

Baseline

m(2,3)-m(1,2)	m(3,4)-m(2,3)
<p>TOST results:</p> <p>t-value lower bound: 8.68</p> <p>p-value lower bound: 0.0000001 Bonferroni: <.001</p> <p>t-value upper bound: -8.22</p> <p>p-value upper bound: 0.0000002 Bonferroni: <.001</p> <p>degrees of freedom : 16</p> <p>Equivalence bounds (raw scores):</p> <p>low eqbound: -5</p> <p>high eqbound: 5</p> <p>TOST confidence interval:</p> <p>lower bound 90% CI: -0.9</p> <p>upper bound 90% CI: 1.167</p> <p>NHST confidence interval:</p> <p>lower bound 95% CI: -1.121</p> <p>upper bound 95% CI: 1.388</p> <p>Equivalence Test Result:</p> <p>The equivalence test was significant, $t(16) = -8.224$, $p = 0.000000193$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result:</p> <p>The null hypothesis test was non-significant, $t(16) = 0.226$, $p = 0.824$, given an alpha of 0.05.</p> <p>Bonferroni: 1.000</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.</p>	<p>TOST results:</p> <p>t-value lower bound: 40.38</p> <p>p-value lower bound: 0.000000000000000008 Bonferroni: <.001</p> <p>t-value upper bound: -58.04</p> <p>p-value upper bound: 0.0000000000000000002 Bonferroni: <.001</p> <p>degrees of freedom : 16</p> <p>Equivalence bounds (raw scores):</p> <p>low eqbound: -5</p> <p>high eqbound: 5</p> <p>TOST confidence interval:</p> <p>lower bound 90% CI: -1.074</p> <p>upper bound 90% CI: -0.72</p> <p>NHST confidence interval:</p> <p>lower bound 95% CI: -1.112</p> <p>upper bound 95% CI: -0.682</p> <p>Equivalence Test Result:</p> <p>The equivalence test was significant, $t(16) = 40.381$, $p = 0.00000000000000000784$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result:</p> <p>The null hypothesis test was significant, $t(16) = -8.829$, $p = 0.0000000151$, given an alpha of 0.05.</p> <p>Bonferroni: <.001</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically different from zero and statistically equivalent to zero.</p>

m(2,3)-m(1,2)	m(3,4)-m(2,3)
<p>TOST results:</p> <p>t-value lower bound: 8.58 p-value lower bound: 0.0000001 Bonferroni: <.001 t-value upper bound: -11.36 p-value upper bound: 0.000000002 Bonferroni: <.001 degrees of freedom : 16</p> <p>Equivalence bounds (raw scores): low eqbound: -5 high eqbound: 5</p> <p>TOST confidence interval: lower bound 90% CI: -1.573 upper bound 90% CI: 0.178</p> <p>NHST confidence interval: lower bound 95% CI: -1.761 upper bound 95% CI: 0.365</p> <p>Equivalence Test Result: The equivalence test was significant, $t(16) = 8.578$, $p = 0.000000111$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result: The null hypothesis test was non-significant, $t(16) = -1.391$, $p = 0.183$, given an alpha of 0.05. Bonferroni: 0.549</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.</p>	<p>TOST results:</p> <p>t-value lower bound: 4.04 p-value lower bound: 0.0005 Bonferroni: <.001 t-value upper bound: -5.29 p-value upper bound: 0.00004 Bonferroni: <.001 degrees of freedom : 16</p> <p>Equivalence bounds (raw scores): low eqbound: -5 high eqbound: 5</p> <p>TOST confidence interval: lower bound 90% CI: -2.538 upper bound 90% CI: 1.205</p> <p>NHST confidence interval: lower bound 95% CI: -2.939 upper bound 95% CI: 1.606</p> <p>Equivalence Test Result: The equivalence test was significant, $t(16) = 4.043$, $p = 0.000471$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result: The null hypothesis test was non-significant, $t(16) = -0.622$, $p = 0.543$, given an alpha of 0.05. Bonferroni: 1.000</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.</p>

m(2,3)-m(1,2)	m(3,4)-m(2,3)
<p>TOST results: t-value lower bound: 1.24 p-value lower bound: 0.117 Bonferroni: .351 t-value upper bound: -3.12 p-value upper bound: 0.003 Bonferroni: .009 degrees of freedom : 16</p> <p>Equivalence bounds (raw scores): low eqbound: -5 high eqbound: 5</p> <p>TOST confidence interval: lower bound 90% CI: -6.165 upper bound 90% CI: 1.84</p> <p>NHST confidence interval: lower bound 95% CI: -7.022 upper bound 95% CI: 2.697</p> <p>Equivalence Test Result: The equivalence test was non-significant, $t(16) = 1.238$, $p = 0.117$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result: The null hypothesis test was non-significant, $t(16) = -0.943$, $p = 0.360$, given an alpha of 0.05. Bonferroni: 1.000</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically not equivalent to zero.</p>	<p>TOST results: t-value lower bound: 6.33 p-value lower bound: 0.000005 Bonferroni: <.001 t-value upper bound: -5.73 p-value upper bound: 0.00002 Bonferroni: <.001 degrees of freedom : 16</p> <p>Equivalence bounds (raw scores): low eqbound: -5 high eqbound: 5</p> <p>TOST confidence interval: lower bound 90% CI: -1.198 upper bound 90% CI: 1.697</p> <p>NHST confidence interval: lower bound 95% CI: -1.508 upper bound 95% CI: 2.007</p> <p>Equivalence Test Result: The equivalence test was significant, $t(16) = -5.731$, $p = 0.0000155$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result: The null hypothesis test was non-significant, $t(16) = 0.301$, $p = 0.767$, given an alpha of 0.05. Bonferroni: 1.000</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.</p>

V+VM

m(2,3)-m(1,2)	m(3,4)-m(2,3)
<p>TOST results: t-value lower bound: 5.33 p-value lower bound: 0.00003 Bonferroni: <.001 t-value upper bound: -7.02 p-value upper bound: 0.000001 Bonferroni: <.001 degrees of freedom : 16</p> <p>Equivalence bounds (raw scores): low eqbound: -5 high eqbound: 5</p> <p>TOST confidence interval: lower bound 90% CI: -2.096 upper bound 90% CI: 0.73</p> <p>NHST confidence interval: lower bound 95% CI: -2.399 upper bound 95% CI: 1.033</p> <p>Equivalence Test Result: The equivalence test was significant, $t(16) = 5.333$, $p = 0.0000337$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result: The null hypothesis test was non-significant, $t(16) = -0.844$, $p = 0.411$, given an alpha of 0.05.</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.</p>	<p>TOST results: t-value lower bound: 4.79 p-value lower bound: 0.0001 Bonferroni: <.001 t-value upper bound: -4.76 p-value upper bound: 0.0001 Bonferroni: <.001 degrees of freedom : 16</p> <p>Equivalence bounds (raw scores): low eqbound: -5 high eqbound: 5</p> <p>TOST confidence interval: lower bound 90% CI: -1.811 upper bound 90% CI: 1.845</p> <p>NHST confidence interval: lower bound 95% CI: -2.203 upper bound 95% CI: 2.236</p> <p>Equivalence Test Result: The equivalence test was significant, $t(16) = -4.760$, $p = 0.000107$, given equivalence bounds of -5.000 and 5.000 (on a raw scale) and an alpha of 0.05.</p> <p>Null Hypothesis Test Result: The null hypothesis test was non-significant, $t(16) = 0.016$, $p = 0.987$, given an alpha of 0.05.</p> <p>Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.</p>