Web only data supplements

Table: Patient case-mix factor associates of outcome.

OUTCOMES	**Inpatient death**	**Death < 90 days of admission**	**Readmission <90 days of admission**	**Length of stay >7 days**	**Length of stay >14 days**
PATIENTS*	7300	7261	6574 discharged	6534 discharged	6534 discharged
FINAL FACTOR SET IN STEPWISE SELECTION ORDER (all P<0.001, SPSS logistic regression)	Performance status SaO2 Blood urea pH Serum Albumin Age FEV1 Xray cancer Xray pneumonia	Performance status Blood urea Serum Albumin pH Age SaO2 Xray cancer Weight Smoking status	Previous admission Performance status FEV1 Xray cancer	Performance status SaO2 Age Serum Albumin Respiratory rate Living alone PCO2 Smoking status Gender	Performance status Serum Albumin Age SAO2 Respiratory rate Bic Blood urea Living alone
% VARIANCE (R^2) EXPLAINED:					
BY FINAL FACTOR SET	25%	21%	9%	13%	10%
BY ALL TABLE 2 FACTORS	29%	25%	11%	16%	13%
OTHER PROGNOSIC FACTORS, FROM UNIVARIATE ANALYSES (P<0.001)	Social circumstances, smoking status, weight, %pred FEV1, Blood creatinine, Bic, PO2, PCO2, respiratory rate	Previous admission, Social circumstances, xray pneumonia, xray other abnormality, change in volume of sputum, FEV1, %pred FEV1, blood creatinine, Bic, PCO2, PO2, respiratory rate,	Social circumstances, heart disease, smoking status, weight, %pred FEV1, Bic, PCO2	Admitting physician, social circumstances, heart disease, xray pneumonia, FEV1, %pred FEV1, blood urea, blood creatinine, Bic, pH, PO2,	Admitting physician, social circumstances, heart disease, smoking status, xray pneumonia, FEV1, %pred FEV1, blood creatinine, pH, PCO2

- 13 patients with missing age and/or gender were excluded

Bicarbonate (Bic), PCO2 and PO2 were all taken from the initial arterial blood gas sample where one was recorded.
Arterial oxygen saturation (SaO2) was taken from the first pulse oximetry measurement recorded at presentation.
The R2 statistic described by Nagelkerke was used to quantify the proportion of the explained variation in the regression model in keeping with previous work.