# One-Way ANOVA (Non-parametric)

Kruskal-Wallis

|  | $\chi^2$ | df | p | $\varepsilon^2$ |
|---|---|---|---|---|
| RD | 4.60258 | 3 | 0.20332 | 0.00387 |
| SR | 1.78793 | 3 | 0.61756 | 0.00150 |
| VAR | 39.14885 | 3 | < .00001 | 0.03293 |
| VOL | 41.09880 | 3 | < .00001 | 0.03454 |
| MDD | 25.91188 | 3 | < .00001 | 0.02174 |

# Dwass-Steel-Critchlow-Fligner pairwise comparisons

Pairwise comparisons - RD

|  |  | W | p |
|---|---|---|---|
| A | B | 0.17765 | 0.99929 |
| A | C | -2.44940 | 0.30731 |
| A | D | -1.21582 | 0.82570 |
| B | C | -2.67434 | 0.23208 |
| B | D | -1.26797 | 0.80680 |
| C | D | -0.12117 | 0.99978 |

Pairwise comparisons - SR

|  |  | W | p |
|---|---|---|---|
| A | B | 1.32118 | 0.78671 |
| A | C | -0.39492 | 0.99243 |
| A | D | 0.04187 | 0.99999 |
| B | C | -1.66385 | 0.64188 |
| B | D | -0.51121 | 0.98391 |
| C | D | 0.24387 | 0.99819 |

Pairwise comparisons - VAR

|  |  | W | p |
|---|---|---|---|
| A | B | -7.02095 | < .00001 |
| A | C | -7.68256 | < .00001 |
| A | D | -3.53445 | 0.06012 |
| B | C | -3.21751 | 0.10385 |
| B | D | -1.90070 | 0.53487 |
| C | D | -1.04823 | 0.88064 |

Pairwise comparisons - VOL

|   |   | W | p |
|---|---|---|---|
| A | B | 7.16516 | < .00001 |
| A | C | 8.25701 | < .00001 |
| A | D | 2.89537 | 0.17098 |
| B | C | 3.36645 | 0.08097 |
| B | D | 1.09351 | 0.86659 |
| C | D | 0.13828 | 0.99967 |

Pairwise comparisons - MDD

|   |   | W | p |
|---|---|---|---|
| A | B | -4.87291 | 0.00320 |
| A | C | -6.68705 | 0.00001 |
| A | D | -3.21941 | 0.10368 |
| B | C | -3.39741 | 0.07673 |
| B | D | -1.73417 | 0.61041 |
| C | D | -0.34675 | 0.99483 |