

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/m ² | 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 (%) | 93 (5) | 62 (5) | 48 (3) | 13 (1) | 4 (1) | - | 5 (5) | 0 (0.0) |
| Type 2, n (%) | 1753 (95) | 1163 (95) | 1462 (97) | 1079 (99) | 402 (99) | - | 88 (95) | 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) | P | All (n=1510) | No MACRO (n=870) | Any MACRO (n=640) | P | All (n=406) | No MACRO (n=308) | Any MACRO (n=98) | P | All (n=344) | No MACRO (n=234) | Any MACRO (n=110) | p |
| Age (mean, SD) years | 72.5(13.9) | 69.1(14.8) | 76.8(11.2) | <0.001 | 70.1(13.0) | 66.7(13.0) | 74.7(11.5) | <0.001 | 74.7(11.9) | 72.8(11.9) | 80.6(9.7) | <0.001 | 71.1(13.9) | 69.3(13.9) | 74.8(13.0) | <0.001 |
| Men, n (%) | 1140(62) | 610 (59) | 530 (66) | 0.001 | 933 (62) | 495(57) | 438 (68.4) | <0.001 | 250(62) | 185(60) | 65(66) | 0.322 | 202 (58.9) | 129 (55.1) | 73 (67.0) | 0.038 |
| Ethnicity, n (%) | | | | <0.001 | | | | <0.001 | | | | NA | | | | 0.688 |
| 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 (%) | 93(5) | 59(6) | 34(4) | 0.200 | 48(3) | 33(4) | 15(2.3) | 0.107 | 4 (1) | 3 (1) | 1 (1) | 1.000 | 5 (5) | 5 (7) | 0 (0.0) | 0.642 |
| Type 2, n (%) | 1753(95) | 983(94) | 770(96) | | 1462(97) | 837(96) | 625(97.7) | | 402(99) | 305(99) | 97(99) | | 88 (95) | 68 (93) | 20(100.0) | |
| Oral agents, n(%) | 1123(61) | 673(65) | 450(56) | <0.001 | 1092(72) | 684(79) | 408(64) | <0.001 | 83 (20) | 68 (22) | 15(15) | 0.192 | 274 (80) | 189 (81) | 85 (78) | 0.452 |
| Insulin, n (%) | 696(38) | 402(39) | 294(37) | 0.40 | 678(44.9) | 320(36.8) | 358(56) | <0.001 | 79 (20) | 61 (20) | 18 (18) | 0.868 | 97 (28) | 55 (24) | 42 (39) | 0.004 |
| Hypertension, n (%) | 1286(70) | 713(68) | 573(71) | | 1204(80) | 635(73) | 569(88.9) | <0.001 | 286(70) | 207(67) | 79(81) | 0.016 | 278(81) | 176(75) | 102(93) | <0.001 |
| RAASi, n (%) | 1319(71) | 715(69) | 604(75) | 0.003 | 858(56.9) | 446(51.3) | 412(64.5) | <0.001 | 153 (38) | 115 (37) | 38 (39) | 0.892 | 199 (58) | 131 (56) | 68 (62) | 0.194 |
| Dyslipidaemia, n (%) | NA | NA | NA | NA | 767(51) | 363(42) | 404(63.1) | <0.001 | 198(49) | 141(46) | 57(58) | 0.043 | NA | NA | NA | NA |
| Statins, n (%) | 1158(63) | 625(60) | 533(66) | 0.006 | 764(50.6) | 353(40.6) | 411(64.3) | <0.001 | 107 (26) | 60 (20) | 47 (48) | <0.001 | 193 (56) | 112 (48) | 81 (74) | <0.001 |
| BMI | 29.3 (7.2) | 29.9 (7.2) | 28.6 (7.1) | <0.001 | 29.5 (5.9) | 29.9 (5.7) | 28.9 (6.1) | 0.02 | NA | NA | NA | NA | 29.8 (6.7) | 29.3 (6.4) | 33.3 (8.1) | 0.176 |
| Diabetes duration | NA | NA | NA | NA | 12 [6; 20] | 10 [5; 18] | 15 [10; 23] | <0.001 | NA | NA | NA | NA | NA | NA | NA | NA |
| HbA1c (%), mean (SD) | 7.8 (4.2) | 7.9 (4.3) | 7.8 (4.1) | 0.270 | 8.1 (1.8) | 8.3 (2.0) | 7.9 (1.7) | <0.001 | 8.1 (1.7) | 8.3 (1.8) | 7.7 (1.4) | 0.230 | 7.5 (1.5) | 7.3 (1.4) | 8.3 (1.8) | 0.022 |
| HbA1c mmol/mol, mean (SD) | 62 (22) | 63 (23) | 62 (21) | 0.270 | 65.2(20.2) | 67.1(21.5) | 62.7(18.2) | <0.001 | 65.0(18.2) | 67.2(20.2) | 60.7(15.4) | 0.230 | 58.9(16.9) | 56.6(15.4) | 67.2(19.7) | 0.022 |
| Microvascular disease, n (%) | | | | | | | | | | | | | | | | |
| Diabetic retinopathy, n (%) | 449(24) | 216(22) | 233(30) | <0.001 | 252(17) | 104(12) | 148(23) | <0.001 | 1(0.2) | 1(0.3) | 0(0.0) | 1.000 | 8/87 (9) | 7/71 (10) | 1/16 (6) | 0.652 |
| Diabetic kidney disease, n (%) | 420(23) | 156(15) | 264(33) | <0.001 | 569 (38) | 220(25) | 349(54.5) | <0.001 | 31(7.6) | 12(4) | 19(19) | <0.001 | 6/87 (7) | 5/71 (7) | 1/16 (6) | 0.910 |
| 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 | NA | NA | 51 (12.6) | 22(7) | 29(30) | <0.001 | NA | NA | NA | NA |
| Death (in-hospital mortality), n (%) | 715(39) | 326(31) | 389(48) | <0.001 | 290(19) | 118(14) | 172(26.9) | <0.001 | 79(19.5) | 59(19) | 20(20) | 0.900 | 88(25.6) | 46(19.7) | 42(38.3) | <0.001 |
| ICU admission, n (%) | 193(10) | 155(15) | 38(5) | <0.001 | 412(27) | 282(32) | 130(20.3) | <0.001 | 35(8.6) | 28(9) | 7 (7) | 0.695 | 59(17.2) | 44(18.8) | 15(13.6) | 0.249 |
| Use of IMV, n (%) | NA | NA | NA | NA | 269 (18) | 189(22) | 80 (12.5) | <0.001 | 37 (9.1) | 29 (9) | 8 (8) | 0.862 | NA | NA | NA | NA |

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