

Appendix D. Performance of the ICD-10 coding algorithm by baseline hyponatremia status*

		Reference Standard			
		Hyponatremia (≤ 132 mmol/L) at the Hospital Encounter			
		Emergency Department (n= 32,916)		Hospital Admission (n= 39,373)	
ICD-10 E87.1 Coding Algorithm	Performance Measures	Baseline Hyponatremia (≤ 132 mmol/L)	No Baseline Hyponatremia (> 132 mmol/L)	Baseline Hyponatremia (≤ 132 mmol/L)	No Baseline Hyponatremia (> 132 mmol/L)
	Sensitivity % (95% CI)	11.55 (9.89-13.45)	5.35 (4.61-6.21)	16.89 (15.04-18.91)	7.56 (6.78-8.42)
	Specificity % (95% CI)	100.00 (99.54-100.00)	99.96 (99.93-99.98)	98.85 (97.96-99.36)	99.71 (99.65-99.76)
All Diagnosis	PPV % (95% CI)	100.00 (97.38-100.00)	93.68 (89.04-96.43)	95.67 (92.41-97.56)	76.13 (71.71-80.06)
	NPV % (95% CI)	43.00 (40.8-45.22)	90.60 (90.27-90.92)	44.19 (42.10-46.30)	89.87 (89.56-90.18)

Abbreviations: ICD-10, International Classification of Diseases, tenth revision; CI, confidence interval; PPV, positive predictive value; NPV, negative predictive value.
*Available for a subpopulation only.