

1. Comparing 4-day grace & normal assessments for selected vaccines, for children in the MCIR sentinel site aged 19-35 mos. on 15 Nov 2004. Data as of 6 Jan. 2005.

Num. valid iz. on 15 Nov. 2004	0 immunizations				1 immunization				2 immunizations				Table continues below...
	# w. 1 iz.				# w. 2 iz.				# w. 3 iz.				
Data type	Number of kids	Percent of kids	under 4 day grace	% gain	Number of kids	Percent of kids	under 4 day grace	% gain	Number of kids	Percent of kids	under 4 day grace	% gain	
Varicella	19999	19.71%	143	0.72%	81478	80.29%	N/A	N/A	N/A	N/A	N/A	N/A	
Measles containing	16848	16.60%	102	0.61%	83843	82.62%	32	0.04%	786	0.77%	N/A	N/A	
Hepatitis B containing	4188	4.13%	0	0.00%	4273	4.21%	29	0.68%	9108	8.98%	363	3.99%	
Polio containing	6395	6.30%	4	0.06%	3204	3.16%	9	0.28%	7079	6.98%	76	1.07%	
Pertussis containing	5963	5.88%	4	0.07%	3198	3.15%	4	0.13%	3748	3.69%	25	0.67%	

Num. valid iz. on 15 Nov. 2004	3 immunizations				4 immunizations		Overall		
	# w. 4 iz.								
Data type	Number of kids	Percent of kids	under 4 day grace	% gain	Number of kids	Percent of kids	Number affected by 4 day grace	affected by 4 day grace	Total kids in cohort
Varicella	N/A	N/A	N/A	N/A	N/A	N/A	143	0.14%	101477
Measles containing	N/A	N/A	N/A	N/A	N/A	N/A	134	0.13%	101477
Hepatitis B containing	83908	82.69%	N/A	N/A	N/A	N/A	392	0.39%	101477
Polio containing	81090	79.91%	48	0.06%	3709	3.66%	137	0.14%	101477
Pertussis containing	14757	14.54%	316	2.14%	73818	72.74%	349	0.34%	101477

The correct way to interpret the percentages is: Of children with only X valid immunizations currently, the percent having X+1 valid iz. under the 4 day grace. Note particularly the 2 immunization columns for Hep B and the 3 immunization columns for pertussis. Both have a relatively high benefit from the 4 day grace.

2. Comparing normal assessment (from Table 1 above) with the sentinel site report for quarter 4, 2004

	Normal assess., from above table	Assessment from Q4 2004 report	Difference (percentage points)
Kids w. 1+ varicella	80.29%	80.30%	0.01
Kids w. 1+ meas. containing	83.40%	83.39%	-0.01
Kids w. 3+ hep. B containing	82.69%	83.98%	1.29
Kids w. 3+ polio containing	83.56%	83.57%	0.01
Kids w. 4+ pert. containing	72.74%	73.74%	1.00

Differences in the hep. B and pertussis assessments come from using a more detailed assessment that accounts more completely for minimum ages and intervals. The internal MCIR assessment logic is the 'gold standard', but it cannot easily assess large numbers of children on demand, and cannot make assessments as of dates in the past.