**Table 1-** Baseline characteristics of patients in included studies

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No of patients** | **Country** | **Age, mean** | **Male** | **AD** | **CD** | **AA** | **DM** | **HTN** | **CAD** | **Smoking** | **Redo surgery** | **Prior CVA** | **CKD** |
| Aalaei-Andabili 2017 | 48 | USA | 64 | 31 (64.6) | 9 (18.7) | 12 (25) | 27 (56.3) | 6 (12.5) | 39 (81.3) | NA | NA | 18 (37.5) | NA | NA |
| Akbulut 2019 | 41 | Turkey | 51.9 | 29 (70.7) | 41 (100) | NA | NA | 5 (12.2) | 34 (82.9) | 4 (9.8) | NA | 3 (7.3) | 3 (7.3) | 6 (14.6) |
| Berger 2018 | 31 | Germany | 64 | 24 (77.4) | 31 (100) | NA | NA | NA | 25 (80.6) | 10 (32.2) | NA | 7 (22.6) | 2 (6.4) | 2 (6.4) |
| Bertoglio 2019 | 34 | Italy | 59.7 | 30 (88.3) | 1 (3) | 33 (97) | NA | 1 (3) | 16 (47.1) | 4 (11.8) | 13(38.2) | 31 (91.2) | 1 (3) | 33 (100) |
| Bhamidipati 2020 | 22 | USA | 58.9 | 16 (72.7) | NA | NA | 8 (36.4) | NA | NA | NA | NA | 13 (59.1) | NA | NA |
| Cefarelli 2017 | 30 | Netherland | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Charchyan 2020 | 20 | Russia | 52.4 | 14 (70) | NA | NA | NA | 2 (10) | NA | 3 (15) | NA | NA | 2 (10) | 5 (25) |
| Chen 2010 | 28 | China | 51.2 | 22 (78.6) | 28 (100) | NA | NA | NA | NA | 4 (14.3) | NA | NA | 1 (3.6) | 1 (3.6) |
| Chen 2018 | 68 | China | 58 | 57 (83.8) | 68 (100) | NA | NA | 7 (10.3) | 59 (86.8) | 11 (16.2) | 29 (42.6) | 1 (1.5) | 7 (10.3) | 7 (10.3) |
| Chu 2019 | 40 | China | 66 | 22 (55) | 4 (10) | 17 (43) | 39 (98) | 5 (12.5) | 32 (80) | 9 (22.5) | 13 (32.5) | 11 (27.5) | 2 (5) | 1 (2.5) |
| Detter 2019 | 92 | Germany | 64.2 | 54 (58.7) | 25 (27.2) | 32 (34.8) | 35 (38) | NA | 82 (89.1) | NA | NA | 23 (25) | NA | NA |
| Dinato 2019 | 79 | Brazil | 57.6 | 50 (63.3) | 7 (8.9) | 53 (67.1) | 19 (24) | 12 (15.2) | 70 (88.6) | 19 (24) | 14 (17.7) | 24 (30.4) | 7 (8.9) | 6 (7.6) |
| El-Sayed Ahmad 2018 | 38 | Germany | 62 | 25 (65.8) | NA | 13 (34.2) | 25 (65.8) | NA | 37 (97.4) | 9 (23.7) | NA | 9 (23.7) | NA | NA |
| Furutachi 2019 | 20 | Japan | 58.8 | 15 (75) | 20 (100) | NA | NA | 1 (5) | 13 (65) | 2 (10) | NA | NA | 2 (10) | NA |
| Goebel 2018 | 72 | Germany | 59.4 | 55 (76.4) | 72 (100) | NA | NA | 3 (4.2) | 68 (94.4) | NA | NA | 4 (5.6) | NA | 9 (12.5) |
| Gong 2019 | 112 | China | 47.7 | 83 (74.1) | 112 (100) | NA | NA | 6 (5.3) | 89 (79.5) | 5 (4.5) | 55 (49.1) | NA | NA | NA |
| Gottardi 2020 | 40 | Austria | 60.8 | 26 (65) | 26 (65) | 1 (2.5) | 9 (22.5) | NA | NA | NA | NA | NA | NA | NA |
| Guan 2016 | 62 | China | 53.9 | 44 (71) | 62 (100) | NA | NA | 52 (83.9) | 60 (96.8) | 6 (9.7) | 38 (61.3) | NA | 2 (3.2) | NA |
| Guan 2018 | 126 | China | 47.6 | 96 (76.2) | 126 (100) | NA | NA | 8 (6.3) | 106 (84.1) | 5 (4) | 63 (50) | NA | 8 (6.3) | NA |
| He 2019 | 59 | China | 51.3 | 47 (79.7) | 59 (100) | NA | NA | 3 (5.1) | 30 (50.8) | 1 (1.7) | 2 (3.4) | NA | NA | 23 (39) |
| Hirano 2019 | 76 | Japan | 68.8 | 63 (82.9) | NA | 28 (36.8) | 48 (63.2) | 4 (5.3) | 68 (89.5) | AN | 51 (67.1) | NA | 3 (3.9) | 2 (2.6) |
| Hoffman 2013 | 32 | Germany | 58 | 26 (81.25) | 32 (100) | NA | NA | NA | NA | 4 (12.5) | NA | NA | 4 (12.5) | 1 (3.1) |
| Jiang 2019 | 153 | China | 51.6 | 115 (75.2) | 153 (100) | NA | NA | 6 (3.9) | 127 (83) | NA | NA | NA | NA | NA |
| Katayama 2015 | 120 | Japan | 64.4 | 64 (53.3) | 120 (100) | NA | NA | NA | NA | 10 (8.3) | NA | NA | 23 (19.2) | 8 (6.7) |
| Koechlin 2020 | 69 | Switzerland | 62.1 | 48 (69.6) | 69 (100) | NA | NA | 1 (1.5) | 34 (49.3) | 9 (13) | NA | NA | 19 (27.5) | 4 (5.8) |
| Koizumi 2018 | 30 | Japan | 74.3 | 26 (86.7) | NA | NA | 30 (100) | 7 (23.3) | 27 (90) | 17 (56.7 | NA | 1 (3.3) | 2 (6.7) | 4 (13.3) |
| Kremer 2019 | 68 | Germany | 61.8 | 48 (70.6) | NA | NA | NA | 3 (4.4) | 57 (83.8) | 21 (30.9) | 34 (50) | 8 (11.8) | NA | 5 (7.4) |
| Leone 2019 | 282 | Italy | 62 | 233 (82.6) | 45 (16) | 164 (58.2) | 72 (25.5) | 11 (3.9) | 237 (84) | 25 (8.9) | 129 (45.7) | 149 (52.8) | 15 (5.3) | 13 (4.6) |
| Leontyev 2016 | 509 | International | 64.1 | 357 (70.1) | 190 (37.3) | 160 (31.4) | 159 (31.2) | 45 (8.8) | 420 (82.5) | 92 (18.1) | NA | 144 (28.3) | 29 (5.7) | 53 (10.4) |
| Li 2019 | 148 | China | 41.5 | 103 (69.6) | 148 (100) | NA | NA | 3 (2) | 49 (33.1) | NA | NA | 4 (2.7) | 1 (0.7) | NA |
| Li 2020 | 1335 | China | 47.2 | 1026 (76.9) | 1190 (89.1) | 145 (10.9) | NA | 33 (2.5) | 1000 (74.9) | 46 (3.4) | NA | NA | NA | 31 (2.3) |
| Ma 2014 | 456 | China | 46.2 | 376 (82.5) | 456 (100) | NA | NA | 14 (3.1) | 333 (73) | 18 (3.9) | NA | NA | 12 (2.6) | 10 (2.2) |
| Ma 2018 | 132 | China | 46.9 | 108 (81.8) | 132 (100) | NA | NA | 31 (23.5) | 97 (73.5) | 5 (3.8) | NA | 9 (6.8) | 4 (3) | NA |
| Mkalaluh 2018 | 25 | Germany | 69 | 14 (56) | NA | NA | 12 (48) | NA | 18 (72) | 5 (20) | NA | NA | NA | NA |
| Roselli 2018 | 72 | USA | 59 | 51 (70.8) | 72 (100) | NA | NA | NA | NA | NA | NA | 9 (12.5) | 6 (8.3) | NA |
| Shimamura 2008 | 126 | Japan | 67.8 | 86 (68.2) | 31 (24.6) | 26 (20.6) | NA | NA | NA | 28 (22.2) | NA | 34 (27) | 21 (16.7) | 17 (13.5) |
| Shrestha 2015 | 67 | Germany | 57 | 53 (79.1) | 67 (100) | NA | NA | NA | NA | NA | NA | 5 (7.5) | NA | NA |
| Sun 2011 | 148 | China | 45 | 126 (85.1) | 148 (100) | NA | NA | 6 (4) | 107 (72.3) | 7 (4.7) | NA | NA | 1 (0.7) | 9 (6.1) |
| Tochii 2018 | 22 | Japan | 57 | 18 (81.8) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Usui 2002 | 24 | Japan | 71 | 22 (91.7) | NA | 1 (4.2) | 22 (91.7) | NA | NA | NA | NA | NA | NA | NA |
| Verhoye 2017 | 94 | France | 64 | 62 (66) | NA | 47 (50) | 38 (40.4) | 21 (22.3) | 79 (84) | NA | NA | 47 (50) | 3 (3.2) | 19 (25.7) |
| Wu 2014 | 252 | China | 55.2 | 211 (83.7) | 252 (100) | NA | NA | 26 (10.3) | 136 (54) | 7 (2.8) | NA | 2 (0.8) | 3 (1.2) | 16 (6.3) |
| Yamamoto 2019 | 108 | Japan | 66.5 | 50 (46.3) | 108 (100) | NA | NA | 4 (3.7) | 32 (29.6) | 1 (0.9) | NA | NA | 11 (10.2) | 4 (3.7) |
| Yang 2014 | 86 | China | 45.2 | 69 (80.2) | 86 (100) | NA | NA | 12 (14) | 73 (84.9) | 13 (15.1) | NA | NA | 3 (3.5) | 5 (5.8) |
| Yu 2018 | 21 | China | 48.6 | 18 (85.7) | 21 (100) | NA | NA | 2 (9.5) | 17 (81) | NA | NA | NA | NA | 2 (9.5) |
| Zhang 2014 | 88 | China | 45.5 | 74 (84.1) | 88 (100) | NA | NA | 4 (4.5) | 64 (72.7) | 8 (9) | NA | NA | 1 (1.1) | 3 (3.4) |

\* Values are presented as mean or number (percentage)

AA = aortic aneurysm; AD = acute dissection; CD = chronic dissection; CAD = coronary artery disease; CKD = chronic kidney disease; CVA = cerebrovascular accidents; DM = diabetes mellitus; HTN = hypertension; NA = not available/applicable