### Supplemental Digital Content

1. Baseline demographics and risk factors in alive vs deceased patients

| Baseline Characteristics | Total | Alive | Dead | p         |
|--------------------------|-------|-------|------|-----------|
|                          | N=298 | n=169 | n=129|           |
| **Demographics**         |       |       |      |           |
| Age mean (SD)            | 51.9±16.5 | 60.2±16.9 | <0.001|           |
| Male n (%)               | 169 (57) | 89 (53) | 80 (62) | 0.249 |
| White n (%)              | 161 (54) | 88 (52) | 73 (57) | 0.173 |
| Black n (%)              | 109 (37) | 62 (37) | 47 (36) | 0.811 |
| Body mass index mean (SD)| 29.4±8.65 | 32.4±10.6 | 0.007|           |
| **Comorbidities**        |       |       |      |           |
| COPD n (%)               | 71 (25) | 36 (22) | 35 (27) | 0.342 |
| Asthma n (%)             | 35 (13) | 25 (16) | 10 (8)  | 0.069 |
| Obstructive sleep apnea n (%) | 35 (13) | 22 (14) | 13 (11) | 0.470 |
| On home oxygen n (%)     | 36 (14) | 18 (12) | 18 (14) | 0.454 |
| Diabetes mellitus n (%)  | 105 (36) | 63 (38) | 42 (33) | 0.333 |
| HTN n (%)                | 186 (62) | 102 (60) | 84 (65) | 0.725 |
| CKD n (%)                | 75 (26)  | 33 (20)  | 42 (33) | 0.023 |
| CAD n (%)                | 46 (17)  | 22 (14)  | 24 (19) | 0.262 |
| CHF n (%)                | 48 (18)  | 26 (16)  | 22 (17) | 0.875 |
| Tobacco use n (%)        | 171 (58) | 95 (56)  | 76 (59) | 0.999 |
| Prior VTE n (%)          | 64 (21)  | 40 (24)  | 24 (19) | 0.259 |
| **Severity of illness**  |       |       |      |           |
| AKI prior to ICU admit n (%) | 140 (48) | 76 (45) | 64 (50) | 0.616 |
| AKI on day 1 of MV n (%) | 138 (47) | 67 (40) | 71 (55) | 0.020 |
| AKI stage on day 1 of MV n (%) |        |          | 0.012|
| Stage 1                  | 49 (17) | 25 (16) | 24 (20) |       |
| Stage 2                  | 47 (15) | 24 (15) | 23 (18) |       |
|                                | Stage 3 |        |        |        |
|--------------------------------|---------|--------|--------|--------|
|                                | 42 (14) | 18 (12)| 24 (19)|        |
| sCr on admit to ICU – mg/dL    | mean (SD)| 1.54±1.35| 1.90±1.52| **0.038** |
| sCr on day 1 of MV – mg/dL     | mean (SD)| 1.56±1.40| 1.93±1.51| **0.003** |
| UO on admit to ICU – cc/kg/hr  | mean (SD)|        |        |        |
| UO on day 1 of MV – cc/kg/hr   | mean (SD)| 1.05±0.870| 0.480±0.516| **<0.001** |
| Bicarbonate on day 1 of MV – mEq/L| mean (SD)| 22.5±5.71| 20.5±5.16| **0.001** |
| pH on day 1 of MV              | mean (SD)| 7.31±0.12| 7.28±0.13| 0.057 |
| ARDS severity                  | n (%)   | 90 (53) | 50 (39) | **0.006** |
| Moderate                       |         |        |        |        |
| Severe                         |         | 79 (47) | 84 (65) | **0.006** |
| pCO2 on day 1 of MV            | mean (SD)| 45.2±13.5| 46.4±28| 0.615 |
| Net I/O on day 1 of MV – Liters| mean (SD)| 2.54±4.25| 2.70±4.63| 0.761 |
| Net I/O on day 3 of MV – Liters| mean (SD)| 2.56±5.4| 3.28±5.4| 0.275 |
| P/F on day 1 of MV             | mean (SD)| 157±110| 153±128| 0.269 |
| P/F on day 3 of MV             | mean (SD)| 180±106| 158±96| 0.086 |
| SOFA on admit to ICU           | mean (SD)| 9.98±3.11| 11.9±3.63| **<0.001** |

COPD, Chronic Obstructive Pulmonary Disease; HTN, hypertension; CKD, chronic kidney disease; CAD, coronary artery disease; CHF, congestive heart failure; VTE, venous thromboembolism; AKI, acute kidney injury; ICU, intensive care unit; MV, mechanical ventilation; sCr, serum creatinine; UO, urine output, ARDS, acute respiratory distress syndrome; pCO2, partial pressure of arterial carbon dioxide; I/O, intake and output; P/F, partial pressure of arterial oxygen/fractional percentage of inspired oxygen; SOFA, sequential organ failure assessment; mg, milligrams; dL, deciliter; mEq, milliequivalents; L, liters. Significant p values < 0.05 are bolded.