



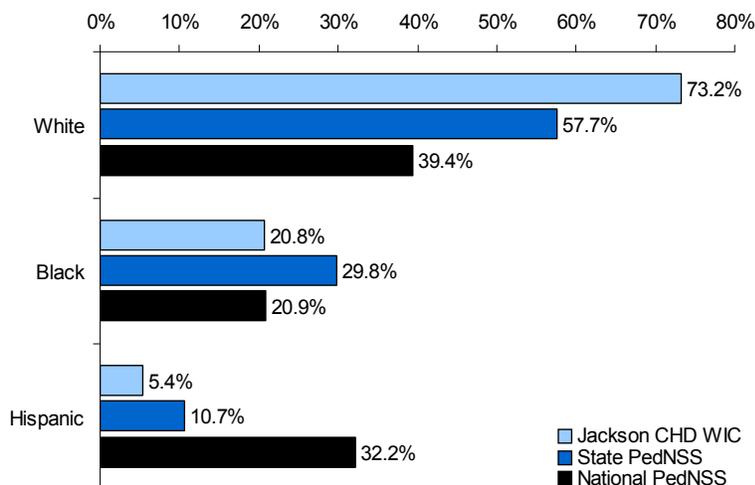
2003 WIC Local Agency Pediatric Nutrition Surveillance System (PedNSS) Report

The goal of Michigan WIC is to improve the health outcome of low income nutritionally at-risk women and children by providing supplemental nutritious foods, offering nutrition education/counseling, breastfeeding support, and referral to other health and social services. This report is developed to provide specific, local information regarding the health and nutritional status of WIC participants. In order to provide local statistics stratified by age and race/ethnicity, three-year averages were calculated for each health indicator. Consequently, point estimates represent the incidence or prevalence of an indicator between the years 2001 and 2003. Trends were constructed using rolling averages and cover the period between 1998 and 2003.

Infants and children under the age of five years old make up 6.6% of the population of Jackson County, in 2000. Among those infants and children 16.1% lived below poverty, according to data from the 2000 Census. The Jackson County Health Department's WIC agency (Jackson CHD WIC) served approximately 4,460 of WIC infants and children under five years old in 2003. PedNSS information about WIC participants living in Jackson revealed:

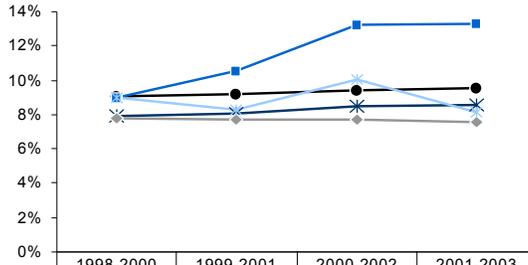
- 8.6% of infants were low birthweight and another 8.6% had a birthweight equal or greater than 4000g (13 lbs 8oz);
- Among children two to five years old, the prevalence of short stature was lower among White children compared to all other racial/ethnic groups;
- The prevalence of overweight and risk of overweight was 14.0% and 17.4% among children two to five years old;
- The prevalence of overweight was slightly higher among Jackson County WIC children than their state peers: 14.0% compared to 12.7%;
- The prevalence of iron deficiency anemia is nearly half that of the statewide WIC prevalence;
- Except for Black infants, at least half of Jackson County WIC infants were ever breastfed.

Figure 1. **Racial/ethnic distribution** among participants under five years old, 2003 PedNSS



Ninety-four percent of Jackson County WIC participants were either non-Hispanic White or non-Hispanic Black.

Figure 2. Trend in **low birthweight*** by race/ethnicity among infants in the Jackson County HD WIC Agency, 1998-2003 MI PedNSS

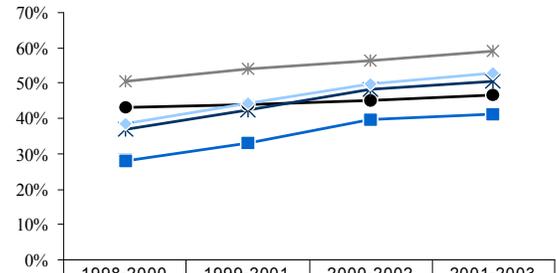


The prevalence of low birthweight among White infants had remained static since 1998-2000.

	1998-2000	1999-2001	2000-2002	2001-2003
State PedNSS	9.1%	9.2%	9.4%	9.5%
Jackson CHD WIC Total	7.9%	8.0%	8.5%	8.6%
White	7.7%	7.7%	7.7%	7.6%
Black	9.0%	10.5%	13.2%	13.3%
Hispanic	8.9%	8.3%	10.1%	8.1%

*Low birthweight is defined as having a birthweight less than 2500 grams (5lbs 9 oz) regardless of gestational age.

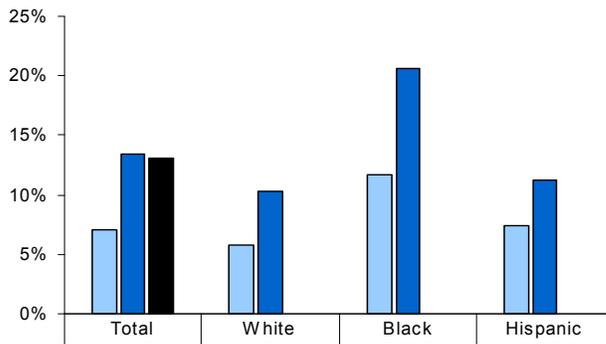
Figure 3. Trend in **ever breastfed** by race/ethnicity among infants in the Jackson County HD WIC Agency, 1998-2003 PedNSS



The average annual percent increase for infants ever breastfed was almost four times higher among Jackson County WIC infants compared to the state trend.

	1998-2000	1999-2001	2000-2002	2001-2003
State PedNSS	43.1%	43.8%	44.9%	46.6%
Jackson CHD WIC Total	37.1%	42.5%	48.3%	50.7%
White	38.5%	44.2%	50.0%	52.8%
Black	28.2%	33.2%	39.8%	41.1%
Hispanic	50.4%	54.1%	56.6%	59.1%

Figure 4. Prevalence of **iron deficiency anemia*** by race/ethnicity among infants and children under five years old, 2001-2003 PedNSS



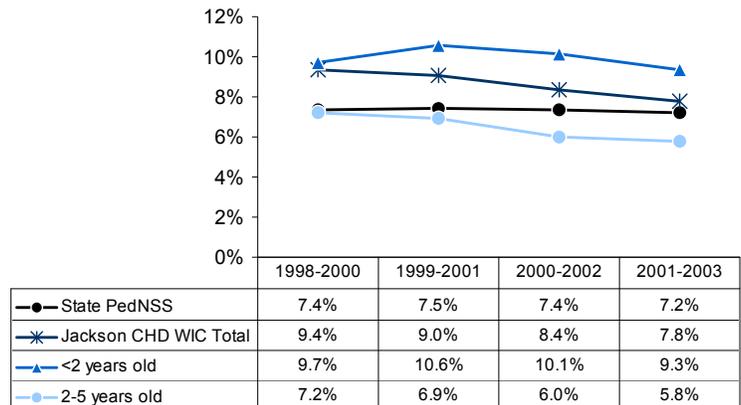
The prevalence of iron deficiency anemia was, for White and Black infants and children under five years old of Jackson County WIC, half that of their state peers.

	Total	White	Black	Hispanic
Jackson CHD WIC	7.1%	5.8%	11.6%	7.4%
State PedNSS	13.4%	10.3%	20.6%	11.2%
National PedNSS	13.1%			

*For infants under the age of one year, iron deficiency anemia is defined as having either a hemoglobin concentration of 11.0 g/dL or a hematocrit level of less than 33%. For children two to five years old, iron deficiency anemia is defined as having either a hemoglobin concentration less than 11.1 g/dL or a hematocrit level below 33.3%.

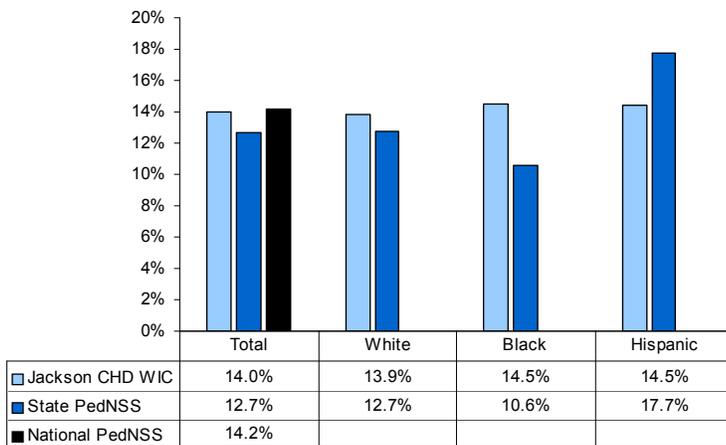
The disparity between state and Jackson County WIC infants and children narrowed from a two-percentage points difference in 1998-2000 to a 0.6 percentage point difference in 2001-2003.

Figure 5. Trend in **short stature*** by age group among infants and children under five years old, 2000-2003 MI PedNSS



*Short stature is defined as having a height-for-age below the 5th percentile of the National Center for Health Statistics and Centers for Disease Control and Prevention (NCHS/CDC) age- and gender- specific growth chart.

Figure 6. Prevalence of **overweight*** by race/ethnicity among children two to five years old, 2003 PedNSS

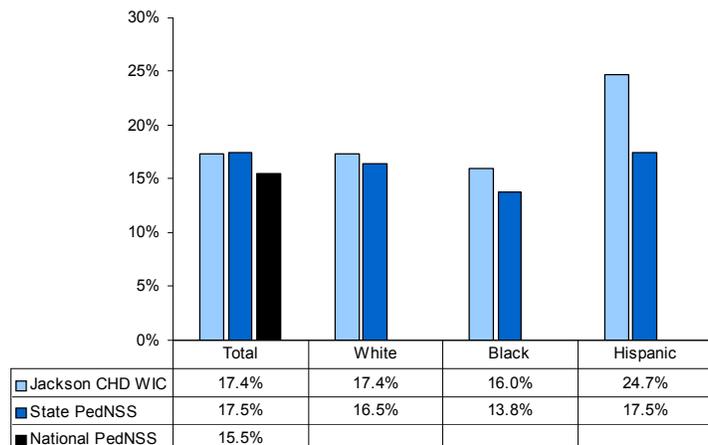


*Overweight is defined as having a weight-for-height greater than the 95th percentile of the National Center for Health Statistics and Centers for Disease Control and Prevention (NCHS/CDC) age- and gender- specific growth chart.

The prevalence of overweight was higher for, White and Black children of Jackson CHD WIC, compared to their state peers.

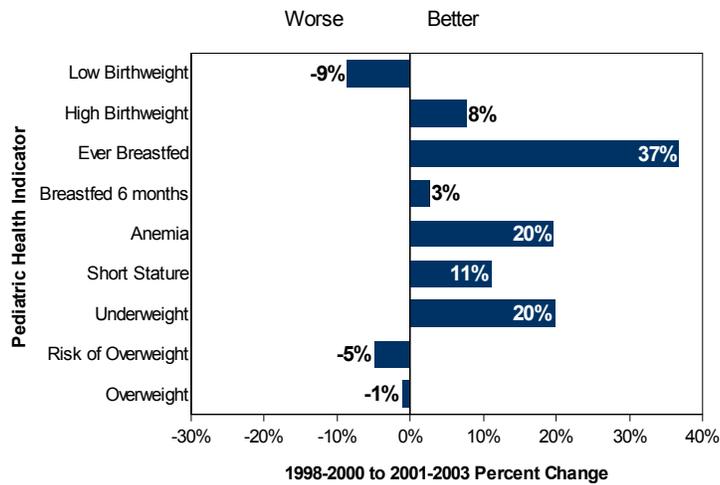
The overall prevalence of risk of overweight was nearly equivalent for Jackson County WIC and statewide WIC.

Figure 7. Prevalence of **risk of overweight*** by race/ethnicity among children two to five years old, 2003 PedNSS



*Risk of overweight is defined as having a weight-for-height between the 85th and the 95th percentile of the National Center for Health Statistics and Centers for Disease Control and Prevention (NCHS/CDC) age- and gender- specific growth chart.

Figure 8. Pediatric **health progress review** for Jackson CHD WIC infants and children under five years old, 2000 and 2003 MI PedNSS



Jackson County WIC made progress in six of nine health and nutritional indicators, especially in the areas of breastfeeding, anemia, and underweight.



Jennifer M. Granholm, Governor

Janet Olszewski, Director

Suggested Citation:

Larrioux C, Eghtedary K, Grigorescu V, Carr A. "2003 WIC Local Agency PedNSS Report Jackson County Health Department." WIC Division, Bureau of Family, Maternal, and Child Health, Michigan Department of Community Health. April 2007.

For more information, please contact:

WIC Division
Michigan Department of Community Health
Lewis Cass Building
6th floor

320 South Walnut Street
Lansing, MI 48913

Website: <http://www.michigan.gov/wic>
E-mail: MichiganWic@michigan.gov

Michigan Department of Community Health

WIC Program

Mission Statement

The mission of the Michigan WIC program is to improve the health outcomes and quality of life for eligible women, infants, and children by providing nutritious food, nutrition education, breastfeeding promotion, and support and referrals to health and other services. To this end:

- Delivery of services and supports are to be provided in a caring, respectful, efficient, and cost effective manner.
- Delivery of services shall be provided in a culturally competent and confidential manner.
- The WIC Program shall assure the broadest possible access to services, supports, and food.