

Appendix 6. Accuracy Parameters from Sensitivity Test of Case Definitions in BC CPCSSN

Definition	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)
1.1 MaRNet-FP 1 ICD9 code OR ACEI/ARB+BB+diuretic	93.1 (84.5, 97.7)	93.3 (89.4, 96.1)	80.7 (70.6, 88.6)	97.8 (95.0, 99.3)
1.2 MaRNet-FP Including billings	94.4 (86.4, 98.5)	90.8 (86.4, 94.1)	75.6 (65.4, 84.0)	98.2 (95.4, 99.5)
Expanding codes and testing iterations and specific combinations (British Columbia group 1)				
2.1 One expanded code AND specific medication	76.4 (64.9, 85.6)	92.9 (88.9, 95.8)	76.4 (64.9, 85.6)	92.9 (88.9, 95.8)
2.2 One expanded code only	93.1 (84.5, 97.7)	91.2 (86.9, 94.5)	76.1 (65.9, 84.6)	97.8 (94.8, 99.3)
2.3 Two expanded codes	83.3 (72.7, 91.1)	94.6 (90.9, 97.1)	82.2 (71.5, 90.2)	95.0 (91.4, 97.4)
2.4 Specific medication only	18.1 (10.0, 28.9)	99.6 (97.7, 100.0)	92.9 (66.1, 99.8)	80.1 (75.1, 84.5)
2.5 (2.1 or 2.3 or 2.4)	88.9 (79.3, 95.1)	92.1 (87.9, 95.1)	77.1 (66.6, 85.6)	96.5 (93.2, 98.5)
Furosemide (British Columbia group 2)				
3.1 (2.1 OR Furosemide)	83.3 (72.7, 91.1)	94.1 (90.4, 96.8)	81.1 (70.3, 89.3)	94.9 (91.3, 97.4)
3.2 (3.1 including billing)	91.7 (82.7, 96.9)	91.6 (87.4, 94.8)	76.7 (66.4, 85.2)	97.3 (94.3, 99.0)
Including low threshold natriuretic peptide				
4.1 (1.1 or low NP)	94.4 (86.4, 98.5)	88.7 (84.0, 92.4)	71.6 (61.4, 80.4)	98.1 (95.3, 99.5)
4.2 (1.2 or low NP)	95.8 (88.3, 99.1)	87.0 (82.1, 91.0)	69.0 (59.0, 77.9)	98.6 (95.9, 99.7)
4.3 (3.2 or low NP)	94.4 (86.4, 98.5)	87.0 (82.1, 91.0)	68.7 (58.6, 77.6)	98.1 (95.2, 99.5)
Including high threshold NP (High NP)				
5.1 (1.1 or high NP)	93.1 (84.5, 97.7)	92.9 (88.9, 95.8)	79.8 (69.6, 87.7)	97.8 (94.9, 99.3)
5.2 (1.2 or high NP)	94.4 (86.4, 98.5)	90.8 (86.4, 94.1)	75.6 (65.4, 84.0)	98.2 (95.4, 99.5)
5.3 (3.2 or high NP)	91.7 (82.7, 96.9)	91.6 (87.4, 94.8)	76.7 (66.4, 85.2)	97.3 (94.3, 99.0)

PPV: Positive Predictive Value; NPV: Negative Predictive Value; 95% CI: 95% Confidence Interval; NS: Nova Scotia Definition; NP: natriuretic peptide; exp: expanded ICD-9 codes (see Appendix 3); Rx: medications (see Appendix 3)