Names of features used in our analysis

|  |  |
| --- | --- |
| 1 | Year |
| 2 | MDS-UPDRS I |
| 3 | MDS-UPDRS II |
| 4 | MDS-UPDRS III |
| 5 | Hoehn and Yahr’s score |
| 6 | MSEADL |
| 7 | SCOPA-AUT |
| 8 | SCOPA-AUT-Com |
| 9 | SCOPA-AUT |
| 10 | SCOPA-AUT-Com |
| 11 | Total STAIA |
| 12 | STAIA-section 1 |
| 13 | STAIA-section\_w\_instru1 |
| 14 | STAIA-section\_w\_instru2 |
| 15 | STAIA-section 2 |
| 16 | STAIA-section 3 |
| 17 | MoCA |
| 18 | MoCA\_Feluency |
| 19 | Sum of Moca and MoCA feluency |
| 20 | SFT |
| 21 | DVSD\_SDM |
| 22 | DVT\_SFTANIM |
| 23 | SDMTOTAL |
| 24 | DVSD\_SDM |
| 25 | DVT\_SFTANIM |
| 26 | EPWORTH |
| 27 | REMSLEEP |
| 28 | REMSLEEP\_Real |
| 29 | REMSLEEP-section 1 |
| 30 | REMSLEEP-section 2 |
| 31 | Family\_History\_H |
| 32 | Family\_History\_J |
| 33 | Family\_History\_K |
| 34 | Family\_History\_L |
| 35 | Family\_History\_M |
| 36 | Family\_History\_P |
| 37 | Family\_History\_R |
| 38 | Family\_History\_S |
| 39 | Family\_History\_T |
| 40 | Family\_History\_U |
| 41 | Family\_History\_V |
| 42 | Family\_History\_W |
| 43 | Family\_History\_X |
| 44 | GENDER |
| 45 | SC\_DEMOGRA\_SC\_P |
| 46 | SC\_DEMOGRA\_SC\_Q |
| 47 | SC\_DEMOGRA\_SC\_R |
| 48 | SC\_DEMOGRA\_SC\_S |
| 49 | SC\_DEMOGRA\_SC\_U |
| 50 | SC\_DEMOGRA\_SC\_V |
| 51 | SoE\_EDU |
| 52 | SoE\_HANDED |
| 53 | AGE |
| 54 | Conventional\_Brain region caudate\_right |
| 55 | Conventional\_Brain region caudate\_left |
| 56 | Conventional\_Brain region putamen\_right |
| 57 | Conventional\_Brain region putamen\_left |
| 58 | GNE |
| 59 | NECN |
| 60 | VS-G |
| 61 | VS-H |
| 62 | VS-I |
| 63 | VS-J |
| 64 | VS-K |
| 65 | VS-L |
| 66 | VS-M |
| 67 | VS-N |
| 68 | VS-O |
| 69 | VS-P |
| 70 | Gen1 |
| 71 | Gen2 |
| 72 | Gen3 |
| 73 | Gen4 |
| 74 | Gen5 |
| 75 | Gen6 |
| 76 | Gen7 |
| 77 | Gen8 |
| 78 | Gen9 |
| 79 | Gen10 |
| 80 | Gen11 |
| 81 | Gen12 |
| 82 | Gen13 |
| 83 | Gen14 |
| 84 | Gen15 |
| 85 | Gen16 |
| 86 | Gen17 |
| 87 | Gen18 |
| 88 | Gen19 |
| 89 | Gen20 |
| 90 | Gen21 |
| 91 | Gen22 |
| 92 | Gen23 |
| 93 | Gen24 |
| 94 | Gen25 |
| 95 | Gen26 |
| 96 | Gen27 |
| 97 | Gen28 |
| 98 | Gen29 |
| 99 | Gen30 |
| 100 | Gen31 |
| 101 | Gen32 |
| 102 | Gen33 |
| 103 | Gen34 |
| 104 | Gen35 |
| 105 | Gen36 |
| 106 | Gen37 |
| 107 | Gen38 |
| 108 | Gen39 |
| 109 | Gen40 |
| 110 | Gen41 |
| 111 | Gen42 |
| 112 | Gen43 |
| 113 | Gen44 |
| 114 | Gen45 |
| 115 | Gen46 |
| 116 | Gen47 |
| 117 | Gen48 |
| 118 | Gen49 |
| 119 | Gen50 |
| 120 | Gen51 |
| 121 | Gen52 |
| 122 | Gen53 |
| 123 | Gen54 |
| 124 | Gen55 |
| 125 | Gen56 |
| 126 | Gen57 |
| 127 | Gen58 |
| 128 | Gen59 |
| 129 | Gen60 |
| 130 | Gen61 |
| 131 | Gen62 |
| 132 | Gen63 |
| 133 | Gen64 |
| 134 | Gen65 |
| 135 | TD\_S |
| 136 | PIGD\_S |
| 137 | morph\_volume |
| 138 | morph\_volume |
| 139 | morph\_volume |
| 140 | morph\_volume |
| 141 | morph\_vol\_approx |
| 142 | morph\_vol\_approx |
| 143 | morph\_vol\_approx |
| 144 | morph\_vol\_approx |
| 145 | morph\_area\_mesh |
| 146 | morph\_area\_mesh |
| 147 | morph\_area\_mesh |
| 148 | morph\_area\_mesh |
| 149 | morph\_av |
| 150 | morph\_av |
| 151 | morph\_av |
| 152 | morph\_av |
| 153 | morph\_comp\_1 |
| 154 | morph\_comp\_1 |
| 155 | morph\_comp\_1 |
| 156 | morph\_comp\_1 |
| 157 | morph\_comp\_2 |
| 158 | morph\_comp\_2 |
| 159 | morph\_comp\_2 |
| 160 | morph\_comp\_2 |
| 161 | morph\_sph\_dispr |
| 162 | morph\_sph\_dispr |
| 163 | morph\_sph\_dispr |
| 164 | morph\_sph\_dispr |
| 165 | morph\_sphericity |
| 166 | morph\_sphericity |
| 167 | morph\_sphericity |
| 168 | morph\_sphericity |
| 169 | morph\_asphericity |
| 170 | morph\_asphericity |
| 171 | morph\_asphericity |
| 172 | morph\_asphericity |
| 173 | morph\_com |
| 174 | morph\_com |
| 175 | morph\_com |
| 176 | morph\_com |
| 177 | morph\_diam |
| 178 | morph\_diam |
| 179 | morph\_diam |
| 180 | morph\_diam |
| 181 | morph\_pca\_maj\_axis |
| 182 | morph\_pca\_maj\_axis |
| 183 | morph\_pca\_maj\_axis |
| 184 | morph\_pca\_maj\_axis |
| 185 | morph\_pca\_min\_axis |
| 186 | morph\_pca\_min\_axis |
| 187 | morph\_pca\_min\_axis |
| 188 | morph\_pca\_min\_axis |
| 189 | morph\_pca\_least\_axis |
| 190 | morph\_pca\_least\_axis |
| 191 | morph\_pca\_least\_axis |
| 192 | morph\_pca\_least\_axis |
| 193 | morph\_pca\_elongation |
| 194 | morph\_pca\_elongation |
| 195 | morph\_pca\_elongation |
| 196 | morph\_pca\_elongation |
| 197 | morph\_pca\_flatness |
| 198 | morph\_pca\_flatness |
| 199 | morph\_pca\_flatness |
| 200 | morph\_pca\_flatness |
| 201 | morph\_vol\_dens\_aabb |
| 202 | morph\_vol\_dens\_aabb |
| 203 | morph\_vol\_dens\_aabb |
| 204 | morph\_vol\_dens\_aabb |
| 205 | morph\_area\_dens\_aabb |
| 206 | morph\_area\_dens\_aabb |
| 207 | morph\_area\_dens\_aabb |
| 208 | morph\_area\_dens\_aabb |
| 209 | morph\_vol\_dens\_ombb |
| 210 | morph\_vol\_dens\_ombb |
| 211 | morph\_vol\_dens\_ombb |
| 212 | morph\_vol\_dens\_ombb |
| 213 | morph\_area\_dens\_ombb |
| 214 | morph\_area\_dens\_ombb |
| 215 | morph\_area\_dens\_ombb |
| 216 | morph\_area\_dens\_ombb |
| 217 | morph\_vol\_dens\_aee |
| 218 | morph\_vol\_dens\_aee |
| 219 | morph\_vol\_dens\_aee |
| 220 | morph\_vol\_dens\_aee |
| 221 | morph\_area\_dens\_aee |
| 222 | morph\_area\_dens\_aee |
| 223 | morph\_area\_dens\_aee |
| 224 | morph\_area\_dens\_aee |
| 225 | morph\_vol\_dens\_mvee |
| 226 | morph\_vol\_dens\_mvee |
| 227 | morph\_vol\_dens\_mvee |
| 228 | morph\_vol\_dens\_mvee |
| 229 | morph\_area\_dens\_mvee |
| 230 | morph\_area\_dens\_mvee |
| 231 | morph\_area\_dens\_mvee |
| 232 | morph\_area\_dens\_mvee |
| 233 | morph\_vol\_dens\_conv\_hull |
| 234 | morph\_vol\_dens\_conv\_hull |
| 235 | morph\_vol\_dens\_conv\_hull |
| 236 | morph\_vol\_dens\_conv\_hull |
| 237 | morph\_area\_dens\_conv\_hull |
| 238 | morph\_area\_dens\_conv\_hull |
| 239 | morph\_area\_dens\_conv\_hull |
| 240 | morph\_area\_dens\_conv\_hull |
| 241 | morph\_integ\_int |
| 242 | morph\_integ\_int |
| 243 | morph\_integ\_int |
| 244 | morph\_integ\_int |
| 245 | morph\_moran\_i |
| 246 | morph\_moran\_i |
| 247 | morph\_moran\_i |
| 248 | morph\_moran\_i |
| 249 | morph\_geary\_c |
| 250 | morph\_geary\_c |
| 251 | morph\_geary\_c |
| 252 | morph\_geary\_c |
| 253 | loc\_peak\_loc |
| 254 | loc\_peak\_loc |
| 255 | loc\_peak\_loc |
| 256 | loc\_peak\_loc |
| 257 | loc\_peak\_glob |
| 258 | loc\_peak\_glob |
| 259 | loc\_peak\_glob |
| 260 | loc\_peak\_glob |
| 261 | stat\_mean |
| 262 | stat\_mean |
| 263 | stat\_mean |
| 264 | stat\_mean |
| 265 | stat\_var |
| 266 | stat\_var |
| 267 | stat\_var |
| 268 | stat\_var |
| 269 | stat\_skew |
| 270 | stat\_skew |
| 271 | stat\_skew |
| 272 | stat\_skew |
| 273 | stat\_kurt |
| 274 | stat\_kurt |
| 275 | stat\_kurt |
| 276 | stat\_kurt |
| 277 | stat\_median |
| 278 | stat\_median |
| 279 | stat\_median |
| 280 | stat\_median |
| 281 | stat\_min |
| 282 | stat\_min |
| 283 | stat\_min |
| 284 | stat\_min |
| 285 | stat\_p10 |
| 286 | stat\_p10 |
| 287 | stat\_p10 |
| 288 | stat\_p10 |
| 289 | stat\_p90 |
| 290 | stat\_p90 |
| 291 | stat\_p90 |
| 292 | stat\_p90 |
| 293 | stat\_max |
| 294 | stat\_max |
| 295 | stat\_max |
| 296 | stat\_max |
| 297 | stat\_iqr |
| 298 | stat\_iqr |
| 299 | stat\_iqr |
| 300 | stat\_iqr |
| 301 | stat\_range |
| 302 | stat\_range |
| 303 | stat\_range |
| 304 | stat\_range |
| 305 | stat\_mad |
| 306 | stat\_mad |
| 307 | stat\_mad |
| 308 | stat\_mad |
| 309 | stat\_rmad |
| 310 | stat\_rmad |
| 311 | stat\_rmad |
| 312 | stat\_rmad |
| 313 | stat\_medad |
| 314 | stat\_medad |
| 315 | stat\_medad |
| 316 | stat\_medad |
| 317 | stat\_cov |
| 318 | stat\_cov |
| 319 | stat\_cov |
| 320 | stat\_cov |
| 321 | stat\_qcod |
| 322 | stat\_qcod |
| 323 | stat\_qcod |
| 324 | stat\_qcod |
| 325 | stat\_energy |
| 326 | stat\_energy |
| 327 | stat\_energy |
| 328 | stat\_energy |
| 329 | stat\_rms |
| 330 | stat\_rms |
| 331 | stat\_rms |
| 332 | stat\_rms |
| 333 | ih\_mean |
| 334 | ih\_mean |
| 335 | ih\_mean |
| 336 | ih\_mean |
| 337 | ih\_var |
| 338 | ih\_var |
| 339 | ih\_var |
| 340 | ih\_var |
| 341 | ih\_skew |
| 342 | ih\_skew |
| 343 | ih\_skew |
| 344 | ih\_skew |
| 345 | ih\_kurt |
| 346 | ih\_kurt |
| 347 | ih\_kurt |
| 348 | ih\_kurt |
| 349 | ih\_median |
| 350 | ih\_median |
| 351 | ih\_median |
| 352 | ih\_median |
| 353 | ih\_p10 |
| 354 | ih\_p10 |
| 355 | ih\_p10 |
| 356 | ih\_p10 |
| 357 | ih\_p90 |
| 358 | ih\_p90 |
| 359 | ih\_p90 |
| 360 | ih\_p90 |
| 361 | ih\_mode |
| 362 | ih\_mode |
| 363 | ih\_mode |
| 364 | ih\_mode |
| 365 | ih\_iqr |
| 366 | ih\_iqr |
| 367 | ih\_iqr |
| 368 | ih\_iqr |
| 369 | ih\_mad |
| 370 | ih\_mad |
| 371 | ih\_mad |
| 372 | ih\_mad |
| 373 | ih\_rmad |
| 374 | ih\_rmad |
| 375 | ih\_rmad |
| 376 | ih\_rmad |
| 377 | ih\_medad |
| 378 | ih\_medad |
| 379 | ih\_medad |
| 380 | ih\_medad |
| 381 | ih\_cov |
| 382 | ih\_cov |
| 383 | ih\_cov |
| 384 | ih\_cov |
| 385 | ih\_qcod |
| 386 | ih\_qcod |
| 387 | ih\_qcod |
| 388 | ih\_qcod |
| 389 | ih\_entropy |
| 390 | ih\_entropy |
| 391 | ih\_entropy |
| 392 | ih\_entropy |
| 393 | ih\_uniformity |
| 394 | ih\_uniformity |
| 395 | ih\_uniformity |
| 396 | ih\_uniformity |
| 397 | ih\_max\_grad |
| 398 | ih\_max\_grad |
| 399 | ih\_max\_grad |
| 400 | ih\_max\_grad |
| 401 | ih\_max\_grad\_g |
| 402 | ih\_max\_grad\_g |
| 403 | ih\_max\_grad\_g |
| 404 | ih\_max\_grad\_g |
| 405 | ih\_min\_grad |
| 406 | ih\_min\_grad |
| 407 | ih\_min\_grad |
| 408 | ih\_min\_grad |
| 409 | ih\_min\_grad\_g |
| 410 | ih\_min\_grad\_g |
| 411 | ih\_min\_grad\_g |
| 412 | ih\_min\_grad\_g |
| 413 | ivh\_v10 |
| 414 | ivh\_v10 |
| 415 | ivh\_v10 |
| 416 | ivh\_v10 |
| 417 | ivh\_v90 |
| 418 | ivh\_v90 |
| 419 | ivh\_v90 |
| 420 | ivh\_v90 |
| 421 | ivh\_i10 |
| 422 | ivh\_i10 |
| 423 | ivh\_i10 |
| 424 | ivh\_i10 |
| 425 | ivh\_i90 |
| 426 | ivh\_i90 |
| 427 | ivh\_i90 |
| 428 | ivh\_i90 |
| 429 | ivh\_diff\_v10\_v90 |
| 430 | ivh\_diff\_v10\_v90 |
| 431 | ivh\_diff\_v10\_v90 |
| 432 | ivh\_diff\_v10\_v90 |
| 433 | ivh\_diff\_i10\_i90 |
| 434 | ivh\_diff\_i10\_i90 |
| 435 | ivh\_diff\_i10\_i90 |
| 436 | ivh\_diff\_i10\_i90 |
| 437 | ivh\_auc |
| 438 | ivh\_auc |
| 439 | ivh\_auc |
| 440 | ivh\_auc |
| 441 | cm\_joint\_max\_3D\_avg |
| 442 | cm\_joint\_max\_3D\_avg |
| 443 | cm\_joint\_max\_3D\_avg |
| 444 | cm\_joint\_max\_3D\_avg |
| 445 | cm\_joint\_avg\_3D\_avg |
| 446 | cm\_joint\_avg\_3D\_avg |
| 447 | cm\_joint\_avg\_3D\_avg |
| 448 | cm\_joint\_avg\_3D\_avg |
| 449 | cm\_joint\_var\_3D\_avg |
| 450 | cm\_joint\_var\_3D\_avg |
| 451 | cm\_joint\_var\_3D\_avg |
| 452 | cm\_joint\_var\_3D\_avg |
| 453 | cm\_joint\_entr\_3D\_avg |
| 454 | cm\_joint\_entr\_3D\_avg |
| 455 | cm\_joint\_entr\_3D\_avg |
| 456 | cm\_joint\_entr\_3D\_avg |
| 457 | cm\_diff\_avg\_3D\_avg |
| 458 | cm\_diff\_avg\_3D\_avg |
| 459 | cm\_diff\_avg\_3D\_avg |
| 460 | cm\_diff\_avg\_3D\_avg |
| 461 | cm\_diff\_var\_3D\_avg |
| 462 | cm\_diff\_var\_3D\_avg |
| 463 | cm\_diff\_var\_3D\_avg |
| 464 | cm\_diff\_var\_3D\_avg |
| 465 | cm\_diff\_entr\_3D\_avg |
| 466 | cm\_diff\_entr\_3D\_avg |
| 467 | cm\_diff\_entr\_3D\_avg |
| 468 | cm\_diff\_entr\_3D\_avg |
| 469 | cm\_sum\_avg\_3D\_avg |
| 470 | cm\_sum\_avg\_3D\_avg |
| 471 | cm\_sum\_avg\_3D\_avg |
| 472 | cm\_sum\_avg\_3D\_avg |
| 473 | cm\_sum\_var\_3D\_avg |
| 474 | cm\_sum\_var\_3D\_avg |
| 475 | cm\_sum\_var\_3D\_avg |
| 476 | cm\_sum\_var\_3D\_avg |
| 477 | cm\_sum\_entr\_3D\_avg |
| 478 | cm\_sum\_entr\_3D\_avg |
| 479 | cm\_sum\_entr\_3D\_avg |
| 480 | cm\_sum\_entr\_3D\_avg |
| 481 | cm\_energy\_3D\_avg |
| 482 | cm\_energy\_3D\_avg |
| 483 | cm\_energy\_3D\_avg |
| 484 | cm\_energy\_3D\_avg |
| 485 | cm\_contrast\_3D\_avg |
| 486 | cm\_contrast\_3D\_avg |
| 487 | cm\_contrast\_3D\_avg |
| 488 | cm\_contrast\_3D\_avg |
| 489 | cm\_dissimilarity\_3D\_avg |
| 490 | cm\_dissimilarity\_3D\_avg |
| 491 | cm\_dissimilarity\_3D\_avg |
| 492 | cm\_dissimilarity\_3D\_avg |
| 493 | cm\_inv\_diff\_3D\_avg |
| 494 | cm\_inv\_diff\_3D\_avg |
| 495 | cm\_inv\_diff\_3D\_avg |
| 496 | cm\_inv\_diff\_3D\_avg |
| 497 | cm\_inv\_diff\_norm\_3D\_avg |
| 498 | cm\_inv\_diff\_norm\_3D\_avg |
| 499 | cm\_inv\_diff\_norm\_3D\_avg |
| 500 | cm\_inv\_diff\_norm\_3D\_avg |
| 501 | cm\_inv\_diff\_mom\_3D\_avg |
| 502 | cm\_inv\_diff\_mom\_3D\_avg |
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| 504 | cm\_inv\_diff\_mom\_3D\_avg |
| 505 | cm\_inv\_diff\_mom\_norm\_3D\_avg |
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| 508 | cm\_inv\_diff\_mom\_norm\_3D\_avg |
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| 512 | cm\_inv\_var\_3D\_avg |
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| 516 | cm\_corr\_3D\_avg |
| 517 | cm\_auto\_corr\_3D\_avg |
| 518 | cm\_auto\_corr\_3D\_avg |
| 519 | cm\_auto\_corr\_3D\_avg |
| 520 | cm\_auto\_corr\_3D\_avg |
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| 522 | cm\_clust\_tend\_3D\_avg |
| 523 | cm\_clust\_tend\_3D\_avg |
| 524 | cm\_clust\_tend\_3D\_avg |
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| 526 | cm\_clust\_shade\_3D\_avg |
| 527 | cm\_clust\_shade\_3D\_avg |
| 528 | cm\_clust\_shade\_3D\_avg |
| 529 | cm\_clust\_prom\_3D\_avg |
| 530 | cm\_clust\_prom\_3D\_avg |
| 531 | cm\_clust\_prom\_3D\_avg |
| 532 | cm\_clust\_prom\_3D\_avg |
| 533 | cm\_info\_corr1\_3D\_avg |
| 534 | cm\_info\_corr1\_3D\_avg |
| 535 | cm\_info\_corr1\_3D\_avg |
| 536 | cm\_info\_corr1\_3D\_avg |
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| 538 | cm\_info\_corr2\_3D\_avg |
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| 540 | cm\_info\_corr2\_3D\_avg |
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| 542 | cm\_joint\_max\_3D\_comb |
| 543 | cm\_joint\_max\_3D\_comb |
| 544 | cm\_joint\_max\_3D\_comb |
| 545 | cm\_joint\_avg\_3D\_comb |
| 546 | cm\_joint\_avg\_3D\_comb |
| 547 | cm\_joint\_avg\_3D\_comb |
| 548 | cm\_joint\_avg\_3D\_comb |
| 549 | cm\_joint\_var\_3D\_comb |
| 550 | cm\_joint\_var\_3D\_comb |
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| 552 | cm\_joint\_var\_3D\_comb |
| 553 | cm\_joint\_entr\_3D\_comb |
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| 555 | cm\_joint\_entr\_3D\_comb |
| 556 | cm\_joint\_entr\_3D\_comb |
| 557 | cm\_diff\_avg\_3D\_comb |
| 558 | cm\_diff\_avg\_3D\_comb |
| 559 | cm\_diff\_avg\_3D\_comb |
| 560 | cm\_diff\_avg\_3D\_comb |
| 561 | cm\_diff\_var\_3D\_comb |
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| 563 | cm\_diff\_var\_3D\_comb |
| 564 | cm\_diff\_var\_3D\_comb |
| 565 | cm\_diff\_entr\_3D\_comb |
| 566 | cm\_diff\_entr\_3D\_comb |
| 567 | cm\_diff\_entr\_3D\_comb |
| 568 | cm\_diff\_entr\_3D\_comb |
| 569 | cm\_sum\_avg\_3D\_comb |
| 570 | cm\_sum\_avg\_3D\_comb |
| 571 | cm\_sum\_avg\_3D\_comb |
| 572 | cm\_sum\_avg\_3D\_comb |
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| 574 | cm\_sum\_var\_3D\_comb |
| 575 | cm\_sum\_var\_3D\_comb |
| 576 | cm\_sum\_var\_3D\_comb |
| 577 | cm\_sum\_entr\_3D\_comb |
| 578 | cm\_sum\_entr\_3D\_comb |
| 579 | cm\_sum\_entr\_3D\_comb |
| 580 | cm\_sum\_entr\_3D\_comb |
| 581 | cm\_energy\_3D\_comb |
| 582 | cm\_energy\_3D\_comb |
| 583 | cm\_energy\_3D\_comb |
| 584 | cm\_energy\_3D\_comb |
| 585 | cm\_contrast\_3D\_comb |
| 586 | cm\_contrast\_3D\_comb |
| 587 | cm\_contrast\_3D\_comb |
| 588 | cm\_contrast\_3D\_comb |
| 589 | cm\_dissimilarity\_3D\_comb |
| 590 | cm\_dissimilarity\_3D\_comb |
| 591 | cm\_dissimilarity\_3D\_comb |
| 592 | cm\_dissimilarity\_3D\_comb |
| 593 | cm\_inv\_diff\_3D\_comb |
| 594 | cm\_inv\_diff\_3D\_comb |
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| 596 | cm\_inv\_diff\_3D\_comb |
| 597 | cm\_inv\_diff\_norm\_3D\_comb |
| 598 | cm\_inv\_diff\_norm\_3D\_comb |
| 599 | cm\_inv\_diff\_norm\_3D\_comb |
| 600 | cm\_inv\_diff\_norm\_3D\_comb |
| 601 | cm\_inv\_diff\_mom\_3D\_comb |
| 602 | cm\_inv\_diff\_mom\_3D\_comb |
| 603 | cm\_inv\_diff\_mom\_3D\_comb |
| 604 | cm\_inv\_diff\_mom\_3D\_comb |
| 605 | cm\_inv\_diff\_mom\_norm\_3D\_comb |
| 606 | cm\_inv\_diff\_mom\_norm\_3D\_comb |
| 607 | cm\_inv\_diff\_mom\_norm\_3D\_comb |
| 608 | cm\_inv\_diff\_mom\_norm\_3D\_comb |
| 609 | cm\_inv\_var\_3D\_comb |
| 610 | cm\_inv\_var\_3D\_comb |
| 611 | cm\_inv\_var\_3D\_comb |
| 612 | cm\_inv\_var\_3D\_comb |
| 613 | cm\_corr\_3D\_comb |
| 614 | cm\_corr\_3D\_comb |
| 615 | cm\_corr\_3D\_comb |
| 616 | cm\_corr\_3D\_comb |
| 617 | cm\_auto\_corr\_3D\_comb |
| 618 | cm\_auto\_corr\_3D\_comb |
| 619 | cm\_auto\_corr\_3D\_comb |
| 620 | cm\_auto\_corr\_3D\_comb |
| 621 | cm\_clust\_tend\_3D\_comb |
| 622 | cm\_clust\_tend\_3D\_comb |
| 623 | cm\_clust\_tend\_3D\_comb |
| 624 | cm\_clust\_tend\_3D\_comb |
| 625 | cm\_clust\_shade\_3D\_comb |
| 626 | cm\_clust\_shade\_3D\_comb |
| 627 | cm\_clust\_shade\_3D\_comb |
| 628 | cm\_clust\_shade\_3D\_comb |
| 629 | cm\_clust\_prom\_3D\_comb |
| 630 | cm\_clust\_prom\_3D\_comb |
| 631 | cm\_clust\_prom\_3D\_comb |
| 632 | cm\_clust\_prom\_3D\_comb |
| 633 | cm\_info\_corr1\_3D\_comb |
| 634 | cm\_info\_corr1\_3D\_comb |
| 635 | cm\_info\_corr1\_3D\_comb |
| 636 | cm\_info\_corr1\_3D\_comb |
| 637 | cm\_info\_corr2\_3D\_comb |
| 638 | cm\_info\_corr2\_3D\_comb |
| 639 | cm\_info\_corr2\_3D\_comb |
| 640 | cm\_info\_corr2\_3D\_comb |
| 641 | rlm\_sre\_3D\_avg |
| 642 | rlm\_sre\_3D\_avg |
| 643 | rlm\_sre\_3D\_avg |
| 644 | rlm\_sre\_3D\_avg |
| 645 | rlm\_lre\_3D\_avg |
| 646 | rlm\_lre\_3D\_avg |
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| 648 | rlm\_lre\_3D\_avg |
| 649 | rlm\_lgre\_3D\_avg |
| 650 | rlm\_lgre\_3D\_avg |
| 651 | rlm\_lgre\_3D\_avg |
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| 653 | rlm\_hgre\_3D\_avg |
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| 656 | rlm\_hgre\_3D\_avg |
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| 664 | rlm\_srhge\_3D\_avg |
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| 669 | rlm\_lrhge\_3D\_avg |
| 670 | rlm\_lrhge\_3D\_avg |
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| 680 | rlm\_glnu\_norm\_3D\_avg |
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| 685 | rlm\_rlnu\_norm\_3D\_avg |
| 686 | rlm\_rlnu\_norm\_3D\_avg |
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| 688 | rlm\_rlnu\_norm\_3D\_avg |
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| 692 | rlm\_r\_perc\_3D\_avg |
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| 816 | szm\_zsnu\_norm\_3D |
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| 875 | dzm\_zdnu\_3D |
| 876 | dzm\_zdnu\_3D |
| 877 | dzm\_zdnu\_norm\_3D |
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| 884 | dzm\_z\_perc\_3D |
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| 886 | dzm\_gl\_var\_3D |
| 887 | dzm\_gl\_var\_3D |
| 888 | dzm\_gl\_var\_3D |
| 889 | dzm\_zd\_var\_3D |
| 890 | dzm\_zd\_var\_3D |
| 891 | dzm\_zd\_var\_3D |
| 892 | dzm\_zd\_var\_3D |
| 893 | dzm\_zd\_entr\_3D |
| 894 | dzm\_zd\_entr\_3D |
| 895 | dzm\_zd\_entr\_3D |
| 896 | dzm\_zd\_entr\_3D |
| 897 | ngt\_coarseness\_3D |
| 898 | ngt\_coarseness\_3D |
| 899 | ngt\_coarseness\_3D |
| 900 | ngt\_coarseness\_3D |
| 901 | ngt\_contrast\_3D |
| 902 | ngt\_contrast\_3D |
| 903 | ngt\_contrast\_3D |
| 904 | ngt\_contrast\_3D |
| 905 | ngt\_busyness\_3D |
| 906 | ngt\_busyness\_3D |
| 907 | ngt\_busyness\_3D |
| 908 | ngt\_busyness\_3D |
| 909 | ngt\_complexity\_3D |
| 910 | ngt\_complexity\_3D |
| 911 | ngt\_complexity\_3D |
| 912 | ngt\_complexity\_3D |
| 913 | ngt\_strength\_3D |
| 914 | ngt\_strength\_3D |
| 915 | ngt\_strength\_3D |
| 916 | ngt\_strength\_3D |
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| 918 | ngl\_lde\_3D |
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| 921 | ngl\_hde\_3D |
| 922 | ngl\_hde\_3D |
| 923 | ngl\_hde\_3D |
| 924 | ngl\_hde\_3D |
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| 927 | ngl\_lgce\_3D |
| 928 | ngl\_lgce\_3D |
| 929 | ngl\_hgce\_3D |
| 930 | ngl\_hgce\_3D |
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| 932 | ngl\_hgce\_3D |
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| 934 | ngl\_ldlge\_3D |
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| 944 | ngl\_hdlge\_3D |
| 945 | ngl\_hdhge\_3D |
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| 948 | ngl\_hdhge\_3D |
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| 950 | ngl\_glnu\_3D |
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| 954 | ngl\_glnu\_norm\_3D |
| 955 | ngl\_glnu\_norm\_3D |
| 956 | ngl\_glnu\_norm\_3D |
| 957 | ngl\_dcnu\_3D |
| 958 | ngl\_dcnu\_3D |
| 959 | ngl\_dcnu\_3D |
| 960 | ngl\_dcnu\_3D |
| 961 | ngl\_dcnu\_norm\_3D |
| 962 | ngl\_dcnu\_norm\_3D |
| 963 | ngl\_dcnu\_norm\_3D |
| 964 | ngl\_dcnu\_norm\_3D |
| 965 | ngl\_gl\_var\_3D |
| 966 | ngl\_gl\_var\_3D |
| 967 | ngl\_gl\_var\_3D |
| 968 | ngl\_gl\_var\_3D |
| 969 | ngl\_dc\_var\_3D |
| 970 | ngl\_dc\_var\_3D |
| 971 | ngl\_dc\_var\_3D |
| 972 | ngl\_dc\_var\_3D |
| 973 | ngl\_dc\_entr\_3D |
| 974 | ngl\_dc\_entr\_3D |
| 975 | ngl\_dc\_entr\_3D |
| 976 | ngl\_dc\_entr\_3D |
| 977 | ngl\_dc\_energy\_3D |
| 978 | ngl\_dc\_energy\_3D |
| 979 | ngl\_dc\_energy\_3D |
| 980 | ngl\_dc\_energy\_3D |
| 981 | Subtype |

**Dictionary**

|  |  |
| --- | --- |
| Features | Abbreviation |
| Movement Disorder Society -Unified Parkinson's Disease Rating Scale | MDS-UPDRS |
| Scales for Outcome in Parkinson's Disease of autonomic function | SCOPA-AUT |
| SCOPA-AUT\_ common features between men and women | SCOPA-AUT-Com |
| Modified Schwab & England Activities of Daily Living | MSEADL |
| Tremor dominant | TD\_S |
| postural instability gait disorder dominant | PIGD\_S |
| Geriatric Depression Scale | GDS |
| Questionnaire for Impulsive‐Compulsive Disorders | QUIP |
| State‐Trait Anxiety Inventory for Adults | STAIA |
| Benton Judgment of Line Orientation Score | BJLOS |
| Hopkins Verbal Learning Test – Revised | HVLT‐R |
| Letter Number Sequencing | LNS |
| Montreal Cognitive Assesment | MoCA |
| Semantic Fluency Test | SFT |
| Derived-Sem. Fluency-Animal T-Score | DVT\_SFTANIM |
| Derived-Symbol Digit SD | DVSD\_SDM |
| Symbol Digit Modalities Total Correct | SDMTOTAL |
| University of Pennsylvania Smell Identification Test | UPSITBK |
| Epworth Sleepiness Scale | EPWORTH |
| REM Sleep Behavior Disorder Screening Questionnaire | RBDSQ (REMSLEEP) |
| Biological Mother with PD | BIOMOMPD |
| Biological Father with PD | BIODADPD |
| Full Siblings | FULSIB |
| Full Siblings with PD | FULSIBPD |
| Half Siblings | HAFSIB |
| Maternal Grandparents with PD | MAGPARPD |
| Paternal Grandparents with PD | PAGPARPD |
| Maternal Aunts and Uncles | MATAU |
| Maternal Aunts and Uncles with PD | MATAUPD |
| Paternal Aunts and Uncles | PATAU |
| Paternal Aunts and Uncles with PD | PATAUPD |
| How many children do you have | KIDSNUM |
| How many children with PD | KIDSPD |
| EthNCFty: Is subject Hispanic/Latino | HISPLAT |
| Identify self as Am Indian/Alaska Native | RAINDALS |
| Identify self as Asian | RAASIAN |
| Identify self as Black/African American | RABLACK |
| Identify self as White | RAWHITE |
| Race not specified | RANOS |
| Number of years of education | EDUCYRS |
| Handedness | HANDED |
| IUSM\_CON\_ | IUSM\_CON\_ |
| IUSM\_RATIO\_ | IUSM\_RATIO\_260\_280\_ |
| IUSM\_RIN\_ | IUSM\_RIN\_ |
| IUSM\_AVERHEM \_ | IUSM\_AVERAGE\_HEMOGLOBIN \_ |
| DVT\_TOTAL\_RECALL | D-TRe\_TS |
| DVT\_RECOG\_DISC\_INDEX | D-Rec. Dis. In \_TS |
| DVS\_JLO\_MSSAE | D\_JLO\_MS |
| Derived-MOANS (Age and Education) | D-MOANS\_AE |
| DVS\_LNS, DVT\_SFTANIM | D\_LNS, DVT\_SFTA |
| DVT\_SDM | D\_SDM |
| Gene Category | gen\_cat |
| NEUROLIGICAL\_EXAM\_CRABIAL | NEUREC |
| Weight (in Kilograms) | WGTKG |
| Height (in Centimeters) | HTCM |
| Temperature (in Celsius) | TEMPC |
| Arm used for blood pressure | BPARM |
| Supine BP - systolic | SYSSUP |
| Supine BP - diastolic | DIASUP |
| Supine heart rate | HRSUP |
| Standing BP - systolic | SYSSTND |
| Standing BP - diastolic | DIASTND |
| Standing heart rate | HRSTND |
| chr1:154925709:G:C\_C\_PMVK\_rs114138760 | Gen1 |
| chr1:155235252:A:G\_G\_GBA\_L444P\_rs421016 | Gen2 |
| chr1:155235843:T:C\_C\_GBA\_N370S\_rs76763715 | Gen3 |
| chr1:155236246:G:A\_A\_GBA\_T408M\_rs75548401 | Gen4 |
| chr1:155236376:C:T\_T\_GBA\_E365K\_rs2230288 | Gen5 |
| chr1:155240629:C:T\_T\_GBA\_IVS2+1\_rs104886460 | Gen6 |
| chr1:155240660:G:GC\_GC\_GBA\_84GG\_rs387906315 | Gen7 |
| chr1:205754444:C:T\_C\_NUCKS1\_rs823118 | Gen8 |
| chr1:226728377:T:C\_C\_ITPKB\_rs4653767 | Gen9 |
| chr1:232528865:C:T\_T\_SIPA1L2\_rs10797576 | Gen10 |
| chr2:101796654:T:C\_C\_IL1R2/MAP4K4\_rs34043159 | Gen11 |
| chr2:134782397:C:T\_C\_ACMSD/TMEM163\_rs6430538 | Gen12 |
| chr2:165277122:C:T\_T\_SCN3A/SCN2A\_rs353116 | Gen13 |
| chr2:168272635:G:T\_T\_STK39\_rs1955337 | Gen14 |
| chr3:18235996:T:G\_G\_SATB1\_rs4073221 | Gen15 |
| chr3:48711556:G:T\_G\_NCKIPSD/CDC71/IP6K2\_rs12497850 | Gen16 |
| chr3:52782824:G:A\_A\_ITIH1\_rs143918452 | Gen17 |
| chr3:165773492:C:T\_T\_BuChE\_rs1803274 | Gen18 |
| chr3:183044649:G:A\_A\_MCCC1\_rs12637471 | Gen19 |
| chr4:950422:A:C\_C\_TMEM175\_rs34884217 | Gen20 |
| chr4:958159:T:C\_C\_TMEM175\_rs34311866 | Gen21 |
| chr4:15735478:C:A\_C\_BST1\_rs11724635 | Gen22 |
| chr4:76277833:C:T\_T\_FAM47E/STBD1\_rs6812193 | Gen23 |
| chr4:89704988:G:A\_G\_SNCA\_rs356181 | Gen24 |
| chr4:89761420:A:G\_G\_SNCA\_rs3910105 | Gen25 |
| chr4:109912954:A:G\_G\_EGF\_rs4444903 | Gen26 |
| chr4:113439216:T:C\_C\_ANK2/CAMK2D\_rs78738012 | Gen27 |
| chr5:60978096:C:A\_C\_ELOVL7/NDUFAF2\_rs2694528 | Gen28 |
| chr6:27713436:G:A\_A\_ZNF184\_rs9468199 | Gen29 |
| chr6:32218019:C:T\_T\_NOTCH4\_G1739S\_rs8192591 | Gen30 |
| chr6:32698883:C:T\_T\_HLA\_DBQ1\_rs115462410 | Gen31 |
| chr7:23254127:A:G\_G\_GPNMP\_rs199347 | Gen32 |
| chr8:11854934:A:C\_C\_CTSB\_rs1293298 | Gen33 |
| chr8:16839582:G:A\_A\_MICU3/FGF20\_rs591323 | Gen34 |
| chr8:22668467:T:C\_T\_BIN3\_rs2280104 | Gen35 |
| chr9:17579692:T:G\_T\_SH3GL2\_rs13294100 | Gen36 |
| chr10:15527599:C:A\_C\_FAM171A1/ITGA8\_rs10906923 | Gen37 |
| chr10:119950976:C:T\_T\_MIR4682\_rs118117788 | Gen38 |
| chr11:133895472:T:C\_T\_MIR4697\_rs329648 | Gen39 |
| chr12:40220632:C:T\_T\_LRRK2\_rs76904798 | Gen40 |
| chr12:40310434:C:G\_G\_LRRK2\_R1441G\_rs33939927 | Gen41 |
| chr12:40310434:C:T\_T\_LRRK2\_R1441C\_rs33939927 | Gen42 |
| chr12:40320043:G:C\_C\_LRRK2\_R1628P/H\_rs33949390 | Gen43 |
| chr12:40340400:G:A\_A\_LRRK2\_G2019S\_rs34637584 | Gen44 |
| chr12:40363526:G:A\_A\_LRRK2\_G2385R\_rs34778348 | Gen45 |
| chr12:122819039:A:G\_G\_OGFOD2/CCDC62\_rs11060180 | Gen46 |
| chr14:54882151:C:T\_T\_GCH1\_rs11158026 | Gen47 |
| chr14:88006268:C:T\_T\_GALC/GPR65\_rs8005172 | Gen48 |
| chr15:61701935:G:A\_G\_VPS13C\_rs2414739 | Gen49 |
| chr16:19268142:T:G\_T\_COQ7/SYT17\_rs11343 | Gen50 |
| chr16:31110472:G:A\_A\_ZNF646/KAT8/BCKDK\_rs14235 | Gen51 |
| chr16:52565276:C:T\_T\_TOX3/CASC16\_rs4784227 | Gen52 |
| chr17:17811787:G:A\_A\_SREBF1\_rs11868035 | Gen53 |
| chr17:45917282:C:T\_T\_MAPT\_rs17649553 | Gen54 |
| chr18:43093415:A:G\_G\_SYT4/RIT2\_rs12456492 | Gen55 |
| chr20:3172857:G:A\_A\_DDRGK1\_rs55785911 | Gen56 |
| chr22:19942586:T:C\_C\_COMT\_rs737866 | Gen57 |
| chr22:19946502:A:G\_A\_COMT\_rs174674 | Gen58 |
| chr22:19950115:T:G\_T\_COMT\_rs5993883 | Gen59 |
| chr22:19957654:A:G\_A\_COMT\_rs740603 | Gen60 |
| chr22:19961340:G:C\_G\_COMT\_rs165656 | Gen61 |
| chr22:19962429:A:G\_G\_COMT\_rs6269 | Gen62 |
| chr22:19962712:C:T\_C\_COMT\_rs4633 | Gen63 |
| chr22:19962905:A:G\_G\_COMT\_rs2239393 | Gen64 |
| chr22:19963684:C:G\_G\_COMT\_rs4818 | Gen65 |
| chr22:19963748:G:A\_A\_COMT\_rs4680 | Gen66 |
| chr22:19969258:G:A\_G\_COMT\_rs165599 | Gen67 |
| Conventional\_Brain region caudate\_right | Con\_CauR |
| Conventional\_Brain region caudate\_left | Con\_CauL |
| Conventional\_Brain region putamen\_right | Con\_PutR |
| Conventional\_Brain region putamen\_left | Con\_PutL |
| Conventional\_Average of left and righr Caudate | Con\_Mcaud |
| Conventional\_Average of left and righr Putamen | Con\_Mput |
| Conventional\_Average of left and righr straitum | Con\_Mstr |
| Con\_CauL/Con\_PutL | Con\_L\_cdr |
| Con\_CauR/Con\_PutR | Con\_R\_cdr |
| Conventional\_Brain region straitum\_right | Con\_R\_str |
| Conventional\_Brain region straitum\_left | Con\_L\_str |
| Conventional\_Absolute ((Con\_R\_str - Con\_L\_str)/(Con\_R\_str +Con\_L\_str)) | Con\_Str\_UpR |
| Conventional\_Low\_caudate uotake | Con\_Low\_cau |
| Conventional\_High\_caudate uptake | Con\_High\_cau |
| Conventional\_Low\_putamen uptake | Con\_Low\_put |
| Conventional\_High\_putamen uptake | Con\_High\_put |
| Conventional\_Low\_striatum uptake | Con\_Low\_str |
| Conventional\_High\_striatum uptake | Con\_High\_str |
| Volume (mesh-based) | morph\_volume |
| Volume (counting) | morph\_vol\_approx |
| Surface area | morph\_area\_mesh |
| Surface to volume ratio | morph\_av |
| Compactness 1 | morph\_comp\_1 |
| Compactness 2 | morph\_comp\_2 |
| Spherical disproportion | morph\_sph\_dispr |
| Sphericity | morph\_sphericity |
| Asphericity | morph\_asphericity |
| Centre of mass shift | morph\_com |
| Maximum 3D diameter | morph\_diam |
| Major axis length | morph\_pca\_maj\_axis |
| Minor axis length | morph\_pca\_min\_axis |
| Least axis length | morph\_pca\_least\_axis |
| Elongation | morph\_pca\_elongation |
| Flatness | morph\_pca\_flatness |
| Volume density (AABB) | morph\_vol\_dens\_aabb |
| Area density (AABB) | morph\_area\_dens\_aabb |
| Volume density (OMBB) | morph\_vol\_dens\_ombb |
| Area density (OMBB) | morph\_area\_dens\_ombb |
| Volume density (AEE) | morph\_vol\_dens\_aee |
| Area density (AEE) | morph\_area\_dens\_aee |
| Volume density (MVEE) | morph\_vol\_dens\_mvee |
| Area density (MVEE) | morph\_area\_dens\_mvee |
| Volume density (convex hull) | morph\_vol\_dens\_conv\_hull |
| Area density (convex hull) | morph\_area\_dens\_conv\_hull |
| Integrated intensity | morph\_integ\_int |
| Moran's I index | morph\_moran\_i |
| Geary's C measure | morph\_geary\_c |
| Local intensity peak | loc\_peak\_loc |
| Global intensity peak | loc\_peak\_glob |
| Mean | stat\_mean |
| Variance | stat\_var |
| Skewness | stat\_skew |
| (Excess) kurtosis | stat\_kurt |
| Median | stat\_median |
| Minimum | stat\_min |
| 10th percentile | stat\_p10 |
| 90th percentile | stat\_p90 |
| Maximum | stat\_max |
| Interquartile range | stat\_iqr |
| Range | stat\_range |
| Mean absolute deviation | stat\_mad |
| Robust mean absolute deviation | stat\_rmad |
| Median absolute deviation | stat\_medad |
| Coefficient of variation | stat\_cov |
| Quartile coefficient of dispersion | stat\_qcod |
| Energy | stat\_energy |
| Root mean square | stat\_rms |
| Mean | ih\_mean |
| Variance | ih\_var |
| Skewness | ih\_skew |
| Kurtosis | ih\_kurt |
| Median | ih\_median |
| Minimum | ih\_min |
| 10th percentile | ih\_p10 |
| 90th percentile | ih\_p90 |
| Maximum | ih\_max |
| Mode | ih\_mode |
| Interquartile range | ih\_iqr |
| Range | ih\_range |
| Mean absolute deviation | ih\_mad |
| Robust mean absolute deviation | ih\_rmad |
| Median absolute deviation | ih\_medad |
| Coefficient of variation | ih\_cov |
| Quartile coefficient of dispersion | ih\_qcod |
| Entropy | ih\_entropy |
| Uniformity | ih\_uniformity |
| Maximum histogram gradient | ih\_max\_grad |
| Maximum gradient grey level | ih\_max\_grad\_g |
| Minimum histogram gradient | ih\_min\_grad |
| Minimum gradient grey level | ih\_min\_grad\_g |
| Volume fraction at 10% intensity | ivh\_v10 |
| Volume fraction at 90% intensity | ivh\_v90 |
| Intensity at 10% volume | ivh\_i10 |
| Intensity at 90% volume | ivh\_i90 |
| Volume fraction difference between 10% and 90% intensity | ivh\_diff\_v10\_v90 |
| Intensity difference between 10% and 90% volume | ivh\_diff\_i10\_i90 |
| Area under the IVH curve | ivh\_auc |
| Joint maximum | cm\_joint\_max\_3D\_avg |
| Joint average | cm\_joint\_avg\_3D\_avg |
| Joint variance | cm\_joint\_var\_3D\_avg |
| Joint entropy | cm\_joint\_entr\_3D\_avg |
| Difference average | cm\_diff\_avg\_3D\_avg |
| Difference variance | cm\_diff\_var\_3D\_avg |
| Difference entropy | cm\_diff\_entr\_3D\_avg |
| Sum average | cm\_sum\_avg\_3D\_avg |
| Sum variance | cm\_sum\_var\_3D\_avg |
| Sum entropy | cm\_sum\_entr\_3D\_avg |
| Angular second moment | cm\_energy\_3D\_avg |
| Contrast | cm\_contrast\_3D\_avg |
| Dissimilarity | cm\_dissimilarity\_3D\_avg |
| Inverse difference | cm\_inv\_diff\_3D\_avg |
| Inverse difference normalised | cm\_inv\_diff\_norm\_3D\_avg |
| Inverse difference moment | cm\_inv\_diff\_mom\_3D\_avg |
| Inverse difference moment normalised | cm\_inv\_diff\_mom\_norm\_3D\_avg |
| Inverse variance | cm\_inv\_var\_3D\_avg |
| Correlation | cm\_corr\_3D\_avg |
| Autocorrelation | cm\_auto\_corr\_3D\_avg |
| Cluster tendency | cm\_clust\_tend\_3D\_avg |
| Cluster shade | cm\_clust\_shade\_3D\_avg |
| Cluster prominence | cm\_clust\_prom\_3D\_avg |
| Information correlation 1 | cm\_info\_corr1\_3D\_avg |
| Information correlation 2 | cm\_info\_corr2\_3D\_avg |
| Joint maximum | cm\_joint\_max\_3D\_comb |
| Joint average | cm\_joint\_avg\_3D\_comb |
| Joint variance | cm\_joint\_var\_3D\_comb |
| Joint entropy | cm\_joint\_entr\_3D\_comb |
| Difference average | cm\_diff\_avg\_3D\_comb |
| Difference variance | cm\_diff\_var\_3D\_comb |
| Difference entropy | cm\_diff\_entr\_3D\_comb |
| Sum average | cm\_sum\_avg\_3D\_comb |
| Sum variance | cm\_sum\_var\_3D\_comb |
| Sum entropy | cm\_sum\_entr\_3D\_comb |
| Angular second moment | cm\_energy\_3D\_comb |
| Contrast | cm\_contrast\_3D\_comb |
| Dissimilarity | cm\_dissimilarity\_3D\_comb |
| Inverse difference | cm\_inv\_diff\_3D\_comb |
| Inverse difference normalised | cm\_inv\_diff\_norm\_3D\_comb |
| Inverse difference moment | cm\_inv\_diff\_mom\_3D\_comb |
| Inverse difference moment normalised | cm\_inv\_diff\_mom\_norm\_3D\_comb |
| Inverse variance | cm\_inv\_var\_3D\_comb |
| Correlation | cm\_corr\_3D\_comb |
| Autocorrelation | cm\_auto\_corr\_3D\_comb |
| Cluster tendency | cm\_clust\_tend\_3D\_comb |
| Cluster shade | cm\_clust\_shade\_3D\_comb |
| Cluster prominence | cm\_clust\_prom\_3D\_comb |
| Information correlation 1 | cm\_info\_corr1\_3D\_comb |
| Information correlation 2 | cm\_info\_corr2\_3D\_comb |
| Short runs emphasis | rlm\_sre\_3D\_avg |
| Long runs emphasis | rlm\_lre\_3D\_avg |
| Low grey level run emphasis | rlm\_lgre\_3D\_avg |
| High grey level run emphasis | rlm\_hgre\_3D\_avg |
| Short run low grey level emphasis | rlm\_srlge\_3D\_avg |
| Short run high grey level emphasis | rlm\_srhge\_3D\_avg |
| Long run low grey level emphasis | rlm\_lrlge\_3D\_avg |
| Long run high grey level emphasis | rlm\_lrhge\_3D\_avg |
| Grey level non-uniformity | rlm\_glnu\_3D\_avg |
| Grey level non-uniformity normalised | rlm\_glnu\_norm\_3D\_avg |
| Run length non-uniformity | rlm\_rlnu\_3D\_avg |
| Run length non-uniformity normalised | rlm\_rlnu\_norm\_3D\_avg |
| Run percentage | rlm\_r\_perc\_3D\_avg |
| Grey level variance | rlm\_gl\_var\_3D\_avg |
| Run length variance | rlm\_rl\_var\_3D\_avg |
| Run entropy | rlm\_rl\_entr\_3D\_avg |
| Short runs emphasis | rlm\_sre\_3D\_comb |
| Long runs emphasis | rlm\_lre\_3D\_comb |
| Low grey level run emphasis | rlm\_lgre\_3D\_comb |
| High grey level run emphasis | rlm\_hgre\_3D\_comb |
| Short run low grey level emphasis | rlm\_srlge\_3D\_comb |
| Short run high grey level emphasis | rlm\_srhge\_3D\_comb |
| Long run low grey level emphasis | rlm\_lrlge\_3D\_comb |
| Long run high grey level emphasis | rlm\_lrhge\_3D\_comb |
| Grey level non-uniformity | rlm\_glnu\_3D\_comb |
| Grey level non-uniformity normalised | rlm\_glnu\_norm\_3D\_comb |
| Run length non-uniformity | rlm\_rlnu\_3D\_comb |
| Run length non-uniformity normalised | rlm\_rlnu\_norm\_3D\_comb |
| Run percentage | rlm\_r\_perc\_3D\_comb |
| Grey level variance | rlm\_gl\_var\_3D\_comb |
| Run length variance | rlm\_rl\_var\_3D\_comb |
| Run entropy | rlm\_rl\_entr\_3D\_comb |
| Small zone emphasis | szm\_sze\_3D |
| Large zone emphasis | szm\_lze\_3D |
| Low grey level emphasis | szm\_lgze\_3D |
| High grey level emphasis | szm\_hgze\_3D |
| Small zone low grey level emphasis | szm\_szlge\_3D |
| Small zone high grey level emphasis | szm\_szhge\_3D |
| Large zone low grey level emphasis | szm\_lzlge\_3D |
| Large zone high grey level emphasis | szm\_lzhge\_3D |
| Grey level non-uniformity | szm\_glnu\_3D |
| Grey level non uniformity normalised | szm\_glnu\_norm\_3D |
| Zone size non-uniformity | szm\_zsnu\_3D |
| Zone size non-uniformity normalised | szm\_zsnu\_norm\_3D |
| Zone percentage | szm\_z\_perc\_3D |
| Grey level variance | szm\_gl\_var\_3D |
| Zone size variance | szm\_zs\_var\_3D |
| Zone size entropy | szm\_zs\_entr\_3D |
| Small distance emphasis | dzm\_sde\_3D |
| Large distance emphasis | dzm\_lde\_3D |
| Low grey level emphasis | dzm\_lgze\_3D |
| High grey level emphasis | dzm\_hgze\_3D |
| Small distance low grey level emphasis | dzm\_sdlge\_3D |
| Small distance high grey level emphasis | dzm\_sdhge\_3D |
| Large distance low grey level emphasis | dzm\_ldlge\_3D |
| Large distance high grey level emphasis | dzm\_ldhge\_3D |
| Grey level non-uniformity | dzm\_glnu\_3D |
| Grey level non-uniformity normalised | dzm\_glnu\_norm\_3D |
| Zone distance non-uniformity | dzm\_zdnu\_3D |
| Zone distance non-uniformity normalised | dzm\_zdnu\_norm\_3D |
| Zone percentage | dzm\_z\_perc\_3D |
| Grey level variance | dzm\_gl\_var\_3D |
| Zone distance variance | dzm\_zd\_var\_3D |
| Zone distance entropy | dzm\_zd\_entr\_3D |
| Coarseness | ngt\_coarseness\_3D |
| Contrast | ngt\_contrast\_3D |
| Busyness | ngt\_busyness\_3D |
| Complexity | ngt\_complexity\_3D |
| Strength | ngt\_strength\_3D |
| Low dependence emphasis | ngl\_lde\_3D |
| High dependence emphasis | ngl\_hde\_3D |
| Low grey level count emphasis | ngl\_lgce\_3D |
| High grey level count emphasis | ngl\_hgce\_3D |
| Low dependence low grey level emphasis | ngl\_ldlge\_3D |
| Low dependence high grey level emphasis | ngl\_ldhge\_3D |
| High dependence low grey level emphasis | ngl\_hdlge\_3D |
| High dependence high grey level emphasis | ngl\_hdhge\_3D |
| Grey level non-uniformity | ngl\_glnu\_3D |
| Grey level non-uniformity normalised | ngl\_glnu\_norm\_3D |
| Dependence count non-uniformity | ngl\_dcnu\_3D |
| Dependence count non-uniformity normalised | ngl\_dcnu\_norm\_3D |
| Dependence count percentage | ngl\_dc\_perc\_3D |
| Grey level variance | ngl\_gl\_var\_3D |
| Dependence count variance | ngl\_dc\_var\_3D |
| Dependence count entropy | ngl\_dc\_entr\_3D |
| Dependence count energy | ngl\_dc\_energy\_3D |