**Table 1. Comparison of the clinical characteristics of people with complete vs missing data for macrovascular complications**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **UK** | | **FRANCE** | | **Spain – HM** | | **Spain - Barcelona** | |
|  | Complete data (n=1846) | Missing data (n=1333) | Complete data (n=1510) | Missing data (n=1333) | Complete data (n=406) | Missing data (n=0) | Complete data (n=344) | Missing data (n=23) |
| Age (mean, SD) years | 72.5 (13.9) | 70.8 (14.4) | 70.1 (13.0) | 69.1 (13.3) | 74.7 (11.9) | - | 71.1 (13.9) | 74.0 (14.7) |
| Missing, n | 0 | 6 | 0 | 0 | 0 | - | 1 | 0 |
| Men, n (%) | 1140 (62) | 802 (60) | 933 (62) | 882 (66) | 250 (62) | - | 202 (59) | 11 (48) |
| Missing, n | 0 | 5 | 0 | 0 | 0 | - | 0 | 0 |
| BMI (mean, SD) kg/m2 | 29.3 (7.2) | 28.6 (6.9) | 29.9 (5.7) | 28.9 (6.1) | NA | - | 29.8 (6.6) | 33.2 (5.8) |
| Missing, n | 0 | 860 | 0 | 124 | NA | - | 295 | 21 |
| **Ethnicity:** |  |  |  |  |  |  |  |  |
| White, n (%) | 1291 (70) | 624 (60) | 893 (59) | 517 (56) | NA | - | 77 (87) | 18 (86) |
| Asian, n (%) | 275 (15) | 167 (16) | 55 (4) | 33 (4) | NA | - | 1 (1) | 1 (5) |
| Black, n (%) | 116 (6) | 94 (9) | 242 (16.0) | 179 (20) | NA | - | 2 (2) | 0 (0) |
| Other, n (%) | 164 (9) | 157 (15) | 320 (21) | 187 (20) | NA | - | 9 (10) | 2 (10) |
| Missing, n | 0 | 291 | 0 | 417 | NA | - | 255 | 2 |
| **Type of diabetes**  Type 1, n (%)  Type 2, n (%) | 93 (5)  1753 (95) | 62 (5)  1163 (95) | 48 (3)  1462 (97) | 13 (1)  1079 (99) | 4 (1)  402 (99) | - | 5 (5)  88 (95) | 0 (0.0)  23 (100.0) |
| Missing, n | 0 | 108 | 0 | 241 | 0 | - | 251 | 0 |
| **Hypertension,** **n (%)** | 1286 (70) | 774 (66) | 1204 (80) | 953 (73.0) | 286 (70) | - | 278 (81) | 18 (78) |
| Missing, n | 0 | 166 | 0 | 28 | 0 | - | 0 | 0 |
| **Dyslipidaemia,** **n (%)** | NA | NA | 767 (51) | 521 (42) | 198 (49) | - | NA | NA |
| Missing, n | - | - | 0 | 81 | 0 | - | - | - |
| **Microvascular disease,** **n (%)** | 807 (44) | 242 (39) | 701 (46) | 206 (42) | 38 (9) | - | 15 (17) | 0 |
| Missing, n | 0 | 710 | 0 | 848 | 0 | - | 257 | 23 |
| **Macrovascular disease,** **n (%)** | 804 (44) | 272 (40) | 640 (42) | 477 (39) | 98 (24) | - | 110 (32) | NA |
| Missing, n | 0 | 652 | 0 | 109 | 0 | - | 0 | 23 |
| **Death (in-hospital mortality),** **n (%)** | 715 (39) | 524 (39) | 290 (19) | 294 (22) | 79 (20) | - | 88 (28) | 8 (36) |
| Missing, n | 0 | 0 | 0 | 7 | 0 | - | 18 | 1 |
| **ICU admission,** **n (%)** | 193 (10) | 125 (13) | 412 (27) | 439 (33) | 35 (9) | - | 59 (17) | 1 (5) |
| Missing, n | 0 | 337 | 0 | 14 | 0 | - | 1 | 1 |
| **Use of IMV,** **n (%)** | NA | NA | 269 (18) | 297 (23) | 37 (9) | - | NA | NA |
| Missing, n | - | - | 0 | 14 | 0 | - | - | - |

BMI: body mass index; ICU: intensive care unit; IMV: Mechanical ventilation, SD: Standard deviation,

**Table 2. Clinical characteristics of subjects according to macrovascular status.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **UK** | | | **FRANCE** | | | **Spain – HM** | | | **Spain – Barcelona** | | |
|  | **All**  **(n=1846)** | **No MACRO (n=1042)** | **Any MACRO (n=804)** | **All**  **(n=1510)** | **No MACRO (n=870)** | **Any MACRO (n=640)** | **All**  **(n=406)** | **No MACRO (n=308)** | **Any MACRO (n=98)** | **All**  **(n=344)** | **No MACRO (n=234)** | **Any MACRO (n=110)** |
| Age (mean, SD) years | 72.5(13.9) | 69.1(14.8) | 76.8(11.2) | 70.1(13.0) | 66.7(13.0) | 74.7(11.5) | 74.7 (11.9) | 72.8 (11.9) | 80.6 (9.7) | 71.1 (13.9) | 69.3 (13.9) | 74.8 (13.0) |
| Men, n (%) | 1140(62) | 610 (59) | 530 (66) | 933 (62) | 495(57) | 438 (68.4) | 250(62) | 185(60) | 65(66) | 202 (58.9) | 129 (55.1) | 73 (67.0) |
| **Ethnicity,**  **n (%)** |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 1291(70) | 655(63) | 626(78) | 893(59) | 467(54) | 426(66.6) | NA | NA | NA | 77(87) | 58(84) | 19(95) |
| Asian | 275(15) | 200(19) | 75 (9) | 55(4) | 39(5) | 16(2.5) | NA | NA | NA | 1 (1) | 1 (2) | 0 (0) |
| Black | 116(6) | 64(6) | 52 (6) | 242(16) | 173(20) | 69(10.8) | NA | NA | NA | 2 (2) | 2 (3) | 0 (0) |
| Other | 164(9) | 123(12) | 41 (5) | 320(21) | 191(22) | 129(20.2) | NA | NA | NA | 9 (10) | 8 (12) | 1 (5) |
| **Type of diabetes**  Type 1, n (%)  Type 2, n (%) | 93(5)  1753(95) | 59(6)  983(94) | 34(4)  770(96) | 48(3)  1462(97) | 33(4)  837(96) | 15(2.3)  625(97.7) | 4 (1)  402(99) | 3 (1)  305(99) | 1 (1)  97(99) | 5 (5)  88 (95) | 5 (7)  68 (93) | 0 (0.0)  20(100.0) |
| Hypertension, n (%) | 1286(70) | 713(68) | 573(71) | 1204(80) | 635(73) | 569(88.9) | 286(70) | 207(67) | 79(81) | 278(81) | 176(75) | 102(93) |
| Dyslipidaemia, n (%) | NA | NA | NA | 767(51) | 363(42) | 404(63.1) | 198(49) | 141(46) | 57(58) | NA | NA | NA |
| BMI | 29.3 (7.2) | 29.9 (7.2) | 28.6 (7.1) | 29.5 (5.9) | 29.9 (5.7) | 28.9 (6.1) | NA | NA | NA | 29.8 (6.7) | 29.3 (6.4) | 33.3 (8.1) |
| Diabetes duration | NA | NA | NA | 12 [6; 20] | 10 [5; 18] | 15 [10; 23] | NA | NA | NA | NA | NA | NA |
| HbA1c (%), mean (SD) | 7.8 (4.2) | 7.9 (4.3) | 7.8 (4.1) | 8.1 (1.8) | 8.3 (2.0) | 7.9 (1.7) | 8.1 (1.7) | 8.3 (1.8) | 7.7 (1.4) | 7.5 (1.5) | 7.3 (1.4) | 8.3 (1.8) |
| HbA1c mmol/mol, mean (SD) | 62 (22) | 63 (23) | 62 (21) | 65.2(20.2) | 67.1(21.5) | 62.7(18.2) | 65.0 (18.2) | 67.2 (20.2) | 60.7(15.4) | 58.9 (16.9) | 56.6 (15.4) | 67.2 (19.7) |
| Microvascular disease, n (%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Diabetic retinopathy, n (%) | 449(24) | 216(22) | 233(30) | 252(17) | 104(12) | 148(23) | 1(0.2) | 1(0.3) | 0(0.0) | 8/87 (9) | 7/71 (10) | 1/16 (6) |
| Diabetic kidney disease, n (%) | 420(23) | 156(15) | 264(33) | 569 (38) | 220(25) | 349(54.5) | 31(7.6) | 12(4) | 19(19) | 6/87 (7) | 5/71 (7) | 1/16 (6) |
| Macrovascular disease, n (%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Ischemic heart disease/Heart failure, n (%) | 560(30) | 0 (0.0) | 560(70) | 410(27)  /185(13) | 0(0) | 410(64)  /185(39) | 54(13.3)/  34(8.4) | 0 (0.0) | 54(55)  34(35) | 96 (28) | 0 (0.0) | 96 (88) |
| TIA/Stroke, n (%) | 295(16) | 0 (0.0) | 295(37) | 188(13) | 0(0) | 188(29.4) | 25 (6.2) | 0 (0.0) | 25(26) | 12 (3.5) | 0 (0.0) | 12 (11) |
| Peripheral artery disease, n (%) | 246(13) | 0 (0.0) | 246(31) | 198(13) | 0(0) | 198(31.0) | 10 (2.5) | 0 (0.0) | 10(10) | 3 (1) | 0 (0.0) | 3 (2.7) |
| CKD, n (%) | NA | NA | NA | NA | NA | NA | 51 (12.6) | 22(7) | 29(30) | NA | NA | NA |
| Death (in-hospital mortality), n (%) | 715(39) | 326(31) | 389(48) | 290(19) | 118(14) | 172(26.9) | 79(19.5) | 59(19) | 20(20) | 88(25.6) | 46(19.7) | 42(38.3) |
| ICU admission, n (%) | 193(10) | 155(15) | 38(5) | 412(27) | 282(32) | 130(20.3) | 35(8.6) | 28(9) | 7 (7) | 59(17.2) | 44(18.8) | 15(13.6) |
| Use of IMV, n (%) | NA | NA | NA | 269 (18) | 189(22) | 80 (12.5) | 37 (9.1) | 29 (9) | 8 (8) | NA | NA | NA |

BMI: body mass index; CKD: chronic kidney disease; ICU: intensive care unit; IMV: Mechanical ventilation, SD: Standard deviation,