### Supplemental content - Table 3. Univariable analysis of mortality upon ICU discharge

| VARIABLE                                      | Odds Ratio | 95% Confidence Interval | p      |
|------------------------------------------------|------------|--------------------------|--------|
| **General**                                   |            |                          |        |
| Age (years)                                   | 1.02       | 0.99-1.04                | 0.18   |
| Sex (male)                                    | 1.08       | 0.53-2.20                | 0.82   |
| **SRD Characteristics**                       |            |                          |        |
| SLE                                           | 0.69       | 0.29-1.64                | 0.40   |
| SSc                                           | 1.65       | 0.58-7.71                | 0.35   |
| Vasculitis                                    | 0.95       | 0.31-2.89                | 0.92   |
| Inflammatory Myopathies                       | 1.30       | 0.35-4.74                | 0.69   |
| **Comorbidities**                             |            |                          |        |
| Charlson comorbidity index                    | 1.07       | 0.94-1.22                | 0.33   |
| History of myocardial infarction              | **2.54**   | **1.26-5.14**            | **0.009** |
| Chronic lung disease                          | 1.12       | 0.56-2.25                | 0.75   |
| Chronic heart failure                         | **2.38**   | **1.08-5.25**            | **0.03** |
| Chronic kidney disease                        | 1.37       | 0.58-3.21                | 0.47   |
| **Organ Failures at ICU admission**           |            |                          |        |
| SAPS-II                                       | **1.05**   | **1.03-1.07**            | <0.0001|
| SOFA score                                    | **1.29**   | **1.15-1.44**            | <0.0001|
| Shock                                         | **4.66**   | **2.17-10.02**           | <0.0001|
| Acute respiratory failure                     | 1.19       | 0.55-2.61                | 0.66   |
| Acute neurological failure                    | **3.11**   | **1.42-6.81**            | **0.005**|
| Acute kidney injury                           | 1.01       | 0.42-2.44                | 0.98   |
| **Cause of ICU admission**                    |            |                          |        |
| SRD flare-up                                  | 1.08       | 0.47-2.48                | 0.85   |
| Non SRD-related and non-septic acute critical illness | **2.56** | **1.12-5.84**            | **0.03**|
### Immunosuppressive treatment at ICU admission

| Description                                                                 | Odds Ratio | 95% CI       | p-value  |
|------------------------------------------------------------------------------|------------|--------------|----------|
| Steroid dose ≥ 20mg              | 0.52       | 0.21-1.31    | 0.16     |
| (reference: absence of steroid or dose < 20mg)                               |            |              |          |
| Treatment with non-steroid immunosuppressive drugs | 1.25       | 0.64-2.47    | 0.51     |
| (reference: absence of non-steroid drug)                                     |            |              |          |

### ICU stay

| Description                                                                 | Odds Ratio | 95% CI       | p-value  |
|------------------------------------------------------------------------------|------------|--------------|----------|
| New organ failures after the first 24 hours                                  | 19.28      | 5.77-64.47   | <0.0001  |
| (reference: absence of new organ failure)                                    |            |              |          |
| Renal replacement therapy                                                     | 2.26       | 1.09-4.70    | 0.03     |
| (reference: absence of renal replacement therapy)                            |            |              |          |
| Invasive Mechanical ventilation                                               | 9.27       | 3.73-23.03   | <0.0001  |
| (reference: absence of invasive ventilation)                                 |            |              |          |
| Nosocomial ICU-acquired sepsis                                                | 1.53       | 0.74-3.18    | 0.25     |
| (reference: absence of nosocomial sepsis)                                    |            |              |          |
| Cardiovascular event occurring during ICU stay                               | 1.63       | 0.82-3.23    | 0.16     |
| (reference: absence of cardiovascular event)                                |            |              |          |

**Abbreviations:**
- ICU: intensive care unit
- RA: rheumatoid arthritis
- SAPS II: simplified acute physiology score II
- SOFA: sequential organ failure assessment
- SLE: systemic lupus erythematosus
- SRD: systemic rheumatic disease
- SS: Sjögren Syndrome
- SSc: systemic sclerosis

- **a** < 2 months before ICU admission
- **b** ≥ 2 months before ICU admission
- **c** Occurring during the first 24 hours after ICU admission
- **d** At ICU admission
- **e** Hypotension requiring vasoactive drugs (epinephrine, norepinephrine)
- **f** $\text{PaO}_2 (\text{mmHg})/\text{FiO}_2 < 300$ or assisted ventilation
- **g** Creatininemia > 170 $\mu$mol/L or urine output < 500mL/24h
- **h** Glasgow conscience score < 13
- **i** Equivalent prednisone daily
- **j** Among methotrexate, azathioprine, cyclophosphamide, leflunomide, cyclosporine, tacrolimus, mycophenolate mofetil, mycofenolic acid, Tumor Necrosis Factor $\alpha$-blockers, Interleukin 6-blockers, or B-cell depletion
- **k** Occuring after the first 48h after ICU admission
- **l** Acute coronary syndrome, acute cardiac rhythm disorder, or stroke

Statistically significant comparisons are bold