Mixed Model Analysis Results

# Processing Overall:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (Overall):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 191 Method: REML   
No. Groups: 14 Scale: 0.0035   
Min. group size: 2 Log-Likelihood: 222.4479  
Max. group size: 21 Converged: Yes   
Mean group size: 13.6   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.435 0.045 9.599 0.000 0.346 0.524  
Time[T.Pre] 0.036 0.009 4.164 0.000 0.019 0.053  
Impact\_Load\_Total\_LR -0.000 0.000 -0.589 0.556 -0.000 0.000  
Average\_Intensity\_LR 0.004 0.004 1.056 0.291 -0.003 0.011  
Group Var 0.007 0.053   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (Overall) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (Overall) is not significant.

## Results for Eccentric\_Duration\_ms (Overall):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 197 Method: REML   
No. Groups: 14 Scale: 1256.0653   
Min. group size: 2 Log-Likelihood: -1002.9983  
Max. group size: 22 Converged: Yes   
Mean group size: 14.1   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 539.767 26.497 20.371 0.000 487.834 591.701  
Time[T.Pre] -11.539 5.051 -2.284 0.022 -21.439 -1.639  
Impact\_Load\_Total\_LR 0.000 0.000 0.918 0.359 -0.000 0.000  
Average\_Intensity\_LR -1.634 2.213 -0.739 0.460 -5.971 2.703  
Group Var 2281.824 27.560   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (Overall) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (Overall) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Overall):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 193 Method: REML   
No. Groups: 14 Scale: 1.8711   
Min. group size: 2 Log-Likelihood: -370.2320  
Max. group size: 22 Converged: Yes   
Mean group size: 13.8   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 13.503 1.088 12.407 0.000 11.370 15.636  
Time[T.Pre] 0.824 0.197 4.178 0.000 0.437 1.210  
Impact\_Load\_Total\_LR -0.000 0.000 -0.281 0.779 -0.000 0.000  
Average\_Intensity\_LR 0.096 0.087 1.105 0.269 -0.074 0.266  
Group Var 5.092 1.605   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Overall) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Overall) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Overall):

Mixed Linear Model Regression Results  
================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 191 Method: REML   
No. Groups: 14 Scale: 119.3257   
Min. group size: 2 Log-Likelihood: -752.9586  
Max. group size: 20 Converged: Yes   
Mean group size: 13.6   
----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
----------------------------------------------------------------  
Intercept 51.995 8.171 6.363 0.000 35.979 68.011  
Time[T.Pre] 8.587 1.587 5.410 0.000 5.476 11.698  
Impact\_Load\_Total\_LR -0.000 0.000 -1.865 0.062 -0.000 0.000  
Average\_Intensity\_LR 0.846 0.681 1.242 0.214 -0.489 2.180  
Group Var 221.951 8.640   
================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Overall) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Overall) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (Overall):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 196 Method: REML   
No. Groups: 14 Scale: 2.8386   
Min. group size: 2 Log-Likelihood: -409.5905  
Max. group size: 22 Converged: Yes   
Mean group size: 14.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 20.708 1.165 17.772 0.000 18.424 22.992  
Time[T.Pre] 1.189 0.241 4.937 0.000 0.717 1.661  
Impact\_Load\_Total\_LR -0.000 0.000 -1.436 0.151 -0.000 0.000  
Average\_Intensity\_LR 0.070 0.103 0.678 0.498 -0.132 0.271  
Group Var 2.865 0.747   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (Overall) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (Overall) is not significant.

Model for SRPE (Overall) did not converge: index 94 is out of bounds for axis 0 with size 94

# Processing Forward:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (Forward):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 51 Method: REML   
No. Groups: 5 Scale: 0.0048   
Min. group size: 2 Log-Likelihood: 37.8058  
Max. group size: 15 Converged: Yes   
Mean group size: 10.2   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.408 0.074 5.493 0.000 0.263 0.554  
Time[T.Pre] 0.037 0.020 1.910 0.056 -0.001 0.076  
Impact\_Load\_Total\_LR -0.000 0.000 -0.087 0.931 -0.000 0.000  
Average\_Intensity\_LR 0.002 0.007 0.251 0.802 -0.012 0.015  
Group Var 0.003 0.037   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (Forward) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (Forward) is not significant.

## Results for Eccentric\_Duration\_ms (Forward):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 55 Method: REML   
No. Groups: 5 Scale: 1376.0340  
Min. group size: 2 Log-Likelihood: -279.6943  
Max. group size: 15 Converged: Yes   
Mean group size: 11.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 478.491 43.079 11.107 0.000 394.058 562.924  
Time[T.Pre] 5.055 10.014 0.505 0.614 -14.573 24.682  
Impact\_Load\_Total\_LR -0.000 0.000 -0.374 0.708 -0.001 0.000  
Average\_Intensity\_LR 4.000 3.509 1.140 0.254 -2.878 10.878  
Group Var 1868.397 40.027   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (Forward) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (Forward) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Forward):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 53 Method: REML   
No. Groups: 5 Scale: 3.6983   
Min. group size: 2 Log-Likelihood: -124.3606  
Max. group size: 15 Converged: Yes   
Mean group size: 10.6   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 12.002 2.240 5.358 0.000 7.611 16.392  
Time[T.Pre] 1.119 0.531 2.109 0.035 0.079 2.159  
Impact\_Load\_Total\_LR -0.000 0.000 -0.007 0.995 -0.000 0.000  
Average\_Intensity\_LR 0.102 0.194 0.525 0.599 -0.278 0.482  
Group Var 4.875 2.200   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Forward) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Forward) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Forward):

Mixed Linear Model Regression Results  
================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 55 Method: REML   
No. Groups: 5 Scale: 104.7305   
Min. group size: 2 Log-Likelihood: -214.0640  
Max. group size: 15 Converged: Yes   
Mean group size: 11.0   
----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
----------------------------------------------------------------  
Intercept 64.299 11.794 5.452 0.000 41.183 87.415  
Time[T.Pre] 6.905 2.763 2.500 0.012 1.491 12.320  
Impact\_Load\_Total\_LR -0.000 0.000 -1.666 0.096 -0.000 0.000  
Average\_Intensity\_LR 0.344 0.955 0.360 0.719 -1.528 2.215  
Group Var 146.006 11.125   
================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Forward) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Forward) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (Forward):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 55 Method: REML   
No. Groups: 5 Scale: 2.4900   
Min. group size: 2 Log-Likelihood: -116.4144  
Max. group size: 15 Converged: Yes   
Mean group size: 11.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 21.544 1.605 13.427 0.000 18.400 24.689  
Time[T.Pre] 1.317 0.426 3.091 0.002 0.482 2.152  
Impact\_Load\_Total\_LR -0.000 0.000 -1.527 0.127 -0.000 0.000  
Average\_Intensity\_LR 0.051 0.143 0.355 0.723 -0.229 0.330  
Group Var 0.814 0.488   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (Forward) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (Forward) is not significant.

## Results for SRPE (Forward):

Mixed Linear Model Regression Results  
====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 27 Method: REML   
No. Groups: 5 Scale: 11447.9227  
Min. group size: 1 Log-Likelihood: -166.9824   
Max. group size: 7 Converged: Yes   
Mean group size: 5.4   
--------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
--------------------------------------------------------------------  
Intercept 363.618 174.827 2.080 0.038 20.964 706.272  
Impact\_Load\_Total\_LR 0.003 0.001 2.657 0.008 0.001 0.005  
Average\_Intensity\_LR -6.532 14.033 -0.465 0.642 -34.036 20.973  
Group Var 33763.552 281.600   
====================================================================

-> The effect of Impact Load Total (L+R) on SRPE (Forward) is significant.

-> The effect of Average Intensity (L and R) on SRPE (Forward) is not significant.

# Processing Guard:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (Guard):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 140 Method: REML   
No. Groups: 9 Scale: 0.0031   
Min. group size: 4 Log-Likelihood: 165.8460  
Max. group size: 21 Converged: Yes   
Mean group size: 15.6   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.412 0.059 7.001 0.000 0.297 0.528  
Time[T.Pre] 0.035 0.009 3.733 0.000 0.017 0.054  
Impact\_Load\_Total\_LR -0.000 0.000 -0.862 0.389 -0.000 0.000  
Average\_Intensity\_LR 0.009 0.005 1.811 0.070 -0.001 0.018  
Group Var 0.009 0.087   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (Guard) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (Guard) is not significant.

## Results for Eccentric\_Duration\_ms (Guard):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 142 Method: REML   
No. Groups: 9 Scale: 1154.2641  
Min. group size: 4 Log-Likelihood: -715.8084  
Max. group size: 22 Converged: Yes   
Mean group size: 15.8   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 587.654 34.558 17.005 0.000 519.922 655.386  
Time[T.Pre] -17.887 5.702 -3.137 0.002 -29.063 -6.711  
Impact\_Load\_Total\_LR 0.000 0.000 1.618 0.106 -0.000 0.001  
Average\_Intensity\_LR -6.381 2.909 -2.193 0.028 -12.083 -0.679  
Group Var 2747.682 43.728   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (Guard) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (Guard) is significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Guard):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 140 Method: REML   
No. Groups: 9 Scale: 1.2529   
Min. group size: 4 Log-Likelihood: -243.3920  
Max. group size: 22 Converged: Yes   
Mean group size: 15.6   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 13.787 1.234 11.170 0.000 11.368 16.206  
Time[T.Pre] 0.709 0.189 3.744 0.000 0.338 1.080  
Impact\_Load\_Total\_LR -0.000 0.000 -0.569 0.570 -0.000 0.000  
Average\_Intensity\_LR 0.141 0.098 1.443 0.149 -0.050 0.332  
Group Var 4.630 2.225   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Guard) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (Guard) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Guard):

Mixed Linear Model Regression Results  
================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 136 Method: REML   
No. Groups: 9 Scale: 125.0678   
Min. group size: 4 Log-Likelihood: -539.2346  
Max. group size: 20 Converged: Yes   
Mean group size: 15.1   
----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
----------------------------------------------------------------  
Intercept 42.854 11.386 3.764 0.000 20.538 65.170  
Time[T.Pre] 9.208 1.929 4.774 0.000 5.428 12.989  
Impact\_Load\_Total\_LR -0.000 0.000 -1.235 0.217 -0.000 0.000  
Average\_Intensity\_LR 1.430 0.963 1.486 0.137 -0.457 3.317  
Group Var 294.480 14.173   
================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Guard) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (Guard) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (Guard):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 141 Method: REML   
No. Groups: 9 Scale: 2.9957   
Min. group size: 4 Log-Likelihood: -301.1178  
Max. group size: 22 Converged: Yes   
Mean group size: 15.7   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 20.151 1.647 12.233 0.000 16.922 23.379  
Time[T.Pre] 1.133 0.292 3.884 0.000 0.561 1.704  
Impact\_Load\_Total\_LR -0.000 0.000 -0.710 0.478 -0.000 0.000  
Average\_Intensity\_LR 0.094 0.146 0.644 0.519 -0.192 0.380  
Group Var 4.362 1.381   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (Guard) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (Guard) is not significant.

Model for SRPE (Guard) did not converge: index 67 is out of bounds for axis 0 with size 67

# Processing 2023-09-19:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-09-19):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 27 Method: REML   
No. Groups: 14 Scale: 0.0026  
Min. group size: 1 Log-Likelihood: 9.3324  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.573 0.175 3.275 0.001 0.230 0.915  
Time[T.Pre] 0.055 0.020 2.766 0.006 0.016 0.095  
Impact\_Load\_Total\_LR -0.000 0.000 -0.778 0.437 -0.000 0.000  
Average\_Intensity\_LR 0.008 0.029 0.273 0.785 -0.048 0.064  
Group Var 0.008 0.114   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-19) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-19) is not significant.

## Results for Eccentric\_Duration\_ms (2023-09-19):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 28 Method: REML   
No. Groups: 14 Scale: 671.6959   
Min. group size: 2 Log-Likelihood: -136.9109  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 346.198 73.964 4.681 0.000 201.231 491.165  
Time[T.Pre] -19.429 9.796 -1.983 0.047 -38.628 -0.229  
Impact\_Load\_Total\_LR -0.001 0.001 -0.876 0.381 -0.003 0.001  
Average\_Intensity\_LR 21.411 12.139 1.764 0.078 -2.381 45.204  
Group Var 1353.563 37.764   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-09-19) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-09-19) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-19):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 28 Method: REML   
No. Groups: 14 Scale: 1.1335   
Min. group size: 2 Log-Likelihood: -64.4479  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 13.322 4.426 3.010 0.003 4.647 21.997  
Time[T.Pre] 1.036 0.402 2.574 0.010 0.247 1.824  
Impact\_Load\_Total\_LR -0.000 0.000 -1.315 0.188 -0.000 0.000  
Average\_Intensity\_LR 0.768 0.727 1.056 0.291 -0.658 2.193  
Group Var 5.497 3.300   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-19) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-19) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-19):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 28 Method: REML   
No. Groups: 14 Scale: 50.9231   
Min. group size: 2 Log-Likelihood: -109.8886  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 101.797 29.082 3.500 0.000 44.798 158.797  
Time[T.Pre] 10.000 2.697 3.708 0.000 4.714 15.286  
Impact\_Load\_Total\_LR 0.000 0.000 0.548 0.583 -0.001 0.001  
Average\_Intensity\_LR -5.377 4.778 -1.125 0.260 -14.742 3.989  
Group Var 236.309 21.253   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-19) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-19) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-19):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 28 Method: REML   
No. Groups: 14 Scale: 1.0140   
Min. group size: 2 Log-Likelihood: -59.6390  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 24.386 3.056 7.980 0.000 18.396 30.376  
Time[T.Pre] 1.712 0.381 4.499 0.000 0.966 2.458  
Impact\_Load\_Total\_LR -0.000 0.000 -0.874 0.382 -0.000 0.000  
Average\_Intensity\_LR 0.030 0.502 0.060 0.952 -0.953 1.013  
Group Var 2.379 1.660   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-19) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-19) is not significant.

Model for SRPE (2023-09-19) did not converge: index 13 is out of bounds for axis 0 with size 13

# Processing 2023-09-26:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-09-26):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 0.0052   
Min. group size: 2 Log-Likelihood: -2.2655  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.971 0.277 3.511 0.000 0.429 1.514  
Time[T.Pre] 0.006 0.038 0.149 0.882 -0.070 0.081  
Impact\_Load\_Total\_LR 0.000 0.000 0.103 0.918 -0.000 0.000  
Average\_Intensity\_LR -0.045 0.037 -1.218 0.223 -0.118 0.028  
Group Var 0.001 0.044   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-26) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-26) is not significant.

## Results for Eccentric\_Duration\_ms (2023-09-26):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 1573.4062  
Min. group size: 2 Log-Likelihood: -67.4283   
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 400.154 253.757 1.577 0.115 -97.200 897.508  
Time[T.Pre] -15.857 21.202 -0.748 0.455 -57.413 25.699  
Impact\_Load\_Total\_LR -0.002 0.002 -0.723 0.470 -0.006 0.003  
Average\_Intensity\_LR 22.789 34.188 0.667 0.505 -44.217 89.796  
Group Var 2119.440 66.881   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-09-26) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-09-26) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-26):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 2.0345   
Min. group size: 2 Log-Likelihood: -34.0172  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 23.473 8.773 2.675 0.007 6.277 40.668  
Time[T.Pre] -0.071 0.762 -0.094 0.925 -1.566 1.423  
Impact\_Load\_Total\_LR -0.000 0.000 -0.516 0.606 -0.000 0.000  
Average\_Intensity\_LR -0.482 1.182 -0.407 0.684 -2.798 1.835  
Group Var 2.456 2.223   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-26) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-26) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-26):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 98.0746   
Min. group size: 2 Log-Likelihood: -54.9431  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 81.390 89.665 0.908 0.364 -94.350 257.130  
Time[T.Pre] 2.143 5.294 0.405 0.686 -8.232 12.518  
Impact\_Load\_Total\_LR 0.000 0.001 0.207 0.836 -0.001 0.002  
Average\_Intensity\_LR -3.280 12.086 -0.271 0.786 -26.967 20.407  
Group Var 314.129 33.475   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-26) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-26) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-26):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 3.4818   
Min. group size: 2 Log-Likelihood: -37.0164  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 25.056 12.409 2.019 0.043 0.735 49.377  
Time[T.Pre] 0.266 0.997 0.266 0.790 -1.689 2.221  
Impact\_Load\_Total\_LR -0.000 0.000 -0.254 0.800 -0.000 0.000  
Average\_Intensity\_LR -0.190 1.672 -0.114 0.909 -3.467 3.087  
Group Var 5.209 3.400   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-26) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-26) is not significant.

Model for SRPE (2023-09-26) did not converge: index 5 is out of bounds for axis 0 with size 5

# Processing 2023-09-27:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-09-27):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 20 Method: REML   
No. Groups: 10 Scale: 0.0045  
Min. group size: 2 Log-Likelihood: 1.0789  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.570 0.166 3.444 0.001 0.246 0.895  
Time[T.Pre] 0.001 0.030 0.033 0.973 -0.058 0.060  
Impact\_Load\_Total\_LR 0.000 0.000 0.217 0.828 -0.000 0.000  
Average\_Intensity\_LR -0.007 0.026 -0.291 0.771 -0.058 0.043  
Group Var 0.005 0.074   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-27) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-27) is not significant.

## Results for Eccentric\_Duration\_ms (2023-09-27):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 20 Method: REML   
No. Groups: 10 Scale: 1462.6690  
Min. group size: 2 Log-Likelihood: -102.7019  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 579.132 130.160 4.449 0.000 324.023 834.242  
Time[T.Pre] -7.000 17.104 -0.409 0.682 -40.522 26.522  
Impact\_Load\_Total\_LR 0.001 0.002 0.393 0.695 -0.003 0.005  
Average\_Intensity\_LR -8.913 20.136 -0.443 0.658 -48.379 30.553  
Group Var 3584.770 80.431   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-09-27) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-09-27) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-27):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 20 Method: REML   
No. Groups: 10 Scale: 1.8249   
Min. group size: 2 Log-Likelihood: -46.5788  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 18.554 3.165 5.863 0.000 12.352 24.757  
Time[T.Pre] -0.010 0.604 -0.017 0.987 -1.194 1.174  
Impact\_Load\_Total\_LR 0.000 0.000 0.661 0.508 -0.000 0.000  
Average\_Intensity\_LR -0.401 0.488 -0.822 0.411 -1.359 0.556  
Group Var 1.627 1.340   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-27) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-27) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-27):

Mixed Linear Model Regression Results  
=================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 19 Method: REML   
No. Groups: 10 Scale: 53.9298   
Min. group size: 1 Log-Likelihood: -75.4000  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
-----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-----------------------------------------------------------------  
Intercept -7.546 38.123 -0.198 0.843 -82.267 67.174  
Time[T.Pre] 4.368 3.463 1.261 0.207 -2.420 11.156  
Impact\_Load\_Total\_LR -0.001 0.001 -1.552 0.121 -0.002 0.000  
Average\_Intensity\_LR 10.754 5.905 1.821 0.069 -0.820 22.328  
Group Var 336.179 37.053   
=================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-27) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-27) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-27):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 20 Method: REML   
No. Groups: 10 Scale: 3.1547   
Min. group size: 2 Log-Likelihood: -52.4658  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 17.672 5.153 3.429 0.001 7.572 27.771  
Time[T.Pre] -0.205 0.794 -0.258 0.796 -1.762 1.352  
Impact\_Load\_Total\_LR -0.000 0.000 -0.511 0.610 -0.000 0.000  
Average\_Intensity\_LR 0.577 0.797 0.724 0.469 -0.984 2.138  
Group Var 5.176 2.710   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-27) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-27) is not significant.

## Results for SRPE (2023-09-27):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 10 Method: REML   
No. Groups: 10 Scale: 4915.7588  
Min. group size: 1 Log-Likelihood: -55.7463   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 718.128 130.684 5.495 0.000 461.992 974.264  
Impact\_Load\_Total\_LR 0.006 0.000 12.372 0.000 0.005 0.007  
Average\_Intensity\_LR -57.155 7.447 -7.675 0.000 -71.750 -42.559  
Group Var 4915.759   
===================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-09-27) is significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-09-27) is significant.

# Processing 2023-10-03:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-03):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 0.0014  
Min. group size: 2 Log-Likelihood: 5.4260  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.746 0.153 4.880 0.000 0.447 1.046  
Time[T.Pre] 0.032 0.018 1.812 0.070 -0.003 0.067  
Impact\_Load\_Total\_LR -0.000 0.000 -0.158 0.875 -0.000 0.000  
Average\_Intensity\_LR -0.017 0.018 -0.935 0.350 -0.054 0.019  
Group Var 0.004 0.089   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-03) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-03) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-03):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 678.3480  
Min. group size: 2 Log-Likelihood: -89.6129  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 471.913 189.441 2.491 0.013 100.615 843.210  
Time[T.Pre] -10.778 12.278 -0.878 0.380 -34.842 13.286  
Impact\_Load\_Total\_LR 0.001 0.002 0.363 0.717 -0.004 0.005  
Average\_Intensity\_LR -0.233 22.943 -0.010 0.992 -45.200 44.733  
Group Var 6411.755 197.968   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-03) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-03) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-03):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 0.6139   
Min. group size: 2 Log-Likelihood: -39.8728  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 20.520 5.083 4.037 0.000 10.558 30.483  
Time[T.Pre] 0.544 0.369 1.474 0.140 -0.179 1.268  
Impact\_Load\_Total\_LR -0.000 0.000 -0.159 0.873 -0.000 0.000  
Average\_Intensity\_LR -0.316 0.616 -0.513 0.608 -1.522 0.891  
Group Var 4.552 4.736   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-03) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-03) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-03):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 17 Method: REML   
No. Groups: 9 Scale: 44.4907   
Min. group size: 1 Log-Likelihood: -67.4703  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 61.386 53.890 1.139 0.255 -44.237 167.008  
Time[T.Pre] 5.822 3.331 1.748 0.080 -0.706 12.350  
Impact\_Load\_Total\_LR -0.000 0.001 -0.123 0.902 -0.001 0.001  
Average\_Intensity\_LR 0.257 6.527 0.039 0.969 -12.536 13.050  
Group Var 524.103 64.600   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-03) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-03) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-03):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 17 Method: REML   
No. Groups: 9 Scale: 1.3742   
Min. group size: 1 Log-Likelihood: -41.4989  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 22.662 5.373 4.218 0.000 12.131 33.193  
Time[T.Pre] 0.764 0.584 1.307 0.191 -0.382 1.909  
Impact\_Load\_Total\_LR -0.000 0.000 -0.445 0.657 -0.000 0.000  
Average\_Intensity\_LR 0.037 0.650 0.056 0.955 -1.238 1.311  
Group Var 4.733 3.696   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-03) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-03) is not significant.

## Results for SRPE (2023-10-03):

Mixed Linear Model Regression Results  
=====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 9 Scale: 30708.9846  
Min. group size: 1 Log-Likelihood: -54.9356   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
---------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------------  
Intercept 407.338 280.333 1.453 0.146 -142.104 956.780  
Impact\_Load\_Total\_LR -0.004 0.005 -0.859 0.391 -0.014 0.005  
Average\_Intensity\_LR 44.715 10.493 4.262 0.000 24.150 65.281  
Group Var 30708.985   
=====================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-03) is not significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-03) is significant.

# Processing 2023-10-04:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-04):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 23 Method: REML   
No. Groups: 12 Scale: 0.0058  
Min. group size: 1 Log-Likelihood: 4.3311  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.616 0.151 4.092 0.000 0.321 0.911  
Time[T.Pre] 0.046 0.032 1.440 0.150 -0.017 0.110  
Impact\_Load\_Total\_LR 0.000 0.000 1.328 0.184 -0.000 0.000  
Average\_Intensity\_LR -0.027 0.017 -1.579 0.114 -0.060 0.006  
Group Var 0.003 0.047   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-04) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-04) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-04):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 24 Method: REML   
No. Groups: 12 Scale: 1063.8498  
Min. group size: 2 Log-Likelihood: -121.1711  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 371.749 97.508 3.813 0.000 180.637 562.861  
Time[T.Pre] 7.333 13.316 0.551 0.582 -18.765 33.432  
Impact\_Load\_Total\_LR -0.001 0.003 -0.505 0.614 -0.006 0.004  
Average\_Intensity\_LR 16.646 11.870 1.402 0.161 -6.620 39.911  
Group Var 2622.699 61.478   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-04) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-04) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-04):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 23 Method: REML   
No. Groups: 12 Scale: 4.5913   
Min. group size: 1 Log-Likelihood: -59.3802  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 16.707 4.358 3.834 0.000 8.165 25.248  
Time[T.Pre] 1.289 0.911 1.415 0.157 -0.497 3.074  
Impact\_Load\_Total\_LR 0.000 0.000 0.687 0.492 -0.000 0.000  
Average\_Intensity\_LR -0.407 0.494 -0.824 0.410 -1.375 0.561  
Group Var 2.371 1.424   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-04) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-04) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-04):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 24 Method: REML   
No. Groups: 12 Scale: 166.3487   
Min. group size: 2 Log-Likelihood: -100.7226  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 57.916 31.282 1.851 0.064 -3.396 119.228  
Time[T.Pre] 6.167 5.265 1.171 0.242 -4.153 16.487  
Impact\_Load\_Total\_LR 0.001 0.001 1.210 0.226 -0.001 0.003  
Average\_Intensity\_LR -3.067 3.804 -0.806 0.420 -10.522 4.388  
Group Var 240.722 15.963   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-04) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-04) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-04):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 24 Method: REML   
No. Groups: 12 Scale: 3.7517   
Min. group size: 2 Log-Likelihood: -59.8849  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 18.814 3.408 5.521 0.000 12.135 25.493  
Time[T.Pre] 1.353 0.791 1.710 0.087 -0.197 2.902  
Impact\_Load\_Total\_LR 0.000 0.000 2.251 0.024 0.000 0.000  
Average\_Intensity\_LR -0.468 0.413 -1.132 0.258 -1.277 0.342  
Group Var 1.943 1.253   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-04) is significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-04) is not significant.

## Results for SRPE (2023-10-04):

Mixed Linear Model Regression Results  
==========================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 12 Scale: 9304.5548  
Min. group size: 1 Log-Likelihood: -70.1615   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
--------------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
--------------------------------------------------------------------------  
Intercept 381.262 236.273 1.614 0.107 -81.823 844.348  
Impact\_Load\_Total\_LR -0.003 0.006 -0.570 0.569 -0.016 0.009  
Average\_Intensity\_LR 8.647 28.831 0.300 0.764 -47.861 65.154  
Group Var 9304.555 12946658217.027   
==========================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-04) is not significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-04) is not significant.

# Processing 2023-10-10:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-10):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 0.0025   
Min. group size: 2 Log-Likelihood: -4.1796  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 1.362 0.688 1.981 0.048 0.014 2.710  
Time[T.Pre] 0.043 0.029 1.515 0.130 -0.013 0.099  
Impact\_Load\_Total\_LR 0.000 0.000 0.394 0.693 -0.000 0.000  
Average\_Intensity\_LR -0.111 0.104 -1.066 0.286 -0.316 0.093  
Group Var 0.017 0.384   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-10) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-10) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-10):

Mixed Linear Model Regression Results  
====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 1452.3505  
Min. group size: 2 Log-Likelihood: -55.6418   
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
--------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
--------------------------------------------------------------------  
Intercept 268.361 300.043 0.894 0.371 -319.713 856.434  
Time[T.Pre] -8.500 22.003 -0.386 0.699 -51.624 34.624  
Impact\_Load\_Total\_LR -0.001 0.004 -0.270 0.787 -0.009 0.007  
Average\_Intensity\_LR 32.266 45.543 0.708 0.479 -56.996 121.528  
Group Var 2777.712 94.957   
====================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-10) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-10) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-10):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 0.9168   
Min. group size: 2 Log-Likelihood: -28.4978  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 33.096 16.366 2.022 0.043 1.019 65.172  
Time[T.Pre] 0.917 0.553 1.658 0.097 -0.167 2.000  
Impact\_Load\_Total\_LR 0.000 0.000 0.448 0.654 -0.000 0.001  
Average\_Intensity\_LR -2.511 2.485 -1.010 0.312 -7.383 2.360  
Group Var 9.977 11.256   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-10) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-10) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-10):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 11 Method: REML   
No. Groups: 6 Scale: 94.7282   
Min. group size: 1 Log-Likelihood: -42.2796  
Max. group size: 2 Converged: Yes   
Mean group size: 1.8   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 135.641 134.885 1.006 0.315 -128.728 400.010  
Time[T.Pre] 9.257 6.173 1.500 0.134 -2.841 21.355  
Impact\_Load\_Total\_LR 0.000 0.002 0.211 0.833 -0.003 0.004  
Average\_Intensity\_LR -10.174 20.500 -0.496 0.620 -50.353 30.005  
Group Var 647.107 79.294   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-10) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-10) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-10):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 3.3123   
Min. group size: 2 Log-Likelihood: -31.5559  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 39.863 15.558 2.562 0.010 9.370 70.357  
Time[T.Pre] 1.390 1.051 1.323 0.186 -0.669 3.449  
Impact\_Load\_Total\_LR 0.000 0.000 0.127 0.899 -0.000 0.000  
Average\_Intensity\_LR -1.947 2.362 -0.824 0.410 -6.576 2.682  
Group Var 7.767 5.347   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-10) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-10) is not significant.

Model for SRPE (2023-10-10) did not converge: index 5 is out of bounds for axis 0 with size 5

# Processing 2023-10-11:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-11):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 6 Scale: 0.0093   
Min. group size: 1 Log-Likelihood: -9.4291  
Max. group size: 2 Converged: Yes   
Mean group size: 1.5   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.653 0.486 1.344 0.179 -0.299 1.604  
Time[T.Pre] -0.021 0.090 -0.233 0.815 -0.197 0.155  
Impact\_Load\_Total\_LR 0.000 0.000 1.162 0.245 -0.000 0.000  
Average\_Intensity\_LR -0.197 0.161 -1.227 0.220 -0.512 0.118  
Group Var 0.020 0.433   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-11) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-11) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-11):

Mixed Linear Model Regression Results  
====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 1820.6844  
Min. group size: 2 Log-Likelihood: -55.9400   
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
--------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
--------------------------------------------------------------------  
Intercept 678.730 172.355 3.938 0.000 340.919 1016.540  
Time[T.Pre] -25.833 24.635 -1.049 0.294 -74.118 22.451  
Impact\_Load\_Total\_LR -0.015 0.009 -1.656 0.098 -0.032 0.003  
Average\_Intensity\_LR 78.010 54.599 1.429 0.153 -29.001 185.022  
Group Var 2351.699 78.956   
====================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-11) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-11) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-11):

Mixed Linear Model Regression Results  
================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 6 Scale: 2.4590   
Min. group size: 1 Log-Likelihood: -24.6967  
Max. group size: 2 Converged: Yes   
Mean group size: 1.5   
----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
----------------------------------------------------------------  
Intercept 17.853 12.915 1.382 0.167 -7.461 43.167  
Time[T.Pre] -0.149 1.381 -0.108 0.914 -2.855 2.558  
Impact\_Load\_Total\_LR 0.001 0.001 0.811 0.417 -0.001 0.002  
Average\_Intensity\_LR -3.477 4.062 -0.856 0.392 -11.440 4.485  
Group Var 16.461 16.746   
================================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-11) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-11) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-11):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 11 Method: REML   
No. Groups: 6 Scale: 23.0690   
Min. group size: 1 Log-Likelihood: -38.5637  
Max. group size: 2 Converged: Yes   
Mean group size: 1.8   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 50.856 62.536 0.813 0.416 -71.713 173.424  
Time[T.Pre] 4.504 3.050 1.477 0.140 -1.474 10.482  
Impact\_Load\_Total\_LR 0.004 0.003 1.210 0.226 -0.002 0.010  
Average\_Intensity\_LR -23.516 19.848 -1.185 0.236 -62.417 15.385  
Group Var 418.201 99.561   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-11) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-11) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-11):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 1.6533   
Min. group size: 2 Log-Likelihood: -29.3109  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 26.751 8.235 3.248 0.001 10.610 42.892  
Time[T.Pre] -0.007 0.742 -0.009 0.993 -1.462 1.448  
Impact\_Load\_Total\_LR 0.000 0.000 1.018 0.309 -0.000 0.001  
Average\_Intensity\_LR -3.087 2.613 -1.181 0.237 -8.208 2.034  
Group Var 6.644 6.000   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-11) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-11) is not significant.

## Results for SRPE (2023-10-11):

Mixed Linear Model Regression Results  
=====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 6 Method: REML   
No. Groups: 6 Scale: 950.3014  
Min. group size: 1 Log-Likelihood: -26.6389  
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
---------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
---------------------------------------------------------------------  
Intercept 432.119 131.224 3.293 0.001 174.925 689.314  
Impact\_Load\_Total\_LR 0.041 0.007 5.949 0.000 0.027 0.054  
Average\_Intensity\_LR -220.069 41.676 -5.280 0.000 -301.752 -138.386  
Group Var 950.301   
=====================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-11) is significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-11) is significant.

# Processing 2023-10-17:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-17):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 11 Method: REML   
No. Groups: 6 Scale: 0.0002   
Min. group size: 1 Log-Likelihood: -1.3813  
Max. group size: 2 Converged: Yes   
Mean group size: 1.8   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.578 0.465 1.244 0.214 -0.333 1.490  
Time[T.Pre] 0.052 0.009 5.700 0.000 0.034 0.070  
Impact\_Load\_Total\_LR -0.000 0.000 -0.371 0.710 -0.000 0.000  
Average\_Intensity\_LR 0.014 0.105 0.134 0.894 -0.193 0.221  
Group Var 0.019 1.393   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-17) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-17) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-17):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 505.5355  
Min. group size: 2 Log-Likelihood: -52.6326  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 428.744 129.910 3.300 0.001 174.126 683.362  
Time[T.Pre] -21.333 12.981 -1.643 0.100 -46.776 4.109  
Impact\_Load\_Total\_LR -0.004 0.002 -1.644 0.100 -0.008 0.001  
Average\_Intensity\_LR 42.877 29.410 1.458 0.145 -14.764 100.519  
Group Var 1201.243 66.789   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-17) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-17) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-17):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 0.1114   
Min. group size: 2 Log-Likelihood: -24.1296  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 13.533 10.825 1.250 0.211 -7.683 34.750  
Time[T.Pre] 0.933 0.193 4.845 0.000 0.556 1.311  
Impact\_Load\_Total\_LR -0.000 0.000 -0.976 0.329 -0.001 0.000  
Average\_Intensity\_LR 1.641 2.454 0.669 0.504 -3.168 6.450  
Group Var 10.065 31.315   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-17) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-17) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-17):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 38.5334   
Min. group size: 2 Log-Likelihood: -43.9131  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 67.023 60.617 1.106 0.269 -51.785 185.831  
Time[T.Pre] 16.333 3.584 4.557 0.000 9.309 23.358  
Impact\_Load\_Total\_LR 0.001 0.001 1.050 0.294 -0.001 0.003  
Average\_Intensity\_LR -11.466 13.734 -0.835 0.404 -38.384 15.452  
Group Var 297.826 52.757   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-17) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-17) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-17):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 12 Method: REML   
No. Groups: 6 Scale: 0.2419   
Min. group size: 2 Log-Likelihood: -25.3587  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 24.431 8.542 2.860 0.004 7.688 41.174  
Time[T.Pre] 2.175 0.284 7.659 0.000 1.618 2.732  
Impact\_Load\_Total\_LR 0.000 0.000 0.492 0.623 -0.000 0.000  
Average\_Intensity\_LR -1.053 1.936 -0.544 0.586 -4.848 2.742  
Group Var 6.180 13.231   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-17) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-17) is not significant.

## Results for SRPE (2023-10-17):

Mixed Linear Model Regression Results  
======================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 6 Method: REML   
No. Groups: 6 Scale: 15012.7797  
Min. group size: 1 Log-Likelihood: -31.8867   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
----------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
----------------------------------------------------------------------  
Intercept 1044.566 252.577 4.136 0.000 549.525 1539.608  
Impact\_Load\_Total\_LR 0.013 0.007 1.975 0.048 0.000 0.026  
Average\_Intensity\_LR -151.557 56.461 -2.684 0.007 -262.219 -40.896  
Group Var 15012.780   
======================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-17) is significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-17) is significant.

# Processing 2023-10-24:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-24):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 16 Method: REML   
No. Groups: 8 Scale: 0.0046   
Min. group size: 2 Log-Likelihood: -4.2807  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.547 0.278 1.970 0.049 0.003 1.091  
Time[T.Pre] 0.050 0.034 1.468 0.142 -0.017 0.117  
Impact\_Load\_Total\_LR -0.000 0.000 -0.433 0.665 -0.000 0.000  
Average\_Intensity\_LR 0.008 0.043 0.198 0.843 -0.075 0.092  
Group Var 0.012 0.177   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-24) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-24) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-24):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 16 Method: REML   
No. Groups: 8 Scale: 1951.5348  
Min. group size: 2 Log-Likelihood: -80.4039   
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 488.656 131.720 3.710 0.000 230.490 746.822  
Time[T.Pre] -19.125 22.088 -0.866 0.387 -62.417 24.167  
Impact\_Load\_Total\_LR 0.000 0.002 0.179 0.858 -0.003 0.004  
Average\_Intensity\_LR 0.615 20.234 0.030 0.976 -39.044 40.274  
Group Var 2285.482 61.130   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-24) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-24) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-24):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 16 Method: REML   
No. Groups: 8 Scale: 2.2926   
Min. group size: 2 Log-Likelihood: -42.0528  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 15.915 6.897 2.307 0.021 2.397 29.433  
Time[T.Pre] 1.275 0.757 1.684 0.092 -0.209 2.759  
Impact\_Load\_Total\_LR -0.000 0.000 -0.081 0.935 -0.000 0.000  
Average\_Intensity\_LR 0.011 1.062 0.010 0.992 -2.070 2.092  
Group Var 7.832 4.910   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-24) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-24) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-24):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 15 Method: REML   
No. Groups: 8 Scale: 146.1573  
Min. group size: 1 Log-Likelihood: -61.6101  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 56.113 44.393 1.264 0.206 -30.897 143.122  
Time[T.Pre] 15.387 6.556 2.347 0.019 2.538 28.236  
Impact\_Load\_Total\_LR -0.000 0.001 -0.019 0.985 -0.001 0.001  
Average\_Intensity\_LR 0.122 6.758 0.018 0.986 -13.124 13.368  
Group Var 290.529 30.528   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-24) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-24) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-24):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 16 Method: REML   
No. Groups: 8 Scale: 2.3573   
Min. group size: 2 Log-Likelihood: -41.9770  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 22.839 6.663 3.428 0.001 9.779 35.899  
Time[T.Pre] 2.147 0.768 2.797 0.005 0.643 3.652  
Impact\_Load\_Total\_LR -0.000 0.000 -0.214 0.831 -0.000 0.000  
Average\_Intensity\_LR 0.003 1.026 0.003 0.997 -2.007 2.013  
Group Var 7.198 4.518   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-24) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-24) is not significant.

## Results for SRPE (2023-10-24):

Mixed Linear Model Regression Results  
============================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 8 Method: REML   
No. Groups: 8 Scale: 9583.7557  
Min. group size: 1 Log-Likelihood: -44.9161   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
----------------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
----------------------------------------------------------------------------  
Intercept 769.527 318.207 2.418 0.016 145.853 1393.201  
Impact\_Load\_Total\_LR 0.013 0.004 2.971 0.003 0.004 0.021  
Average\_Intensity\_LR -102.588 49.055 -2.091 0.037 -198.733 -6.442  
Group Var 9583.756 13139467026.012   
============================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-24) is significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-24) is significant.

# Processing 2023-10-25:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-25):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 0.0037   
Min. group size: 2 Log-Likelihood: -4.8404  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.538 0.155 3.475 0.001 0.235 0.842  
Time[T.Pre] 0.043 0.032 1.319 0.187 -0.021 0.107  
Impact\_Load\_Total\_LR -0.000 0.000 -0.829 0.407 -0.000 0.000  
Average\_Intensity\_LR 0.015 0.022 0.705 0.481 -0.027 0.058  
Group Var 0.008 0.146   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-25) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-25) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-25):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 2180.0741  
Min. group size: 2 Log-Likelihood: -71.3371   
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 506.610 120.644 4.199 0.000 270.152 743.067  
Time[T.Pre] -21.143 24.958 -0.847 0.397 -70.059 27.773  
Impact\_Load\_Total\_LR 0.001 0.002 0.727 0.467 -0.002 0.005  
Average\_Intensity\_LR -10.054 17.007 -0.591 0.554 -43.388 23.279  
Group Var 4800.135 115.160   
===================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-25) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-25) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-25):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 1.1814   
Min. group size: 2 Log-Likelihood: -33.8299  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 14.037 2.875 4.882 0.000 8.402 19.672  
Time[T.Pre] 1.057 0.581 1.820 0.069 -0.082 2.196  
Impact\_Load\_Total\_LR -0.000 0.000 -0.479 0.632 -0.000 0.000  
Average\_Intensity\_LR 0.312 0.405 0.769 0.442 -0.483 1.106  
Group Var 2.756 2.811   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-25) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-25) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-25):

Mixed Linear Model Regression Results  
=================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 212.7869  
Min. group size: 2 Log-Likelihood: -59.9641  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
-----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-----------------------------------------------------------------  
Intercept 80.267 40.207 1.996 0.046 1.463 159.071  
Time[T.Pre] 10.286 7.797 1.319 0.187 -4.997 25.568  
Impact\_Load\_Total\_LR -0.000 0.001 -0.677 0.498 -0.002 0.001  
Average\_Intensity\_LR 1.924 5.672 0.339 0.734 -9.192 13.041  
Group Var 548.684 40.995   
=================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-25) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-25) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-25):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 14 Method: REML   
No. Groups: 7 Scale: 3.8796   
Min. group size: 2 Log-Likelihood: -38.5609  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 23.373 3.863 6.051 0.000 15.803 30.944  
Time[T.Pre] 1.216 1.053 1.155 0.248 -0.848 3.279  
Impact\_Load\_Total\_LR -0.000 0.000 -0.942 0.346 -0.000 0.000  
Average\_Intensity\_LR 0.305 0.542 0.563 0.574 -0.758 1.368  
Group Var 4.050 2.776   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-25) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-25) is not significant.

## Results for SRPE (2023-10-25):

Mixed Linear Model Regression Results  
======================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 7 Method: REML   
No. Groups: 7 Scale: 24886.8295  
Min. group size: 1 Log-Likelihood: -40.9781   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
----------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
----------------------------------------------------------------------  
Intercept 706.238 348.823 2.025 0.043 22.559 1389.918  
Impact\_Load\_Total\_LR 0.007 0.006 1.203 0.229 -0.004 0.018  
Average\_Intensity\_LR -52.176 49.438 -1.055 0.291 -149.073 44.722  
Group Var 24886.829   
======================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-25) is not significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-25) is not significant.

# Processing 2023-09-20:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-09-20):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 0.0017  
Min. group size: 2 Log-Likelihood: 0.6626  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.664 0.227 2.930 0.003 0.220 1.108  
Time[T.Pre] 0.057 0.020 2.884 0.004 0.018 0.095  
Impact\_Load\_Total\_LR -0.000 0.000 -0.096 0.923 -0.000 0.000  
Average\_Intensity\_LR -0.013 0.023 -0.556 0.578 -0.057 0.032  
Group Var 0.013 0.262   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-20) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-09-20) is not significant.

## Results for Eccentric\_Duration\_ms (2023-09-20):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 829.1402  
Min. group size: 2 Log-Likelihood: -89.4798  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept 308.658 124.276 2.484 0.013 65.081 552.235  
Time[T.Pre] 0.556 13.574 0.041 0.967 -26.049 27.160  
Impact\_Load\_Total\_LR 0.000 0.002 0.260 0.795 -0.003 0.004  
Average\_Intensity\_LR 12.236 12.504 0.979 0.328 -12.272 36.743  
Group Var 3890.913 114.200   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-09-20) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-09-20) is not significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-20):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 0.9188   
Min. group size: 2 Log-Likelihood: -42.0418  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 13.503 4.275 3.159 0.002 5.124 21.883  
Time[T.Pre] 1.833 0.452 4.057 0.000 0.948 2.719  
Impact\_Load\_Total\_LR 0.000 0.000 0.413 0.680 -0.000 0.000  
Average\_Intensity\_LR -0.151 0.430 -0.350 0.726 -0.994 0.693  
Group Var 4.637 4.061   
===============================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-20) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-09-20) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-20):

Mixed Linear Model Regression Results  
=================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 17 Method: REML   
No. Groups: 9 Scale: 91.3493   
Min. group size: 1 Log-Likelihood: -70.1014  
Max. group size: 2 Converged: Yes   
Mean group size: 1.9   
-----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-----------------------------------------------------------------  
Intercept 118.840 42.390 2.803 0.005 35.756 201.923  
Time[T.Pre] 10.789 4.798 2.249 0.025 1.386 20.192  
Impact\_Load\_Total\_LR -0.000 0.001 -0.846 0.397 -0.002 0.001  
Average\_Intensity\_LR -0.989 4.230 -0.234 0.815 -9.280 7.302  
Group Var 445.341 43.099   
=================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-20) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-09-20) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-20):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 18 Method: REML   
No. Groups: 9 Scale: 1.6877   
Min. group size: 2 Log-Likelihood: -46.0997  
Max. group size: 2 Converged: Yes   
Mean group size: 2.0   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 26.648 5.606 4.753 0.000 15.660 37.635  
Time[T.Pre] 1.998 0.612 3.262 0.001 0.797 3.198  
Impact\_Load\_Total\_LR -0.000 0.000 -0.675 0.499 -0.000 0.000  
Average\_Intensity\_LR -0.082 0.564 -0.145 0.885 -1.187 1.024  
Group Var 7.917 5.151   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-20) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-09-20) is not significant.

## Results for SRPE (2023-09-20):

Mixed Linear Model Regression Results  
===================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 9 Scale: 9415.3324  
Min. group size: 1 Log-Likelihood: -51.8023   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
-------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
-------------------------------------------------------------------  
Intercept 675.712 130.049 5.196 0.000 420.821 930.603  
Impact\_Load\_Total\_LR 0.006 0.003 1.802 0.072 -0.000 0.012  
Average\_Intensity\_LR -39.079 25.328 -1.543 0.123 -88.720 10.562  
Group Var 9415.332   
===================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-09-20) is not significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-09-20) is not significant.

# Processing 2023-10-18:

## Results for RSI\_modified\_Imp\_Mom\_m\_s (2023-10-18):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 4 Scale: 0.0013   
Min. group size: 2 Log-Likelihood: -3.8318  
Max. group size: 3 Converged: Yes   
Mean group size: 2.2   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 0.241 0.614 0.392 0.695 -0.963 1.445  
Time[T.Pre] -0.014 0.024 -0.573 0.567 -0.061 0.034  
Impact\_Load\_Total\_LR -0.000 0.000 -0.043 0.965 -0.000 0.000  
Average\_Intensity\_LR 0.028 0.263 0.107 0.915 -0.487 0.544  
Group Var 0.015 0.699   
===============================================================

-> The effect of Impact Load Total (L+R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-18) is not significant.

-> The effect of Average Intensity (L and R) on RSI\_modified\_Imp\_Mom\_m\_s (2023-10-18) is not significant.

## Results for Eccentric\_Duration\_ms (2023-10-18):

Mixed Linear Model Regression Results  
====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 4 Scale: 624.9005  
Min. group size: 2 Log-Likelihood: -35.0938  
Max. group size: 3 Converged: Yes   
Mean group size: 2.2   
--------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
--------------------------------------------------------------------  
Intercept 983.123 94.538 10.399 0.000 797.833 1168.414  
Time[T.Pre] -6.086 16.983 -0.358 0.720 -39.372 27.200  
Impact\_Load\_Total\_LR 0.007 0.004 1.599 0.110 -0.002 0.015  
Average\_Intensity\_LR -92.126 40.362 -2.282 0.022 -171.234 -13.017  
Group Var 72.048 24.316   
====================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Duration\_ms (2023-10-18) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Duration\_ms (2023-10-18) is significant.

## Results for Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-18):

Mixed Linear Model Regression Results  
================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 4 Scale: 1.8810   
Min. group size: 2 Log-Likelihood: -21.9212  
Max. group size: 3 Converged: Yes   
Mean group size: 2.2   
----------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
----------------------------------------------------------------  
Intercept 19.317 20.138 0.959 0.337 -20.153 58.787  
Time[T.Pre] -0.378 0.932 -0.406 0.685 -2.204 1.448  
Impact\_Load\_Total\_LR 0.000 0.001 0.335 0.738 -0.002 0.002  
Average\_Intensity\_LR -3.007 8.620 -0.349 0.727 -19.903 13.888  
Group Var 15.998 19.524   
================================================================

-> The effect of Impact Load Total (L+R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-18) is not significant.

-> The effect of Average Intensity (L and R) on Jump\_Height\_Imp\_Mom\_in\_Inches\_in (2023-10-18) is not significant.

## Results for Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-18):

Mixed Linear Model Regression Results  
==================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 4 Scale: 103.9038  
Min. group size: 2 Log-Likelihood: -30.9745  
Max. group size: 3 Converged: Yes   
Mean group size: 2.2   
------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
------------------------------------------------------------------  
Intercept -56.778 56.046 -1.013 0.311 -166.627 53.070  
Time[T.Pre] 6.135 6.925 0.886 0.376 -7.438 19.707  
Impact\_Load\_Total\_LR -0.001 0.003 -0.459 0.646 -0.006 0.004  
Average\_Intensity\_LR 18.389 23.964 0.767 0.443 -28.578 65.357  
Group Var 80.963 20.615   
==================================================================

-> The effect of Impact Load Total (L+R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-18) is not significant.

-> The effect of Average Intensity (L and R) on Eccentric\_Braking\_RFD\_BM\_N\_s\_kg (2023-10-18) is not significant.

## Results for Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-18):

Mixed Linear Model Regression Results  
===============================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 9 Method: REML   
No. Groups: 4 Scale: 1.6747   
Min. group size: 2 Log-Likelihood: -20.8566  
Max. group size: 3 Converged: Yes   
Mean group size: 2.2   
---------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]  
---------------------------------------------------------------  
Intercept 7.436 8.727 0.852 0.394 -9.669 24.540  
Time[T.Pre] 0.836 0.879 0.951 0.342 -0.887 2.559  
Impact\_Load\_Total\_LR -0.000 0.000 -0.620 0.535 -0.001 0.001  
Average\_Intensity\_LR 3.098 3.733 0.830 0.407 -4.219 10.414  
Group Var 2.369 3.917   
===============================================================

-> The effect of Impact Load Total (L+R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-18) is not significant.

-> The effect of Average Intensity (L and R) on Force\_at\_Zero\_Velocity\_BM\_N\_kg (2023-10-18) is not significant.

## Results for SRPE (2023-10-18):

Mixed Linear Model Regression Results  
=====================================================================  
Model: MixedLM Dependent Variable: Value   
No. Observations: 4 Method: REML   
No. Groups: 4 Scale: 4757.3045  
Min. group size: 1 Log-Likelihood: -16.1716   
Max. group size: 1 Converged: Yes   
Mean group size: 1.0   
---------------------------------------------------------------------  
 Coef. Std.Err. z P>|z| [0.025 0.975]   
---------------------------------------------------------------------  
Intercept 1646.708 477.792 3.446 0.001 710.253 2583.162  
Impact\_Load\_Total\_LR -0.019 0.022 -0.878 0.380 -0.063 0.024  
Average\_Intensity\_LR 77.859 204.557 0.381 0.703 -323.066 478.783  
Group Var 4757.305   
=====================================================================

-> The effect of Impact Load Total (L+R) on SRPE (2023-10-18) is not significant.

-> The effect of Average Intensity (L and R) on SRPE (2023-10-18) is not significant.