|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table S3.** Adjusted *p*-values for multiple comparisons 1×*N* tests in IV-set case (ADELI is the control algorithm). | | | | | |
| Algorithm | Test | post-hoc procedure | | | |
| Finner | Holm | Hochberg | Holland |
| MABC | Friedman | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 5.853538716E-04 | 2.206631944E-03 | 2.206631944E-03 | 2.204546229E-03 |
| PSO | Friedman | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 2.065644321E-06 | 2.065646290E-06 | 2.065646290E-06 | 2.065644321E-06 |
| ISCA | Friedman | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 1.684705492E-05 | 5.183739435E-05 | 5.183739435E-05 | 5.183618517E-05 |
| NNA | Friedman | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 6.175793552E-06 | 1.567705164E-05 | 1.567705164E-05 | 1.567693993E-05 |
| CWOA | Friedman | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 3.969365208E-06 | 7.328071153E-06 | 7.328071153E-06 | 7.328046540E-06 |
| WW | Friedman | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 3.453042167E-05 | 1.195296527E-04 | 1.195296527E-04 | 1.195233029E-04 |
| IJAYA | Friedman | 3.397916714E-13 | 1.280753281E-12 | 1.280753281E-12 | 1.280753281E-12 |
|  | Friedman Aligned | 5.866540587E-11 | 2.166107294E-10 | 2.166107294E-10 | 2.166107294E-10 |
|  | Quade | 1.883160004E-02 | 6.537673092E-02 | 6.537673092E-02 | 6.368929260E-02 |
| DE | Friedman | 3.970165863E-11 | 1.465907395E-10 | 1.465907395E-10 | 1.465907395E-10 |
|  | Friedman Aligned | <1e-13 | <1e-13 | <1e-13 | <1e-13 |
|  | Quade | 2.728423807E-03 | 1.007947277E-02 | 1.007947277E-02 | 1.003723590E-02 |
| **Table S3** (*continued*) | | | | | |
| Algorithm | Test | post-hoc procedure | | | |
| Finner | Holm | Hochberg | Holland |
| GOTLBO | Friedman | 7.915290644E-10 | 2.739908300E-09 | 2.739908300E-09 | 2.739908297E-09 |
|  | Friedman Aligned | 7.864839644E-11 | 2.722444492E-10 | 2.722444492E-10 | 2.722444492E-10 |
|  | Quade | 4.080031847E-04 | 1.506638814E-03 | 1.506638814E-03 | 1.505646080E-03 |
| NDE | Friedman | 2.438396760E-05 | 7.502780370E-05 | 7.502780370E-05 | 7.502569279E-05 |
|  | Friedman Aligned | 4.297874563E-02 | 1.329099435E-01 | 1.329099435E-01 | 1.264310710E-01 |
|  | Quade | 1.906673909E-01 | 6.007079161E-01 | 6.007079161E-01 | 4.784283632E-01 |
| EBLSHADE | Friedman | 8.355164635E-03 | 2.122293938E-02 | 2.122293938E-02 | 2.107315570E-02 |
|  | Friedman Aligned | 2.362212174E-01 | 6.116727674E-01 | 6.116727674E-01 | 4.954342958E-01 |
|  | Quade | 4.327018623E-01 | 1.000000000E+00 | 8.373118303E-01 | 7.628300835E-01 |
| STLBO | Friedman | 3.897963511E-01 | 7.323284770E-01 | 5.007364702E-01 | 5.982522275E-01 |
|  | Friedman Aligned | 1.000000000E+00 | 1.000000000E+00 | 1.000000000E+00 | 1.000000000E+00 |
|  | Quade | 8.194303414E-01 | 1.000000000E+00 | 8.373118303E-01 | 9.575720649E-01 |
| TLBO | Friedman | 5.007364702E-01 | 7.323284770E-01 | 5.007364702E-01 | 5.982522275E-01 |
|  | Friedman Aligned | 1.000000000E+00 | 1.000000000E+00 | 1.000000000E+00 | 1.000000000E+00 |
|  | Quade | 8.373118303E-01 | 1.000000000E+00 | 8.373118303E-01 | 9.575720649E-01 |