Healthy Mothers, Healthy Infants: Reducing Racial and Ethnic Disparities

The health of women of childbearing age and their infants is an important measure of community well-being and a predictor of the health of the next generation. Rhode Island has made significant strides in maternal and infant health care during the last decade. The expansion of public health insurance through RiTe Care has narrowed the gap between publicly and privately insured patients in a number of maternal and infant health areas. In some areas, such as the percentage of women receiving adequate prenatal care and the portion of the population with health insurance coverage, Rhode Island is a leader in the country.

Despite progress, there are continuing disparities in health care utilization and health outcomes among different racial/ethnic groups and across communities. Additional community-based efforts and state policy action are needed if we are to ensure adequate health access and outcomes for all mothers and infants, regardless of race, ethnicity, residence, or income.

- During the 1990s, Rhode Island’s infant mortality rate declined for White and Black infants, but remained level for Hispanic and Asian infants.
- Despite progress over the past decade, the Black infant mortality rate remains twice the rate for White infants and higher than that of any other racial and ethnic group.

NATIONAL DISPARITIES IN MATERNAL AND INFANT HEALTH

According to a recent study by the National Academy of Sciences, racial and ethnic minorities are more likely to receive lower quality health care in the U.S., even when insurance, income, age, and severity of conditions are comparable.5

PERSISTENT RACIAL AND ETHNIC DISPARITIES

On virtually every indicator of maternal and child health access or outcomes, there are significant national differences between minorities and Whites. Disparities continue in rates of insurance; adequacy of prenatal care; incidence of low birth weight, hospitalization and infant mortality; teen pregnancy and birth rates; and rates of breastfeeding.6,7,8,9 The elimination of such disparities is among the goals of Healthy People 2010, a federal health agenda with objectives that have been adopted by Rhode Island.10

THE INTERSECTING CAUSES OF RACIAL AND ETHNIC DISPARITY

The causes of disparity are multiple and interrelated. They include socioeconomic factors such as poverty, poor housing, lack of insurance and reduced access to providers; behavioral factors, such as maternal smoking or drug use; cultural factors, such as presence or absence of extended family supports; physiological risk factors, such as maternal weight, nutrition, or hypertension; and system/provider bias or lack of cultural competence, including language barriers, disrespect by providers and outright discrimination.11,12,13

ADDRESSING RACIAL AND ETHNIC DISPARITIES IN HEALTH CARE

Based on its findings of inequity and bias in health care, the National Academy of Sciences recommended the following:

- Increase the numbers of minority health professionals and provide cross-cultural training.
- Reduce disparities between public and private insurance plans.
- Ensure consistency of care through evidence-based guidelines.
- Encourage availability of language interpretation and community health workers.
- Improve patient education and empowerment.
- Structure payment systems to ensure an adequate supply of services to minorities.

In 1994, Rlте Care (Rhode Island’s Medicaid managed care program) greatly extended Medicaid eligibility. Currently, pregnant women and children up to age 19 with family income up to 250% of the poverty level can qualify, along with parents of eligible children up to 185% of poverty. As a result, Rhode Island has the lowest rate of uninsured children in the country — 5% compared to 14% nationally. However, rates of uninsured children remain higher in Pawtucket (10%), Providence (7%), and Central Falls (7%), where there are high concentrations of minority children.

*R"Adequate" means that prenatal care began by the 4th month of pregnancy and at least 80% of recommended visits were received.

Rhode Island’s implementation of Rlте Care improved adequacy of prenatal care for enrollees and narrowed the gap between adequacy of care received by those participating in private and public insurance. These changes particularly benefit pregnant women who are non-White, unmarried, under age 18 and have low educational attainment (since they are overrepresented in the Medicaid population).

Among Rlте Care members, 25% of emergency room visits for women ages 15-44 are due to conditions related to pregnancy (compared with less than 5% nationally for women of that age group). Preliminary analysis suggests that patients who receive care at certain hospital clinics have higher emergency room utilization rates than patients routinely treated by private physicians or at health centers.

Source: Griffin, J. (1999 Update). The Impact of Rlте Care on Adequacy of Prenatal Care and the Health of Newborns. MCH Evaluation Inc.
Pre-Conception Intervention: The Women’s Health Screening and Referral Program

Rite Care has improved health care for pregnant women and infants in Rhode Island. However, many health risks are best addressed before conception. Women who are poor, uninsured and likely to become pregnant often have difficulty accessing pregnancy prevention services and health services that would reduce risks in the event of a pregnancy.19

The Women’s Health Screening and Referral Program (WHSRP) is a program of the Rhode Island Department of Health. Its goals include preventing unintended pregnancies, improving pregnancy outcomes through risk identification and referral, identifying service gaps, and creating a continuum of care for all women of childbearing age. The program functions at ten Title X family planning clinics located in high-poverty communities with large percentages of minorities.

Unplanned Pregnancies

It is estimated that between one-third and one-half of all pregnancies in Rhode Island are unintended, and rates for teens may exceed 90%.20

WHSRP provides free pregnancy tests, administers a voluntary risk assessment survey, and provides education and referral services such as family planning, smoking cessation, home visiting, domestic violence assistance, nutrition services and medical care.21

About half of women with a negative pregnancy test will return with a positive pregnancy test within a year.22 Women with negative pregnancy test results but with one or more risk factors present a particular opportunity for both prevention of unplanned pregnancies and for health improvement/risk reduction prior to pregnancy.

### Incidence of Selected Risks Among Women with Negative Pregnancy Test Results, Spring 2001 (WHSRP)

<table>
<thead>
<tr>
<th>Behavioral Risks</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are not taking folic acid</td>
<td>84%</td>
</tr>
<tr>
<td>Smoke or are around others who smoke</td>
<td>64%</td>
</tr>
<tr>
<td>Are using alcohol and/or drugs</td>
<td>22%</td>
</tr>
<tr>
<td>Have concerns about nutrition or their diet</td>
<td>21%</td>
</tr>
<tr>
<td>Are depressed or have other mental health problems</td>
<td>16%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medical Risks</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not know or are not immune to rubella</td>
<td>48%</td>
</tr>
<tr>
<td>Have personal medical problems</td>
<td>16%</td>
</tr>
<tr>
<td>Had previous pregnancy complications</td>
<td>10%</td>
</tr>
<tr>
<td>Have birth defects or mental retardation in family</td>
<td>11%</td>
</tr>
</tbody>
</table>

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<tr>
<th>Socio-Economic Risks</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have no one at home to rely on for help with a pregnancy</td>
<td>15%</td>
</tr>
<tr>
<td>Have transportation and/or child care problems</td>
<td>11%</td>
</tr>
</tbody>
</table>

*Source: Rhode Island Department of Health, Women’s Health Screening and Referral Program, Care Questionnaires, Spring 2001.*

- Other risks include HIV, domestic violence, and lack of food, phone access or utilities.
- Folic acid can reduce the incidence of certain birth defects which develop during the first few weeks of pregnancy. In Rhode Island folic acid use is lowest among women ages 25-34 and Black women.23
- A woman’s nutrition during pre-conception and pregnancy is important for birth outcomes. In Rhode Island in 2000, among households in poverty areas, elevated rates of food insecurity were found to exist among 41% of Hispanic households compared with 21% of non-Hispanic households.24
Tobacco use during pregnancy is associated with low birth weight and premature birth. During the 1990s, the rate of delayed prenatal care declined sharply in Rhode Island among all racial and ethnic groups. However, White women remain almost twice as likely to receive early prenatal care as minority women.

Rates of delayed prenatal care remain higher in the five core cities of Providence, Pawtucket, Woonsocket, Newport, and Central Falls. Central Falls has the highest rate (20%), more than twice that of Rhode Island as a whole.

Tobacco use during pregnancy is associated with low birth weight and premature birth. During the 1990s, tobacco use during pregnancy declined among all racial/ethnic groups except Asians, for whom it did not change.

Teen mothers ages 15-19 reduced their rates of smoking during pregnancy from 26% to 23% between 1990 and 1999, but remain the age group with the highest smoking rates.
INFANT HEALTH AND DEVELOPMENT

While overall infant mortality declined in Rhode Island during the last decade, racial and ethnic disparities remain. Low birthweight increased during the 1990s. Moreover, the physical and emotional development of many infants remains threatened by multiple and varied risk factors such as domestic violence, substance abuse and maternal depression.25

- Native American and Black women have the highest rates of low birthweight.
- With the exception of Newport, rates of low birthweight infants are higher in the core cities than statewide, with the highest rates in Providence (8.9%).
- Low birthweight (less than 5.5 lbs) increased in Rhode Island from 6.1% in 1988-1992 to 7.3% of births in 1996-2000.
- Multiple births represent an increasing proportion of low birthweight infants. In 1989 multiple births represented 16% of low birthweight infants; in 1999 multiple births represented 27% of all low birthweight infants.

- Breastfeeding is a primary factor in achieving optimal infant health and development.26 Breastfeeding rates are lower for minorities in Rhode Island, and are lower in core cities (with the exception of Newport) than in Rhode Island overall.
- Black women in the United States and in Rhode Island have the lowest breastfeeding rates.27
- Breastfeeding can be encouraged through paid maternity leave, on-site child care, and opportunities during the day to nurse or express milk.28,29,30

Breastfeeding Rates by Race/Ethnicity, Rhode Island, 1996-2000


Low Birthweight Infants by Race/Ethnicity, Rhode Island, 1996-2000

INFANTS IN THE MOST VULNERABLE FAMILIES

MENTAL HEALTH, SUBSTANCE ABUSE AND DOMESTIC VIOLENCE

The profound effects of maternal depression and other forms of mental illness on infant and child development are well-documented. Providers who serve low-income populations in Rhode Island report that maternal mental health needs may go undiagnosed and untreated. Post-traumatic stress disorder is particularly common among refugees who escaped violence in their home country, yet there is frequently a lack of available services, especially if language is a barrier. Domestic violence is also linked to depression, child abuse and neglect as well as to delays in infant development. Women are more likely to be victims of domestic violence during pregnancy than at any other time in their lives.

Substance abuse also affects birth outcomes and infant development. Criminalization of maternal substance abuse overlooks both the nature of addiction as a disease and the potential for improved outcomes if the focus shifted to providing treatment and social service supports for both the mother and the infant.

Ensuring the physical health and emotional development of the most vulnerable infants in Rhode Island requires that health providers understand the nature and impact of mental health, substance abuse and domestic violence on infants, that opportunities for identification and referral in these areas are maximized, and that capacity is increased to ensure access to culturally competent treatment and support services.

UNIVERSAL NEWBORN RISK SCREENING PROGRAM

Screening
The Universal Newborn Risk Screening Program measures newborn risk factors. Risks range from physical factors such as low birth weight, prolonged intensive care hospitalization and developmental disabilities, to socioeconomic factors such as maternal age, education, single status, and poverty. Rates of newborn risk for minorities and in the five core cities are significantly higher than the Rhode Island average.

Home Visiting
At-risk babies are offered home visits through the Rhode Island Department of Health’s Family Outreach Program which contracts with visiting nurse organizations. In 1999, 57% of at-risk infants in Rhode Island received a home visit. Home visits offer an opportunity to further screen the broader category of at-risk infants, to identify specific needs, provide parenting education, promote breastfeeding, and to connect families to a medical home and to early childhood or other services. Referrals may include Early Intervention, lead screening, WIC (Women, Infants and Children nutrition program), child care, RIt Care, and Early Head Start.
Most of the differences between teen pregnancy rates and teen birth rates are due to induced abortions. The abortion rate varies from a low of 4 per 1,000 for Hispanic teens to a high of 27 per 1,000 for Black teens.

Between 1996 and 2000 in Rhode Island, 21% of births to teens were to a teen who was already a mother. Teens as young as 15 and 16 had repeat births.

Over half of all teens ages 15-19 who became pregnant between 1996 and 2000 lived in the five core cities.

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Rhode Island has the highest teen birth rate in New England. Several risk factors contribute to Rhode Island’s higher teen birth rate. Among New England states, Rhode Island has the highest child poverty rate, the highest rate of high school dropouts and teens not working, and the lowest rate of publicly funded contraceptive services to sexually active teens.
CAUSES OF DISPARITY IN RHODE ISLAND

As is true nationally, the causes of racial and ethnic disparities in Rhode Island are multiple and interrelated. They include socioeconomic status and related access barriers, cultural/behavioral factors, pre-existing physical conditions, provider or system biases and lack of cultural/linguistic competence.

Demographic conditions specific to Rhode Island that impact on the disparity in health access and outcomes include the following:

- During the 1990s, the poverty rate in Rhode Island increased from 14% to 17%. Poverty is closely related to race/ethnicity, single parenthood and maternal age and education. Poverty is one of the strongest predictors of maternal and infant health as well as long-term child outcomes.

- Rhode Island’s housing costs are high, and exacerbate the stresses and isolation of poverty by consuming a disproportionate share of income, contributing to unsafe housing and housing instability and concentrating low-income families in low-income neighborhoods.

- The ethnic/racial and linguistic diversity of Rhode Island’s population has increased over the last decade. Minority populations are increasingly concentrated in core urban areas associated with decreased opportunities and negative maternal and infant health outcomes.

- The Hispanic population of Rhode Island experienced the largest growth during the 1990s. Nationally, Hispanics are the ethnic group least likely to be insured.

- Teens in Rhode Island are far less likely to receive publicly funded contraceptive services than in other New England states, with correspondingly higher teen birth rates in Rhode Island. Rhode Island children have higher rates of poverty than elsewhere in New England and Rhode Island teens have higher rates of dropping out of school and not working.

BARRIERS AND STRATEGIES: LESSONS FROM PARENTS AS PARTNERS COMMUNITY PILOTS

Rhode Island Department of Health pilot projects in Central Falls and Woonsocket assessed parents’ perception of maternal and child health services in underserved communities and identified as barriers:

- Lack of knowledge about program services and eligibility.
- Lack of transportation and child care.
- Lack of evening and weekend hours essential for working families.
- Rude or disrespectful frontline staff.
- Stigma of using publicly funded programs.
- Lack of trust, including fear of intervention by the Department of Children, Youth and Families.
- Concern among Latino families that use of services may negatively affect immigration status.
- Lack of cultural competence by providers, including lack of staff who speak the family’s language and understand its culture.

Lessons included the importance of provider training and bicultural staff, the effectiveness of parent-to-parent outreach and education, and the public health model of agency partnership with community parents and providers to assess needs and ensure quality and accessibility of services.

Rhode Island has made significant progress in several areas of maternal and infant care, most notably in access to insurance and early prenatal care. Nonetheless, significant disparities remain. Addressing them will require strategies and investments which focus on the foundations of economic security for all families, the growing diversity of Rhode Island and the needs of underserved communities.

Focus on High-Poverty Communities. Infant mortality rates (IMR) are an important indicator of community well-being. Communities with multiple problems such as poverty, poor housing conditions, and unemployment tend to have higher infant mortality rates than more advantaged communities. Three of the five core cities with high child poverty rates have infant mortality rates that exceed the state rate of 6.2 infant deaths per 1,000 live births: Providence (IMR of 9.8), Pawtucket (IMR of 8.4) and Central Falls (IMR of 7.7). In addition, these communities have higher rates of uninsured children, higher rates of delayed access to prenatal care, higher rates of low birthweight infants, and higher teen birth rates than the state as a whole. Government and civic leaders, community agencies, and families can work together to ensure that young women of childbearing age, infants, and children have access to primary health care services, family planning, support services, and affordable housing.

Sustain and Expand Investments in Income Supports for Low-Income Families. Sustained investments in income support programs for low-income families helps to avoid many of the negative outcomes associated with poverty. Community leaders can work to ensure that even the most high risk families in their communities have access to health insurance (RIte Care), child care, and cash assistance – including expanded access to adult education and training. There continues to be a need for affordable housing in communities across the state. Building on Rhode Island’s leadership in these critical policy areas is essential if we are to make progress toward eliminating disparities in maternal and infant health.

Focus on Family Support and Infant Development. Poverty, isolation, lack of a support network, and other risk factors place many women and infants at risk for poor health and developmental outcomes. For some families, the added problems of domestic violence, substance abuse, and maternal depression compromise child development with long-term consequences. Targeted resources are needed to link the most at-risk pregnant women and new parents to comprehensive programs that can work with them intensively and over time. Promising strategies include the expansion of the existing capacity of programs such as Early Head Start which promotes healthy prenatal outcomes for pregnant women, enhances the development of infants and young children, and promotes healthy family functioning. Home visiting programs can be expanded and linked with child development services, quality child care, and Early Intervention services. Consideration should also be given to enhancing paid family leave and workplace flexibility, either through state policies or employer incentives, so as to improve opportunity for bonding, breastfeeding, and optimal physical and emotional development of infants.

Focus on Access and Cultural Competence. The continuing racial and ethnic disparities in maternal and infant health outcomes indicate the need for investments that increase access for families diverse in culture and language. Specifically, additional resources should be targeted to programs that: 1) improve the cultural and linguistic competence of the service delivery system; 2) enlist community residents in service delivery for women and infants in order to ensure that services address real barriers and needs; 3) enhance outreach to link isolated families to existing services; and 4) increase service capacity in areas such as mental health and substance abuse treatment for women.
**Focus on Teens.** The health of women before they get pregnant is closely linked to subsequent maternal and infant health outcomes. Ensuring that teens have access to high quality health care throughout adolescence and reducing the pregnancy rates among teens are two measures that hold real potential for reducing racial and ethnic disparities in health outcomes. In Rhode Island, teens have high rates of sexually transmitted diseases and unplanned pregnancies. The teen birth rate in Rhode Island, while on a downward trend, is higher than the rest of the New England states. Yet access to publicly funded contraceptive services is the lowest of the New England states. More than one in five births to Rhode Island teens is to a teen who is already a mother. Promising strategies to prevent teen pregnancy and improve health outcomes for teens include: expanding the capacity of prevention programs, including primary health care services designed to meet the special needs of teens of diverse racial, ethnic and cultural backgrounds; sustaining and expanding school-based health centers; increasing access to prevention and family planning services; implementing community-wide preventive health education targeted to teens; and investing in programs for adolescent parents that support the healthy development of both the teen and their child.

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32 Rhode Island KIDS COUNT is a children’s policy organization that provides information on child well-being, stimulates dialogue on children’s issues, and promotes accountability and action. Primary funding for Rhode Island KIDS COUNT is provided by The Rhode Island Foundation and The Annie E. Casey Foundation. Additional funding is provided by Prince Charitable Trusts, The Robert Wood Johnson Foundation, the David and Lucile Packard Foundation, the Ford Foundation, the Ewing Marion Kauffman Foundation, CVS/pharmacy and other corporate, foundation, and individual sponsors.

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