

Table 4. Demographic and enrollment characteristics of the gold standard sample (n=679)* and the overall Washington state Medicaid population between 2009 and 2011 (n=829,012) †

Characteristic	Gold Standard Sample n (%)	Overall Medicaid Population n (%)
Age as of 12/31/10		
<1 year ±	54 (8%)	47,718 (6%)
1-4 years ±	257 (38%)	205,469 (25%)
5-9 years ±	146 (22%)	217,360 (26%)
10-14 years ±	119 (17%)	191,674 (23%)
15-19 years ±	103 (15%)	166,791 (20%)
Male Gender ^	361 (53%)	416,628 (50%)
Race/ethnicity		
White ±	252 (37%)	413,784 (50%)
Hispanic	145 (21%)	201,025 (24%)
Other/Mixed ±	170 (25%)	139,792 (17%)
African American ±	89 (13%)	48,399 (6%)
Asian	23 (3%)	26,032 (3%)
Written Language		
English ±	497 (73%)	651,207 (79%)
Other ±	182 (27%)	177,805 (21%)
Coverage for majority of eligibility months		
Fee-for-service ±	318 (47%)	169,708 (20%)
Managed care ±	361 (53%)	659,304 (80%)
Months of medical assistance eligibility 2009-2011		
< 12 months ±	17 (3%)	43,707 (5%)
13-24 months ±	125 (18%)	185,536 (22%)
25-35 months ±	158 (23%)	219,559 (27%)
36 months ±	379 (56%)	380,210 (46%)
PMCA more conservative approach designation		
Complex chronic disease &	329 (47%)	51,851 (6%)
Non-complex chronic disease &	100 (14%)	134,764 (16%)
Without chronic disease &	249 (36%)	608,966 (74%)
Not classifiable &	1 (0%)	33,431 (4%)

* we had demographic data for 679 children and claims data for 678, resulting in different n for the text and table

† we used 3 years of claims data from 2009 to 2011 for children under age 19 on 7/1/10 with a minimum eligibility of 1 month in 2010 and 2 months in 2009-2011

± statistically significant based on the confidence interval for a proportion applied to the gold standard sample

^ 2 children had missing gender data

& statistical tests were not performed because we deliberately over-sampled children with complex chronic disease for the gold standard population.

Table 5. Sensitivity and specificity for COMBO and PMCA in managed care and fee-for-service subsets of Washington State Medicaid claims data

Approach Algorithm	C-CD		NC-CD		Without CD	
	Sensitivity	Specificity	Sensitivity	Specificity	Sensitivity	Specificity
Managed Care (n=360)*	N=73*	N=73*	N=74*	N=74*	N=213*	N=213*
Least COMBO	92%	84%	45%	82%	69%	88%
Least PMCA	92%	82%	39%	81%	69%	91%
More COMBO	82%	90%	46%	86%	81%	84%
More PMCA	89%	88%	49%	88%	81%	88%
Most COMBO	66%	95%	14%	97%	97%	50%
Most PMCA	74%	92%	15%	97%	95%	58%
Fee for service (n=318)*	N=256*	N=256*	N=26*	N=26*	N=36*	N=36*
Least COMBO	88%	66%	35%	91%	58%	94%
Least PMCA	91%	63%	31%	94%	67%	95%
More COMBO	85%	69%	38%	93%	75%	91%
More PMCA	89%	71%	35%	95%	78%	93%
Most COMBO	73%	74%	12%	92%	92%	81%
Most PMCA	79%	79%	19%	93%	94%	84%

*Number of children from the gold standard population included in the designated category

C-CD Complex chronic disease

NC-CD Non-complex chronic disease

CD chronic disease