**eTable 1. Baseline characteristics of all separate cohorts.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Juvela et al7 | | Lindgren et al\* | | Mensing et al3 | | Wermer et al8 | | Molenberg et al9 | | Sonobe et al10 | | Morita et al11 | | Murayama et al13 | |
|  | Familial | Sporadic | Familial | Sporadic | Familial | Sporadic | Familial | Sporadic | Familial | Sporadic | Familial | Sporadic | Familial | Sporadic | Familial | Sporadic |
| Number of patients | 9 | 84 | 248 | 933 | 62 | 412 | 26 | 63 | 33 | 89 | 31 | 318 | 327 | 5375 | 184 | 1377 |
| Women | 3 (33) | 49 (58) | 161 (65) | 532 (57) | 44 (71) | 276 (67) | 21 (81) | 46 (73) | 22 (67) | 63 (71) | 21 (68) | 204 (64) | 220 (67) | 3580 (67) | 134 (73) | 905 (66) |
| Age (mean, SD) | 42 ± 7 | 40 ± 10 | 51 ± 11 | 57 ± 12 | 49 ± 10 | 57 ± 11 | 45 ± 12 | 53 ± 9 | 51 ± 11 | 57 ± 10 | 61 ± 10 | 62 ± 10 | 58 ± 10 | 63 ± 10 | 63 ± 12 | 66 ± 12 |
| Hypertension | 0 | 27 (32) | 93 (38) | 395 (42) | 12 (19) | 185 (45) | 13 (50) | 33 (52) | 13 (39) | 41 (46) | 13 (42) | 142 (45) | 120 (37) | 2351 (44) | 77 (42) | 665 (48) |
| Smoking | 7 (78) | 56 (67) | 127 (51) | 456 (49) | 32 (52) | 171 (41) | 24 (92) | 58 (92) | 20 (61) | 41 (46) | 14 (45) | 151 (47) | 66 (20) | 891 (17) | 51 (28) | 456 (33) |
| Previous aSAH | 9 (100) | 78 (93) | 7 (3) | 37 (4) | 0 | 0 | 10 (38) | 63 (100) | 10 (30) | 63 (71) | 3 (10) | 30 (9) | 16 (5) | 170 (3) | 3 (2) | 40 (3) |
| Multiple aneurysms | 1 (11) | 18 (21) | 84 (34) | 312 (33) | 19 (31) | 90 (22) | 7 (27) | 15 (24) | 6 (18) | 23 (26) | 9 (29) | 53 (17) | 59 (18) | 730 (14) | 70 (38) | 438 (32) |
| size  < 7.0 mm 7.0-9.9 mm  10.0-19.9mm  > 20.0 mm | 9 (100)  0  0  0 | 70 (83)  10 (12)  3 (4)  1 (1) | 189 (76)  31 (13)  24 (10)  4 (2) | 627 (67)  154 (17)  117 (13)  35 (4) | 49 (79)  8 (13)  4 (6)  0 | 172 (42)  124 (30)  96 (23)  19 (5) | 26 (100)  0  0  0 | 63 (100)  0  0  0 | 28 (85)  5 (15)  0  0 | 72 (81)  12 (13)  4 (4)  1 (1) | 31 (100)  0  0  0 | 318(100)  0  0 | 250 (76)  51 (16)  25 (8)  1 (0) | 3822 (71)  906 (17)  565 (11)  82 ((2) | 181(98)  0  3 (2)  0 | 1308(95)  34 (2)  27 (2)  8 (1) |
| Aneurysm location  ICA  MCA  ACA & P | 1 (11)  7 (78)  1 (11) | 37 (44)  35 (42)  12 (14) | 44 (18)  129 (52)  75 (30) | 162 (17)  422 (45)  349 (37) | 16 (26)  20 (32)  26 (42) | 57 (14)  154 (37)  201 (49) | 6 (23)  13 (50)  7 (27) | 7 (11)  24 (38)  32 (51) | 5 (15)  14 (42)  14 (42) | 21 (24)  32 (36)  36 (40) | 13 (42)  11 (35)  7 (23) | 118 (37)  117 (37)  83 (26) | 63 (19)  120 (37)  144 (44) | 1008 (19)  1907 (35)  2460 (46) | 57 (31)  58 (32)  69 (38) | 379 (28)  351 (25)  647 (47) |
| Phases (median, range) | 8.0  (6-10) | 8.0  (5-15) | 8.0  (5-19) | 9.0  (5-21) | 4.0  (0-8) | 5.0  (5-15) | 3.0  (0-5) | 5.0  (1-6) | 4.0  (0-6) | 4.0  (0-13) | 5.0 (3-9) | 6.0  (3-10) | 7.0  (3-17) | 7.0  (3-19) | 6.0  (3-15) | 7.0  (3-19) |
| Phases (mean, SD) | 8.0 ± 1.0 | 8.3 ±  2.3 | 8.8 ± 2.8 | 9.6 ±  3.2 | 3.2 ± 2.1 | 6.0 ±  3.3 | 3.0 ± 1.5 | 4.3 ±  1.6 | 3.7 ± 1.7 | 4.1 ±  2.4 | 5.3 ± 1.9 | 5.6 ±  1.7 | 7.0 ±  2.6 | 7.6 ±  3 | 6.0 ±  2.3 | 6.6 ±  2.4 |
| Ruptured aneurysms | 3 | 18 | 4 | 10 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 102 | 5 | 50 |
| Person-years of follow-up | 191 | 2221 | 520 | 1541 | 228 | 948 | 60 | 247 | 35 | 94 | 111 | 1126 | 468 | 9137 | 734 | 5025 |
| Follow up years (median) | 24.1  (7-35) | 28.2  (1-52) | 0.5  (0-23) | 0.5  (0-18) | 2.0  (0-15) | 0.8  (0-21) | 1.8  (1-9) | 2.2  (1-15) | 1.0  (0-2) | 1.0  (0-2) | 3.4  (1-6) | 3.2  (0-7) | 0.3  (0-8) | 1.0  (0-9) | 3.6  (0-11) | 3.1  (0-11) |
| Rupture rate | 1.57  (0.40-4.28) | 0.81  (0.50-1.26) | 0.77  (0.24-1.86) | 0.65  (0.33-1.16) | 1.32  (0.33-3.58) | 0.74  (0.32-1.46) | - | - | - | - | - | 0.53  (0.22-1.11) | 0.86  (0.27-2.06) | 1.12  (0.91-1.35) | 0.68  (0.25-1.51) | 1.0  (0.75-1.30) |

aSAH: aneurysmal subarachnoid haemorrhage, SD: standard deviation, ICA:internal carotid artery, MCA=middle cerebral artery, ACA=anterior cerebral arteries, P: posterior circulation.\* unpublished data