Table 1. Descriptive statistics.

|  | Total (N=8893) | Rotterdam (N=566) | Berlin (N=1343) | Warsaw (N=1179) | Amsterdam (N=983) | Australia (N=4822) |
| --- | --- | --- | --- | --- | --- | --- |
| **SN status** |  |  |  |  |  |  |
| Negative | 7113 (80.0%) | 396 (70.0%) | 1084 (80.7%) | 955 (81.0%) | 747 (76.0%) | 3931 (81.5%) |
| Positive | 1780 (20.0%) | 170 (30.0%) | 259 (19.3%) | 224 (19.0%) | 236 (24.0%) | 891 (18.5%) |
| **Sex** |  |  |  |  |  |  |
| female | 4040 (45.4%) | 293 (51.8%) | 590 (43.9%) | 706 (59.9%) | 486 (49.4%) | 1965 (40.8%) |
| male | 4853 (54.6%) | 273 (48.2%) | 753 (56.1%) | 473 (40.1%) | 497 (50.6%) | 2857 (59.2%) |
| **Age** |  |  |  |  |  |  |
| Mean (SD) | 55.5 (15.4) | 51.0 (14.3) | 58.8 (15.2) | 51.0 (13.7) | 53.7 (15.2) | 56.6 (15.5) |
| Median (Q1, Q3) | 57.0 (45.0, 67.0) | 52.0 (40.0, 62.0) | 62.0 (48.0, 71.0) | 51.0 (42.0, 62.0) | 55.0 (43.0, 65.0) | 58.0 (46.0, 68.0) |
| Min - Max | 5.0 - 94.0 | 13.0 - 88.0 | 13.0 - 94.0 | 15.0 - 83.0 | 15.0 - 89.0 | 5.0 - 94.0 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 |
| **arsenal::includeNA(Ulceration)** |  |  |  |  |  |  |
| No | 6004 (67.5%) | 332 (58.7%) | 1049 (78.1%) | 690 (58.5%) | 688 (70.0%) | 3245 (67.3%) |
| Yes | 2469 (27.8%) | 166 (29.3%) | 263 (19.6%) | 477 (40.5%) | 265 (27.0%) | 1298 (26.9%) |
| (Missing) | 420 (4.7%) | 68 (12.0%) | 31 (2.3%) | 12 (1.0%) | 30 (3.1%) | 279 (5.8%) |
| **arsenal::includeNA(Loc\_CAT)** |  |  |  |  |  |  |
| arm | 1508 (17.0%) | 86 (15.2%) | 217 (16.2%) | 184 (15.6%) | 128 (13.0%) | 893 (18.5%) |
| leg | 2427 (27.3%) | 218 (38.5%) | 324 (24.1%) | 370 (31.4%) | 277 (28.2%) | 1238 (25.7%) |
| trunk | 3670 (41.3%) | 242 (42.8%) | 654 (48.7%) | 512 (43.4%) | 407 (41.4%) | 1855 (38.5%) |
| head & neck | 1150 (12.9%) | 20 (3.5%) | 142 (10.6%) | 14 (1.2%) | 138 (14.0%) | 836 (17.3%) |
| (Missing) | 138 (1.6%) | 0 (0.0%) | 6 (0.4%) | 99 (8.4%) | 33 (3.4%) | 0 (0.0%) |
| **arsenal::includeNA(Histology)** |  |  |  |  |  |  |
| SSM | 4146 (46.6%) | 285 (50.4%) | 910 (67.8%) | 371 (31.5%) | 598 (60.8%) | 1982 (41.1%) |
| NM | 2788 (31.4%) | 195 (34.5%) | 290 (21.6%) | 465 (39.4%) | 276 (28.1%) | 1562 (32.4%) |
| ALM | 215 (2.4%) | 16 (2.8%) | 54 (4.0%) | 27 (2.3%) | 29 (3.0%) | 89 (1.8%) |
| other | 763 (8.6%) | 14 (2.5%) | 46 (3.4%) | 89 (7.5%) | 53 (5.4%) | 561 (11.6%) |
| (Missing) | 981 (11.0%) | 56 (9.9%) | 43 (3.2%) | 227 (19.3%) | 27 (2.7%) | 628 (13.0%) |
| **Breslow** |  |  |  |  |  |  |
| Mean (SD) | 2.7 (2.8) | 2.8 (2.3) | 2.3 (2.5) | 3.6 (4.9) | 2.6 (2.0) | 2.7 (2.4) |
| Median (Q1, Q3) | 2.0 (1.2, 3.3) | 2.1 (1.4, 3.5) | 1.5 (0.9, 3.0) | 2.5 (1.2, 4.0) | 1.9 (1.3, 3.0) | 2.0 (1.3, 3.2) |
| Min - Max | 0.1 - 90.0 | 0.3 - 20.0 | 0.1 - 30.0 | 0.1 - 90.0 | 0.5 - 22.0 | 0.6 - 47.0 |
| Missing | 59 | 6 | 16 | 28 | 9 | 0 |
| **Multiple fields** |  |  |  |  |  |  |
| Other | 7306 (82.2%) | 479 (84.6%) | 1302 (96.9%) | 1156 (98.0%) | 760 (77.3%) | 3609 (74.8%) |
| Multiple SN fields | 1587 (17.8%) | 87 (15.4%) | 41 (3.1%) | 23 (2.0%) | 223 (22.7%) | 1213 (25.2%) |
| **Total number of negative SN** |  |  |  |  |  |  |
| Mean (SD) | 2.1 (1.6) | 1.6 (1.4) | 1.6 (1.3) | 1.2 (1.0) | 2.2 (1.6) | 2.4 (1.7) |
| Median (Q1, Q3) | 2.0 (1.0, 3.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 1.0) | 2.0 (1.0, 3.0) | 2.0 (1.0, 3.0) |
| Min - Max | 0.0 - 17.0 | 0.0 - 10.0 | 0.0 - 13.0 | 0.0 - 9.0 | 0.0 - 15.0 | 0.0 - 17.0 |
| Missing | 162 | 1 | 27 | 134 | 0 | 0 |
| **Total number of positive SN** |  |  |  |  |  |  |
| Mean (SD) | 0.3 (0.6) | 0.4 (0.7) | 0.2 (0.4) | 0.3 (0.6) | 0.3 (0.6) | 0.2 (0.6) |
| Median (Q1, Q3) | 0.0 (0.0, 0.0) | 0.0 (0.0, 1.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Min - Max | 0.0 - 8.0 | 0.0 - 4.0 | 0.0 - 2.0 | 0.0 - 5.0 | 0.0 - 4.0 | 0.0 - 8.0 |
| Missing | 1 | 0 | 1 | 0 | 0 | 0 |
| **SN tumour burden** |  |  |  |  |  |  |
| Mean (SD) | 1.2 (1.3) | 1.1 (1.3) | 1.0 (0.5) | 1.4 (2.0) | 1.1 (0.8) | 1.2 (1.4) |
| Median (Q1, Q3) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) |
| Min - Max | 0.0 - 38.0 | 0.0 - 15.0 | 0.0 - 8.0 | 0.0 - 38.0 | 0.0 - 8.0 | 0.0 - 23.0 |
| Missing | 454 | 18 | 163 | 0 | 120 | 153 |
| **arsenal::includeNA(Dewar)** |  |  |  |  |  |  |
| subcap | 7589 (85.3%) | 440 (77.7%) | 1123 (83.6%) | 963 (81.7%) | 793 (80.7%) | 4270 (88.6%) |
| combined | 213 (2.4%) | 43 (7.6%) | 27 (2.0%) | 104 (8.8%) | 39 (4.0%) | 0 (0.0%) |
| parenchymal | 86 (1.0%) | 19 (3.4%) | 11 (0.8%) | 51 (4.3%) | 5 (0.5%) | 0 (0.0%) |
| multifocal | 45 (0.5%) | 21 (3.7%) | 9 (0.7%) | 9 (0.8%) | 6 (0.6%) | 0 (0.0%) |
| extensive | 105 (1.2%) | 25 (4.4%) | 10 (0.7%) | 52 (4.4%) | 18 (1.8%) | 0 (0.0%) |
| not subcap | 379 (4.3%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 379 (7.9%) |
| (Missing) | 476 (5.4%) | 18 (3.2%) | 163 (12.1%) | 0 (0.0%) | 122 (12.4%) | 173 (3.6%) |
| **arsenal::includeNA(Mitosis)** |  |  |  |  |  |  |
| No | 4657 (52.4%) | 14 (2.5%) | 0 (0.0%) | 0 (0.0%) | 27 (2.7%) | 4616 (95.7%) |
| Yes | 341 (3.8%) | 85 (15.0%) | 0 (0.0%) | 0 (0.0%) | 50 (5.1%) | 206 (4.3%) |
| (Missing) | 3895 (43.8%) | 467 (82.5%) | 1343 (100.0%) | 1179 (100.0%) | 906 (92.2%) | 0 (0.0%) |
| **Recurrence** |  |  |  |  |  |  |
| no recurrence | 6737 (75.8%) | 406 (71.7%) | 1168 (87.0%) | 860 (72.9%) | 775 (78.8%) | 3528 (73.2%) |
| recurred | 2156 (24.2%) | 160 (28.3%) | 175 (13.0%) | 319 (27.1%) | 208 (21.2%) | 1294 (26.8%) |
| **Deaths** |  |  |  |  |  |  |
| No | 7122 (80.1%) | 451 (79.7%) | 1195 (89.0%) | 963 (81.7%) | 856 (87.1%) | 3657 (75.8%) |
| Yes | 1771 (19.9%) | 115 (20.3%) | 148 (11.0%) | 216 (18.3%) | 127 (12.9%) | 1165 (24.2%) |
| **Melanoma specific mortality** |  |  |  |  |  |  |
| Other | 7624 (85.7%) | 464 (82.0%) | 1242 (92.5%) | 976 (82.8%) | 885 (90.0%) | 4057 (84.1%) |
| Death by melanoma | 1269 (14.3%) | 102 (18.0%) | 101 (7.5%) | 203 (17.2%) | 98 (10.0%) | 765 (15.9%) |
| **logRec.time** |  |  |  |  |  |  |
| Mean (SD) | 1.0 (1.3) | 1.3 (1.1) | 0.3 (1.6) | 1.2 (1.4) | 1.1 (1.1) | 1.0 (1.1) |
| Median (Q1, Q3) | 1.2 (0.3, 1.9) | 1.5 (0.6, 2.1) | 0.7 (-0.3, 1.6) | 1.5 (0.5, 2.2) | 1.3 (0.8, 1.8) | 1.2 (0.3, 1.8) |
| Min - Max | -5.9 - 3.1 | -3.3 - 2.8 | -5.9 - 2.3 | -5.9 - 2.9 | -5.9 - 2.6 | -4.0 - 3.1 |
| Missing | 45 | 0 | 2 | 42 | 1 | 0 |
| **logFU.time** |  |  |  |  |  |  |
| Mean (SD) | 1.2 (1.2) | 1.5 (0.9) | 0.5 (1.6) | 1.4 (1.2) | 1.3 (0.9) | 1.2 (1.1) |
| Median (Q1, Q3) | 1.4 (0.7, 2.0) | 1.7 (1.0, 2.2) | 0.9 (-0.1, 1.6) | 1.6 (0.9, 2.2) | 1.5 (1.0, 1.9) | 1.4 (0.7, 2.0) |
| Min - Max | -5.9 - 3.1 | -3.3 - 2.8 | -5.9 - 2.3 | -5.2 - 2.9 | -5.9 - 2.6 | -2.5 - 3.1 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 |