



Data Reporting – Where Do We Go From Here?

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What PedNSS and PNSS Have Provided to WIC and Public Health Communities

Since the 1970's the systems have:

- Promoted the use of standardized nutrition surveillance methods
- Monitored national, state and local prevalence of nutritional and health problems among the low-income WIC (MCH) population



Benefits of Reports

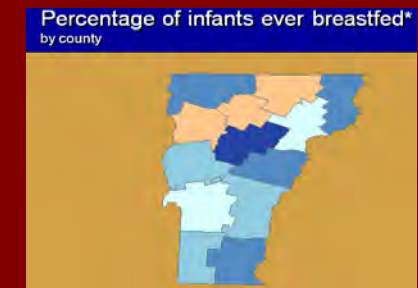
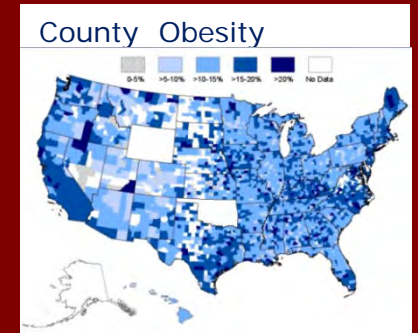
PedNSS and PNSS have provided states, ITO's, and US territories with report statistics to:

- Identify high risk populations and priority health problems
- Report WIC program success to partners
- Support funding proposals
- Identify research needs
- Monitor trends in health status
- Compare geographic entities
- Support nutrition services planning
- Track progress towards achieving HP goals
- Track effects of program interventions
- Support data quality activities

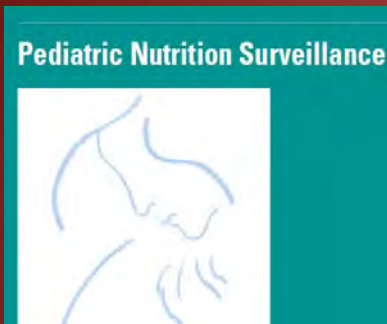
Table 140
2009 Pregnancy Nutrition Surveillance
Nation
Summary of Trends in Maternal Health Indicators

Summary of Trends in Maternal Health Indicators

Year	Pregnancy Rate (%)		Weight Gain (%)				Averaging (Lbs/Week)			
	Unplanned	Planned	1st Trimester		3rd Trimester		1st Trimester	3rd Trimester		
			Number	%	Number	%				
2009	1,226,875	4.6	52.9	977,002	21.2	48.2	188,864	13.9	413,633	28.8
2008	1,228,286	4.7	52.2	963,820	21.4	48.3	187,077	13.9	417,631	29.8
2007	1,174,620	4.7	51.3	920,893	21.4	48.6	180,198	13.8	414,771	29.8
2006	1,079,529	4.6	50.8	876,879	21.3	48.8	161,684	12.2	393,260	28.2
2005	980,976	4.6	50.7	861,126	22.2	49.3	126,198	11.2	291,072	29.4
2004	792,522	5.2	49.2	641,384	22.1	49.1	128,870	10.2	283,734	28.8
2003	697,032	5.3	49.6	554,311	21.7	49.6	102,837	10.6	280,680	29.4
2002	668,273	5.7	48.7	551,836	22.2	49.0	102,684	11.3	283,271	28.2
2001	667,876	5.9	48.0	555,037	22.4	49.6	97,910	10.4	263,389	29.2
2000	662,996	6.2	48.9	556,949	22.4	49.2	110,222	10.7	282,207	28.0
1999	626,160	6.4	48.3	505,066	24.3	48.6	99,312	10.9	284,079	27.1
1998	588,482	6.6	48.2	481,804	28.5	42.4	84,916	10.1	228,374	27.4
1997	482,362	6.8	44.1	416,969	30.3	40.8	60,380	10.1	203,196	26.8
1996	428,841	7.4	42.3	387,429	28.6	42.3	64,317	11.5	179,276	26.0
1995	426,106	7.6	41.2	383,069	27.6	42.8	45,037	10.2	176,310	25.8



PedNSS



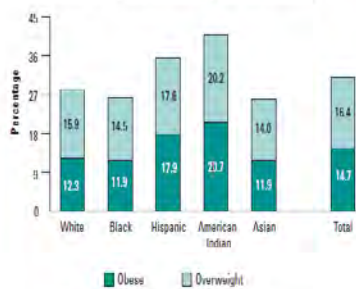
- Collects and reports data on
 - birthweight and breastfeeding
 - short stature and underweight
 - overweight and obesity
 - anemia
 - TV viewing and smoking in household
- Provides trends dating back to 1973
46 states, DC, 2 US territories, and 6 ITOs contributed data in 2010

Table 20
2010 Pediatric Nutrition Surveillance
National
Summary of Health Indicators
Children Aged < 6 Years (2)

Summary of Health Indicators (3)		National Prevalence	
		Number	%
Birthweight (4)	Low < 3500 g	1,851,546	9.0
	High ≥ 4000 g	1,851,546	9.3
Height and Weight Short Stature (5)	< 5th	8,190,251	5.9
	< 10th	8,190,251	10.8
Underweight (6)	< 5th	8,190,251	4.5
	< 10th	8,190,251	7.7
Obese (6)	≥ 95th	8,190,251	13.4
	≥ 2 Yrs Overweight (8)	85th - < 95th	3,640,072
	≥ 95th	3,640,072	14.4
Anemia (7)	Low Hb	5,147,185	14.7
	Low Hct	435,650	10.9
	Low Hb/Hct	5,381,037	14.6
Breastfeeding (8)	Ever Breastfed	1,689,615	63.2
	Breastfed At Least 6 Months	908,604	25.1
	Breastfed At Least 12 Months	1,069,942	16.9
Smoking in Household ≥ 2 Hours TV Viewing/ Day (9)		4,203,654	9.4
		1,200,700	79.2

Source of data: WIC (85%), Child Health (15%)

Figure 6. Prevalence of obesity* and overweight* among children aged 2-5 years, by race and ethnicity



<http://www.cdc.gov/pednss>

PedNSS and PNSS Products

Periodic Data Quality Reports

Data quality of quarterly data files

Annual Reports, Research Papers, MMWR

Tables citing ***state and local*** (clinic, county, local agency) prevalence rates, trends, and cross-tabulations of demographic and health indicators

Geographic comparisons of prevalence rates (state to nation, county to state, etc.)

Graphics and maps of county data

Research articles including MMWR (Morbidity and Mortality Weekly Review)

CDC Discontinuation of PedNSS and PNSS - Rationale

- Creation of other surveillance systems and relevant surveys such as NHANES, NIS, NSCH
- Change in state WIC reporting capacity
- Duplication of PedNSS, PNSS and WIC PC
- Change in CDC Priorities
- PedNSS/PNSS data are rarely used to answer the most important research questions in nutrition today



CDC will produce 2011 state and national annual PedNSS/PNSS reports next year (in 2012).

The systems will then be shut down, data will no longer be submitted to CDC (2012 state and national reports will not be produced in 2013).

CDC Gratitude

- Efforts of state, U.S territory and ITO surveillance coordinators, informatics staff, and local clinic staff have made the PedNSS and PNSS possible
- Given the voluntary basis for participation and the 38-year life span of the systems, your commitment has been remarkable



We humbly acknowledge and thank all current and past contributors to the systems

Time For a New Direction – CDC's Perspective



Clarification of Our Role

CDC's role is changing as we begin a new way of doing business

Over the next year, CDC will:

- Produce 2011 PedNSS & PNSS reports
- Provide assistance to interested agencies and organizations to transfer CDC institutional knowledge of PedNSS and PNSS processes



Partners are Critical

Our understanding based on recent discussion with NWA:

The Research and Evaluation Committee will:

- Identify PedNSS/PNSS & WIC PC reporting gaps (with WIC community data needs in mind)
- Identify priority variables of interest
- Identify state capacity to generate useful WIC/MCH statistics
- Recommend next steps

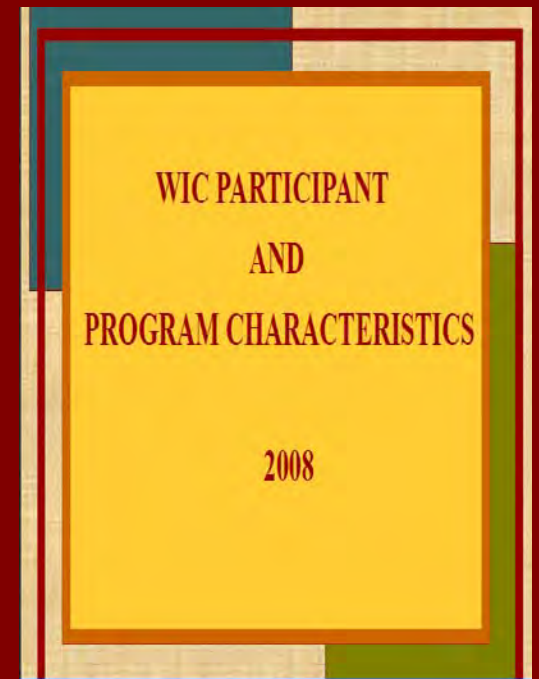
Partners are Critical

Our understanding based on recent discussion with USDA FNS ORA:

It could be possible to:

- Generate state WIC PC statistics based on current national WIC PC analysis routines
- Create a public or web-available report of state WIC PC data

USDA also conducts other relevant studies and surveys of WIC participants



What We've Learned About the Vital Relationship Between the WIC PC and the Future of WIC Nutrition Monitoring

Common Data Elements

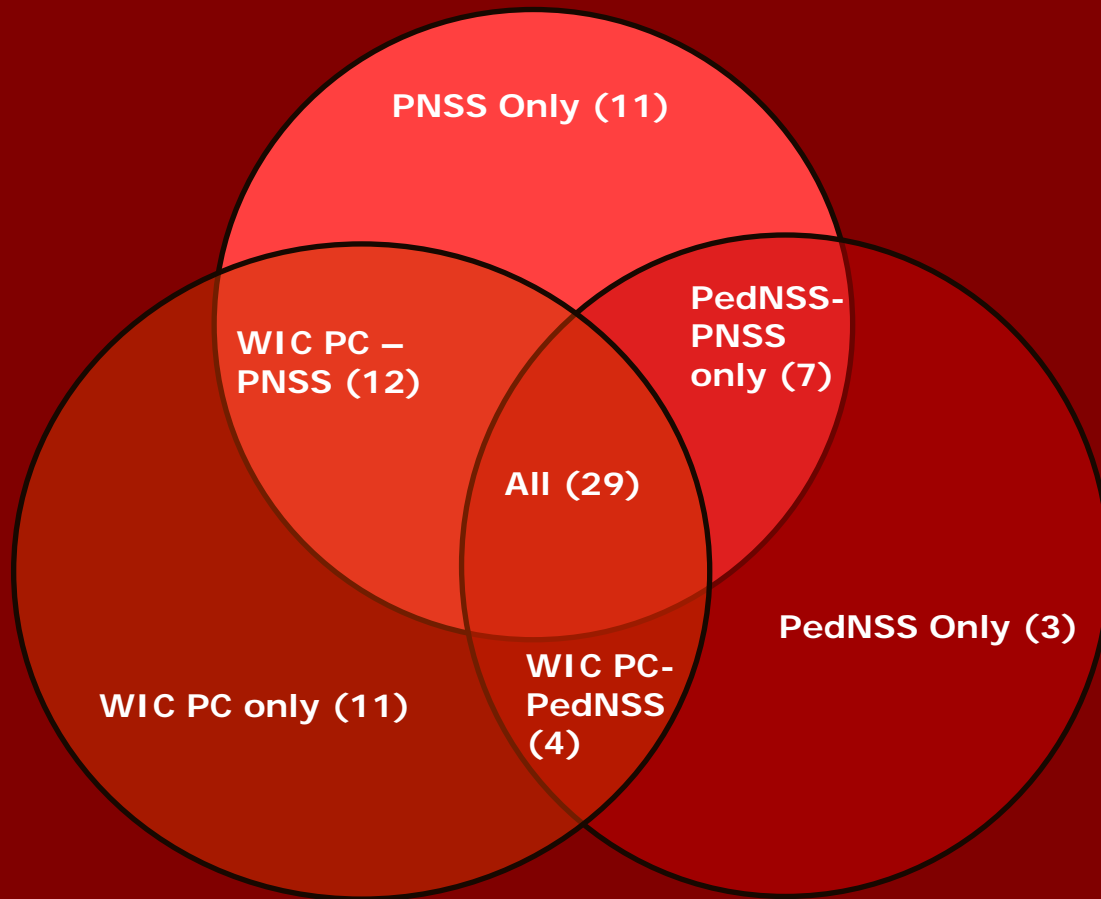
- **70%** of PedNSS /PNSS data items captured in the WIC PC (100% of core PedNSS items)

Less Common Analyses

- **<50%** of *national* PedNSS and **<25%** of *national* PNSS analyses are similarly presented in the WIC PC
- The WIC PC provides primarily national (not state) statistics and no local statistics
- PedNSS and PNSS present routine and longer trends

USDA and NWA Thinking About the Future of WIC PC Reporting is Key

WIC PC, PedNSS and PNSS Share Common Data Elements



Source: *WIC PC-PNSS-PedNSS_Field_Comparisons, CDC DNPAO*

Where to Locate PedNSS/PNSS-Like Analyses in the WIC PC Report

PedNSS			WIC PC	
	Nation (Aggregated)	State	Nation (Aggregated)	State
Table 2 Summary of Health Indicators				
Overweight 2-<5 Yrs	Table 2D	Table 2C	Exhibit 4.38 (pg 106)	Not presented*
Obese 2-<5 Yrs	Table 2D	Table 2C	Exhibit 4.38 (pg 106)	Not presented*
Anemia				
Low Hb	Table 2D	Table 2C	Exhibit 4.46 (total children) (pg 115). E4.44 (missing Hb/Hct data) (pg 113)	Not presented*

CDC Support

This and other information provided to contributors and partners:

- Comparison of PedNSS, PNSS, WIC PC data items, analyses, and state rates
 - Comparison of PedNSS and PNSS-like statistics found in the NIS and PRAMS

CDC Spreadsheets

WIC PC-PNSS-PedNSS-Field Comparisons

PedNSS-PNSS-Analyses-in-WIC PC

Compare-Prevalence-WIC PC-PedNSS-PNSS

Compare-Prevalence-NIS-PRAMS-PedNSS-PNSS

Contact us at nccddnpapednss@cdc.gov to obtain copies

CDC Support

CDC will provide limited system documentation

- To assist contributors in creating ad hoc reports with similar quality, reliability and consistency as PedNSS and PNSS
- Priority health indicators:
 - PedNSS: breastfeeding, obesity, LBW, anemia*
 - PNSS: prepregnancy BMI, maternal weight gain, anemia*

Emerging documentation includes *general* specifications and source code for selecting records and calculating prevalence rates

System Documentation

PedNSS –Ever Breastfed

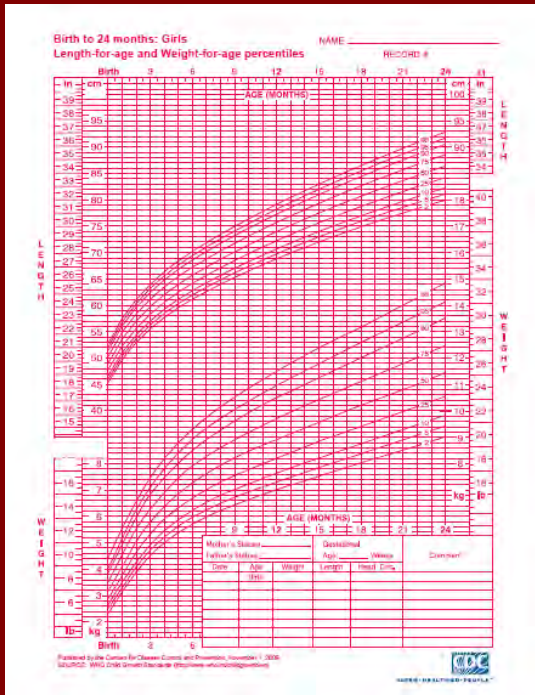
Definition	Record Selection (Unique Children Included in Analysis)	Definition of Prevalence
Infants who have ever breastfed	Infants born during the annual reporting period	<i>Numerator:</i> Number of infants currently breastfed <i>plus</i> the number of infants ever breastfed. <i>Denominator:</i> Number of infants with valid Currently Breastfed and Ever Breastfed data.

PedNSS Specifications	PedNSS Source Code
1) Select infants born during the reporting period	<i>dob between @startdate' and '@enddate'</i>
2) Calculate prevalence rate Numerator: Number of infants currently breastfed plus the number of infants ever breastfed. Denominator: Number of infants with valid Currently Breastfed and Ever Breastfed data.	<i>Numerator: (everbf = 'Y' or currbf = 'Y') and dob between @startdate' and '@enddate'</i> <i>Denominator: (everbf = 'Y' or currbf = 'Y') or (everbf = 'N') and dob between @startdate' and '@enddate'</i>

CDC Support

CDC will provide:

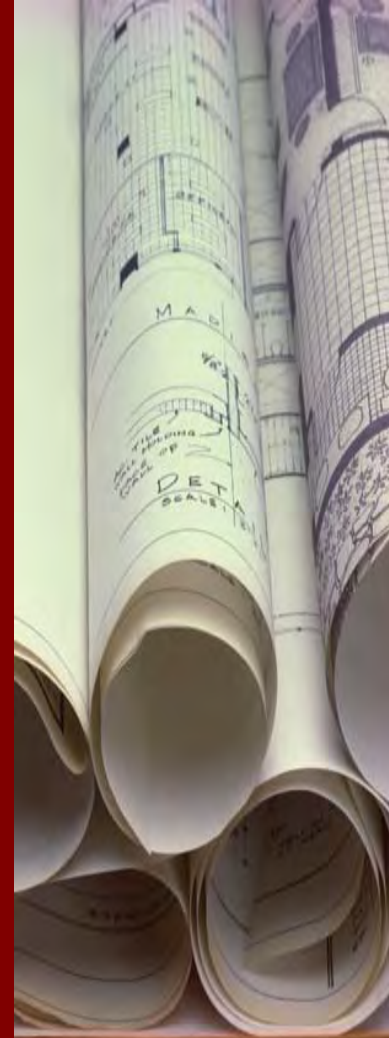
- Copies of annual, historical data files to contributors
- Access to anthropometry routines for calculating z-scores and percentiles
- Source code to states with SQL/VB infrastructure (but only limited TA)



Recap – Opportunities to Meet State Reporting Needs

- Partner with USDA/NWA on future WIC nutrition monitoring and WIC PC reporting; identify priority changes
- If desired, expand state ad hoc reporting in reference to PedNSS/PNSS documentation
- Obtain CDC/WHO anthropometry routines

On request, CDC epidemiology , nutrition and informatics expertise can be available to support future WIC nutrition monitoring efforts





CDC will gradually step out allowing others the opportunity to step in on behalf of the WIC Community



YOU are in charge of future WIC nutrition monitoring; let us know how we can assist you.

If you are interested in working with CDC on system documentation NOW is the time to let us know!

- What are your state's priority health indicators?
- Volunteer to work with us on:
 - desired level of detail for system documentation and to determine what is a “good enough” replication of PedNSS and PNSS routines given complexities, such as:
 - PedNSS unique child file build
 - PNSS prenatal and postpartum record linkage

CONTACT US

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Conference

Karen Dalenius, CDC PedNSS/PNSS Team Lead

Tricia Brindley, CDC PNSS Administrator

It Has Been a Privilege Serving the WIC Community

THANK YOU

National Center for Chronic Disease Prevention and Health Promotion
Division of Nutrition, Physical Activity and Obesity

