**SUPPLEMENTARY TABLE 4**

**ACUTE CARDIAC INJURY IN COVID-19 AND OTHER VIRAL INFECTIONS–**

**A STRUCTURED LITERATURE REVIEW AND META-ANALYSIS**

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**on behalf of ARBs CORONA I.**

**Supplementary Table 4:** Baseline Characteristics and Rates of Cardiac Injury from Included Studies.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Publication | N – overall | Female (%) | CKD | CVD (either CAD or CVD NOS) | HTN | DM | N – critically ill | Frequency of cardiac injury (n, % of critically ill) | Frequency of cardiac injury overall (n, % of overall) |
| Aggarwal (1) | 16 | 4 (25%) | 6 (38%) | 3 (19%) | 9 (56%) | 5 (31%) | 8 (50%) | - | 3 (19%) |
| Arentz(2) | 21 | 10 (48%) | 10 (48%) | - | - | 7 (33%) | 21 (100%) | 7a (33%) | 7 a (33%) |
| Barman (3) | 607 | 273 (45%) | 57 (9%) | 116 (19%) | 266 (44%) | 192 (32%) | 195 (32%) | 108 (18%) | 150 (25%) |
| Buckner (4) | 105 | 52 (50%) | 27 (26%) | 40 (38%) | 62 (59%) | 35 (33%) | 51 (49%) | - | 13/67c (19%) |
| Chen C(5) | 150 | 66 (44%) | - | 9 (6%) | 49 (33%) | 20 (13%) | 24 (16%) | 15 (63%) | 22 (15%) |
| Chen F (6) | 681 | 319 (47%) | 27 (4%) | 80 (12%) | 293 (43%) | 114 (17%) | 104b (15%) | 75 (72%) | 75 (11%) |
| Chen J (7) | 3309 | 1667 (50%) | 57 (2%) | 372 (11%) | 988 (30%) | 464 (14%) | 1036 (31%) | - | 1038 (31%) |
| Chen Q (8) | 54 | 18 (33%) | - | 6 (11%) | 16 (30%) | 25 (46%) | 15 (28%) | - | 23 (43%) |
| Chen T(9) | 274 | 103 (38%) | 4 (1%) | 23 (8%) | 93 (34%) | 47 (17%) | 113b (41%) | 72/94c (77%) | 89/203c (44%) |
| Deng Q(10) | 112 | 55 (49%) | - | 15 (13%) | 36 (32%) | 19 (17%) | 31 (28%) | 26 (84%) | 42 (38%) |
| Deng Y(11) | 225 | 101 (45%) | - | 17 (8%) | 58 (26%) | 26 (12%) | 109b (49%) | 65 (60%) | 66 (29%) |
| Ferguson (12) | 72 | 34 (47%) | 9 (13%) | 43 (60%) | 26 (36%) | 20 (28%) | 21 (29%) | 1/14c (7%) | 2/45c (4%) |
| Ferrante (13) | 332 | 95 (29%) | - | 49 (15%) | 179 (54%) | 71 (21%) | 72 (22%) | 38 (53%) | 123 (37%) |
| Franks (14) | 182 | 79 (43%) | - | - | - | - | - | - | 80/143c (56%) |
| Guo(15) | 187 | 96 (51%) | 6 (3%) | 8 (4%) | 61 (33%) | 28 (15%) | 45 (24%) | 31 (69%) | 52 (28%) |
| Han(16) | 273 | 176 (64%) | - | - | - | - | 15 (5%) | 3 (20%) | 27 (10%) |
| Harmouch (17) | 563 | 244 (43%) | 110 (20%) |  | 283 (50%) | 198 (35%) | 173 (31%) | 52/152c (34%) | 97/482c (20%) |
| He(18) | 54 | 20 (37%) | - | 8 (15%) | 24 (44%) | 13 (24%) | 26b (48%) | 18 (69%) | 24 (44%) |
| Hong (19) | 98 | 60 (61%) |  | 11 (11%) | 30 (31%) | 9 (9%) | 13 (13%) | 9 (69%) | 11 (11%) |
| Huang C(20) | 41 | 11 (27%) | - | 6 (15%) | 6 (15%) | 8 (20%) | 13 (32%) | 4 (31%) | 5 (12%) |
| Huang Y(21) | 34 | 20 (59%) | - | 6 (18%) | 8 (24%) | 4 (12%) | 8 (24%) | - | 1/15c (7%) |
| Lala (22) | 2736 | 1106 (40%) | 273 (10%) | 453 (17%) | 1065 (39%) | 719 (26%) | 813 (30%) |  | 985 (36%) |
| Li C (23) | 2068 | 1063 (51%) |  | 182 (9%) | 722 (35%) | 292 (14%) | 476 (23%) | 144 (30%) | 181 (9%) |
| Li L (24) | 82 | 30 (37%) | 4 (5%) | 20 (24%) | 38 (46%) | 14 (17%) | 82 (100%) | 34 (41%) | 34 (41%) |
| Li P (25) | 204 | 104 (51%) | 5 (2%) | 44 (22%) | 74 (36%) | 36 (18%) | 4 (2%) |  | 60/81c (74%) |
| Li Y (26) | 132 | 62 (47%) | 4 (3%) | 18 (14%) | 85 (64%) | 132 (100%) | 19 (14%) |  | 8 (6%) |
| Li Y (27) | 54 | 20 (37%) |  | 7 (13%) | 15 (28%) | 7 (13%) | 23 (43%) |  | 23 (43%) |
| Liu (28) | 215 | 101 (47%) |  | 23 (11%) | 50 (23%) | 24 (11%) | 11/201c (15%) | 7 (64%) | 61 (28%) |
| Lorente-Ros (29) | 707 | 264 (37%) | 79 (11%) | 75 (11%) | 357 (50%) | 143 (20%) | 12 (2%) | 7 (58%) | 112 (16%) |
| Ni (30) | 179 | 76 (42%) |  | 25 (14%) | 87 (49%) | 47 (26%) | 60b (34%) | 35 (58%) | 49 (27%) |
| Nie (31) | 311 | 121 (39%) |  |  |  |  | 111b (36%) | 91 (82%) | 103 (33%) |
| Pan F (32) | 124 | 39 (31%) |  | 19 (15%) | 62 (50%) | 25 (20%) | 89b (72%) | 48 (54%) | 63 (51%) |
| Pan W (33) | 996 | 531 (53%) | 24 (2%) | 60 (6%) | 282 (28%) | 118 (12%) | 109 (11%) |  | 116 (12%) |
| Qin (34) | 6033 | 3174 (53%) |  | 306 (5%) | 1529 (25%) | 669 (11%) | 187 (3%) | 126 (67%) | 95/1462c (6%) |
| Raad (35) | 1020 | 511 (50%) | 308 (30%) | 268 (26%) | 742 (73%) | 452 (44%) | 512 (50%) | 390 (76%) | 390 (38%) |
| Karbalai Saleh (36) | 386 | 150 (39%) | 16 (4%) | 97 (25%) | 142 (37%) | 133 (34%) | 79 (20%) | 41 (52%) | 115 (30%) |
| Sardu (37) | 164 | 56 (34%) | 16 (10%) | 56 (34%) | 164 (100%) | 42 (26%) | 32 (20%) |  | 37 (23%) |
| Shi Q (38) | 153 | 78 (51%) | 6 (4%) | 32 (21%) | 87 (57%) | 153 (100%) | 27 (18%) |  | 47 (31%) |
| Shi S (39) | 671 | 349 (52%) | 28 (4%) | 60 (9%) | 199 (30%) | 97 (14%) | 62b (9%) | 20 (32%) | 106 (16%) |
| Shi S (40) | 416 | 211 (51%) | 14 (3%) | 44 (11%) | 127 (31%) | 60 (14%) | 97 (23%) | 48 (49%) | 82 (20%) |
| van den Heuvel (41) | 51 | 10 (20%) | 1 (2%) | 4 (8%) | 21 (41%) | 9 (18%) | 19/47c (40%) |  | 13 (25%) |
| Vasudev (42) | 45 | 22 (49%) |  | 9 (20%) | 29 (64%) | 25 (56%) |  |  | 8/44c (18%) |
| Wang D(43) | 138 | 63 (46%) | 4 (3%) | 20 (15%) | 43 (31%) | 14 (10%) | 36 (26%) | 8 (22%) | 10 (7%) |
| Wang D(44) | 107 | 50 (47%) | 3 (3%) | 13 (12%) | 26 (24%) | 11 (10%) | 19b (18%) | 8 (42%) | 12 (11%) |
| Wang L (45) | 339 | 173 (51%) | 13 (4%) | 53 (16%) | 138 (41%) | 54 (16%) | 65 (19%) | 39 (60%) | 70 (21%) |
| Wang Y (46) | 344 | 165 (48%) |  | 40 (12%) | 141 (41%) | 64 (19%) | 344 (100%) | 111 (32%) | 111 (32%) |
| Wei(47) | 101 | 47 (47%) | - | 5 (5%) | 21 (21%) | 14 (14%) | 31 (31%) | 10 (32) | 16 (16%) |
| Xu H (48) | 102 | 52 (51%) | 6 (6%) | 9 (9%) | 18 (18%) | 18 (18%) | 17 (17%) | 9 (53%) | 9 (9%) |
| Xu J (49) | 239 | 96 (40%) |  | 35 (15%) | 105 (445) | 44 (18%) | 239 (100%) | 103 (435) | 103 (43%) |
| Xu X (50) | 88 | 52 (59%) |  | 7 (8%) | 23 (26%) | 11 (13%) | 9 (10%) | 3 (33%) | 7 (8%) |
| Yang X (51) | 52 | 17 (33%) | - | 5 (10%) | - | 9 (17%) | 52 (100%) | 12 (23%) | 12 (2%) |
| Yu (52) | 226 | 87 (38%) |  | 22 (10%) | 96 (42%) | 47 (21%) | 226 (100%) | 61 (27%) | 61 (27%) |
| Zeng (53) | 416 | 218 (52%) | 2 (0%) | 13 (3%) | 60 (14%) | 23 (6%) | 35 (8%) | 21 (60%) | 34 (8%) |
| Zhang (54) | 221 | 113 (51%) | 6 (3%) | 22 (10%) | 54 (24%) | 22 (10%) | 44 (20%) | - | 17 (8%) |
| Zheng (55) | 34 | 11 (32%) | 2 (6%) | 4 (12%) | 22 (65%) | 8 (24%) | 34 (100%) | 13 (38%) | 13 (38%) |
| Zhou(56) | 191 | 72 (38%) | 2 (1%) | 15 (8%) | 58 (30%) | 36 (19%) | 54b (28%) | 32 (17%) | 33 (17%) |
| Zhu (57) | 7337 | 3860 (53%) | 129 (2%) | 363 (5%) | 1763 (24%) | 952 (13%) | 80 (1%) |  | 260 (4%) |
| Total | 34072 | 16657 (49%) | 1258 (6%) | 3240 (10%) | 10932 (33%) | 5829 (18%) | 6202 (18%) | 1945 d (50%) | 5406d (19%) |

a.patients were diagnosed with “cardiomyopathy” rather than cardiac injury.   
b. indicates that patients were stratified into the severe illness category due to death.  
c. when data is reported in this fashion, it is because the denominator represents the number of patients tested.  
d. in these calculations, the denominator used was the sum of patients who were tested. In the vast majority of cases where that was not known, the denominator used was the total number of patients, as to not over-estimate cardiac injury rates.

Supplementary references can be accessed here: http://links.lww.com/CCM/G462.