**Suppl 2. Manual evaluation of cardiology-related patents**

The following 100 patents were selected with a pseudo-random number generator (PRNG) with seed 42 from the set of 31,048 cardiology-related patents to evaluate whether a significant number of patents unrelated to cardiology had been unintentionally selected. Of the 100 patents, 99 were related to cardiology. The first column lists the row of the patent within the dataset of all cardiology-related patents (output from PRNG); the second column lists the patent WKU, and the third row lists whether, upon manual evaluation, the patent was related to cardiology.

|  |  |  |
| --- | --- | --- |
| **Table row** | **Patent row number** | **Related to cardiology?** |
| 1 | 27 185 | Yes |
| 2 | 28 645 | Yes |
| 3 | 18 753 | Yes |
| ***4*** | ***21 657*** | ***No*** |
| 5 | 9 290 | Yes |
| 6 | 1 252 | Yes |
| 7 | 15 506 | Yes |
| 8 | 8 826 | Yes |
| 9 | 10 289 | Yes |
| 10 | 13 440 | Yes |
| 11 | 29 999 | Yes |
| 12 | 14 360 | Yes |
| 13 | 28 487 | Yes |
| 14 | 16 740 | Yes |
| 15 | 30 297 | Yes |
| 16 | 28 837 | Yes |
| 17 | 7 700 | Yes |
| 18 | 3 954 | Yes |
| 19 | 26 479 | Yes |
| 20 | 9 091 | Yes |
| 21 | 29 273 | Yes |
| 22 | 5 403 | Yes |
| 23 | 932 | Yes |
| 24 | 25 573 | Yes |
| 25 | 26 591 | Yes |
| 26 | 29 293 | Yes |
| 27 | 22 021 | Yes |
| 28 | 15 572 | Yes |
| 29 | 20 386 | Yes |
| 30 | 25 436 | Yes |
| 31 | 12 136 | Yes |
| 32 | 259 | Yes |
| 33 | 21 818 | Yes |
| 34 | 481 | Yes |
| 35 | 13 610 | Yes |
| 36 | 26 648 | Yes |
| 37 | 7 326 | Yes |
| 38 | 24 875 | Yes |
| 39 | 28 559 | Yes |
| 40 | 2 454 | Yes |
| 41 | 28 296 | Yes |
| 42 | 29 988 | Yes |
| 43 | 25 412 | Yes |
| 44 | 9 174 | Yes |
| 45 | 30 866 | Yes |
| 46 | 7 789 | Yes |
| 47 | 21 852 | Yes |
| 48 | 22 725 | Yes |
| 49 | 26 116 | Yes |
| 50 | 18 658 | Yes |
| 51 | 2 552 | Yes |
| 52 | 16 306 | Yes |
| 53 | 11 619 | Yes |
| 54 | 11 224 | Yes |
| 55 | 17 111 | Yes |
| 56 | 945 | Yes |
| 57 | 11 509 | Yes |
| 58 | 17 010 | Yes |
| 59 | 4 358 | Yes |
| 60 | 22 918 | Yes |
| 61 | 12 418 | Yes |
| 62 | 17 780 | Yes |
| 63 | 21 507 | Yes |
| 64 | 12 662 | Yes |
| 65 | 15 765 | Yes |
| 66 | 2 818 | Yes |
| 67 | 9 207 | Yes |
| 68 | 14 182 | Yes |
| 69 | 12 938 | Yes |
| 70 | 14 376 | Yes |
| 71 | 517 | Yes |
| 72 | 24 609 | Yes |
| 73 | 30 993 | Yes |
| 74 | 103 | Yes |
| 75 | 5 348 | Yes |
| 76 | 10 349 | Yes |
| 77 | 23 530 | Yes |
| 78 | 9 545 | Yes |
| 79 | 18 077 | Yes |
| 80 | 4 172 | Yes |
| 81 | 15 316 | Yes |
| 82 | 5 897 | Yes |
| 83 | 5 611 | Yes |
| 84 | 20 003 | Yes |
| 85 | 10 973 | Yes |
| 86 | 16 | Yes |
| 87 | 13 669 | Yes |
| 88 | 28 380 | Yes |
| 89 | 27 896 | Yes |
| 90 | 15 342 | Yes |
| 91 | 21 829 | Yes |
| 92 | 988 | Yes |
| 93 | 15 990 | Yes |
| 94 | 7 810 | Yes |
| 95 | 8 274 | Yes |
| 96 | 14 232 | Yes |
| 97 | 14 193 | Yes |
| 98 | 25 490 | Yes |
| 99 | 28 997 | Yes |
| 100 | 30 318 | Yes |