

Appendix

Key statistical tests used (Mock v RSV) using GraphPad Prism

Figure	Array 1	Array 2	N	Test used	P value	95% Confidence interval
2A	Mock 1h	RSV 1h	6	One tailed paired T Test	0.0356	-2782 to 47120
2A	Mock 4h	RSV 4h	6	One tailed paired T Test	0.0507	-
2B	Mock 1h	RSV 1h	6	One tailed paired T Test	0.0034	-3332 to 69622
2B	Mock 4h	RSV 4h	6	One tailed paired T Test	0.0009	51869 to 129873
2C	Mock 1h	RSV 1h	15	One tailed paired T Test	<0.0001	-1374 to -704.2
2C	Mock 4h	RSV 4h	15	One tailed paired T Test	0.0011	194.6 to 712.8
2D	Mock 1h	RSV 1h	15	One tailed paired T Test	<0.0001	-2328 to -1198
2D	Mock 4h	RSV 4h	15	One tailed paired T Test	0.0052	164.7 to 1037
3B	Mock 1h	RSV 1h	15	One tailed paired T Test	0.1418	-
3B	Mock 4h	RSV 4h	15	One tailed paired T Test	<0.0001	-13.19 to -5.252
3C	Mock 1h	RSV 1h	15	One tailed paired T Test	0.0507	-126.2 to 1256
3C	Mock 4h	RSV 4h	15	One tailed paired T Test	<0.0001	1102 to 2741
3D	Mock 1h	RSV 1h	4	One tailed paired T Test	0.4575	-
3D	Mock 4h	RSV 4h	4	One tailed paired T Test	0.0177	-0.3163 to -0.02174
4A	Mock 1h	RSV 1h	4	One tailed paired T Test	0.0052	-0.324 to -0.09367
4A	Mock 4h	RSV 4h	4	One tailed paired T Test	0.0241	-2.187 to -0.01673
4B	Mock 1h	RSV 1h	4	One tailed paired T Test	0.1654	-
4B	Mock 4h	RSV 4h	4	One tailed paired T Test	0.0394	-2.986 to 0.2875
4C	Mock 1h	RSV 1h	4	One tailed paired T Test	0.0006	-0.00315 to -0.00185
4C	Mock 4h	RSV 4h	4	One tailed paired T Test	0.4035	-
4D	Mock 1h	RSV 1h	4	One tailed paired T Test	0.0776	-
4D	Mock 4h	RSV 4h	4	One tailed paired T Test	0.0610	-
4E	RSV NM	RSV M	3	One tailed paired T Test	0.071	-
4E	ASM NM	ASM M	3	One tailed paired T Test	0.078	-
4F	RSV	RSV+N	9	One tailed paired T Test	0.0263	-55458 to 400.7
4G	RSV	RSV+N	10	One tailed paired T Test	0.4124	-

Key statistical tests used (RSV + RSV LFA1) using GraphPad Prism

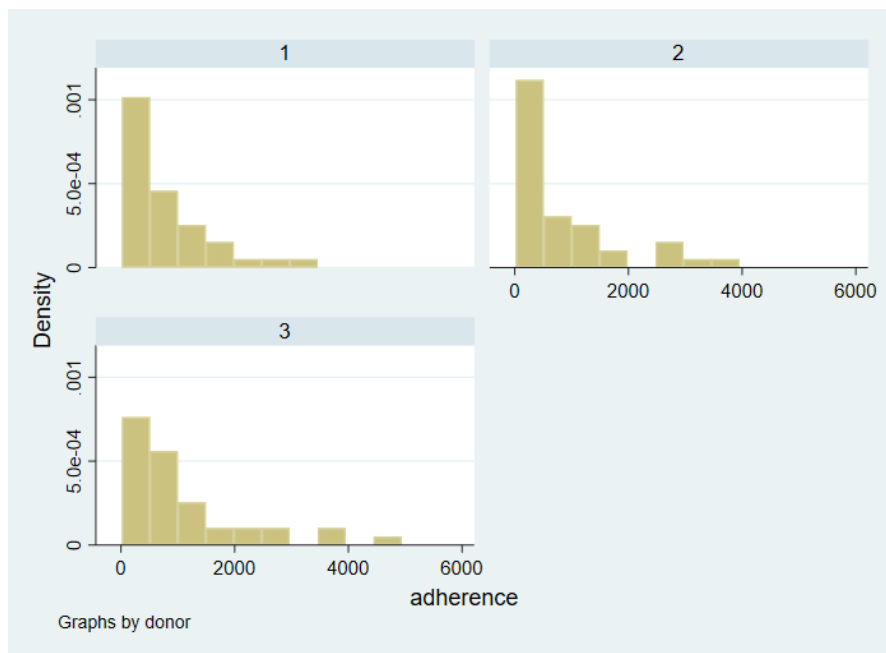
Figure	Array 1	Array 2	N	Test used	P value	95% Confidence interval
5A	Mock 1h	RSV 1h	15	Two way ANOVA with Bonferroni correction	<0.0001	-2458 to -1068
5A	RSV 1h	RSV+LFA 1h	15		<0.0001	1125 to 2515
5A	Mock 4h	RSV 4h	15	Two way ANOVA with Bonferroni correction	0.1081	-
5A	RSV 4h	RSV+LFA 4h	15		0.0091	-1581 to -191.4
5B	RSV 1h	RSV+LFA 1h	4	Two way ANOVA with Bonferroni correction	0.878	-
5B	RSV 4h	RSV+LFA 4h	4		>0.99	-
5D	Mock 4h	RSV 4h	15	Two way ANOVA with Bonferroni correction	0.0048	521.7 to 3322
5D	RSV 4h	RSV+LFA 4h	15		0.0323	-2902 to -101.9
5E	Mock 4h	RSV 4h	15	Two way ANOVA with Bonferroni correction	0.0002	-14.34 to -4.232
5E	RSV 4h	RSV+LFA 4h	15		0.0014	2.832 to 12.94
5G	RSN+N	RSV+N+LFA	9	Wilcoxon matched-pairs signed rank test	0.9102	-

Statistical modelling using STATA

To validate our statistical tests were appropriate we carried out further analysis of the neutrophil adherence data using STATA. The results of this analysis are shown below:

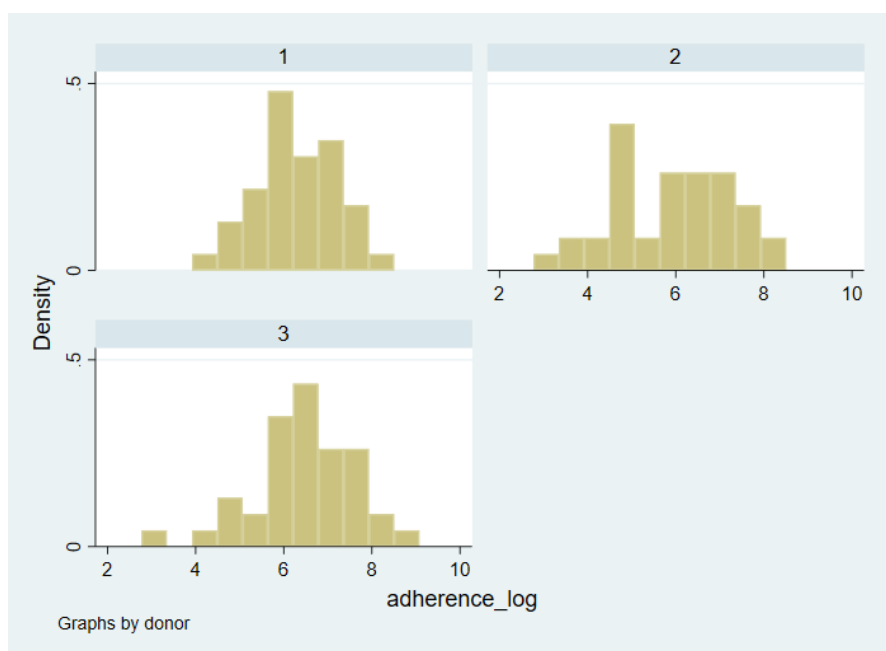
Linear mixed models, allowing for clustering by donor, ratio scale

Histogram Adherence at 1 hour - ratio scale (not normally distributed)



Linear mixed models, allowing for clustering by donor, log scale

Histogram Adherence at 1 hour - log scale (normally distributed)



T test of normally distributed data

<i>adherence_~ g</i>	<i>Coef.</i>	<i>Std. Err.</i>	<i>z</i>	<i>P>z</i>	<i>[95% Conf.</i>	<i>Interval]</i>
<i>type_n</i>						
<i>M_R</i>	0.190656	0.278341	0.68	0.493	-0.35488	0.736193
<i>RSV</i>	1.114467	0.278341	4.00	0.000	0.56893	1.660005
<i>fMLP</i>	-1.07402	0.278341	-3.86	0.000	-1.61955	-0.52848
<i>_cons</i>	6.669411	0.19814	33.66	0.000	6.281063	7.057759
<i>sigma_u</i>	0.039606					
<i>sigma_e</i>	0.762267					
<i>rho</i>	0.002692	(fraction	of variance	to u_i)		
		due				