NOSORH: The Changing Landscape Alisa Druzba, NOSORH President Scott Ekblad, NOSORH Past President National Organization of State Offices of Rural Health

Opportunities on the horizon



Social determinants of health Epigenetics Infant home visits Adverse childhood experiences

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Overcoming Obstacles to Health, Report From the Robert Wood Johnson Foundation to the Commission to Build a Healthier America



"Despite what many believe, a person's health is not only a product of good medical care and genes. In fact, in many cases, these may only be small pieces of a much larger picture. As this report makes clear, a person's health and likelihood of becoming sick and dying prematurely are greatly influenced by powerful social factors such as levels of education and income and the quality of neighborhood environments."

http://www.commission on health.org/PDF/Obstacles To Health-Report.pdf

Social Determinants of Health



- Conditions in the environments in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.
- Conditions (e.g., social, economic, and physical) in these various environments and settings (e.g., school, church, workplace, and neighborhood) have been referred to as
- In addition to the more material attributes of "place," the patterns of social engagement and sense of security and wellbeing are also affected by where people live.

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SDH Data



- Babies born to mothers who did not finish high school are nearly twice as likely to die before their first birthdays as babies born to
- Children in poor families are about seven times as likely to be in poor or fair health as children in the highest-income families. For both men and women, more education often means longer life. College graduates can expect to live at least five years longer than
- individuals who have not finished high school.

 Adult life expectancy increases with increasing income
- Although the poor and near-poor are generally most affected, middle-class people frequently have poorer health than the most affluent. Reducing health inequalities can benefit middle-class Americans as well as those living in poverty.

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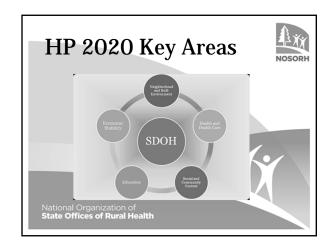
Healthy People 2020 Approach to Social **Determinants of Health**

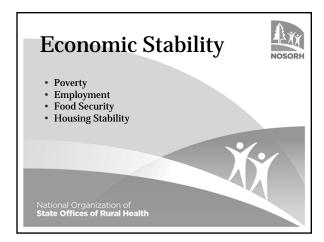


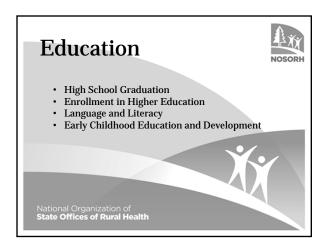
A "place-based" organizing framework, reflecting five (5) key areas of social determinants of health (SDOH), was developed by Healthy People 2020. These five key areas (determinants) include:

• Economic Stability

- Education
- Social and Community Context
- Health and Health Care
 Neighborhood and Built Environment

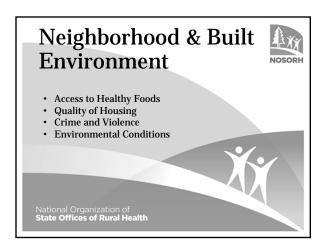






Social & Community Context - Social Cohesion - Civic Participation - Perceptions of Discrimination and Equity - Incarceration/Institutionalization

Health & Health Care Access to Health Care Access to Primary Care Health Literacy National Organization of State Offices of Rural Health



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Health disparities as a function of health inequities.

Although reducing social disparities in medical care is essential, these efforts alone cannot adequately reduce socioeconomic and racial or ethnic disparities in health.

Resources that enhance quality of life can have a significant influence on population health outcomes.

Examples of these resources include safe and affordable housing, access to education, public safety, availability of healthy foods, local emergency/health services, and environments free of life-threatening toxins.

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Health in All Policies **Strategy**



Create an equal opportunity to make the choices that lead to good health.

Advances are needed not only in health care but also in fields such as education, childcare, housing, business, law, media, community planning, transportation, and agriculture.

- Making these advances involves working together to:

 Explore how programs, practices, and policies in these areas affect the health of individuals, families, and communities.

 Establish common goals, complementary roles, and ongoing constructive relationships between the health sector and these areas.

 Maximize opportunities for collaboration among Federal-, state-, and local-level partners related to social determinants of health.

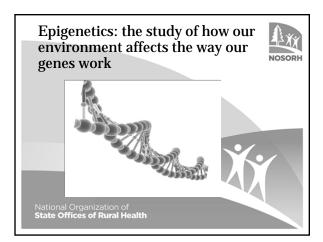
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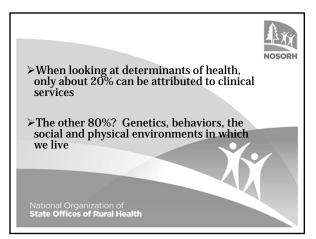
Social Determinants of Am **Health Resources**

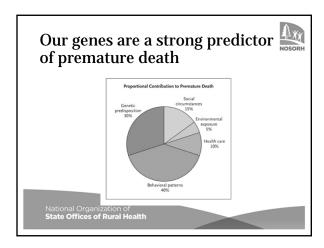


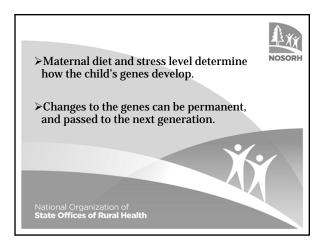
Robert Wood Johnson Foundation Healthy People 2020 Centers for Disease Control and Prevention World Health Organization

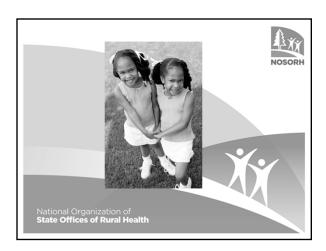
Food for thought for State Offices of Rural Health

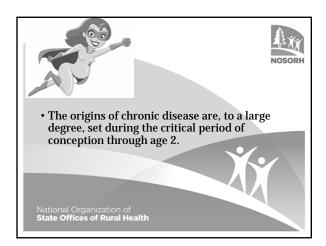


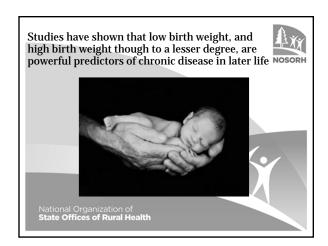














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- Scientific advances have shed light on other ways in which economic and social conditions during the first few years of life affect brain development in infants and toddlers.
- Children in more favorable socioeconomic circumstances often receive more positive stimulation from parents and caregivers and high levels of such stimulation are associated with increased brain, cognitive, behavioral and physical development.
- development.

 Thus, biological changes due to adverse socioeconomic conditions in infancy and toddler years become literally "embedded" in a child's body, limiting developmental capacity

The first five years of life appear to be most crucial.

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Home Visiting



Voluntary, home-based programs, also known as home visits, match parents with trained professionals to provide information and support during pregnancy and throughout their child's first three years.

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Prenatal



Home visitors partner with expectant moms to encourage them to make regular prenatal care visits, quit smoking and drinking and eat a balanced diet—all behaviors that dramatically decrease their chances of having a low birthweight or substance-exposed baby.

- Every low birthweight or preterm birth costs states between \$28,000 and \$40,000 in medical care and other related costs.
- One Cincinnati program found that infant death rates fell by 60 percent among home visiting participants.

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Home visiting helps parents find healthy solutions to stressful circumstances by connecting them with safe and stable housing and counseling for substance abuse or depression, as well as by teaching them to build positive, loving relationships with their

Research shows that kids who have strong bonds with their parents have better lifelong emotional health and have a lower risk of later problems, including alcoholism, depression, eating disorders, heart disease, cancer and other chronic illnesses.

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Early Learning



By teaching parents to stimulate their children's early learning, home visiting programs help build critical pre-literacy skills and improve achievement test scores.

- At age six, children who participated in the NFP home visiting program in Memphis had higher cognitive and vocabulary scores than those in the control group.
 At age nine, these children had higher grade point averages and achievement test scores in math and reading in first through
- third grades than those in the control group.

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Family Education/Economic Attainment



By encouraging parents to continue their education, apply for jobs and improve relationships with the people in their lives, home visitors help families increase their ability to help themselves—and to build a lasting, stable future for their children.

Fifteen years after their participation in a nurse home visiting program, mothers had:

- An 83 percent increase in employment by their child's fourth
- A 20 percent reduction reduction in welfare use; and
 A 46 percent increase in father's presence in the household.

By reducing long-term costs in state systems, such as human services and special education, home visiting programs can yield more than \$5.00 in returns for every \$1.00 spent.

Adverse Childhood Experiences (ACE) More food for thought for State Offices of Rural Health National Organization of State Offices of Rural Health

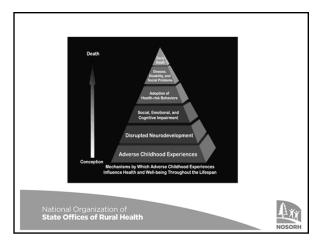
What are Adverse Childhood Experiences? • emotional abuse • physical abuse • sexual abuse • emotional neglect • physical neglect • physical neglect

What are Adverse **Childhood Experiences?**



- · witnessing their mothers being treated violently
- growing up around abuse of alcohol and/or drugs
- growing up with a mentally ill person in the household
- · losing a parent due to separation or divorce
- growing up with a household member in jail or prison

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The more categories of trauma experienced in childhood, the greater the NOSOR likelihood of experiencing:



- alcoholism and alcohol abuse
- chronic obstructive pulmonary disease (COPD)
- $\bullet \ depression$
- · fetal death
- poor health-related quality of life
- illicit drug use
- ischemic heart disease (IHD)

- · liver disease
- intimate partner violence
- multiple sexual partners
- sexually transmitted diseases
- smoking
- obesity
- $\bullet \ suicide \ attempts$
- unintended pregnancies

American Journal of Preventive Medicine, 1998

"We found a strong graded relationship between the breadth of exposure to abuse or household dysfunction during childhood and multiple risk factors for several of the leading causes of death in adults."

