**Clinical information of patients related to Figure 1B.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Patient ID** | **Survive** | **Overall survival time (m)** | **Relapse** | **Time to recurrence (m)** | **MUC** |
| 1 | No | 80.0 | Yes | 2.2 | - |
| 2 | No | 61.4 | Yes | 10.8 | - |
| 3 | No | 80.0 | Yes | 16.3 | + |
| 4 | No | 8.8 | Yes | 2.4 | + |
| 5 | Yes | 80.0 | Yes | 73.3 | - |
| 6 | Yes | 52.5 | No | 52.5 | + |
| 7 | No | 3.4 | Yes | 3.4 | + |
| 8 | No | 35.2 | Yes | 35.2 | + |
| 9 | No | 12.7 | Yes | 5.5 | + |
| 10 | Yes | 0.0 | No | 0.0 | + |
| 11 | No | 28.9 | Yes | 10.9 | + |
| 12 | No | 32.8 | Yes | 32.8 | - |
| 13 | Yes | 80.0 | No | 80.0 | + |
| 14 | Yes | 80.0 | No | 80.0 | - |
| 15 | No | 12.0 | Yes | 12.0 | + |
| 16 | Yes | 80.0 | No | 80.0 | + |
| 17 | No | 5.0 | Yes | 3.0 | + |
| 18 | Yes | 80.0 | No | 80.0 | + |
| 19 | No | 2.7 | Yes | 2.7 | + |
| 20 | No | 11.8 | Yes | 11.8 | + |
| 21 | No | 17.7 | Yes | 9.5 | - |
| 22 | Yes | 80.0 | No | 80.0 | + |
| 23 | No | 1.6 | Yes | 1.6 | - |
| 24 | No | 5.9 | Yes | 5.7 | - |
| 25 | No | 80.0 | Yes | 23.9 | + |
| 26 | No | 63.6 | Yes | 63.6 | - |
| 27 | No | 8.6 | Yes | 0.7 | - |
| 28 | No | 10.6 | Yes | 3.7 | + |
| 29 | No | 26.9 | Yes | 25.9 | + |
| 30 | No | 19.8 | Yes | 10.6 | + |
| 31 | No | 11.7 | Yes | 11.7 | + |
| 32 | No | 13.5 | Yes | 4.6 | - |
| 33 | No | 20.3 | Yes | 7.5 | + |
| 34 | No | 9.5 | Yes | 9.5 | + |
| 35 | No | 1.0 | Yes | 1.0 | - |
| 36 | No | 7.0 | Yes | 7.0 | + |
| 37 | No | 10.4 | Yes | 7.0 | - |
| 38 | No | 9.6 | Yes | 9.6 | + |
| 39 | Yes | 80.0 | No | 80.0 | + |
| 40 | Yes | 21.0 | Yes | 2.5 | + |
| 41 | Yes | 80.0 | No | 80.0 | + |
| 42 | No | 43.7 | Yes | 17.3 | + |
| 43 | No | 20.2 | Yes | 8.4 | - |
| 44 | Yes | 80.0 | No | 80.0 | + |
| 45 | No | 9.1 | Yes | 9.1 | - |
| 46 | Yes | 80.0 | No | 80.0 | - |
| 47 | No | 7.4 | Yes | 7.4 | - |
| 48 | No | 5.8 | Yes | 5.8 | + |
| 49 | Yes | 80.0 | No | 80.0 | + |
| 50 | No | 21.5 | Yes | 21.4 | + |
| 51 | No | 15.4 | Yes | 15.4 | + |
| 52 | No | 7.3 | Yes | 2.1 | - |
| 53 | Yes | 25.7 | No | 25.7 | + |
| 54 | No | 9.6 | Yes | 9.6 | + |
| 55 | No | 13.9 | Yes | 13.9 | + |
| 56 | No | 17.2 | Yes | 17.2 | + |
| 57 | Yes | 37.0 | No | 37.0 | + |
| 58 | Yes | 80.0 | No | 80.0 | - |
| 59 | No | 79.7 | Yes | 65.4 | - |
| 60 | Yes | 80.0 | No | 80.0 | + |
| 61 | No | 6.2 | Yes | 6.2 | + |
| 62 | No | 22.9 | Yes | 22.8 | + |
| 63 | No | 8.6 | Yes | 8.6 | + |
| 64 | No | 47.9 | Yes | 6.3 | - |
| 65 | Yes | 80.0 | No | 80.0 | - |
| 66 | No | 17.3 | Yes | 17.3 | - |
| 67 | Yes | 80.0 | No | 80.0 | + |
| 68 | Yes | 80.0 | No | 80.0 | - |
| 69 | No | 27.0 | Yes | 1.0 | + |
| 70 | No | 71.6 | Yes | 71.6 | + |
| 71 | Yes | 80.0 | No | 80.0 | + |
| 72 | Yes | 74.1 | No | 74.1 | + |
| 73 | No | 5.1 | Yes | 5.1 | + |
| 74 | Yes | 80.0 | No | 80.0 | + |
| 75 | Yes | 68.9 | No | 68.9 | + |
| 76 | Yes | 80.0 | Yes | 80.0 | - |
| 77 | No | 20.9 | Yes | 20.9 | + |
| 78 | No | 6.0 | Yes | 2.2 | + |
| 79 | No | 9.7 | Yes | 9.7 | + |
| 80 | No | 62.2 | Yes | 19.1 | - |
| 81 | No | 10.1 | Yes | 10.2 | - |
| 82 | No | 23.1 | Yes | 11.2 | + |
| 83 | Yes | 80.0 | No | 80.0 | + |
| 84 | No | 39.6 | Yes | 39.6 | + |
| 85 | No | 5.3 | Yes | 5.3 | + |
| 86 | No | 38.5 | Yes | 7.0 | - |
| 87 | No | 3.8 | Yes | 3.8 | + |
| 88 | No | 3.8 | Yes | 3.8 | + |
| 89 | No | 7.7 | Yes | 5.7 | + |
| 90 | Yes | 65.3 | No | 65.3 | - |
| 91 | No | 3.3 | Yes | 2.3 | - |
| 92 | No | 6.8 | Yes | 2.8 | + |
| 93 | Yes | 80.0 | No | 80.0 | + |
| 94 | No | 14.7 | Yes | 14.7 | + |
| 95 | Yes | 80.0 | No | 80.0 | + |
| 96 | No | 51.6 | Yes | 51.6 | + |
| 97 | No | 4.0 | Yes | 2.0 | + |
| 98 | No | 6.9 | Yes | 6.9 | + |
| 99 | No | 57.1 | Yes | 36.2 | - |
| 100 | No | 0.0 | Yes | 0.0 | + |
| 101 | Yes | 80.0 | Yes | 12.9 | - |
| 102 | No | 80.0 | Yes | 11.3 | + |
| 103 | Yes | 80.0 | No | 80.0 | + |
| 104 | No | 12.0 | Yes | 4.9 | - |
| 105 | No | 8.5 | Yes | 8.4 | + |
| 106 | No | 9.8 | No | 9.8 | - |
| 107 | Yes | 11.6 | Yes | 6.7 | - |
| 108 | No | 55.8 | Yes | 39.9 | - |
| 109 | No | 43.2 | No | 43.2 | - |
| 110 | Yes | 80.0 | No | 80.0 | + |
| 111 | Yes | 80.0 | Yes | 15.5 | - |
| 112 | No | 24.8 | Yes | 20.8 | + |
| 113 | Yes | 80.0 | No | 80.0 | + |
| 114 | No | 12.3 | Yes | 1.6 | + |
| 115 | Yes | 80.0 | No | 80.0 | - |
| 116 | Yes | 80.0 | Yes | 5.8 | - |
| 117 | Yes | 80.0 | Yes | 49.4 | + |
| 118 | Yes | 80.0 | No | 80.0 | + |
| 119 | No | 26.1 | Yes | 6.8 | - |
| 120 | No | 36.1 | Yes | 36.1 | - |
| 121 | No | 6.2 | Yes | 5.7 | + |
| 122 | No | 4.6 | Yes | 4.5 | + |
| 123 | No | 4.5 | Yes | 4.5 | - |
| 124 | No | 3.2 | Yes | 3.2 | - |
| 125 | No | 20.2 | Yes | 20.2 | - |
| 126 | No | 11.7 | Yes | 11.7 | + |
| 127 | No | 15.5 | Yes | 11.2 | + |
| 128 | No | 10.0 | Yes | 10.0 | + |
| 129 | No | 3.1 | Yes | 3.1 | + |
| 130 | No | 43.7 | Yes | 3.9 | + |
| 131 | Yes | 80.0 | No | 80.0 | - |
| 132 | No | 21.3 | Yes | 21.3 | + |
| 133 | Yes | 67.6 | Yes | 20.3 | + |
| 134 | No | 27.0 | Yes | 1.0 | + |
| 135 | No | 23.1 | Yes | 19.5 | + |
| 136 | No | 30.4 | Yes | 8.9 | + |
| 137 | No | 7.2 | Yes | 7.2 | + |
| 138 | No | 14.2 | Yes | 14.2 | + |
| 139 | No | 16.2 | Yes | 16.2 | + |
| 140 | No | 4.9 | Yes | 2.0 | - |
| 141 | Yes | 80.0 | Yes | 3.4 | - |
| 142 | Yes | 80.0 | No | 80.0 | + |
| 143 | No | 3.5 | Yes | 3.5 | + |
| 144 | No | 20.1 | Yes | 17.1 | + |
| 145 | Yes | 80.0 | Yes | 12.7 | + |
| 146 | No | 2.3 | Yes | 2.3 | + |
| 147 | No | 44.3 | Yes | 9.3 | + |
| 148 | No | 16.4 | Yes | 2.1 | - |
| 149 | No | 64.0 | Yes | 64.0 | + |
| 150 | No | 15.0 | Yes | 15.0 | + |
| 151 | No | 10.5 | Yes | 10.5 | + |
| 152 | Yes | 80.0 | Yes | 7.1 | - |
| 153 | Yes | 79.7 | Yes | 49.4 | + |
| 154 | No | 2.6 | Yes | 2.6 | + |
| 155 | Yes | 16.2 | Yes | 5.7 | + |
| 156 | Yes | 79.9 | No | 79.9 | - |
| 157 | No | 8.6 | Yes | 8.6 | + |
| 158 | No | 26.6 | Yes | 26.6 | - |
| 159 | Yes | 79.5 | Yes | 17.8 | + |
| 160 | Yes | 61.9 | No | 61.9 | + |
| 161 | No | 48.3 | Yes | 16.9 | + |
| 162 | No | 59.2 | No | 59.2 | - |
| 163 | No | 65.4 | Yes | 4.4 | + |
| 164 | Yes | 79.8 | No | 79.8 | + |
| 165 | No | 6.3 | Yes | 3.2 | + |
| 166 | No | 25.7 | Yes | 25.7 | + |
| 167 | Yes | 80.0 | No | 80.0 | + |
| 168 | No | 26.0 | Yes | 16.4 | + |
| 169 | No | 30.1 | Yes | 30.1 | - |
| 170 | No | 14.8 | Yes | 6.2 | + |
| 171 | No | 26.8 | Yes | 8.0 | + |
| 172 | No | 25.5 | Yes | 5.3 | + |
| 173 | No | 4.9 | Yes | 4.9 | + |
| 174 | No | 45.9 | Yes | 45.9 | - |
| 175 | No | 35.1 | Yes | 21.8 | + |
| 176 | Yes | 74.6 | Yes | 5.6 | + |
| 177 | No | 25.7 | Yes | 8.5 | - |
| 178 | No | 8.7 | Yes | 8.7 | + |
| 179 | Yes | 77.8 | Yes | 61.1 | - |
| 180 | Yes | 77.3 | No | 77.3 | - |
| 181 | No | 23.4 | Yes | 8.2 | - |
| 182 | No | 46.8 | Yes | 46.8 | - |
| 183 | No | 31.3 | Yes | 31.3 | + |
| 184 | No | 2.0 | No | 2.0 | - |
| 185 | No | 6.4 | Yes | 6.4 | + |
| 186 | No | 34.7 | Yes | 9.4 | + |
| 187 | Yes | 72.9 | No | 72.9 | + |
| 188 | No | 6.1 | Yes | 6.1 | + |
| 189 | Yes | 74.8 | No | 74.8 | - |
| 190 | Yes | 74.7 | No | 74.7 | - |
| 191 | No | 10.1 | Yes | 2.5 | - |
| 192 | No | 19.2 | Yes | 19.2 | + |
| 193 | No | 3.5 | No | 3.5 | + |
| 194 | Yes | 75.7 | No | 75.7 | + |
| 195 | No | 7.3 | Yes | 7.3 | + |
| 196 | No | 29.6 | Yes | 20.4 | + |
| 197 | No | 69.5 | Yes | 8.6 | + |
| 198 | No | 2.4 | Yes | 2.4 | + |
| 199 | Yes | 75.1 | Yes | 11.8 | - |
| 200 | Yes | 75.6 | No | 75.6 | + |
| 201 | No | 8.1 | Yes | 8.1 | + |
| 202 | No | 40.4 | Yes | 40.4 | + |
| 203 | No | 4.3 | Yes | 2.8 | + |
| 204 | No | 8.6 | Yes | 8.6 | + |
| 205 | Yes | 73.5 | Yes | 59.9 | + |
| 206 | No | 8.7 | Yes | 8.8 | + |
| 207 | No | 10.7 | Yes | 10.7 | + |
| 208 | Yes | 72.7 | No | 72.7 | - |
| 209 | No | 18.4 | Yes | 18.4 | + |
| 210 | Yes | 74.3 | No | 74.3 | - |
| 211 | No | 61.7 | Yes | 9.9 | - |
| 212 | No | 7.8 | Yes | 7.8 | + |
| 213 | No | 8.3 | Yes | 8.3 | + |
| 214 | No | 28.9 | Yes | 6.6 | - |
| 215 | Yes | 6.5 | No | 6.5 | + |
| 216 | No | 36.9 | Yes | 36.9 | - |
| 217 | No | 11.4 | Yes | 3.3 | + |
| 218 | No | 15.2 | Yes | 4.0 | + |
| 219 | Yes | 73.8 | Yes | 1.0 | + |
| 220 | No | 20.2 | Yes | 20.2 | + |
| 221 | No | 28.1 | Yes | 28.1 | + |
| 222 | No | 15.0 | Yes | 15.0 | - |
| 223 | Yes | 72.0 | No | 72.0 | + |
| 224 | Yes | 55.7 | Yes | 6.7 | + |
| 225 | Yes | 0.0 | No | 0.0 | + |
| 226 | Yes | 70.1 | No | 70.1 | + |
| 227 | No | 6.2 | Yes | 1.1 | + |
| 228 | No | 9.6 | Yes | 9.6 | + |
| 229 | Yes | 69.8 | No | 69.8 | + |
| 230 | Yes | 80.0 | Yes | 6.7 | + |
| 231 | No | 38.5 | Yes | 20.8 | + |
| 232 | Yes | 71.9 | Yes | 4.9 | + |
| 233 | Yes | 70.2 | No | 70.2 | + |
| 234 | Yes | 72.6 | No | 72.6 | - |
| 235 | Yes | 70.4 | No | 70.4 | - |
| 236 | No | 5.3 | Yes | 4.7 | + |
| 237 | Yes | 70.5 | No | 70.5 | - |
| 238 | No | 0.1 | Yes | 0.1 | + |
| 239 | No | 3.0 | Yes | 3.0 | + |
| 240 | No | 17.2 | Yes | 17.2 | + |
| 241 | No | 26.2 | Yes | 26.2 | + |
| 242 | Yes | 67.2 | Yes | 46.2 | - |
| 243 | No | 51.4 | Yes | 32.6 | + |
| 244 | No | 1.5 | Yes | 1.5 | + |
| 245 | Yes | 69.0 | No | 69.0 | + |
| 246 | Yes | 69.9 | No | 69.9 | - |
| 247 | No | 8.6 | Yes | 8.6 | + |
| 248 | No | 5.4 | Yes | 4.7 | - |
| 249 | No | 7.0 | Yes | 7.0 | + |
| 250 | No | 25.2 | Yes | 25.2 | + |
| 251 | Yes | 68.3 | Yes | 61.2 | - |
| 252 | No | 20.6 | Yes | 20.6 | + |
| 253 | Yes | 69.1 | No | 69.1 | - |
| 254 | No | 6.2 | Yes | 6.2 | + |
| 255 | No | 4.1 | Yes | 4.1 | + |
| 256 | No | 26.2 | Yes | 26.2 | - |
| 257 | Yes | 65.1 | No | 65.1 | + |
| 258 | Yes | 68.2 | Yes | 0.6 | - |
| 259 | No | 42.8 | Yes | 42.8 | + |
| 260 | No | 10.1 | Yes | 5.3 | + |
| 261 | No | 19.2 | Yes | 2.0 | + |
| 262 | No | 20.1 | Yes | 20.1 | + |
| 263 | No | 7.8 | Yes | 7.8 | - |
| 264 | No | 55.5 | Yes | 55.5 | + |
| 265 | No | 42.2 | Yes | 3.4 | + |
| 266 | No | 6.4 | Yes | 6.4 | + |
| 267 | No | 32.8 | Yes | 20.5 | + |
| 268 | No | 18.5 | Yes | 18.5 | + |
| 269 | No | 11.3 | Yes | 0.7 | + |
| 270 | Yes | 65.2 | No | 65.2 | - |
| 271 | No | 0.2 | Yes | 0.2 | + |
| 272 | No | 41.4 | Yes | 26.1 | - |
| 273 | No | 20.5 | Yes | 9.6 | + |
| 274 | No | 7.9 | Yes | 7.9 | - |
| 275 | No | 60.3 | Yes | 60.3 | + |
| 276 | Yes | 34.3 | No | 34.3 | + |
| 277 | No | 9.7 | Yes | 9.7 | + |
| 278 | No | 29.6 | Yes | 20.3 | + |
| 279 | Yes | 65.4 | No | 65.4 | + |
| 280 | No | 39.9 | Yes | 14.3 | + |
| 281 | Yes | 62.1 | No | 62.1 | + |
| 282 | No | 6.4 | Yes | 6.4 | + |
| 283 | No | 20.2 | Yes | 20.2 | + |
| 284 | No | 38.8 | Yes | 1.3 | + |
| 285 | No | 45.9 | Yes | 18.4 | + |
| 286 | No | 5.0 | Yes | 5.0 | + |
| 287 | No | 27.2 | Yes | 6.0 | + |
| 288 | Yes | 21.7 | No | 21.7 | + |
| 289 | No | 12.0 | Yes | 12.0 | + |
| 290 | No | 4.9 | Yes | 4.9 | + |
| 291 | No | 17.9 | Yes | 1.7 | + |
| 292 | No | 34.5 | Yes | 6.9 | + |
| 293 | No | 41.8 | Yes | 41.8 | + |
| 294 | No | 3.6 | Yes | 0.1 | + |
| 295 | No | 3.5 | Yes | 3.5 | + |
| 296 | Yes | 61.9 | No | 61.9 | - |
| 297 | No | 2.5 | Yes | 2.5 | + |
| 298 | No | 7.5 | Yes | 7.5 | - |
| 299 | Yes | 62.1 | No | 62.1 | - |
| 300 | Yes | 63.2 | No | 63.2 | - |
| 301 | No | 41.2 | No | 41.2 | - |
| 302 | Yes | 64.7 | Yes | 20.4 | + |
| 303 | Yes | 62.5 | No | 62.5 | + |
| 304 | No | 5.9 | Yes | 5.9 | + |
| 305 | No | 9.8 | Yes | 9.8 | + |
| 306 | No | 3.5 | Yes | 3.5 | + |
| 307 | No | 29.9 | Yes | 29.9 | + |
| 308 | Yes | 0.0 | No | 0.0 | + |
| 309 | No | 61.3 | Yes | 14.5 | - |
| 310 | No | 14.4 | Yes | 4.3 | + |
| 311 | No | 29.0 | Yes | 7.1 | + |
| 312 | No | 8.1 | Yes | 8.1 | + |
| 313 | No | 10.2 | Yes | 10.2 | - |
| 314 | No | 4.7 | Yes | 4.7 | + |
| 315 | No | 7.6 | Yes | 7.6 | + |
| 316 | No | 6.6 | Yes | 6.6 | - |
| 317 | Yes | 62.7 | No | 62.7 | + |
| 318 | Yes | 19.4 | No | 19.4 | + |
| 319 | No | 9.5 | Yes | 9.5 | + |
| 320 | Yes | 60.2 | No | 60.2 | + |
| 321 | Yes | 19.4 | Yes | 19.4 | + |
| 322 | No | 49.9 | Yes | 15.4 | + |
| 323 | No | 12.3 | Yes | 12.3 | - |
| 324 | No | 6.1 | Yes | 6.1 | + |
| 325 | No | 11.8 | Yes | 11.8 | + |
| 326 | No | 9.4 | No | 9.4 | - |
| 327 | Yes | 59.3 | No | 59.3 | + |
| 328 | No | 15.7 | Yes | 15.7 | - |