Table S1. One-Second Epoch Size Confusion Matrix Results.

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| **Classifier** | **Feature Name** | **Classes Name** | **Predicted Class** |
| SVM | FFT | Actual Class | Sch | 12634 | 382 |
| Healthy | 403 | 15415 |
| ApEn | Actual Class | Sch | 11311 | 1704 |
| Healthy | 3149 | 10911 |
| ApEn+ Band-pass | Actual Class | Sch | 11311 | 1704 |
| Healthy | 3149 | 10911 |
| Shannon Entropy | Actual Class | Sch | 13903 | 2760 |
| Healthy | 807 | 12207 |
| Log Energy Entropy | Actual Class | Sch | 15750 | 69 |
| Healthy | 55 | 12960 |
| Kurtosis | Actual Class | Sch | 11343 | 4476 |
| Healthy | 3177 | 9838 |
| KNN | FFT | Actual Class | Sch | 12303 | 713 |
| Healthy | 715 | 15103 |
| ApEn | Actual Class | Sch | 11040 | 1975 |
| Healthy | 5219 | 8841 |
| ApEn+ Band-pass | Actual Class | Sch | 11040 | 1975 |
| Healthy | 5219 | 8841 |
| Shannon Entropy | Actual Class | Sch | 15436 | 1227 |
| Healthy | 1009 | 12005 |
| Log Energy Entropy | Actual Class | Sch | 15633 | 186 |
| Healthy | 116 | 12899 |
| Kurtosis | Actual Class | Sch | 12365 | 3454 |
| Healthy | 7036 | 5979 |
| QDA | FFT | Actual Class | Sch | 12312 | 704 |
| Healthy | 1186 | 14632 |
| ApEn | Actual Class | Sch | 12810 | 205 |
| Healthy | 6570 | 7490 |
| ApEn+ Band-pass | Actual Class | Sch | 12810 | 205 |
| Healthy | 6570 | 7490 |
| Shannon Entropy | Actual Class | Sch | 12812 | 3851 |
| Healthy | 1489 | 11525 |
| Log Energy Entropy | Actual Class | Sch | 14988 | 831 |
| Healthy | 55 | 12960 |
| Kurtosis | Actual Class | Sch | 9358 | 6461 |
| Healthy | 2591 | 10424 |
| EC | FFT | Actual Class | Sch | 12635 | 381 |
| Healthy | 493 | 15326 |
| ApEn | Actual Class | Sch | 11428 | 1587 |
| Healthy | 2514 | 13305 |
| ApEn+ Band-pass | Actual Class | Sch | 12258 | 757 |
| Healthy | 4139 | 9921 |
| Shannon Entropy | Actual Class | Sch | 12522 | 493 |
| Healthy | 776 | 15044 |
| Log Energy Entropy | Actual Class | Sch | 15723 | 96 |
| Healthy | 57 | 12958 |
| Kurtosis | Actual Class | Sch | 11208 | 4511 |
| Healthy | 3486 | 9529 |