Olmsted County Public Health Services
Healthy Children and Families
Five Year Report
2009-2013
Annual Update

“Ensuring that children and families are healthy, safe, and nurtured.”
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Olmsted County Public Health Services  
Healthy Children and Families  
Five Year Report  
Update  
2009-2013

July 1, 2014

Olmsted County Public Health Services  
2100 Campus Drive SE  
Rochester, MN 55904

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Introduction

The purpose of this report is to show the condition of parent and child health indicators for families served by the Healthy Children and Families (HCF) Division within Olmsted County Public Health Services (OCPHS).

Improving the health of mothers, infants, and children is an important public health goal. Their well-being determines the health of the next generation and can help predict future public health challenges for families, communities, and the health care system.

The HCF Division serves the population of families in Olmsted County who are pregnant or parenting a child birth to five years through programs provided by public health nurses (PHNs). Some of the services provided are available to all families, such as newborn/postpartum home visits and the Follow Along Program, whereas others are targeted to families with risk factors, such as the targeted family home visiting programs or the Early Hearing Detection and Intervention Program.

The Vision, Mission, and Core Values of the HCF Division are as follows:

Vision
All children and families reach their full potential

Mission
Ensuring that children and families are healthy, safe, and nurtured

Core Values
Compassion, Excellence, Integrity, Respect, Social Justice

The foundation of the services provided by HCF is based on brain development research and Attachment Theory.

Healthy brains begin with a healthy pregnancy and continue to develop in the context of nurturing relationships with healthy caregivers. The first three to five years of a child’s life are critical in establishing a foundation for future health and learning. Parents work voluntarily with HCF PHNs, who serve as a parenting guide or coach, in addition to their nursing role as it relates to the child and family’s health. HCF PHNs focus on strengthening the parent-child relationship while continually assessing and teaching information related to healthy child growth and development.

Methodology

The data in this report was collected from PH-Doc, the electronic health record program used by OCPHS. PH-Doc includes the Omaha System, an American Nurses Association recognized standardized nursing terminology. The Omaha System describes the clients as individuals, the care provided, and the outcomes of that care. It has been formulated to promote health care practice and documentation, and to manage information.

The report combines HCF program information, demographic information about the populations served by HCF, risk factors for these populations, and Family Home Visiting outcomes determined by the Minnesota Department of Health (MDH).

The average change in KBS ratings was calculated using a paired t-test. A p-value of 0.05 was used to determine significance. If a p-value was less than 0.05, the change was considered significant. If it was greater than 0.05, the change was considered not significant.

For information related to the condition of maternal and child health for all of Olmsted County, please refer to the Olmsted County, Minnesota Maternal and Child Health Annual Report 2007-2011, published October 2013.
Executive Summary

Olmsted County Public Health Services

Healthy Children & Families Division

2009 - 2013 Averages

1,759 Clients seen annually

Top Risk Factors:
- Low Income
- Minority Group
- Unmarried
- Financial Difficulty
- Family Stress

Reasons for Visits:
- 26% Parenting
- 25% Child G&D
- 21% Pregnancy
- 16% Newborn
- 12% Postpartum

Parenting
- 558 clients
- 2,335 visits per year

Pregnancy
- 404 clients
- 1,373 visits per year

Child Growth & Development
- 776 clients
- 2,305 visits per year

Most Frequent Actual Omaha System Problems:
- Income
- Pregnancy
- Postpartum

Client Race/Ethnicity
- 68% White
- 17% Black
- 8% Asian
- 16% Hispanic

6,475 visits per Year
**Executive Summary**

**OCPHS HCF Division**
Maternal & Child Health
Client Quick Facts
2013

**BIRTHS**
103 births
29% teen births

**PREMATURITY**
3% of infants were born at least 3 weeks too early

**LOW BIRTH WEIGHT**
3% of infants were born weighing less than 5.5 pounds

**PRENATAL CARE**
76% of women received prenatal care in the 1st trimester

**MATERNAL EDUCATION**
42% No HS Diploma or GED
31% HS Diploma or GED
21% Some Post-Secondary or Degree

**MATERNAL RACE/ETHNICITY**
55% White
29% Black
12% Asian
21% Hispanic

**OUT-OF-WEDLOCK BIRTHS**
51% of births were to unmarried women

**SMOKING**
13% of pregnant women smoked during pregnancy

**LOW BIRTH WEIGHT**
3% of infants were born weighing less than 5.5 pounds

**ER/URGENT CARE VISITS**
3.5% had 1 or more visits due to injury

**DEVELOPMENTAL MILESTONES**
88% meet developmental milestones

**SOCIAL-EMOTIONAL MILESTONES**
91% met social-emotional milestones

**CHILD MALTREATMENT**
0.7% experienced substantiated maltreatment

**FIRST TIME MOMS**
62% first time moms

**HOME SAFETY CHECKLIST**
80% completed

**POSTPARTUM DEPRESSION SCREENING**
73.5% screened for pp depression

**FIRST TIME MOMS**
62% first time moms

**BREASTFEEDING**
41% of those who breastfed, breastfed 6+ months

**SUBSEQUENT PREGNANCY**
95% no subsequent pregnancy at 24 mo. postpartum

To view full document contact Vicky Kramer, Olmsted County Public Health Services at kramer.vicky@co.olmsted.mn.us
All HCF programs provide pregnancy and parenting support, promote an enjoyable parent-child relationship, and encourage the healthy social-emotional and physical development of the child.

**Bright Futures** is a program for pregnant or parenting teens. Visits are provided by a PHN and/or County social worker until the parent is at least 19 years of age and/or for up to three years.

**Babysteps** is a program for first time parents with risk factors. Families are enrolled either during pregnancy or within six weeks of the baby’s birth. Visits are provided by a PHN and County social worker until the child turns two to three years old.

**Steps to Success** is a program for families with risk factors who are expecting their second or third child, when their other children are under the age of five. Families are enrolled either during the pregnancy or within six weeks of that child’s birth. Visits are provided by a PHN and County social worker until the youngest child turns two to three years old.

**Pregnancy and Parenting Connections** is a program for families who are either expecting a baby or who have a child birth to five years of age. Visits are provided by a PHN for a few months or up to three years, depending on risks and needs.

**New Baby Visits** are available to all parents living in Olmsted County. PHNs make home visits within a few days of parents arriving home from the hospital. PHNs provide information about caring for an infant and the new mother, as well as support for new parents, assistance with questions about breast or bottle feeding, baby care, and infant development.

**Children with Special Health Needs** is a program for families who have a child with special needs. PHNs make home visits focusing on early intervention, providing weight checks, assisting in case management, promoting an enjoyable parent-child relationship, and making community resource referrals.

**WIC/MCH Clinic** is offered to pregnant clients with risk factors, as an adjunct to their WIC nutritional intervention program and health education. The clinic visit is provided by a PHN, who obtains vital signs, completes a brief assessment, and provides information about pregnancy related topics and community resources.

**The Minnesota Early Hearing Detection and Intervention (EHDI) Program** PHNs support and assist families whose infant failed a newborn hearing screen to follow up with screening/testing, assure that families of children with a hearing loss are connected to appropriate resources and caregiver supports, and increase the number of children with hearing loss who attain developmental milestones similar to their hearing peers. This is a collaboration between OCPHS, MDH, the medical community, early intervention providers, and parents of children with hearing loss.

**Early Childhood Screening Follow-Up Services** OCPHS partners with the Independent School Districts of Byron, Chatfield, Dover-Eyota, Rochester and Stewartville Early Childhood Screening programs. If an area of need or concern is identified during screening, a public health nurse is available to assist schools and/or families with information, community resource referrals, and support. These coordinated services help assure kindergarten readiness.
Other OCPHS Programs

**Follow Along Program** offers parents a periodic assessment of their child’s development and ideas for encouraging their development through a computer assisted tracking program. This program is for children birth to 36 months.

**Elevated Blood Lead Case Management**
Olmsted County residents under 72 months of age who are tested at a clinic and determined to have a blood lead level above 5 ug/dl are reported to MDH. MDH then notifies the blood lead case manager at OCPHS. Case management activities include assessment, education, support, advocacy, and home visiting, as needed by the children and their caregivers. The case manager works closely with the clinic and MDH to assure follow up lead testing is completed in a timely manner. This is a collaborative program with MDH and local clinics.

HCF Program Model

**Healthy Families America**
Services are provided to clients through home visiting. The HCF Division of OCPHS integrates the Healthy Families America (HFA) model of home visiting with families who qualify based on a parenting risk assessment. HFA is a nationally recognized, evidence-based home visiting model designed to connect expectant parents, and parents of newborns, with parenting and child development assistance in their homes. In 2013, HCF chose HFA because it aligns well with our past relationship-based home visiting model based on attachment theory. HFA is designed to work with overburdened families who have histories of trauma, intimate partner violence, mental health issues, substance abuse issues, and other risk factors. HFA services begin prenatally or right after the birth of a baby and are offered voluntarily, intensively and for three years after the birth of the baby.
Between 2009 and 2013, the HCF division PHNs made an average of 6,475 visits to 1,759 clients annually. Since 2009, the number of clients decreased 16% while the visits increased by 15%.

HCF PHNs provide visits for a variety of reasons. Services are primarily provided to enhance parenting skills, maximize the healthy growth and development of infants and children and provide prenatal education for a healthy pregnancy and healthy child.

The most frequent reason for HCF visits is related to parenting (26%), followed by child growth and development (25%), and pregnancy (21%).
The HCF client population is more diverse than Olmsted County’s general population. The Hispanic population is higher in the HCF Program (14%) compared to Olmsted County (3.5%). This is also true for the black and Asian populations. The racial makeup of HCF clients is 72% white, 16% black, and 9% Asian; Olmsted County’s total population is 88.5% white, 4.5% black and 5.1% Asian.

Females represent 74% of HCF clients.

The largest percentage of HCF clients served are children under 5 years of age (44%) followed by those between 20 to 29 years of age (30%).

**HCF Client Demographics**

**RACE & ETHNICITY**

**Olmsted County’s Population**

**Olmsted County Public Health Services’ Clients**

**Clients by Age, 2009 - 2013**

- 44% 0-4
- 1% 5-12
- 17% 13-19
- 30% 20-29
- 6% 30-39
- 2% 40+
- 1% 40+
From 2009 to 2013 HCF PHNs made an average of 1,373 visits to 404 prenatal clients annually. There was a 20% decrease in prenatal clients from 2009 to 2013. The number of prenatal visits fluctuated up and down during this period, but there was an overall 11% decrease in visits from 2009 to 2013. This may be due to making more visits to fewer families for a longer period of time, with the implementation of Healthy Families America.
Pregnancy and Birth

Risk Factors

Client risk factors impact the complexity of client health issues. These risk factors are addressed by the PHN and client during a visit. During the 2009 to 2013 time period, the top risk factors for prenatal clients were low income (52%), unmarried (36%) and in a minority group (26%).

In 2013, 56% of prenatal clients reported an income at 200% or less of federal poverty level.

The Omaha System: Assessment

The Omaha System is used by the PHN to assess clients’ problems. **Actual** problems are identified as problems with signs and symptoms. **Potential** problems have no signs or symptoms present, but have associated risk factors. When the client requests information about a problem, but they have no signs or symptoms or risk factors present, this becomes a **Health Promotion** problem. The top five actual, potential, and health promotion problems for prenatal clients are listed below.

### The Omaha System

#### Assessment

The top five actual, potential, and health promotion problems for prenatal clients are listed below.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Most Frequent Omaha Problems Prenatal Clients 2009-2013</th>
<th>% of Clients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Actual</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Income</td>
<td>28.0%</td>
</tr>
<tr>
<td>2</td>
<td>Pregnancy</td>
<td>26.3%</td>
</tr>
<tr>
<td>3</td>
<td>Mental Health</td>
<td>12.7%</td>
</tr>
<tr>
<td>4</td>
<td>Communications with Community Resources</td>
<td>12.0%</td>
</tr>
<tr>
<td>5</td>
<td>Nutrition</td>
<td>11.4%</td>
</tr>
<tr>
<td></td>
<td>Potential</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Caretaking/Parenting</td>
<td>13.0%</td>
</tr>
<tr>
<td>2</td>
<td>Income</td>
<td>11.3%</td>
</tr>
<tr>
<td>3</td>
<td>Mental Health</td>
<td>11.2%</td>
</tr>
<tr>
<td>4</td>
<td>Role Change</td>
<td>7.5%</td>
</tr>
<tr>
<td>5</td>
<td>Interpersonal Relationship</td>
<td>6.5%</td>
</tr>
<tr>
<td></td>
<td>Health Promotion</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Caretaking/Parenting</td>
<td>30.1%</td>
</tr>
<tr>
<td>2</td>
<td>Family Planning</td>
<td>19.5%</td>
</tr>
<tr>
<td>3</td>
<td>Postpartum</td>
<td>20.6%</td>
</tr>
<tr>
<td>4</td>
<td>Pregnancy</td>
<td>14.9%</td>
</tr>
<tr>
<td>5</td>
<td>Communication with Community Resources</td>
<td>12.9%</td>
</tr>
</tbody>
</table>
From 2009 to 2013 there was an average of 125 births to HCF clients per year.

Births to HCF clients decreased 22% from 2009 (134) to 2013 (104). Births to all Olmsted County residents decreased by 2% during this same time period.

From 2009 to 2013, half of HCF clients giving birth were in the 20 to 29 age range, the same as Olmsted County. There was a greater percentage of births to those ages 15 to 19 among HCF clients (30%) as compared to Olmsted County (5%).

The HCF maternal population is more diverse than Olmsted County’s maternal population. The Hispanic, black and Asian populations are higher in the HCF Program compared to Olmsted County. The racial and ethnic population of HCF maternal clients is 65% white, 22% black, 10% Asian and 24% Hispanic. Olmsted County’s maternal population is 81% white, 8% black, 8% Asian, and 6% Hispanic.

Level of mother’s education is defined as the highest level of education achieved within the following categories: high school diploma or GED, no high school diploma or GED, or some post-secondary education or degree.

From 2010 to 2013, 42.4% of HCF prenatal clients do not have a high school diploma or GED. This is not comparable to Olmsted County since 32% of HCF prenatal clients are teens.
Teen Birth Rates

Teen birth rates are defined as the number of live births to 15 to 19 year olds, expressed as a percentage of all live births.

From 2009 to 2013, teen births among HCF client (32%) were higher compared to Olmsted County (3%). Birth rates among HCF teens decreased 21% from 2009 (36.6%) to 2013 (28.8%). Olmsted County saw a 26% decrease in roughly the same time period.

The maternal race and ethnicity of HCF teen clients is 68% white, 17% black, 9% Asian and 22% Hispanic. Olmsted County’s black (12.5%) and Hispanic (16%) populations are much smaller.

Out-of-Wedlock Births

Out-of-wedlock refers to women who are not married to baby’s father at the time of conception, the time of delivery, or any time between conception and delivery.

The out-of-wedlock rate is the number of live births to unmarried mothers expressed as a percentage of total live births. From 2009 (70.1%) to 2013 (50.5%) there was a 28% decrease in births to unmarried women. There are 55% more unmarried Hispanic women (69.5%) giving birth than non-Hispanic women (44.7%).
Initiation of Prenatal Care

From 2009-2013 an average of 76% HCF clients received prenatal care in the first trimester. White (78%) and Asian females (77%) were more likely to get prenatal care in the first trimester than blacks (72%). Hispanics (69%) had a 10% lower rate of prenatal care in the first trimester than non-Hispanics (77%).

Prematurity

Premature infants are those born at less than 37 weeks gestation.

Between 2010 to 2013, the percentage of premature births was lower among HCF clients (8%) compared to Olmsted County (9%). HCF clients had an average of 9.5 premature births per year.

Smoking

Fewer HCF prenatal clients reported smoking during pregnancy from 2012 (19%) to 2013 (13%), which is a 32% reduction. In 2011, 13% of women in Olmsted County reported smoking during pregnancy.
Low-Birth Weight

Low-birth weight infants are those born weighing less than 2,500 grams, or about 5.5 pounds.

From 2010 to 2013, there were an average of 7 low-birth weight babies a year among HCF clients, 6% of total births; the same as Olmsted County in roughly the same time period.

Postpartum Depression Screening

The number of postpartum clients that were screened for postpartum depression increased 43% from 2010 (51.4%) to 2013 (73.5%)

The Omaha System: KBS

Knowledge, Behavior and Status (KBS) ratings are used to evaluate a client’s progress in relation to one of the 42 health-related problems within the Omaha System, using a one to five likert scale.

Ratings increased significantly from 2010 to 2013 in all three KBS areas. Client’s knowledge rating increased the most from 2.77 to 3.67, while client’s status rating increased the least from a 4.03 to 4.36. This indicates significant Pregnancy and Parenting improvement in Knowledge, Behavior and Status ratings among prenatal clients served.
From 2009 to 2013, HCF PHNs made an average of 2,335 visits per year to 670 parenting clients. The number of visits increased by 29%, but the number of clients decreased by 7%. This may be due to making more visits to fewer families for a longer period of time, with the implementation of Healthy Families America.
Client risk factors impact the complexity of client health issues that are addressed by the nurse and client during a visit. The top risk factors for parenting clients are low income (42%) and in a minority group (28%).

**Risk Factors**

<table>
<thead>
<tr>
<th>Low Income</th>
<th>Minority Group</th>
<th>Financial Difficulty</th>
<th>Unmarried</th>
<th>Family Stress Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>42%</td>
<td>28%</td>
<td>22%</td>
<td>21%</td>
<td>16%</td>
</tr>
</tbody>
</table>

**The Omaha System: Assessment**

The Omaha System is used by the PHN to assess clients’ problems. **Actual** problems are identified as problems with signs and symptoms. **Potential** problems have no signs or symptoms present, but have associated risk factors. When the client requests information about a problem, but has no signs or symptoms or risk factors present, this becomes a **Health Promotion** problem. The top five parenting client problems in each category are listed below.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Most Frequent Omaha Problems Parenting Clients 2008-2013</th>
<th>% of Clients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Actual</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Income</td>
<td>22.2%</td>
</tr>
<tr>
<td>3</td>
<td>Postpartum</td>
<td>19.8%</td>
</tr>
<tr>
<td>2</td>
<td>Caretaking/Parenting</td>
<td>18.3%</td>
</tr>
<tr>
<td>4</td>
<td>Pregnancy</td>
<td>11.6%</td>
</tr>
<tr>
<td>5</td>
<td>Communication with Community Resources</td>
<td>10.5%</td>
</tr>
<tr>
<td></td>
<td>Potential</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Caretaking/Parenting</td>
<td>13.3%</td>
</tr>
<tr>
<td>2</td>
<td>Mental Health</td>
<td>8.7%</td>
</tr>
<tr>
<td>3</td>
<td>Income</td>
<td>8.2%</td>
</tr>
<tr>
<td>4</td>
<td>Postpartum</td>
<td>7.5%</td>
</tr>
<tr>
<td>5</td>
<td>Residence</td>
<td>4.9%</td>
</tr>
<tr>
<td></td>
<td>Health Promotion</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Caretaking/Parenting</td>
<td>59.7%</td>
</tr>
<tr>
<td>2</td>
<td>Postpartum</td>
<td>41.4%</td>
</tr>
<tr>
<td>3</td>
<td>Family Planning</td>
<td>22.2%</td>
</tr>
<tr>
<td>4</td>
<td>Communication with Community Resources</td>
<td>8.6%</td>
</tr>
<tr>
<td>5</td>
<td>Pregnancy</td>
<td>7.5%</td>
</tr>
</tbody>
</table>
The racial makeup of HCF parenting clients is 75% white, 13% black and 9% Asian, with 12% of Hispanic ethnicity.

The majority of parenting clients are 20 to 34 years old (76%), followed by teen parents, 13 to 19 years (11%). Females represent 97% of all parenting clients.
Breastfeeding

The number of clients reporting that they breastfed for 6 months or more increased from 2010 (25%) to 2013 (41%). This is an increase of 64%.

Home Safety Checklist

The percentage of home safety checklists completed from 2010 (84%) to 2012 (75%) decreased by 10% but increased by 7% from 2012 (75%) to 2013 (80%).
From 2011 (85%) to 2013 (95%), the percentage of clients reporting they had no subsequent pregnancy at 24 months postpartum increased by 12%.

Knowledge, Behavior and Status (KBS) ratings are used to evaluate a client’s progress in relation to one of the 42 health-related problems within the Omaha System, using a one to five likert scale.

The average parenting KBS ratings for closed clients from 2010-2013 all increased. However, only knowledge and behavior average ratings had a significant change from the initial rating to the problem closure rating. While rated the highest overall, the status rating increase was not significant. These ratings indicate significant parenting improvement in Knowledge and Behavior rating among families served.
HCF PHNs make an average of 2,603 visits to 776 children annually. There was a 36% increase in child growth and development visits from 2009 (2,174) to 2012 (2,952), but a 7% decrease from 2012 (2,952) to 2013 (2,740). The number of clients has decreased by 21% since 2009. This may be due to making more visits to fewer families for a longer period of time, with the implementation of Healthy Families America.
HCF child growth and development clients’ race and ethnicity makeup is 71% white, 16% black and 9% Asian, and 16% Hispanic ethnicity. Males represent 52% of the child population. The majority (90%) of child growth and development clients are newborn to two years old.

Client risk factors impact the complexity of client health issues that are addressed by the nurse and client during a visit. During the 2009 to 2013 time period, the top risk factors for child growth and development clients were low income (36%) and in a minority group (28%).
The Omaha System: Assessment

The Omaha System is used by the PHN to assess clients’ problems. *Actual* problems are identified as problems with signs and symptoms. *Potential* problems have no signs or symptoms present, but have associated risk factors. When the client requests information about a problem, but has no signs or symptoms or risk factors present, this becomes a *Health Promotion* problem. The top five child growth and development client problems in each category are listed below.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Most Frequent Omaha Problems Child Growth &amp; Development Clients 2009-2013</th>
<th>% of Clients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Actual</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Growth &amp; Development</td>
<td>15.4%</td>
</tr>
<tr>
<td>2</td>
<td>Income</td>
<td>1.6%</td>
</tr>
<tr>
<td>3</td>
<td>Nutrition</td>
<td>1.2%</td>
</tr>
<tr>
<td>4</td>
<td>Digestion-Hydration</td>
<td>1.2%</td>
</tr>
<tr>
<td>5</td>
<td>Neglect</td>
<td>1.2%</td>
</tr>
<tr>
<td></td>
<td>Potential</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Growth &amp; Development</td>
<td>15.3%</td>
</tr>
<tr>
<td>2</td>
<td>Abuse</td>
<td>2.9%</td>
</tr>
<tr>
<td>3</td>
<td>Neglect</td>
<td>2.8%</td>
</tr>
<tr>
<td>4</td>
<td>Health Care Supervision</td>
<td>0.7%</td>
</tr>
<tr>
<td>5</td>
<td>Nutrition/Hearing</td>
<td>0.6%</td>
</tr>
<tr>
<td></td>
<td>Health Promotion</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Growth &amp; Development</td>
<td>58.2%</td>
</tr>
<tr>
<td>2</td>
<td>Health Care Supervision</td>
<td>3.8%</td>
</tr>
<tr>
<td>3</td>
<td>Abuse</td>
<td>1.6%</td>
</tr>
<tr>
<td>4</td>
<td>Nutrition</td>
<td>1.2%</td>
</tr>
<tr>
<td>5</td>
<td>Neglect</td>
<td>1.2%</td>
</tr>
</tbody>
</table>

From 2010 to 2013, there was an increase in the reports of infants/children with one or more visits to the emergency room/urgent care center for injury. This increase represents a report of one child in 2010 to five children in 2013.

**Infants/Children with One or More ER/Urgent Care Visit For Injury, 2010 - 2013**

<table>
<thead>
<tr>
<th>Year</th>
<th>% of HCF Infants/Children with 3 or more visits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1.5%</td>
</tr>
<tr>
<td>2011</td>
<td>2.1%</td>
</tr>
<tr>
<td>2012</td>
<td>2.6%</td>
</tr>
<tr>
<td>2013</td>
<td>3.5%</td>
</tr>
</tbody>
</table>
In the past four years, at least 98% of children served by HCF did not experience substantiated maltreatment.

The ASQ-3 is a developmental screening tool that helps determine the overall physical development of a child as reported by parents. Areas screened include: gross motor, fine motor, communication, problem solving, and personal/social.

Overall, many infants are meeting developmental milestones. From 2010 to 2013, there was a 4% increase in 4 month olds and a 6% increase in 10 to 12 month olds meeting developmental milestones.
The ASQ-SE is a social-emotional screening tool, reported by the parent, which helps determine the social-emotional development of children.

From 2012 (98%) to 2013 (91%) there was a slight (7%) decrease in infants meeting social-emotional milestones.

Knowledge, Behavior and Status (KBS) ratings are used to evaluate a client’s progress in relation to one of the 42 health-related problems within the Omaha System, using a one to five likert scale.

Client’s knowledge rating was the only rating to increase significantly from initial (3.15) to problem closure (3.63). (The knowledge rating is based on the caregiver.) Client’s behavior rating did increase (.018) but it was not significant. Client’s status rating decreased slightly (-.42); however, this decrease was not significant (behavior and status are based on child). These findings indicate that infants start out healthy at birth and maintain health through closure.
The HCF PHN’s and other community partners refer infants to the Follow Along Program (FAP), which offers a periodic assessment of a child’s development and ideas for encouraging their development through a computer assisted tracking program. This program is for children birth to 36 months.

From 2009 to 2012, 12% (1,070) of all first-borns in Olmsted County were enrolled in FAP.

During this time period, an average of 91% of children met developmental milestones. Of those not meeting developmental milestones, 100% received follow-up from a public health nurse, 13% of them were referred to Early Childhood Special Education and 18% to a health care provider.
Over the past five years (2009-2013), measured improvements have been made among those served in the HCF Division, including:

- 64% increase in breastfeeding duration (≥6 months)
- 43% increase in postpartum depression screenings
- 21% reduction in teen births
- 12.5% lower rate of premature births compared to Olmsted County
- 12% reduction in subsequent pregnancies at 24 months postpartum

Along with the above improvements, many measures continue to remain positive, including:

- Children meeting developmental milestones and receiving PHN follow-up
- Parents gaining knowledge to help their children learn, grow and be healthy
- Children living in safe homes that are free of neglect and maltreatment
- Families remaining covered by at least one form of health insurance

Overall, the HCF client population is more diverse in regards to race and ethnicity than Olmsted County’s general population. HCF serves a high percentage of Hispanics, blacks and Asians; knowing this, it is not recommended to generalize HCF outcomes to the full Olmsted County population.

The mission of the HCF Division is to ensure that children and families are healthy, safe and nurtured. In the next year, HCF will strive to fulfill this mission by:

- Fully implementing the strategies of the evidence-based Healthy Families America model to connect expectant parents, and parents of newborns, with parenting and child development assistance in their homes
- Educating HCF staff about the impact of maternal depression and the use/standards of depression screening and referral
- Developing and monitoring additional performance measures to further enhance describing how services provided by HCF improve maternal and child health outcomes