**Supplementary Table 2. Key features selected extracted from MRI data quantized with 16 levels.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rank** | **GOLM1** | **SETD7** | **RND1** |
| 1 | NGTDM\_CT | NGTDM\_BS (wh) | GLCM\_DS (wd) |
| 2 | GLCM\_AC (wa) | GLSZM\_LZLGLE | GLRLM\_RP (wv) |
| 3 | NGTDM\_BS (wd) | GLRLM\_LRLGLE (wa) | NGTDM\_CT (wv) |
| 4 | NGTDM\_BS (wa) | GLRLM\_RP | NGTDM\_CS (wv) |
| 5 | NGTDM\_BS (wh) | FOS\_SK (wd) | GLSZM\_LZLGLE |
| 6 | GLCM\_DS (wd) | NGTDM\_CS (wv) | FoS\_TM (wv) |
| 7 | GLSZM\_LZHGLE (wh) | GLRLM\_GLV (wh) | GLSZM\_LZHGLE (wh) |
| 8 | NGTDM\_CM (wa) | GLRLM\_GLV | GLSZM\_ZSN (wa) |
| 9 | GLRLM\_RP (wv) | GLRLM\_LRLGLE (wv) | GLCM\_AC (wh) |
| 10 | GLSZM\_LZE (wh) | NGTDM\_CT (wv) | GLRLM\_GLV |
| 11 | FOS\_MN (gd) | GLRLM\_RP (wv) | GLRLM\_LRLGLE (wd) |
| 12 | GLSZM\_GLV (wh) | GLRLM\_LRLGLE (wd) | GLRLM\_SRE (wh) |
| 13 | GLSZM\_GLV | GLCM\_AC (wa) | GLRLM\_RP |
| 14 | GLRLM\_RP | GLCM\_ET (wd) | GLRLM\_LRLGLE (wa) |
| 15 | NGTDM\_CM (wh) | GLCM\_CR | GLCM\_CR |
| 16 | FoS\_SD (wd) | NGTDM\_CM (wh) | NGTDM\_CM (wh) |
| 17 | GLCM\_ET (wa) | GLSZM\_LZE (wh) | NGTDM\_CT |
| 18 | GLCM\_ET (wv) | GLRLM\_GLV (wd) | FoS\_SD (wd) |
| 19 | NGTDM\_CT (wa) | NGTDM\_BS (wd) | GLRLM\_LRLGLE |
| 20 | GLRLM\_LRLGLE (wv) | GLRLM\_LRLGLE | NGTDM\_ST (wa) |

See Supplementary Table 1 for a list of abbreviations. (gd) gradient image; (wa), approximate wavelet coefficients; (wd), diagonal wavelet coefficients; (wh), horizontal wavelet coefficients; (wv), vertical wavelet coefficients.