**Table : Group T-test Comparison ON vs OFF Levodopa States for Each of the 140 Features**

|  |  |  |
| --- | --- | --- |
| **Features** | **Ttest**  **Statstics** | **Ttest Pvaule** |
| delta\_power\_MeanPSD | -12.916706 | 5.04E-37 |
| theta\_tremor\_power\_MeanPSD | -20.774938 | 9.96E-89 |
| alpha\_power\_MeanPSD | -11.634963 | 1.58E-30 |
| lowBeta\_power\_MeanPSD | 15.764305 | 1.65E-53 |
| highBeta\_power\_MeanPSD | 1.29283089 | 0.196186035 |
| beta\_power\_MeanPSD | 7.04298033 | 2.41E-12 |
| lowGamma\_power\_MeanPSD | -7.8737026 | 5.04E-15 |
| Gamma\_power\_MeanPSD | 2.29937312 | 0.021563779 |
| delta\_theta\_tremor\_Ratio\_power\_MeanPSD | -2.5062908 | 0.012261988 |
| delta\_alpha\_Ratio\_power\_MeanPSD | -8.1604507 | 5.17E-16 |
| delta\_lowBeta\_Ratio\_power\_MeanPSD | -11.424962 | 1.60E-29 |
| delta\_highBeta\_Ratio\_power\_MeanPSD | -7.9820155 | 2.15E-15 |
| delta\_beta\_Ratio\_power\_MeanPSD | -8.9162561 | 8.96E-19 |
| delta\_lowGamma\_Ratio\_power\_MeanPSD | -7.2385484 | 5.97E-13 |
| delta\_Gamma\_Ratio\_power\_MeanPSD | -9.1213561 | 1.46E-19 |
| theta\_tremor\_alpha\_Ratio\_power\_MeanPSD | -12.561362 | 3.65E-35 |
| theta\_tremor\_lowBeta\_Ratio\_power\_MeanPSD | -19.957208 | 1.73E-82 |
| theta\_tremor\_highBeta\_Ratio\_power\_MeanPSD | -16.875899 | 1.13E-60 |
| theta\_tremor\_beta\_Ratio\_power\_MeanPSD | -19.117988 | 2.83E-76 |
| theta\_tremor\_lowGamma\_Ratio\_power\_MeanPSD | -14.730286 | 3.31E-47 |
| theta\_tremor\_Gamma\_Ratio\_power\_MeanPSD | -16.034299 | 3.26E-55 |
| alpha\_lowBeta\_Ratio\_power\_MeanPSD | -16.680284 | 2.20E-59 |
| alpha\_highBeta\_Ratio\_power\_MeanPSD | -9.8378747 | 1.92E-22 |
| alpha\_beta\_Ratio\_power\_MeanPSD | -12.370564 | 3.49E-34 |
| alpha\_lowGamma\_Ratio\_power\_MeanPSD | -5.6649377 | 1.63E-08 |
| alpha\_Gamma\_Ratio\_power\_MeanPSD | -8.6291557 | 1.07E-17 |
| lowBeta\_highBeta\_Ratio\_power\_MeanPSD | 9.00731515 | 4.02E-19 |
| lowBeta\_beta\_Ratio\_power\_MeanPSD | 9.79996706 | 2.76E-22 |
| lowBeta\_lowGamma\_Ratio\_power\_MeanPSD | 14.5707327 | 2.89E-46 |
| lowBeta\_Gamma\_Ratio\_power\_MeanPSD | 10.140054 | 1.02E-23 |
| highBeta\_beta\_Ratio\_power\_MeanPSD | -9.7999671 | 2.76E-22 |
| highBeta\_lowGamma\_Ratio\_power\_MeanPSD | 3.67521778 | 0.000242519 |
| highBeta\_Gamma\_Ratio\_power\_MeanPSD | 2.05041457 | 0.040425461 |
| beta\_lowGamma\_Ratio\_power\_MeanPSD | 7.42168791 | 1.56E-13 |
| beta\_Gamma\_Ratio\_power\_MeanPSD | 4.451705 | 8.88E-06 |
| lowGamma\_Gamma\_Ratio\_power\_MeanPSD | -5.0982558 | 3.68E-07 |
| delta\_episods\_durations\_mean | -1.960759 | 0.050019501 |
| delta\_episods\_durations\_std | -0.7479484 | 0.454562559 |
| delta\_episods\_durations\_sum | -1.0749048 | 0.282518475 |
| delta\_episods\_tStart\_cv | 0.13108684 | 0.895723083 |
| delta\_episods\_tEnd\_cv | -0.0181146 | 0.985549701 |
| delta\_episods\_pks\_max\_amp\_mean | -13.954362 | 1.18E-42 |
| delta\_episods\_pks\_max\_amp\_std | -4.4279207 | 9.93E-06 |
| delta\_episods\_pks\_max\_amp\_sum | -9.6544776 | 1.10E-21 |
| delta\_episods\_prob | -1.0749048 | 0.282518475 |
| delta\_episods\_burstsEpsidoes\_number | -0.119926 | 0.9045512 |
| delta\_episods\_AUC\_mean | -10.998229 | 1.59E-27 |
| delta\_episods\_AUC\_std | -4.6939827 | 2.82E-06 |
| delta\_episods\_AUC\_sum | -9.7275204 | 5.49E-22 |
| theta\_tremor\_episods\_durations\_mean | -4.4109093 | 1.07E-05 |
| theta\_tremor\_episods\_durations\_std | -3.2458457 | 0.001186102 |
| theta\_tremor\_episods\_durations\_sum | -2.9144507 | 0.003594016 |
| theta\_tremor\_episods\_tStart\_cv | 1.29771454 | 0.194503005 |
| theta\_tremor\_episods\_tEnd\_cv | 0.72886825 | 0.466149299 |
| theta\_tremor\_episods\_pks\_max\_amp\_mean | -15.080578 | 2.66E-49 |
| theta\_tremor\_episods\_pks\_max\_amp\_std | -10.536385 | 1.93E-25 |
| theta\_tremor\_episods\_pks\_max\_amp\_sum | -12.155899 | 4.27E-33 |
| theta\_tremor\_episods\_prob | -2.9144507 | 0.003594016 |
| theta\_tremor\_episods\_burstsEpsidoes\_number | 0.90465301 | 0.365734236 |
| theta\_tremor\_episods\_AUC\_mean | -13.939402 | 1.26E-42 |
| theta\_tremor\_episods\_AUC\_std | -10.359038 | 1.16E-24 |
| theta\_tremor\_episods\_AUC\_sum | -14.396706 | 3.01E-45 |
| alpha\_episods\_durations\_mean | -4.8456444 | 1.34E-06 |
| alpha\_episods\_durations\_std | -1.5394623 | 0.123814873 |
| alpha\_episods\_durations\_sum | -1.7400001 | 0.081978986 |
| alpha\_episods\_tStart\_cv | -0.8455131 | 0.397903335 |
| alpha\_episods\_tEnd\_cv | -1.541247 | 0.12338008 |
| alpha\_episods\_pks\_max\_amp\_mean | -5.0250074 | 5.38E-07 |
| alpha\_episods\_pks\_max\_amp\_std | -5.2646558 | 1.52E-07 |
| alpha\_episods\_pks\_max\_amp\_sum | -1.5951088 | 0.110811147 |
| alpha\_episods\_prob | -1.7400001 | 0.081978985 |
| alpha\_episods\_burstsEpsidoes\_number | 4.05767931 | 5.10E-05 |
| alpha\_episods\_AUC\_mean | -6.941401 | 4.90E-12 |
| alpha\_episods\_AUC\_std | -4.9483515 | 7.97E-07 |
| alpha\_episods\_AUC\_sum | -5.7036297 | 1.31E-08 |
| lowBeta\_episods\_durations\_mean | 8.85300655 | 1.56E-18 |
| lowBeta\_episods\_durations\_std | 8.51049355 | 2.90E-17 |
| lowBeta\_episods\_durations\_sum | 2.93814929 | 0.003331238 |
| lowBeta\_episods\_tStart\_cv | 1.21000505 | 0.226388498 |
| lowBeta\_episods\_tEnd\_cv | -3.4147846 | 0.00064825 |
| lowBeta\_episods\_pks\_max\_amp\_mean | 9.39998097 | 1.17E-20 |
| lowBeta\_episods\_pks\_max\_amp\_std | 8.42670653 | 5.84E-17 |
| lowBeta\_episods\_pks\_max\_amp\_sum | 6.80034223 | 1.29E-11 |
| lowBeta\_episods\_prob | 2.93814928 | 0.003331238 |
| lowBeta\_episods\_burstsEpsidoes\_number | -5.9470645 | 3.10E-09 |
| lowBeta\_episods\_AUC\_mean | 10.8714404 | 6.05E-27 |
| lowBeta\_episods\_AUC\_std | 11.4498354 | 1.22E-29 |
| lowBeta\_episods\_AUC\_sum | 9.49511048 | 4.85E-21 |
| highBeta\_episods\_durations\_mean | -3.4325097 | 0.000607503 |
| highBeta\_episods\_durations\_std | -2.1511807 | 0.031555101 |
| highBeta\_episods\_durations\_sum | -3.1358731 | 0.001732847 |
| highBeta\_episods\_tStart\_cv | 1.92470051 | 0.054377365 |
| highBeta\_episods\_tEnd\_cv | 1.36637931 | 0.171939753 |
| highBeta\_episods\_pks\_max\_amp\_mean | 3.4530285 | 0.000563317 |
| highBeta\_episods\_pks\_max\_amp\_std | 3.26321694 | 0.001116014 |
| highBeta\_episods\_pks\_max\_amp\_sum | 4.26054103 | 2.11E-05 |
| highBeta\_episods\_prob | -3.1358731 | 0.001732847 |
| highBeta\_episods\_burstsEpsidoes\_number | 2.57255082 | 0.010151005 |
| highBeta\_episods\_AUC\_mean | 1.89959595 | 0.057598276 |
| highBeta\_episods\_AUC\_std | 1.56960946 | 0.116629387 |
| highBeta\_episods\_AUC\_sum | 2.72672157 | 0.006440237 |
| beta\_episods\_durations\_mean | 5.03994694 | 4.98E-07 |
| beta\_episods\_durations\_std | 4.89406908 | 1.05E-06 |
| beta\_episods\_durations\_sum | 5.30398574 | 1.23E-07 |
| beta\_episods\_tStart\_cv | -2.1707258 | 0.030043379 |
| beta\_episods\_tEnd\_cv | -3.164218 | 0.001573217 |
| beta\_episods\_pks\_max\_amp\_mean | 5.41139297 | 6.83E-08 |
| beta\_episods\_pks\_max\_amp\_std | 4.59206454 | 4.60E-06 |
| beta\_episods\_pks\_max\_amp\_sum | 5.01756339 | 5.59E-07 |
| beta\_episods\_prob | 5.30398574 | 1.23E-07 |
| beta\_episods\_burstsEpsidoes\_number | 1.03398853 | 0.301239038 |
| beta\_episods\_AUC\_mean | 5.73491989 | 1.09E-08 |
| beta\_episods\_AUC\_std | 6.25339499 | 4.69E-10 |
| beta\_episods\_AUC\_sum | 5.43013403 | 6.16E-08 |
| lowGamma\_episods\_durations\_mean | 7.98990928 | 2.02E-15 |
| lowGamma\_episods\_durations\_std | 4.9979001 | 6.19E-07 |
| lowGamma\_episods\_durations\_sum | 0.04027976 | 0.967873223 |
| lowGamma\_episods\_tStart\_cv | -1.411132 | 0.158327027 |
| lowGamma\_episods\_tEnd\_cv | -1.9108655 | 0.056133285 |
| lowGamma\_episods\_pks\_max\_amp\_mean | -0.3611803 | 0.71799444 |
| lowGamma\_episods\_pks\_max\_amp\_std | 2.65802303 | 0.007908867 |
| lowGamma\_episods\_pks\_max\_amp\_sum | -3.7437864 | 0.000185253 |
| lowGamma\_episods\_prob | 0.04027977 | 0.967873216 |
| lowGamma\_episods\_burstsEpsidoes\_number | -8.1611396 | 5.14E-16 |
| lowGamma\_episods\_AUC\_mean | 3.20025311 | 0.001389841 |
| lowGamma\_episods\_AUC\_std | 3.06470777 | 0.002201514 |
| lowGamma\_episods\_AUC\_sum | -0.2861962 | 0.774751005 |
| Gamma\_episods\_durations\_mean | 3.12515551 | 0.001796994 |
| Gamma\_episods\_durations\_std | 1.40916915 | 0.158906423 |
| Gamma\_episods\_durations\_sum | 4.22512973 | 2.47E-05 |
| Gamma\_episods\_tStart\_cv | -4.2835803 | 1.91E-05 |
| Gamma\_episods\_tEnd\_cv | -3.5339647 | 0.000416615 |
| Gamma\_episods\_pks\_max\_amp\_mean | 4.38795494 | 1.19E-05 |
| Gamma\_episods\_pks\_max\_amp\_std | 2.4644781 | 0.013786433 |
| Gamma\_episods\_pks\_max\_amp\_sum | 4.66359437 | 3.27E-06 |
| Gamma\_episods\_prob | 4.22512973 | 2.47E-05 |
| Gamma\_episods\_burstsEpsidoes\_number | 1.82711211 | 0.067799103 |
| Gamma\_episods\_AUC\_mean | 4.49906373 | 7.13E-06 |
| Gamma\_episods\_AUC\_std | 3.18700028 | 0.001454858 |
| Gamma\_episods\_AUC\_sum | 5.66275611 | 1.66E-08 |