58	606	<5.0
08R0002	24 h	6	81	27	0.6	<0.3	8.7	2.1	5.9	83	84	232	47	354	159.8
08R0002	24 h	10	70	16	0.9	<0.3	8.6	2.3	6.7	66	66	227	60	234	7.2
08R0002	24 h	14	72	13	0.8	<0.3	8.4	2.5	6.6	47	36	178	56	348	<5.0
08R0002	24 h	21	86	14	0.7	<0.3	8.8	2.7	6.6	63	27	156	61	350	<5.0
08R0002	24 h	28	80	15	0.7	<0.3	8.7	2.7	6.3	73	27	127	58	330	<5.0
0904047	48 h	Prebleed	77	12	0.9	<0.3	9.8	3.4	7.1	44	27	508	104	378	<5.0
0904047	48 h	3	103	13	0.8	<0.3	10.0	3.3	7.1	52	38	512	101	310	118.5
0904047	48 h	6	102	12	0.9	<0.3	9.3	2.3	6.4	40	53	506	70	221	184.1

Subj. No.	Group	Day PI	GLU	BUN	CRE	UA	CA	ALB	TP	ALT	AST	ALP	GGT	AMY	CRP
0904047	48 h	10	100	12	0.6	<0.3	9.4	2.4	6.3	235	89	674	142	300	18.2
0904047	48 h	14	78	13	0.7	<0.3	9.3	2.5	6.4	63	33	737	153	366	<5.0
0904047	48 h	21	71	10	1.0	<0.3	9.7	3.0	6.6	45	31	273	134	373	<5.0
0904047	48 h	28	77	11	0.9	<0.3	9.6	3.3	6.7	48	31	237	121	307	<5.0
1002065	48 h	Prebleed	87	14	1.0	<0.3	9.9	3.4	6.9	33	24	398	100	417	<5.0
1002065	48 h	3	90	19	0.9	0.4	9.6	3.5	6.8	39	42	412	96	475	<5.0
1002065	48 h	6	98	16	0.9	<0.3	9.5	3.0	6.8	60	78	316	81	333	163.2
1002065	48 h	10	84	10	0.7	<0.3	9.4	2.7	6.2	98	59	341	130	345	<5.0
1002065	48 h	14	75	16	0.9	0.4	9.3	2.9	6.6	48	32	383	141	420	<5.0
1002065	48 h	21	78	14	0.9	0.4	9.3	3.1	6.9	32	23	374	118	328	<5.0
1002065	48 h	28	78	15	1.0	<0.3	9.7	3.1	6.8	42	25	322	108	307	<5.0
0705010	48 h	Prebleed	92	11	0.9	<0.3	10.3	3.4	8.3	33	25	111	53	431	<5.0
0705010	48 h	3	101	10	0.8	<0.3	10.5	3.3	7.8	53	36	114	53	477	<5.0
0705010	48 h	6	95	13	1.0	<0.3	9.9	2.5	6.7	44	47	208	43	217	168.8
0705010	48 h	10	77	13	0.7	<0.3	9.7	2.1	6.7	35	75	265	70	417	12.0
0705010	48 h	14	75	10	0.7	<0.3	9.7	2.5	6.9	37	28	248	51	422	<5.0
0705010	48 h	21	87	10	0.6	<0.3	10.5	2.8	7.4	42	29	218	54	465	<5.0
0705010	48 h	28	84	11	0.7	0.3	9.9	3.0	7.7	43	25	164	53	456	<5.0
0904088	48 h	Prebleed	86	10	0.8	<0.3	9.7	3.5	6.8	32	26	230	101	338	<5.0
0904088	48 h	3	93	11	1.1	<0.3	9.8	3.5	7.0	47	32	236	97	292	<5.0
0904088	48 h	6	78	11	0.8	<0.3	10.0	3.4	6.9	40	44	230	93	320	<5.0
0904088	48 h	10	86	0	0.9	<0.3	9.4	2.8	6.4	497	302	333	116	276	0.3
0904088	48 h	14	76	10	0.8	<0.3	9.8	2.9	6.2	5	39	350	154	308	<5.0
0904088	48 h	21	71	10	1.0	<0.3	9.7	3.0	6.6	45	31	273	134	373	<5.0
0904088	48 h	28	77	11	0.9	<0.3	9.6	3.3	6.7	48	31	237	121	307	<5.0
0906220	72 h	Prebleed	103	17	0.9	0.3	9.3	3.5	7.4	37	26	294	51	335	<5.0
0906220	72 h	3	83	17	1.0	<0.3	9.3	3.7	7.7	42	25	305	52	327	<5.0
0906220	72 h	6	84	11	1.2	<0.3	9.1	2.8	7.0	59	39	274	45	158	188.6
0906220	72 h	10	72	16	0.9	0.3	8.9	2.4	6.6	245	182	680	114	214	161.3
0906220	72 h	14	78	16	0.7	<0.3	9.0	2.7	6.9	99	39	628	168	326	<5.0
0906220	72 h	21	85	16	0.6	<0.3	9.7	3.1	7.5	54	30	418	114	323	<5.0
0906220	72 h	28	106	14	0.7	<0.3	9.4	3.2	7.7	51	27	346	88	337	<5.0
0810254	72 h	Prebleed	88	13	1.0	0.3	9.7	3.7	7.1	31	22	236	45	423	<5.0
0810254	72 h	3	94	14	0.8	<0.3	9.8	3.8	7.6	47	22	262	48	387	<5.0
0810254	72 h	6	73	10	0.8	<0.3	9.3	3.2	6.7	42	23	201	40	343	<5.0
0810254	72 h	10	71	14	1.0	<0.3	9.2	2.8	6.5	270	444	466	92	260	113.3
0810254	72 h	14	77	14	0.9	<0.3	9.3	2.7	7.0	54	35	412	86	485	<5.0
0810254	72 h	21	81	10	0.6	<0.3	9.4	3.1	6.7	21	25	257	57	471	<5.0
0810254	72 h	28	89	12	0.7	<0.3	9.7	3.2	6.7	13	18	231	50	489	<5.0

Subj. No.	Group	Day PI	GLU	BUN	CRE	UA	CA	ALB	TP	ALT	AST	ALP	GGT	AMY	CRP
0906145	72 h	Prebleed	104	13	1.0	<0.3	9.8	3.5	7.2	30	27	577	98	399	<5.0
0906145	72 h	3	110	16	1.1	<0.3	9.7	3.5	7.3	25	27	595	95	386	<5.0
0906145	72 h	6	95	20	1.0	<0.3	9.3	2.5	6.3	44	53	461	63	247	170.6
0906145	72 h	10	60	15	0.8	<0.3	9.2	2.4	6.1	921	561	2052	194	117	149.4
0906145	72 h	14	69	17	0.9	<0.3	8.5	2.2	5.8	128	58	1295	89	349	<5.0
0906145	72 h	21	71	16	0.7	<0.3	9.1	2.6	7.0	37	38	887	90	320	<5.0
0906145	72 h	28	89	15	0.8	<0.3	9.7	2.8	7.0	34	32	586	101	341	<5.0
0807175	72 h	Prebleed	70	16	0.9	<1.0	9.8	3.7	7.6	32	27	328	54	333	<5.0
0807175	72 h	3	97	17	1.1	<0.3	9.9	3.7	7.3	47	24	355	54	429	<5.0
0807175	72 h	6	100	18	1.1	<0.3	9.2	2.3	6.2	45	65	496	37	399	187.7
0807175	72 h	10	81	23	1.1	<0.3	9.0	2.1	6.1	274	909	938	272	221	151.9
0807175	72 h	14	81	14	0.9	<0.3	8.9	2.2	5.8	118	86	659	86	505	6.6
0807175	72 h	21	72	13	0.7	<0.3	9.3	2.6	5.5	49	45	569	64	424	5.8
0807175	72 h	28	88	15	0.6	<0.3	9.4	2.5	6.5	35	35	410	62	406	7.2