**Supplemental Table 2. Characteristics of the 35 patients assessed at day-5 for diaphragm atrophy according to type of ventilation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | All patients(n=35) | MV (n=28) | SB(n=7) | *p* value |
| Age (years) | 73 (60, 80) | 71 (57, 80) | 79 (69, 83) | 0.087 |
| Male sex | 28 (80%) | 21 (75%) | 7 (100%) | 0.300 |
| BMI (Kg.m,2) | 24 (22, 28) | 24 (22, 27) | 28 (17, 29) | 0.915 |
| *Comorbidity* |  |  |  |  |
| Heart disease | 14 (40%) | 10 (36%) | 4 (7%) | 0.387 |
| Hypertension | 12 (34%) | 10 (36%) | 2 (29%) | >0.999 |
| Smoking | 13 (37%) | 10 (36%) | 3 (43%) | >0.999 |
| COPD | 12 (34%) | 10 (36%) | 2 (29%) | >0.999 |
| Diabetes | 8 (23%) | 7 (25%) | 1 (14%) | >0.999 |
| *Characteristics at inclusion* |  |  |  |  |
| SAPS II  | 57 (43,65) | 57 (45,72) | 52 (36,59) | 0.127 |
| SOFA score  | 8 (4,9) | 8 (6,10) | 4 (2,9) | 0.027 |
| Noradrenalin | 23 (66%) | 22 (79%) | 1 (14%) | 0.004 |
| Lactate (mmol.l-1) | 1.7 (1.2, 4.3) | 2.1 (1.3, 4.3) | 1.1 (0, 3.5) | 0.075 |
| Sepsis | 24 (69%) | 23 (82%) | 1 (14%) | 0.002 |
| Septic shock | 14 (40%) | 13 (46%) | 1 (14%) | 0.210 |
| *Diaphragm thickness*  |  |  |  |  |
| at day-1 (mm) | 2.5 (2.1, 3.0) | 2.4 (2.1, 3.0) | 2.7 (2.1, 2.9) | 0.885 |
| at day-5 (mm) | ‎2.1 (1.9, 2.5) | 2.1 (1.9, 2.4) | 2.4 (2, 3.1) | 0.161 |
| Diaphragm atrophy (%) | -10 (-19, 0) | -11 (-20, 0) | -5 (-8, 8) | 0.048 |
| *Pectoral thickness* |  |  |  |  |
| at day-1 (mm) | 5.6 (4.7, 7.0) | 5.7 (5, 7.4) | 4.7 (3.6,6.3) | 0.028 |
| at day-5 (mm) | 5.9 (4.9, 7.0) | 6.0 (5.0, 7.0) | 5.4 (3.9, 7.0) | 0.353 |
| Pectoral atrophy (%) | - 3 (-13, 8) | -5 (-12, 5) | 3 (-15, 35) | 0.403 |

*Data are n (%) or median (IQR); MV, mechanical ventilation; SB, spontaneous breathing; BMI, Body Mass Index; SAPS II, Simplified Acute Physiology Score II; SOFA, Sequential Organ Failure Assessment.*