

## Supplement 2. Sensitivity analysis, also adjusting all outcomes for presenting complaint

Outcomes	Adjusted OR (CI) <sup>1</sup>
<b>Quality of care:</b>	
Complete set of vital signs <sup>a</sup>	1.476 (1.048-2.079)*
Pain assessment documented <sup>a</sup>	0.071 (0.036-0.139)**
Analgesic within 20 minutes <sup>a</sup> (n=266)	3.260 (1.318-8.064)*
Antibiotics within 60 minutes if sepsis <sup>a</sup> (n=167)	11.951 (4.490-31.811)**
<b>Resource use:</b>	
Diagnostic interventions > 3 <sup>a</sup>	0.804 (0.552-1.171)
Critical care in ED	10.138 (6.969-14.752)**
ED LOS < 180 minutes <sup>b</sup>	3.192 (2.146-4.749)**
<b>Patient outcome:</b>	
ICU admittance <sup>a</sup>	2.864 (1.962-4.181)**
ICU LOS < 66 hours <sup>a</sup> (n=457)	0.736 (0.377-1.439)
Hospital LOS < 194 hours <sup>b</sup>	0.991 (0.672-1.462)
Mortality <sup>b</sup>	1.859 (1.072-3.221)*

OR: Odds ratio, CI: confidence interval, ED: emergency department, LOS: length of stay, ICU: intensive care unit, \*p<0.05, \*\*p<0.001

<sup>1</sup> all adjusted for age, gender, Charlson comorbidity score, substance abuse or psychiatric history, deranged vital signs and presenting complaint

<sup>a</sup> adjusted for critical care in ED

<sup>b</sup> adjusted for critical care in ED and/or ICU admission