**T-Test**

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| **Notes** |  |  |
| Output Created |  | 15-MAY-2024 11:18:51 |
| Comments |  |  |
| Input | Data | C:\Users\dorot\Desktop\MasterStudy\Statistics\DataAnalysis.sav |
| Active Dataset | DataSet2 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 17 |
| Missing Value Handling | Definition of Missing | User defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis. |
| Syntax |  | T-TEST GROUPS=Cluster(0 1) /MISSING=ANALYSIS /VARIABLES=Mean\_Jerk\_V Peaks Grasping\_E Trainings Experience Height Age /ES DISPLAY(TRUE) /CRITERIA=CI(.95). |
| Resources | Processor Time | 00:00:00,03 |
| Elapsed Time | 00:00:00,03 |

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| **Group Statistics** |  |  |  |  |  |
|  | Cluster | N | Mean | Std. Deviation | Std. Error Mean |
| Mean\_Jerk\_V | 0 | 8 | 14252421,0118 | 6122702,68968 | 2164702,29553 |
| 1 | 9 | 1772403,5614 | 1694923,80664 | 564974,60221 |
| Peaks | 0 | 8 | 90,63 | 21,071 | 7,450 |
| 1 | 9 | 58,78 | 12,833 | 4,278 |
| Grasping\_E | 0 | 8 | 3,38 | 1,996 | ,706 |
| 1 | 9 | 1,56 | ,882 | ,294 |
| Trainings | 0 | 8 | 2,000 | 1,0000 | ,3536 |
| 1 | 9 | 1,778 | ,6667 | ,2222 |
| Experience | 0 | 8 | 7,563 | 4,9529 | 1,7511 |
| 1 | 9 | 14,111 | 5,9043 | 1,9681 |
| Height | 0 | 8 | 172,50 | 7,071 | 2,500 |
| 1 | 9 | 171,22 | 6,723 | 2,241 |
| Age | 0 | 8 | 24,50 | 1,773 | ,627 |
| 1 | 9 | 28,33 | 4,583 | 1,528 |

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| **Independent Samples Test** |  |  |  |  |  |
|  |  | Levene's Test for Equality of Variances |  | t-test for Equality of Means |  |
|  | F | Sig. | t | df |
|  |
| Mean\_Jerk\_V | Equal variances assumed | 8,043 | ,013 | 5,888 | 15 |
| Equal variances not assumed |  |  | 5,578 | 7,954 |
| Peaks | Equal variances assumed | 2,438 | ,139 | 3,816 | 15 |
| Equal variances not assumed |  |  | 3,707 | 11,302 |
| Grasping\_E | Equal variances assumed | 6,280 | ,024 | 2,484 | 15 |
| Equal variances not assumed |  |  | 2,380 | 9,394 |
| Trainings | Equal variances assumed | ,867 | ,367 | ,545 | 15 |
| Equal variances not assumed |  |  | ,532 | 11,986 |
| Experience | Equal variances assumed | ,037 | ,850 | -2,459 | 15 |
| Equal variances not assumed |  |  | -2,486 | 14,963 |
| Height | Equal variances assumed | ,000 | ,985 | ,382 | 15 |
| Equal variances not assumed |  |  | ,381 | 14,549 |
| Age | Equal variances assumed | 6,700 | ,021 | -2,217 | 15 |
| Equal variances not assumed |  |  | -2,322 | 10,578 |

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| **Independent Samples Test** |  |  |  |  |
|  |  | t-test for Equality of Means |  |  |
|  | Significance |  | Mean Difference |
|  | One-Sided p | Two-Sided p |
| Mean\_Jerk\_V | Equal variances assumed | <,001 | <,001 | 12480017,45036 |
| Equal variances not assumed | <,001 | <,001 | 12480017,45036 |
| Peaks | Equal variances assumed | <,001 | ,002 | 31,847 |
| Equal variances not assumed | ,002 | ,003 | 31,847 |
| Grasping\_E | Equal variances assumed | ,013 | ,025 | 1,819 |
| Equal variances not assumed | ,020 | ,040 | 1,819 |
| Trainings | Equal variances assumed | ,297 | ,594 | ,2222 |
| Equal variances not assumed | ,302 | ,604 | ,2222 |
| Experience | Equal variances assumed | ,013 | ,027 | -6,5486 |
| Equal variances not assumed | ,013 | ,025 | -6,5486 |
| Height | Equal variances assumed | ,354 | ,708 | 1,278 |
| Equal variances not assumed | ,355 | ,709 | 1,278 |
| Age | Equal variances assumed | ,021 | ,043 | -3,833 |
| Equal variances not assumed | ,021 | ,041 | -3,833 |

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| **Independent Samples Test** |  |  |  |  |
|  |  | t-test for Equality of Means |  |  |
|  | Std. Error Difference | 95% Confidence Interval of the Difference |  |
|  | Lower | Upper |
| Mean\_Jerk\_V | Equal variances assumed | 2119509,76414 | 7962389,32677 | 16997645,57395 |
| Equal variances not assumed | 2237215,30690 | 7315773,36839 | 17644261,53234 |
| Peaks | Equal variances assumed | 8,346 | 14,058 | 49,637 |
| Equal variances not assumed | 8,591 | 13,001 | 50,693 |
| Grasping\_E | Equal variances assumed | ,733 | ,258 | 3,381 |
| Equal variances not assumed | ,764 | ,101 | 3,537 |
| Trainings | Equal variances assumed | ,4076 | -,6466 | 1,0910 |
| Equal variances not assumed | ,4176 | -,6877 | 1,1322 |
| Experience | Equal variances assumed | 2,6632 | -12,2252 | -,8720 |
| Equal variances not assumed | 2,6344 | -12,1648 | -,9324 |
| Height | Equal variances assumed | 3,347 | -5,856 | 8,411 |
| Equal variances not assumed | 3,357 | -5,898 | 8,453 |
| Age | Equal variances assumed | 1,729 | -7,519 | -,147 |
| Equal variances not assumed | 1,651 | -7,485 | -,181 |

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| **Independent Samples Effect Sizes** |  |  |  |  |  |
|  |  | Standardizera | Point Estimate | 95% Confidence Interval |  |
|  | Lower | Upper |
| Mean\_Jerk\_V | Cohen's d | 4361915,10895 | 2,861 | 1,448 | 4,230 |
| Hedges' correction | 4596291,08139 | 2,715 | 1,374 | 4,014 |
| Glass's delta | 1694923,80664 | 7,363 | 3,699 | 11,014 |
| Peaks | Cohen's d | 17,176 | 1,854 | ,676 | 2,991 |
| Hedges' correction | 18,099 | 1,760 | ,641 | 2,838 |
| Glass's delta | 12,833 | 2,482 | ,927 | 3,980 |
| Grasping\_E | Cohen's d | 1,508 | 1,207 | ,146 | 2,234 |
| Hedges' correction | 1,589 | 1,145 | ,139 | 2,120 |
| Glass's delta | ,882 | 2,063 | ,658 | 3,409 |
| Trainings | Cohen's d | ,8389 | ,265 | -,696 | 1,218 |
| Hedges' correction | ,8839 | ,251 | -,661 | 1,155 |
| Glass's delta | ,6667 | ,333 | -,642 | 1,289 |
| Experience | Cohen's d | 5,4809 | -1,195 | -2,221 | -,136 |
| Hedges' correction | 5,7754 | -1,134 | -2,107 | -,129 |
| Glass's delta | 5,9043 | -1,109 | -2,175 | ,009 |
| Height | Cohen's d | 6,887 | ,186 | -,772 | 1,137 |
| Hedges' correction | 7,258 | ,176 | -,733 | 1,079 |
| Glass's delta | 6,723 | ,190 | -,772 | 1,141 |
| Age | Cohen's d | 3,559 | -1,077 | -2,088 | -,036 |
| Hedges' correction | 3,750 | -1,022 | -1,981 | -,034 |
| Glass's delta | 4,583 | -,837 | -1,849 | ,219 |

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| a. The denominator used in estimating the effect sizes. Cohen's d uses the pooled standard deviation. Hedges' correction uses the pooled standard deviation, plus a correction factor. Glass's delta uses the sample standard deviation of the control (i.e., the second) group. |  |  |  |  |  |