

<http://dx.doi.org/10.4338/ACI-2015-11-RA-0159>

SUPPLEMENTARY MATERIALS

Test performance of the severe sepsis alert using a billing code for severe sepsis or septic shock as the gold standard. Data reflects all inpatient encounters from November 1, 2013 – February 1, 2014 (N = 6,218).

Sensitivity	95.2% (92.5% - 97.4%)
Specificity	79.9% (78.8% - 80.9%)
Positive Predictive Value	18.8% (16.9% - 20.9%)
Negative Predictive Value	99.7% (99.5% - 99.9%)
Accuracy	80.6% (79.5% - 81.5%)

Alert performance using coding data. Presence or absence of severe sepsis was determined by the presence of an ICD-9 billing code for severe sepsis or septic shock (primary or secondary diagnosis) (N = 6,218).

Alert result	Severe sepsis present	Severe sepsis not present
Positive	276	1,193
Negative	14	4,735

Alert performance using chart review. A sample was validated using physician chart review to determine the presence or absence of severe sepsis. Unweighted and weighted (parentheses) data are presented (N = 175).

Alert result	Severe sepsis present	Severe sepsis not present
Positive	63 (738)	37 (730)
Negative	4 (253)	71 (4495)