

ESM Table 1. Clinical characteristics prior to admission of CORONADO participants, according to primary outcome (tracheal intubation and/or death) and death, on day 7

| Clinical features | Number of people with available data | Primary outcome at day 7 | | | Death at day 7 | | |
|---|--------------------------------------|--------------------------|-------------------|---------|-------------------|-------------------|---------|
| | | No (N= 935) | Yes (N= 382) | P value | No (N = 1177) | Yes (N= 140) | P value |
| Sex (Female/Male) | 1317 | 344/935 (36.8%) | 118/382 (30.9%) | 0.0420 | 419/1177 (35.6%) | 43/140 (30.7%) | 0.2529 |
| Age (yrs) | 1317 | 69.7 ± 13.2 | 70 ± 12.5 | 0.6760 | 68.7 ± 12.9 | 79.4 ± 8.8 | <0.0001 |
| Age class (yrs) | 1317 | | | 0.0520 | | | <0.0001 |
| < 55 | | 106/935 (11.3%) | 53/382 (13.9%) | | 156/1177 (13.3%) | 3/140 (2.1%) | |
| 55-64 | | 206/935 (22.0%) | 60/382 (15.7%) | 0.0155 | 261/1177 (22.2%) | 5/140 (3.6%) | 0.9958 |
| 65-74 | | 273/935 (29.2%) | 121/382 (31.7%) | 0.5479 | 371/1177 (31.5%) | 23/140 (16.4%) | 0.0595 |
| ≥75 | | 350/935 (37.4%) | 148/382 (38.7%) | 0.3895 | 389/1177 (33.1%) | 109/140 (77.9%) | <0.0001 |
| Type of diabetes | 1317 | | | 0.4910 | | | 0.0062 |
| Type 2 | | 828/935 (88.6%) | 338/382 (88.5%) | | 1039/1177 (88.3%) | 127/140 (90.7%) | |
| Type 1 | | 30/935 (3.2%) | 9/382 (2.4%) | 0.4243 | 37/1177 (3.1%) | 2/140 (1.4%) | 0.2650 |
| Other | | 46/935 (4.9%) | 25/382 (6.5%) | 0.2649 | 60/1177 (5.1%) | 11/140 (7.9%) | 0.2348 |
| Diagnosed on admission | | 31/935 (3.3%) | 10/382 (2.6%) | 0.5239 | 41/1177 (3.5%) | 0/140 (0%) | - |
| Ethnicity | 1035 | | | 0.8029 | | | 0.0947 |
| EU | | 459/741 (61.9%) | 182/294 (61.9%) | | 567/925 (61.3%) | 74/110 (67.3%) | |
| MENA | | 141/741 (19.0%) | 55/294 (18.7%) | 0.9281 | 176/925 (19.0%) | 20/110 (18.2%) | 0.6032 |
| AC | | 126/741 (17.0%) | 48/294 (16.3%) | 0.8339 | 158/925 (17.1%) | 16/110 (14.5%) | 0.3817 |
| AS | | 15/741 (2.0%) | 9/294 (3.1%) | 0.3361 | 24/925 (2.6%) | 0/110 (0%) | - |
| BMI (kg/m²) | 1117 | 28.1 [24.8; 32.0] | 29.1 [25.9; 33.6] | 0.0009 | 28.5 [25.1; 32.7] | 27.7 [24.2; 32.5] | 0.6179 |
| BMI class | 1117 | | | 0.0284 | | | 0.5592 |
| < 25 kg/m ² | | 215/797 (27.0%) | 64/320 (20.0%) | | 247/1013 (24.4%) | 32/104 (30.8%) | |
| 25-29.9 kg/m ² | | 294/797 (36.9%) | 116/320 (36.2%) | 0.1169 | 376/1013 (37.1%) | 34/104 (32.7%) | 0.1659 |
| 30-39.9 kg/m ² | | 238/797 (29.9%) | 121/320 (37.8%) | 0.0031 | 327/1013 (32.3%) | 32/104 (30.8%) | 0.2876 |
| ≥40 kg/m ² | | 50/797 (6.3%) | 19/320 (5.9%) | 0.4231 | 63/1013 (6.2%) | 6/104 (5.8%) | 0.5097 |
| Diabetes duration (yrs) | 772 | 13.6 ± 10.9 | 13.8 ± 10.7 | 0.8280 | 13.6 ± 10.8 | 13.9 ± 11.2 | 0.2193 |
| HbA_{1c} (mmol/mol) | 846 | 65.7 ± 21.3 | 64.8 ± 20.9 | 0.1853 | 65.5 ± 21.1 | 65.3 ± 21.5 | 0.8362 |
| HbA_{1c} (%) | 846 | 8.2 ± 1.9 | 8.1 ± 1.9 | 0.1853 | 8.1 ± 1.9 | 8.1 ± 2.0 | 0.8362 |
| HbA_{1c} (categories) | 846 | | | 0.6963 | | | 0.3143 |
| < 53 mmol/mol (7 %) | | 180/641 (28.1%) | 65/205 (31.7%) | | 227/777 (29.2%) | 18/69 (26.1%) | |
| 53-63 mmol/mol (7-7.9 %) | | 175/641 (27.3%) | 53/205 (25.9%) | 0.4096 | 203/777 (26.1%) | 25/69 (36.2%) | 0.174 |
| 64-74 mmol/mol (8-8.9 %) | | 123/641 (19.2%) | 41/205 (20.0%) | 0.7292 | 151/777 (19.4%) | 13/69 (18.8%) | 0.8281 |
| ≥ 75 mmol/mol (9 %) | | 163/641 (25.4%) | 46/205 (22.4%) | 0.2645 | 196/777 (25.2%) | 13/69 (18.8%) | 0.6355 |
| Hypertension | 1299 | 704/924 (76.2%) | 299/375 (79.7%) | 0.1682 | 886/1162 (76.2%) | 117/137 (85.4%) | 0.0171 |
| Dyslipidemia | 1255 | 454/899 (50.5%) | 186/356 (52.2%) | 0.5769 | 567/1123 (50.5%) | 73/132 (55.3%) | 0.2959 |
| Tobacco use | 1029 | | | 0.2049 | | | 0.9249 |
| Never | | 431/742 (58.1%) | 151/287 (52.6%) | | 530/936 (56.6%) | 52/93 (55.9%) | |
| Former | | 274/742 (36.9%) | 116/287 (40.4%) | 0.1937 | 355/936 (37.9%) | 35/93 (37.6%) | 0.9831 |
| Current | | 37/742 (5.0%) | 20/287 (7.0%) | 0.1391 | 51/936 (5.4%) | 6/93 (6.5%) | 0.6901 |
| Long-term diabetes complications | | | | | | | |
| Microvascular complications | 883 | 297/657 (45.2%) | 116/226 (51.3%) | 0.1120 | 345/798 (43.2%) | 68/85 (80.0%) | <0.0001 |
| Severe diabetic retinopathy | 954 | 46/701 (6.6%) | 20/253 (7.9%) | 0.4711 | 55/864 (6.4%) | 11/90 (12.2%) | 0.0409 |
| Diabetic kidney disease | 1066 | 256/773 (33.1%) | 99/293 (33.8%) | 0.8357 | 297/967 (30.7%) | 58/99 (58.6%) | <0.0001 |
| History of Diabetic Foot Ulcer | 1232 | 60/887 (6.8%) | 16/345 (4.6%) | 0.1661 | 65/1106 (5.9%) | 11/126 (8.7%) | 0.2104 |
| Macrovascular complications | 1189 | 338/852 (39.7%) | 147/337 (43.6%) | 0.2120 | 399/1063 (37.5%) | 86/126 (68.3%) | <0.0001 |
| Ischemic heart disease (ACS/CAR) | 1251 | 237/890 (26.6%) | 99/361 (27.4%) | 0.7739 | 274/1117 (24.5%) | 62/134 (46.3%) | <0.0001 |
| Cerebrovascular disease (stroke or IAT) | 1267 | 116/907 (12.8%) | 47/360 (13.1%) | 0.8985 | 133/1134 (11.7%) | 30/133 (22.6%) | 0.0005 |
| Peripheral artery disease (Major amputation/LLAR) | 1285 | 106/917 (11.6%) | 39/368 (10.6%) | 0.6225 | 120/1151 (10.4%) | 25/134 (18.7%) | 0.005 |
| Comorbidities | | | | | | | |
| Heart failure | 1206 | 106/861 (12.3%) | 34/345 (9.9%) | 0.2298 | 114/1083 (10.5%) | 26/123 (21.1%) | 0.0007 |
| NAFLD or liver cirrhosis | 1107 | 82/805 (10.2%) | 37/302 (12.3%) | 0.3238 | 110/994 (11.1%) | 9/113 (8.0%) | 0.3155 |
| Active Cancer | 1282 | 136/915 (14.9%) | 58/367 (15.8%) | 0.6711 | 166/1147 (14.5%) | 28/135 (20.7%) | 0.0561 |
| COPD | 1278 | 96/913 (10.5%) | 37/365 (10.1%) | 0.8417 | 115/1142 (10.1%) | 18/136 (13.2%) | 0.2548 |
| Treated OSA | 1189 | 94/857 (11.0%) | 50/332 (15.1%) | 0.0533 | 120/1061 (11.3%) | 24/128 (18.8%) | 0.0160 |
| Organ graft | 1302 | 26/925 (2.8%) | 12/377 (3.2%) | 0.7176 | 36/1164 (3.1%) | 2/138 (1.4%) | 0.2899 |
| End stage renal failure | 831 | 48/608 (7.9%) | 12/223 (5.4%) | 0.2176 | 55/728 (7.6%) | 5/103 (4.9%) | 0.3256 |

| Routine treatment before admission | | | | | | | |
|---------------------------------------|------|-----------------|-----------------|--------|------------------|----------------|---------|
| Metformin | 1317 | 533/935 (57.0%) | 213/382 (55.8%) | 0.6788 | 683/1177 (58.0%) | 63/140 (45.0%) | 0.0035 |
| Sulfonylurea/glinides | 1317 | 259/935 (27.7%) | 108/382 (28.3%) | 0.8337 | 335/1177 (28.5%) | 32/140 (22.9%) | 0.1632 |
| DPP4-inhibitors | 1317 | 202/935 (21.6%) | 83/382 (21.7%) | 0.9606 | 258/1177 (21.9%) | 27/140 (19.3%) | 0.4746 |
| GLP1-RA | 1317 | 80/935 (8.6%) | 43/382 (11.3%) | 0.1276 | 114/1177 (9.7%) | 9/140 (6.4%) | 0.2141 |
| Insulin | 1317 | 357/935 (38.2%) | 147/382 (38.5%) | 0.9191 | 434/1177 (36.9%) | 70/140 (50.0%) | 0.0027 |
| Loop diuretics | 1317 | 175/935 (18.7%) | 77/382 (20.2%) | 0.5465 | 204/1177 (17.3%) | 48/140 (34.3%) | <0.0001 |
| Thiazide diuretics | 1317 | 186/935 (19.9%) | 81/382 (21.2%) | 0.5913 | 239/1177 (20.3%) | 28/140 (20.0%) | 0.9322 |
| Potassium-sparing diuretics | 1317 | 40/935 (4.3%) | 19/382 (5.0%) | 0.5800 | 49/1177 (4.2%) | 10/140 (7.1%) | 0.1116 |
| MRA | 1317 | 38/935 (4.1%) | 15/382 (3.9%) | 0.9083 | 43/1177 (3.7%) | 10/140 (7.1%) | 0.0514 |
| Beta blockers | 1317 | 312/935 (33.4%) | 130/382 (34.0%) | 0.8173 | 377/1177 (32.0%) | 65/140 (46.4%) | 0.0007 |
| ACE inhibitors | 1317 | 243/935 (26.0%) | 111/382 (29.1%) | 0.2546 | 307/1177 (26.1%) | 47/140 (33.6%) | 0.0599 |
| ARBs | 1317 | 265/935 (28.3%) | 124/382 (32.5%) | 0.1374 | 344/1177 (29.2%) | 45/140 (32.1%) | 0.4749 |
| ARBs and/or ACE inhibitors | 1317 | 505/935 (54.0%) | 232/382 (60.7%) | 0.0259 | 645/1177 (54.8%) | 92/140 (65.7%) | 0.0146 |
| ARBs and/or ACE inhibitors and/or MRA | 1317 | 517/935 (55.3%) | 235/382 (61.5%) | 0.0386 | 657/1177 (55.8%) | 95/140 (67.9%) | 0.0070 |
| Statins | 1317 | 443/935 (47.4%) | 184/382 (48.2%) | 0.7950 | 555/1177 (47.2%) | 72/140 (51.4%) | 0.3388 |

Data are presented as numbers (%) and mean \pm SD, or median (25th; 75th percentile) if not normally distributed.

P values are calculated using Wald test (univariate logistic regression).

Ethnicity: EU (Europid), MENA (Middle East North Africa); AC (African or Caribbean), AS (Asian); Glycated A1c corresponds to the glycated hemoglobin determined in the 6 months prior to or in the first 7 days following hospital admission; GLP1-RA, Glucagon-like Peptide-Receptor Agonist; ACS, acute coronary syndrome; CAR, coronary artery revascularization ; IAT, ischemic transient accident; LLAR, lower limb artery revascularization; COPD, chronic obstructive pulmonary disease; OSA, obstructive sleep apnea. DKD, defined as eGFR 60 mL/min/1.73 m² or lower and/or proteinuria; NAFLD, non-alcoholic fatty liver disease; DPP4, Dipeptidyl peptidase 4; GLP-1RA, Glucagon-Like Peptide 1-Receptor Agonist; diuretics; ACE Inhibitors, angiotensin converting enzyme-inhibitors; ARB, angiotensin-2 receptor blocker; MRA, mineralocorticoid-receptor antagonist (i.e. spironolactone and eplerenone)

ESM Table 2. COVID-19-related clinical, radiological and biological characteristics on admission in CORONADO participants, according to primary outcome (tracheal intubation and/or death) and death, on day 7

| | Number of persons with available data | Primary outcome at day 7 | | | Death at day 7 | | |
|---|---------------------------------------|--------------------------|---------------------|----------------|--------------------|---------------------|----------------|
| | | No (N= 935) | Yes (N= 382) | <i>P value</i> | No (N = 1177) | Yes (N= 140) | <i>P value</i> |
| COVID-19 symptoms | 1313 | 865/932 (92.8%) | 372/381 (97.6%) | 0.0012 | 1102/1174 (93.9%) | 135/139 (97.1%) | 0.1296 |
| Time between symptom onset and hospital admission (days) | 1302 | 5 [2; 8] | 5 [2; 8] | 0.5319 | 5 [2; 8] | 3 [1; 6] | 0.0119 |
| Clinical presentation | | | | | | | |
| Fever | 1288 | 711/917 (77.5%) | 292/371 (78.7%) | 0.6467 | 904/1152 (78.5%) | 99/136 (72.8%) | 0.1326 |
| Fatigue | 1239 | 545/887 (61.4%) | 228/352 (64.8%) | 0.2754 | 690/1111 (62.1%) | 83/128 (64.8%) | 0.5450 |
| Cough | 1270 | 628/914 (68.7%) | 244/356 (68.5%) | 0.9533 | 787/1141 (69.0%) | 85/129 (65.9%) | 0.4745 |
| Cephalalgia | 1193 | 118/864 (13.7%) | 39/329 (11.9%) | 0.4107 | 149/1072 (13.9%) | 8/121 (6.6%) | 0.0285 |
| Dyspnea | 1292 | 513/919 (55.8%) | 285/373 (76.4%) | <0.0001 | 692/1155 (59.9%) | 106/137 (77.4%) | 0.0001 |
| Rhinitis and/or pharyngeal signs | 1178 | 85/851 (10.0%) | 26/327 (8.0%) | 0.2849 | 106/1059 (10.0%) | 5/119 (4.2%) | 0.0469 |
| Agueusia and/or Anosmia | 1073 | 106/781 (13.6%) | 30/292 (10.3%) | 0.1496 | 131/973 (13.5%) | 5/100 (5.0%) | 0.0206 |
| Digestive disorders | 1236 | 317/887 (35.7%) | 110/349 (31.5%) | 0.1605 | 386/1108 (34.8%) | 41/128 (32%) | 0.5274 |
| Chest CT imaging | | | | | | | |
| Abnormal chest CT | 896 | 609/648 (94.0%) | 235/248 (94.8%) | 0.6567 | 763/815 (93.6%) | 81/81 (100%) | - |
| Ground-glass opacity/crazy paving | 818 | 522/589 (88.6%) | 214/229 (93.4%) | 0.0416 | 663/740 (89.6%) | 73/78 (93.6%) | 0.2690 |
| Biological findings | | | | | | | |
| Positive SARS-CoV-2 PCR | 1268 | 865/900 (96.1%) | 362/368 (98.4%) | 0.0455 | 1094/1132 (96.6%) | 133/136 (97.8%) | 0.4767 |
| Admission plasma glucose (mmol/l) | 940 | 8.80 [6.70; 12.10] | 10.30 [7.10; 14.53] | 0.0005 | 9.00 [6.80; 12.44] | 10.40 [7.16; 13.90] | 0.0775 |
| Plasma creatinine (μmol/l) | 1196 | 88.0 [67.0; 125] | 100 [73.5; 150] | 0.0005 | 89.0 [67.6; 126] | 123 [86.5; 177] | <0.0001 |
| eGFR (CKD-EPI) (ml/min/1.73 m ²) | 1196 | 72.0 [44.6; 90.6] | 59.4 [36.9; 85.5] | 0.0016 | 72.0 [44.9; 91.5] | 43.1 [29.7; 69.0] | <0.0001 |
| ALT (%ULN) | 1068 | 0.58 [0.40; 0.94] | 0.71 [0.46; 1.10] | 0.0007 | 0.62 [0.42; 1.00] | 0.58 [0.38; 0.81] | 0.1354 |
| AST (%ULN) | 1053 | 0.97 [0.68; 1.34] | 1.32 [0.94; 1.96] | <0.0001 | 1.03 [0.74; 1.46] | 1.27 [0.93; 1.86] | 0.0005 |
| GGT (%ULN) | 983 | 0.92 [0.55; 1.60] | 1.11 [0.62; 2.07] | 0.0009 | 0.95 [0.56; 1.77] | 0.83 [0.51; 1.50] | 0.7801 |
| Hemoglobin (g/dl) | 1276 | 12.9 [11.5; 14.3] | 12.8 [11.3; 14.4] | 0.3924 | 12.9 [11.4; 14.3] | 12.7 [11.1; 14.3] | 0.6311 |
| White cell count (10 ³ /mm ³) | 1269 | 6320 [4870; 8400] | 6650 [5118; 9400] | 0.0001 | 6400 [4890; 8462] | 7380 [5530; 10100] | 0.0001 |
| Lymphocyte count (10 ³ /mm ³) | 1211 | 1030 [700; 1492] | 820 [595; 1200] | <0.0001 | 1000 [700; 1408] | 880 [500; 1150] | 0.0075 |
| Platelet count (10 ³ /mm ³) | 1273 | 198 [156; 249] | 182 [142; 233] | 0.0134 | 194 [152; 246] | 176 [136; 238] | 0.0860 |
| D-dimers (μg/l) | 397 | 820 [364; 1570] | 850 [330; 1732] | 0.5155 | 809 [337; 1568] | 1130 [639; 1746] | 0.2742 |
| C reactive protein, (mg/l) | 1208 | 66 [31.1; 119] | 110.4 [68.8; 179.5] | <0.0001 | 75 [36; 127] | 113 [54; 179.3] | 0.0002 |
| LDH (UI/l) | 566 | 323 [249; 425] | 440 [334; 638] | <0.0001 | 342 [265; 474] | 451 [352; 638] | 0.0142 |
| CPK (UI/l) | 549 | 122 [64; 265] | 204 [100; 455] | <0.0001 | 134 [69; 295] | 253 [150; 522] | <0.0001 |
| Fibrinogen (g/l) | 658 | 5.8 [4.7; 7.0] | 6.3 [5.2; 7.4] | 0.0037 | 6 [4.8; 7.2] | 6.2 [5.0; 6.8] | 0.6810 |

Data are presented as numbers (%) and mean ± SD, or median (25th; 75th percentile) if not normally distributed. P values are calculated using Wald test (univariate logistic regression).

eGFR, estimated glomerular filtration rate, according to the CKD-EPI formula; ALT, alanine aminotransferase; AST, aspartate aminotransferase; GGT, gamma-glutamyl transferase; LDH, lactate dehydrogenase; CPK, creatine phosphokinase; CRP, C reactive protein; ULN, Upper limit of normal;

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DATA SHARING STATEMENT

[What data will be made available \(deidentified participant data, participant data with identifiers, data dictionary, or other specified data set\):](#)

No sharing of participant data is allowed by our regulatory authorities. So far, French regulations have not validated deidentified data or avatar for data sharing. Our statement might be modified in case French law changes.

[Whether additional, related documents will be available \(eg, study protocol, statistical analysis plan, informed consent form\)](#)

We will be happy to share study protocol, SAP and information document.

• [When these data will be available \(beginning and end date, or “with publication”, as applicable\)](#)

Study protocol, SAP and information document will be made available with publication.

Data dictionary will be made available Summer 2020 (JULY 15th)

• [Where the data will be made available \(including complete URLs or email addresses if relevant\);](#)

The CORONADO website is not active yet but we will give access to the scientific committee through our website, as soon as it is launched.

Direct requests can be directed to PI (bertrand.cariou@univ-nantes.fr) or Chairman of the scientific committee (samy.hadjadj@univ-nantes.fr)

• [By what access criteria data will be shared \(including with whom, for what types of analyses, by what mechanism – eg, with or without investigator support, after approval of a proposal, with a signed data access agreement - or any additional restrictions\).](#)

Our data-base is open for any collaborative work with priority to academic partnership. Any proposal for collaboration requires examination by the scientific committee and the sponsor (CHU Nantes). A structured application proposal for collaboration will be available on request.