## Table Doc

## V51

## Lee Panter

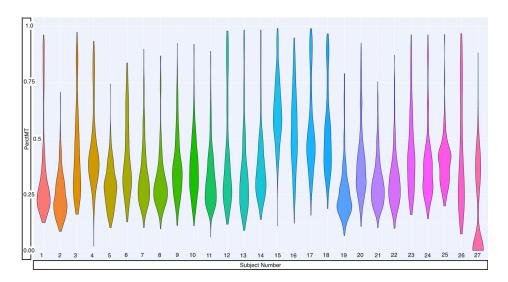


Figure 1: Pre-QC PerctMT Distribution for each subject

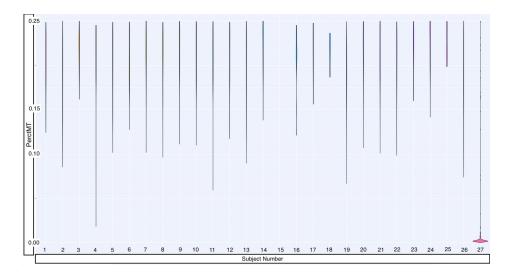


Figure 2: Post QC distribution of PerctMT with thresholds implemented by Arazi, Rao, Berthier, et al

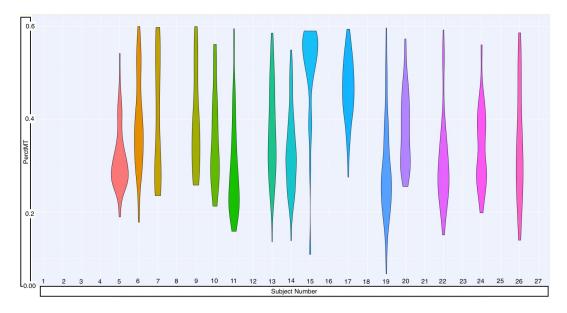


Figure 3: Post QC distribution of PerctMT with thresholds implemented in this paper

Subject Number	1	2	3	4	5	6	7	8	9	
Number of Observations Before QC	375	375	364	381	340	383	383	356	372	
Number of Observations After QC	0	0	0	0	58	86	32	0	31	
			i				1			
Subject Number	10	11	12	13	14	15	16	17	18	19
Number of Observations Before QC	327	311	379	375	345	371	381	381	377	380
Number of Observations After QC	21	107	0	107	100	25	0	122	0	127
Subject Number	20	21	22	23	24	25	26	27		
Number of Observations Before QC	381	380	333	333	239	218	378	342		
Number of Observations After QC	75	0	87	0	79	0	53	0		

Table 1: Observation counts per-subject before and after Quality Control threshold filter restrictions

Subject Group Number	5	6	7	9	10	11	13	14
Number of Observations	58	86	32	31	21	107	107	100

Subject Group Number							
Number of Observations	25	122	127	75	87	79	53

Table 2: Observation count per-subject, subjects with positive counts

Table 3 displays the descriptive statistics for the number of observations per-subject.

MIN	1st Q	Median	Mean	3rd Q	MAX
21	42.5	79	74.0	103.5	127

Table 3: observation count per-subject descriptive statistics

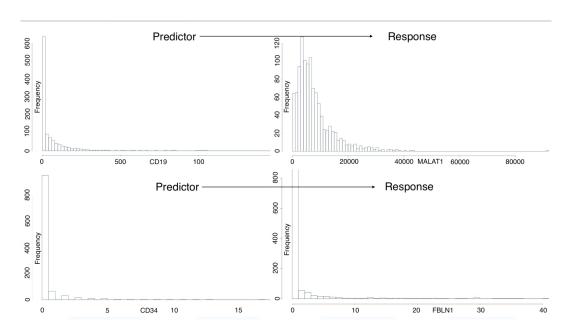


Figure 4: Predictor-Response pairing variable distributions

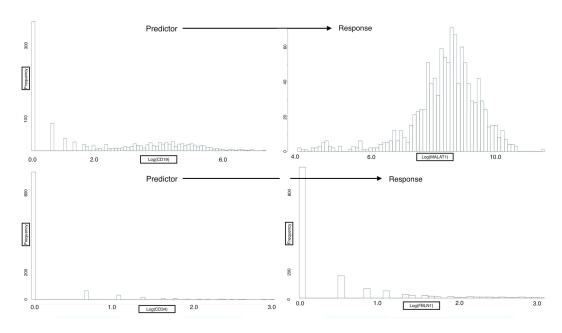


Figure 5: Predictor-Response variable pairings, post-transformation distributions

Model Designation	Model Description	Estimate	Std. Error	Test Statistic	p-value
LM	Linear Model	4.918e-2	1.455e-2	3.381*	7.47e-4
LM-FE	Linear Model with Fixed-Effect Intercept	4.833e-2	1.381e-2	3.500*	4.84e-4
LMM-RI	Linear Mixed Model with Random Intercept	4.920e-2	1.374e-2	3.579*	3.6e-4
LMM-RS	Linear Mixed Model with Random Slope	5.938e-2	3.538e-2	1.678*	1.19e-1
GEE	Generalized Estimating Equations	4.918e-2	1.455e-2	3.381**	7.47e-4

Table 4: Summary Table for  $CD19 \sim MALAT1$  variable parings. \* Approximate normal distribution. \*\* Approximate Wald-Z distribution

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Model Designation	Model Description	Estimate	Std. Error	Test Statistic	p-value
LM	Linear Model	7.884e-1	4.92e-2	4.002*	<2e-16
LM-FE	Linear Model with Fixed-Effect Intercept	1.31e-1	3.42e-2	3.818*	1.42e-4
LMM-RI	Linear Mixed Model with Random Intercept	1.35e-1	3.42e-2	3.95*	8.4e-5
LMM-RS	Linear Mixed Model with Random Slope	1.705e-1	7.29e-2	2.34*	6.7e-2
GEE	Generalized Estimating Equations	7.884e-1	4.92e-2	4.002**	< 2e-16

Table 5: Summary Table for  $CD34 \sim FBLN$  variable parings. \* Approximate normal distribution. \*\* Approximate Wald-Z distribution

Model	LM	LM-FE	LMM-RI	LMM-RS	GEE
LM	0	-1.7283	0.0407	20.7401	0.0000
LM-FE	1.7587	0	1.8001	22.8636	1.7587
LMM-RI	-0.0407	-1.7683	0	20.6911	-0.0407
LMM-RS	-17.1775	-18.6090	-17.1438	0	-17.1775
GEE	0.0000	-1.7283	0.0407	20.7401	0

Table 6: Main effect slope Percent Change matrix,  $CD19 \sim MALAT1$  variable pairing

Model	LM	LM-FE	LMM-RI	LMM-RS	GEE
LM	0	-83.3841	-82.8767	-78.3739	0.0000
LM-FE	501.8321	0	3.0534	30.1527	501.8321
LM-RI	484.0000	-2.9630	0	26.2963	484.0000
LM-RS	362.4047	-23.1672	-20.8211	0	362.4047
GEE	0.0000	-83.3841	-82.8767	-78.3739	0

Table 7: Main effect slope Percent Change matrix,  $CD34 \sim FBLN$  variable pairing

Model	LM	LM-FE	LMM-RI	LMM-RS	GEE
LM	0	-5.0859	-5.5670	143.1615	0.0000
LM-FE	5.3584	0	-0.5069	156.1912	5.3584
LMM-RI	5.8952	0.5095	0	157.4964	5.8952
LMM-RS	-58.8751	-60.9666	-61.1645	0	-58.8751
GEE	0.0000	-5.0859	-5.5670	143.1615	0

Table 8: Main effect slope Standar Error Percent Change matrix,  $CD19 \sim MALAT1$  variable pairing

Model	LM	LM-FE	LMM-RI	LMM-RS	GEE
LM	0	-30.4878	-30.4878	48.1707	0.0000
LM-FE	43.8596	0	0.0000	113.1579	43.8596
LM-RI	43.8596	0.0000	0	113.1579	43.8596
LM-RS	-32.5103	-53.0864	-53.0864	0	-32.5103
GEE	0.0000	-30.4878	-30.4878	48.1707	0

Table 9: Main effect slope Standar Error Percent Change matrix,  $CD34 \sim FBLN$  variable pairing

Model	LM	LM-FE	LMM-RI	LMM-RS	GEE
LM	0	3.5197	5.8563	-50.3697	0.0000
LM-FE	-3.4000	0	2.2571	-52.0571	-3.4000
LMM-RI	-5.5323	-2.2073	0	-53.1154	-5.5323
LM-RS	101.4899	108.5816	113.2896	0	101.4899
GEE	0.0000	3.5197	5.8563	-50.3697	0

Table 10: Main effect slope Test Statistic Percent Change matrix,  $CD19 \sim MALAT1$  variable pairing

Model	LM	LM-FE	LMM-RI	LMM-RS	GEE
LM	0	-4.5977	-1.2994	-41.5292	0.0000
LM-FE	4.8193	0	3.4573	-38.7114	4.8193
LM-RI	1.3165	-3.3418	0	-40.7595	1.3165
LM-RS	71.0256	63.1624	68.8034	0	71.0256
GEE	0.0000	-4.5977	-1.2994	-41.5292	0

Table 11: Main effect slope Test Statistic Percent Change matrix,  $CD34 \sim FBLN$  variable pairing

CD19 Summaries

Subject Number	Minimum	Maximum	Average	Median
5	0	678	36.6724	0.0
6	0	299	36.6860	7.5
7	0	10	2.1250	1.0
9	0	1052	89.4194	3.0
10	0	158	37.5714	2.0
11	0	339	28.3178	1.0
13	0	629	56.0841	18.0
14	0	251	42.2600	19.0
15	0	148	26.6000	0.0
17	0	982	112.3770	16.0
19	0	665	59.3386	5.0
20	0	287	40.1200	23.0
22	0	380	43.4483	1.0
24	0	282	55.0127	27.0
26	0	1624	268.4151	110.0

Table A1: Predictor CD19 variable summaries  $(CD19 \sim MALAT1)$ 

**MALAT1 Summaries** 

Subject Number	Minimum	Maximum	Average	Median
5	67	40812	10206.3621	9195.0
6	757	30774	11568.2791	11689.0
7	441	17916	6868	4039.5
9	311	18239	5703.9355	5983.0
10	1875	17160	6638.5714	6190.0
11	349	34082	9716.0280	8826.0
13	99	25572	5867.9439	4895.0
14	355	15740	6154.1500	5720.5
15	157	11923	3839.0800	3467.0
17	337	8342	2960.2541	2692.0
19	227	91961	13959.9843	10125.0
20	379	21736	7301.4133	6417.0
22	161	28429	6881.7471	5068.0
24	240	42792	6248.8228	5955.0
26	1114	32426	8463.1698	6426.0

Table A2: Response MALAT1 variable summaries  $(CD19 \sim MALAT1)$ 

CD34 Summaries

Subject Number	Minimum	Maximum	Average	Median
5	0	19	3.0517	1
6	0	0	0	0
7	0	0	2	1
9	0	6	0.4516	0
10	0	5	0.6667	0
11	0	7	1.2056	1
13	0	0	0	0
14	0	1	0.4000	0
15	0	0	0	0
17	0	0	0	0
19	0	0	0	0
20	0	2	0.1867	0
22	0	4	0.3563	0
24	0	5	0.2911	0
26	0	0	0	0

Table A3: Predictor CD34 variable summaries  $(CD34 \sim FBLN1)$ 

FBLN1 Summaries

Subject Number	Minimum	Maximum	Average	Median
5	3	41	19.3448	18
6	0	0	0	0
7	0	16	4.2500	3
9	0	8	1.8710	1
10	0	30	11.9524	10
11	0	8	1.5140	1
13	0	1	0.0093	0
14	0	5	0.5700	0
15	0	1	0.0400	0
17	0	3	0.0246	0
19	0	2	0.0157	0
20	0	9	2.5867	2
22	0	11	0.9885	0
24	0	4	0.4557	0
26	0	0	0	0

Table A4: Response FBLN1 variable summaries  $(CD34 \sim FBLN1)$