Online Resource 8. Patient characteristics: completeness of data

Characteristic	Available data Number (%)	Missing values Number	Handling of missing data
Total number of patients = 13,254			
Sex	13,252 (99.98)	2	None
Body weight	12,563 (94.79)	691	Imputed with median
Body length	12,787 (96.48)	467	Imputed with median
Mechanical ventilation on ICU admission	13,213 (99.70)	41	None
Type of admission	13,239 (99.89)	15	Deduced from other variables reported where possible
Reason for ICU admission	13,231 (99.83)	23	Deduced from other variables reported where possible
Simplified Acute Physiology Score II			
Age	13,250 (99.97)	4	Imputed with median
Heart rate	13,227 (99.80)	27	Imputed with median
Systolic blood pressure	13,209 (99.67)	45	Imputed with median
Body temperature	13,188 (99.5)	66	Imputed with median
Glasgow coma scale	12,738 (96.11)	516	Imputed with median
PaO_2/FiO_2	13,211 (99.68)	43	None
Serum urea	12,027 (90.74)	1227	Imputed with median
Urine output	12,922 (97.5)	332	Imputed with median
Sodium	12,795 (96.54)	459	Imputed with median
Potassium	12,802 (96.59)	452	Imputed with median
Bicarbonate	11,337 (85.54)	1917	Imputed with median
Bilirubin	10,753 (81.13)	2501	Imputed with median
White blood cell count	12,483 (94.18)	771	Imputed with median

Chronic disease	13,254 (100)	0	None
Braden score	13,174 (99.40)	80	None
Number of patients per nurse	12,747 (96.17)	507	None
Date of ICU admission	13,239 (99.89)	15	None
Date of ICU discharge	12,837 (96.85)	417	None
Date of hospital discharge	12,017 (90.67)	1237	None
Hospital survival status	12,989 (98)	265	None

Abbreviation: ICU, intensive care unit

Deduction by other variables was only performed for categorical variables in the absence of inducing a potential error; e.g. if 'Type of admission' was missing while the reason for admission was 'COPD exacerbation', it was deduced that the type of admission would be 'medical'. All continuous variables were imputed by the overall median, except Glasgow Coma Scale because this scale is highly related to neurological pathology.