**Table S1:** **Healthcare utilization according to deprivation status**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **All****(N=1294)** | **Non deprived****(n=665)** | **Deprived****(n=629)** | **p** |
| **Number of consultations with a general practitioner in the previous 12 months †** |  |  |  | 0.029 |
| ≤ 2 | 231 (18.4%) | 128(19.8%) | 103(17.0%) |  |
| 3-5  | 411 (32.8%) | 227(35.1%) | 184(30.4%) |  |
| > 5  | 611 (48.8%) | 292(45.1%) | 319(52.6%) |  |
| **Number of consultations with a specialist in the previous 12 months †** |  |  |  | 0.013 |
| None | 382 (31.4%) | 184(29.2%) | 198(33.7%) |  |
| 1-2 | 441 (36.2%) | 253 (40.2%) | 188 (32.0%) |  |
| >=3 | 394(32.4%) | 193(30.6%) | 201(34.2%) |  |
| **Number of consultations with a dentist in the previous 12 months †** |  |  |  | <10-3 |
| None | 674(56.1%) | 300(47.9%) | 374(64.9%) |  |
| 1 | 356(29.6%) | 219(35.0%) | 137(23.8%) |  |
| >=2 | 172(14.3%) | 107(17.1%) | 65(11.3%) |  |
| **Hospitalized for at least 24 hours during the previous 12 months†** | 610(48.1%) | 287(43.8%) | 323(52.9%) | 0.001 |

**†** Missing data : consultations with general practitioner n=41 ; consultations with specialist n=77 ; consultations with dentist n=92 ; hospitalization in previous 12 months n=27.

**Table S2**: Impact of deprivation on SAPS II: β estimates from multivariable linear regression model 1) after multiple imputation procedure and 2) after analysis on complete cases

|  |  |  |
| --- | --- | --- |
|  | Imputed data population (n=1389) | Complete case population (n=1250) |
|  | Adjusted β \* [95% CI] | p | Adjusted β \*[95% CI] | p |
| No deprived | Reference |  | Reference |  |
| Deprived | -1.68[—-3.77;+0.42] | 0.12 | -1.85[-3.86; +0.16] | 0.072 |

\* Adjusted for age, sex, level of education, Charlson comorbidity index and ADL score and center

**Table S3:** **Comparison of management in ICU according to deprivation status**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Bivariable analysis** | **Multivariable analysis** |
|  | **All (N=1294)** | **Non deprived****(n=665)** | **Deprived****(n=629)** | **OR crude** | **95% CI** | **ORa** | **95% CI** |
| **Type of Management, n(%)** |  |  |  |  |  |  |  |
| Mechanical ventilation | 937(72.4%) | 508(76.4%) | 429(68.2%) | 0.66 | [0.52-0.85] | 0.79 | [0.60-1.04] |
| High flow nasal cannula **†** | 100(7.7%) | 56(8.4%) | 44(7.0%) | 0.82 | [0.54-1.23] | 0.84 | [0.55-1.29] |
| Vasopressors **†**  | 819(63.3%) | 439(66.1%) | 380(60.4%) | 0.78 | [0.62-0.98] | 0.91 | [0.69-1.19] |
| Inotropic agents | 212(16.4%) | 111(16.7%) | 101(16.1%) | 0.96 | [0.71-1.28] | 0.93 | [0.68-1.26] |
| Renal replacement therapy (continuous or intermittent) **†**  | 280(21.7%) | 147(22.1%) | 133(21.2%) | 0.95 | [0.73-1.23] | 1.01 | [0.76-1.35] |
| Withholding or withdrawal of treatment  | 155(12.0%) | 85 (12.8%) | 70 (11.1%) | 0.85 | [0.61-1.20] | 0.82 | [0.57-1.18] |

**†**Misssing data : High flow nasal cannula (n=1), vasopressors (n=1), renal replacement therapy (n=1)

CPAP, continuous positive airway pressure

\*Multivariable analysis was adjusted for SAPS II, septic shock, cardiogenic shock and center. Ajusted OR (Ora) models the probability of each type of management according to deprivation status (reference = no deprivation)

**Table S4**: Impact of deprivation on mortality: OR estimates from multivariable logistic regression model

1) after multiple imputation procedure and 2) after analysis on complete cases

|  |  |  |
| --- | --- | --- |
|  | Imputed data population(n=1389) | Complete case population(n=1277) |
|  | Adjusted ORa [95% CI] | P | Adjusted ORa [95% CI] | P |
| **3 months** |  |  |  |  |
| No deprived | Reference |  | Reference |  |
| Deprived | 1.02 [0.89; 1.17] | 0.79 | 1.04 [0.79; 1.37] | 0.80 |
| **6 months** |  |  |  |  |
| No deprived | Reference |  | Reference |  |
| Deprived | 0.99[0.87;1.13] | 0.91 | 0.97 [0.75; 1.27] | 0.84 |
| **12 months** |  |  |  |  |
| No deprived | Reference |  | Reference |  |
| Deprived | 1.04 [0.91; 1.18] | 0.61 | 1.06 [0.82; 1.37] | 0.67 |

Adjusted for age, SAPS II score, Katz’s ADL, Charlson comorbidity index and centre