Issue Brief: Arizona's Health Start Program improves health outcomes for American Indian mothers & their children

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Key Findings

A recent evaluation of Arizona's Health Start Program found that mothers and children enrolled during 2006-2016 had several improved health outcomes. This Issue Brief highlights study results about American Indian mothers. Compared to mothers who did not participate, Health Start mothers were:



more likely to attend prenatal visits early and often



less likely to have babies with low birthweight



more likely to complete early childhood vaccinations for their children by age 2

Introduction

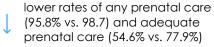
Researchers in Arizona conducted a multi-year study to find out if the Health Start home visiting program improved the health of mothers and children. This Issue Brief summarizes the results from journal articles and reports and describes the findings for American Indian mothers. In 2016, about 5% of all Arizona women (ages 16-45) identified as American Indian, and were more likely to be uninsured (20% vs. 12.8%) and have low income (35.8% vs. 19.5%).

What is Arizona's Health Start Program?

The Arizona Department of Health Services operates Health Start in 14 counties throughout Arizona (map, p. 4). Health Start's mission is "to educate, support and advocate for families at risk by promoting optimal use of community-based family health care services and education services through the use of community health workers (CHWs) who live in and reflect the ethnic, cultural and socioeconomic characteristics of the community they serve." Health Start CHWs complete more than 50 hours of training and can meet with clients at home, health clinics, or in a convenient location.

Some of the facts

Compared to non-Hispanic white mothers who gave birth in 2016, American Indian mothers reported:



higher rates of preterm births (9.3% vs. 6.4%) & low birthweight babies (6.2% vs. 4.8%)

Health Start CHWs



Encourage mothers to access prenatal care early in pregnancy



Conduct child developmental screenings



Encourage early childhood immunizations



Provide referrals & application assistance for insurance, WIC, & other social/medical programs

Who is enrolled in the Arizona Health Start Program?

Women are eligible to enroll in Health Start if they

1) live in the targeted service area, 2) are pregnant or
postpartum with a child under age two, and 3) have one
or more risk factors. There are no income or age
requirements.

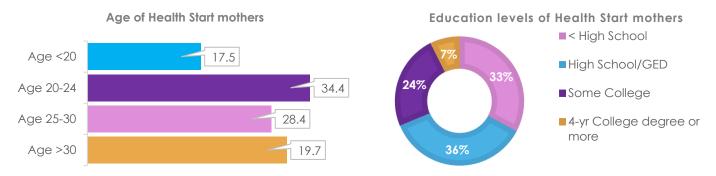
Majority of Health Start mothers identify as Latina (59%), 24% white, 12% American Indian, and 5% other. Over 80%

What's a risk factor?

Health Start screens for medical risks (previous preterm birth, miscarriage, chronic diseases, maternal weight/height/age) and social risks (marital status, race/ethnicity, education level, insurance type).

of participants have Medicaid insurance. Almost 42% are first-time mothers and about 11% have a pre-pregnancy health risk such as diabetes or hypertension. Most mothers who participate in Health Start are under age 25 and 33% have less than a high school education.

(Note: data based on over 17,000 Health Start participants who were enrolled between 2006 and 2016)2



Health Start improves maternal & child health

Between 2006 and 2016, Health Start CHWs served over 7200 pregnant mothers.² The study found that Health Start mothers attended more prenatal care visits, had better birth outcomes, and completed all vaccinations for their children compared to mothers who were not enrolled in Health Start (control group). The study focused on several subgroups that are historically underserved and/or disadvantaged (e.g. Latina mothers, American Indian mothers, mothers with low education). This Issue Brief reports on prenatal care attendance, birth outcomes, and child vaccination completion rates for American Indian mothers and their children.

Prenatal care -----

Early and adequate prenatal care is widely accepted to improve pregnancy and birth outcomes.^{3,4} CHWs screen, educate, assist, & follow-up with clients to ensure they have access to prenatal care with a medical provider. American Indian mothers were 122% more likely to attend any prenatal care if they were enrolled in Health Start, compared to American Indian mothers who were not in the program.

Did you know?

In 2016, Health Start CHWs had 1300 pregnant clients and conducted a total of 4770 prenatal visits.

Definitions: Any prenatal care= visits completed at any time during pregnancy; Adequate prenatal care= visits started by 4th month and 80-109% of recommended visits completed; Adequate plus= visits started by 2nd month and 110% or more of recommended visits completed. Recommended visits= one visit every 4 weeks through 28 weeks, one visit every 2 weeks through 36 weeks, one visit weekly thereafter. ⁵

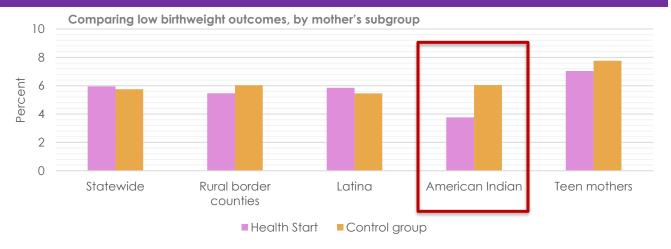
Birth outcomes -----

Babies with a healthy birthweight have lower risks of health and learning/behavioral issues. 6 CHWs help clients prepare for safe and healthy pregnancies through education and referrals.

American Indian mothers had 39% fewer low birthweight babies if they were enrolled in Health Start, compared to American Indian mothers who were not in the program.

Did you know?
In 2019, the average hospital costs in AZ for a very low birthweight baby is nearly
25x more than a baby with healthy birthweight.6

Definitions: preterm = birth before 37wks of pregnancy, low birthweight = <2500g (5.5lb), very low birthweight = <1500g, extremely low birthweight = <1000g.



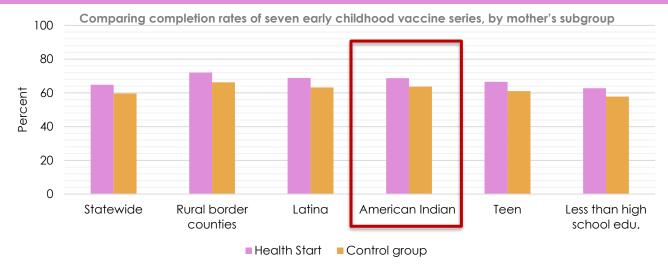
Child immunizations -----

Immunizations are an effective measure to prevent childhood diseases. CHWs screen, educate, and coordinate care to ensure Health Start children receive vaccines on time. American Indian children in Health Start were 25% more likely to complete their 7 vaccine series than American Indian children who were not in the program (69% vs 64%).

Did you know?

For every \$1 spent per child vaccination, **10X more** is saved to society.⁷

Definitions: The 7 vaccine series & doses= Diphtheria & tetanus toxoids & acellular or whole-cell pertussis (DTaP/DTP; 4 doses), *Haemophilus influenzae* type b (Hib; 3 or 4 doses depending on the regimen), hepatitis B (HepB; 3 doses), measles-mumps-rubella (MMR; 1 dose), pneumococcal conjugate vaccine (PCV13; 4 doses), poliovirus (3 doses), and varicella (1 dose).8



Conclusions

Results from the Arizona Health Start Program Evaluation provide strong evidence of the effectiveness of including CHWs in home visitation programs. After 30 years of working with families, Health Start remains committed to strengthening the program to improve health for mothers and children in Arizona.

Want to learn more?

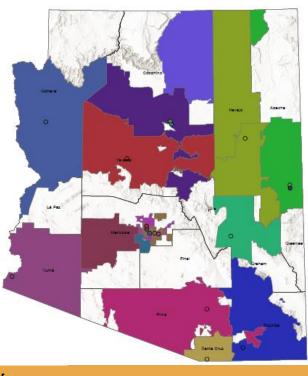
Review our Evaluation Report, peer-reviewed articles, & technical appendices at https://nau.edu/cher/ Or scan here!



Recommendations

- Promote CHWs as a patient-centered, cost-effective healthcare workforce
- **Integrate** CHWs in community-based and clinical settings
- **Enhance** CHW curriculum to emphasize healthy weight and health conditions management during the prenatal period
- Support CHWs (resources, training) to connect with all clients up to 4 times per month during pregnancy
- **Encourage** CHWs to check-in with clients before and after each scheduled prenatal visit to promote and improve attendance and preparation, and provide follow-up
- **Develop** and expand transportation services to address clients' access barriers to prenatal visits

Arizona Health Start Area Map, 2021



Arizona Health Start sites

- Adelante Healthcare
- Apache County Health Department
- Cochise County Health & Social Services
- Coconino County Public Health Services District
- Mariposa Community Health Center
- Mohave County Health Department
- Native Health Community Health Center (Mesa)
- Native Health Community Health Center (Phoenix)
- North Country Healthcare, Inc (Apache County)
- North Country Healthcare, Inc (Flagstaff)
- North Country Healthcare, Inc (Navajo County)
- Pima County Health Department
- San Carlos Apache Tribe
- Tempe Community Action Agency
- Unlimited Potential
- Yavapai County Community Health Services
- Yuma County Health Department

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