

**Additional Statistical Information:**

<b>Panel</b>	<b>Statistical test</b>	<b>P value</b>	<b>Confidence interval</b>
<b>Fig. 1f</b>	<i>Two-tailed unpaired Student's t test</i>	P <0.0001	95% confidence interval [-37.14 to -17.81]
<b>Fig. 2i</b>	<i>One-tailed wilcoxon matched-pairs signed rank test</i>	P = 0.0312	96.88 % confidence interval [-134.8 to -69.49]
<b>Fig. 2m</b>	<i>One-tailed wilcoxon matched-pairs signed rank test</i>	P <0.0001	97.10% confidence interval [-7.952 to -4.103]
<b>Fig. 3c</b>	<i>Two-tailed paired Student's t test</i>	P <0.0001	95% confidence interval [-97.14 to -83.24]
<b>Fig. 3f</b>	<i>Two-tailed paired Student's t test</i>	P <0.0001	95% confidence interval [-93.99 to -74.28]
<b>Fig. 3g (top)</b>	<i>One-tailed wilcoxon matched-pairs signed rank test</i>	P <0.0001	98.08% confidence interval [-98.47 to -90.61]
<b>Fig. 3g (bottom)</b>	<i>One-tailed wilcoxon matched-pairs signed rank test</i>	P= 0.0078	99.22% confidence interval [-94.07 to -42.14]
<b>Fig. 4b</b>	<i>Two-tailed unpaired Student's t test</i>	P = 0.003	95% confidence interval [7.004 to 28.29]
<b>Fig. 4c</b>	<i>Two-tailed unpaired Student's t test</i>	P = 0.0023	95% confidence interval [5.465 to 18.87]
<b>Fig. 4g</b>	<i>Two-tailed unpaired Student's t test</i>	P = 0.0002	95% confidence interval [-42.40 to -27.79]
<b>Fig. 4j</b>	<i>Two-sided Mann Whitney test</i>	P = 0.0002	95.01% confidence interval [12.27 to -7.146]
<b>Fig. 4k</b>	<i>Two-tailed unpaired Student's t test</i>	P <0.0001	95% confidence interval [-16.53 to -7.385]
<b>Fig. 4l</b>	<i>Two-tailed Unpaired Student's t test</i>	P = 0.0082	95% confidence interval [-17.81 to -3.142]
<b>Fig. 5b</b>	<i>ANOVA summary</i>	P = 0.013 F = 9.77	
<b>Fig. 5c</b>	<i>Linear regression with covariate analysis</i>	P <0.0001	