

eTable 3. Missing values and approach to imputation

Prognostic factor	Missing values, n (%)	Imputation model
Age *	0 (0)	N/A
Sex *	0 (0)	N/A
Ethnicity	377 (3.8)	Multinomial logistic regression
Quintile of deprivation	723 (7.2)	Multinomial logistic regression
Weight	318 (3.2)	Linear regression
Height	520 (5.2)	Linear regression
Any dependency prior to hospital admission	129 (1.3)	Logistic regression
Immunocompromise	108 (1.1)	Logistic regression
Sedated for entire of first 24h	6 (0.1)	Logistic regression
Highest temperature *	0 (0)	N/A
Lowest systolic blood pressure *	0 (0)	N/A
Highest heart rate *	0 (0)	N/A
Highest respiratory rate *	0 (0)	N/A
PaO ₂ /FiO ₂	484 (4.8)	Linear regression (log-transformed)
Mechanical ventilation †	0 (0)	N/A
Highest blood lactate concentration	475 (4.8)	Linear regression (log-transformed)
Highest serum creatinine	370 (3.7)	Linear regression (log-transformed)
Highest serum urea	427 (4.3)	Linear regression (log-transformed)
Lowest haemoglobin concentration	278 (2.8)	Linear regression
Lowest platelet count	329 (3.3)	Linear regression (log-transformed)

* Patients with missing data excluded

† Derived from respiratory rates and therefore patients with missing data excluded