What is a Public Health Approach & What does it Mean for Project LAUNCH Grantees?

Lara Robinson, Behavioral Scientist Ruth Perou, Team Lead CDC Child Development Studies Team (Special thank you to Dr. James Mercy, CDC Division of Violence Prevention) Project LAUNCH Grantees Meeting, Thursday, Jan. 14, 2010



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"The findings and conclusions in this presentation are those of the author and do not necessarily represent the OFFICIAL POSITION of the Centers for Disease Control and Prevention."





Public Health & Project LAUNCH Guiding Principles





The LAUNCH Guiding Principles

A public health approach
An ecological perspective
A holistic approach





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Project LAUNCH Strategies

- Evidence-based prevention & promotion
- Community involvement: cross-training, workforce development, & communications
- Cross-sector collaboration & systems integration
- Family-centered & culturally competent





Public Health Approach





What is Public Health?

Population approach **Community** as client Proactive and preventative Health protection & promotion Programs, policies, capacity building, services, and research/evaluation Multidisciplinary Ecological Holistic SAFER • HEALTHIER • PEOPL

The 10 Essential Elements of Public Health

Public Health has identified the following 10 essential elements that define public health practice:

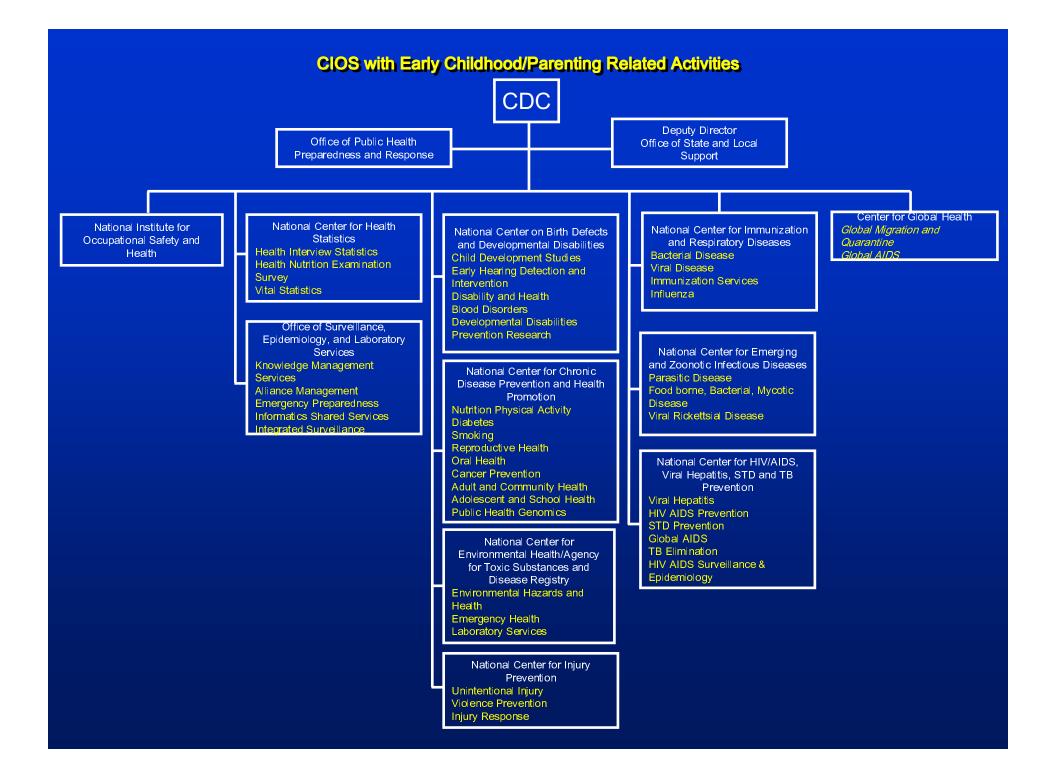
1.	Monitor health status to identify community health problems*
2.	Diagnose and investigate health problems and health hazards in the community
3.	Inform, educate, and empower people about health issues
4.	Mobilize community partnerships to identify and solve health problems
5.	Develop policies and plans that support individual and community health efforts
6.	Enforce laws and regulations that protect health and ensure safety*
7.	Link People to needed personal health services and assure the provision of health care when otherwise unavailable
8.	Assure a competent workforce for public health and personal health care
9.	Evaluate effectiveness, accessibility and quality of personal and population based services
10.	Research for new insights and innovative solutions to health problems*



Public Health Functions Steering Committee (1995)¹

The Public Health Model²





Prevention Science & Child Wellbeing³⁻⁴

- Prevention efforts aim to increase protective factors & reduce risk factors
- Risk & Protective factors
 - Are often non-specific
 - Are correlated & cumulative
 - Change with development
 - Exist in multiple contexts



Key to the success of intervention and prevention efforts









Support



Mental Health Intervention Spectrum⁴

- Health promotion- "enhance individual's ability to achieve developmentally appropriate task & a positive sense of self-esteem, mastery, well being, & social inclusion, strengthen ability to cope with adversity"
- Universal prevention- entire population eligible
- Selective prevention- above average risk group
- Indicated prevention- high risk, signs or systems but subclinical





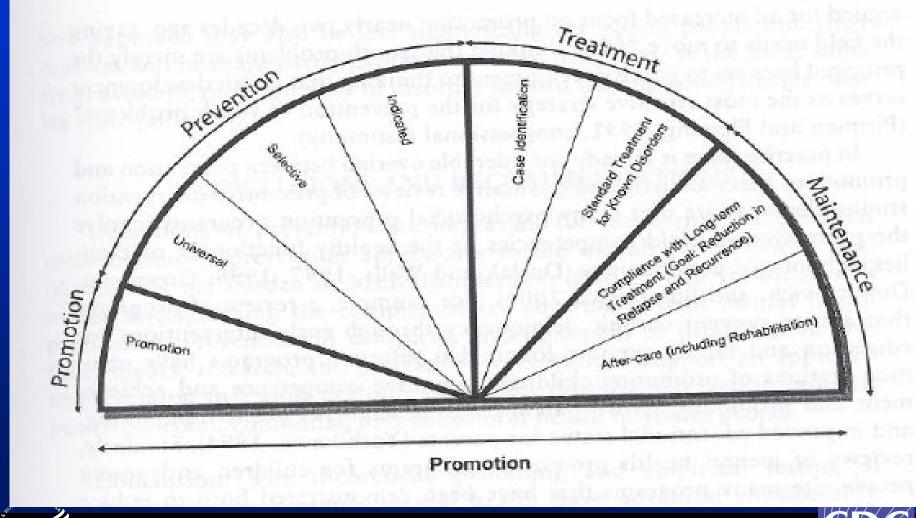
Mental Health Intervention Spectrum

- Treatment- reduce the length of time the disorder exists and reduce co-morbidity
- Intervention Maintenancesupportive, instructional, or pharmacological long-term support to reduce disability



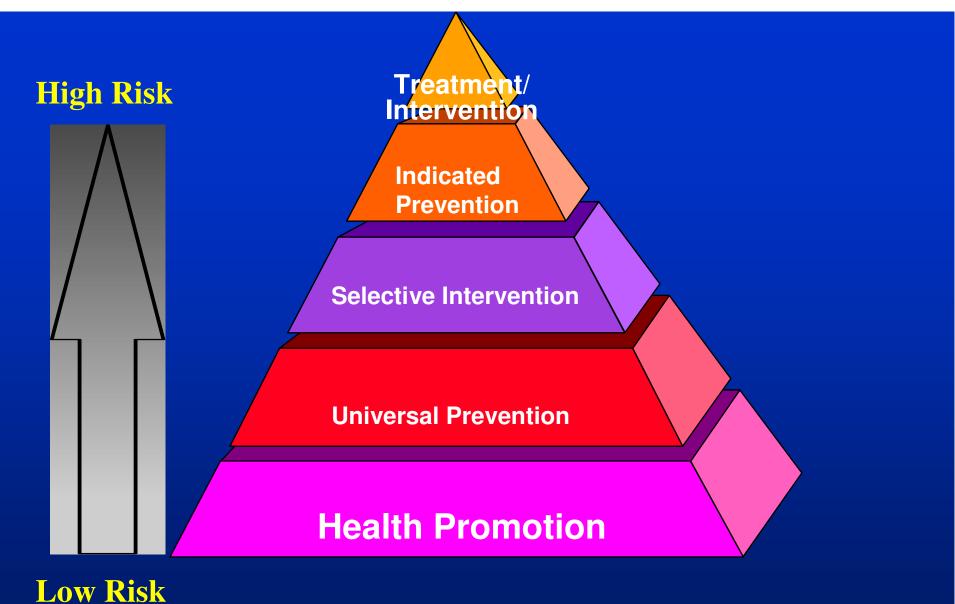


IOM (2009)⁴



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Level of Prevention & Associated Risk Level





Prevention among High-risk Individuals

Intervening in Selected populations

Special efforts for indicated populations

Probability of Adverse Exposures



4

3

2

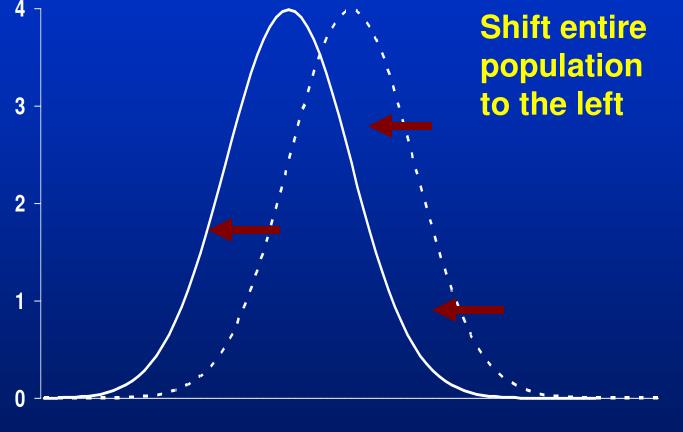
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Universal Prevention Approach

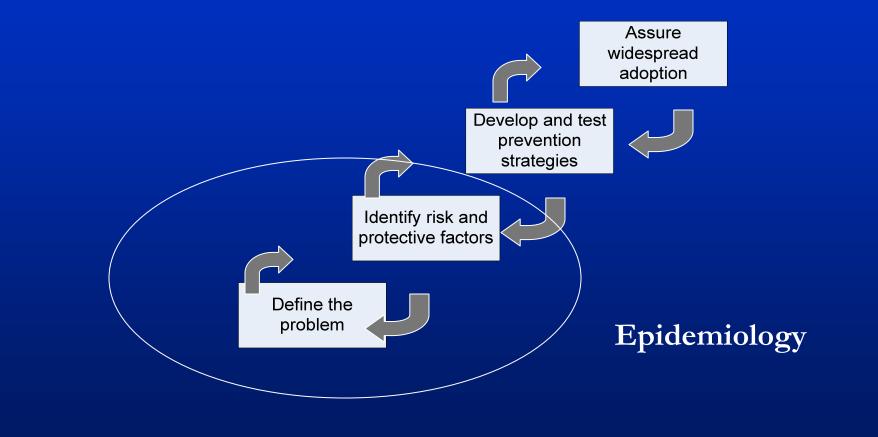


Probability of Adverse Exposure





The Public Health Model







Some Examples of CDC Child/Family Epidemiology

- ADHD PLAY Study
- Pregnancy Risk Assessment Monitoring System
- Autism & Developmental Disabilities Monitoring Network
- Early Hearing & Detection Intervention
- Adverse Childhood Experiences Study (ACE)
- Childhood Lead Level Surveillance
- Meta-analysis of Parent Training Programs



PLAY Project to Learn about ADHD in Youth

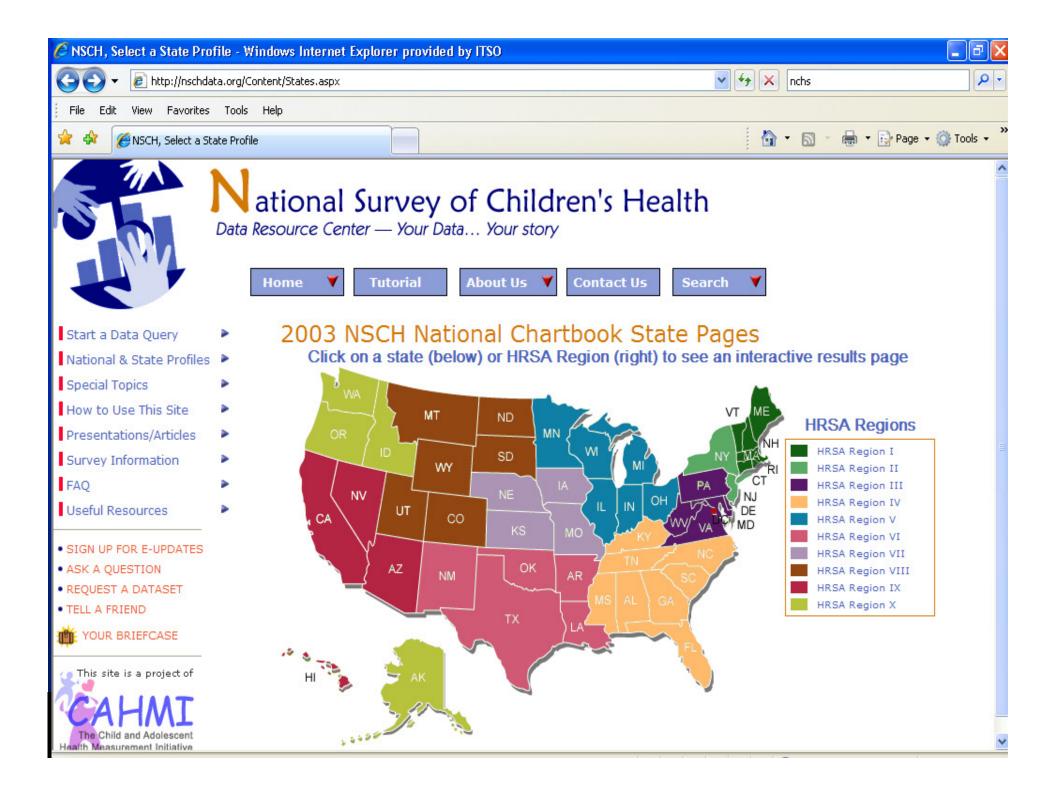




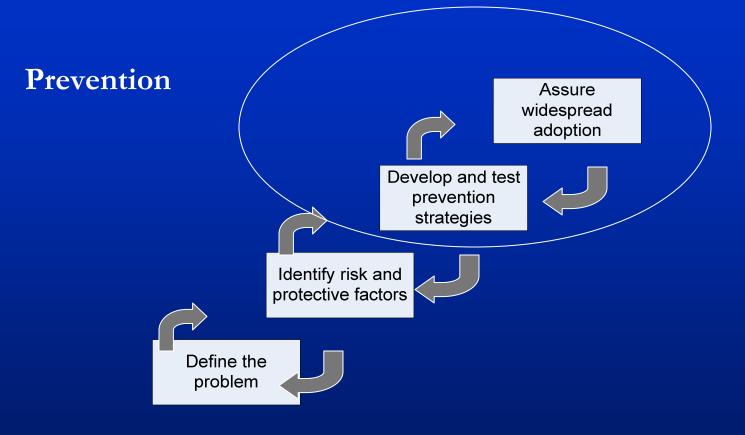








The Public Health Model

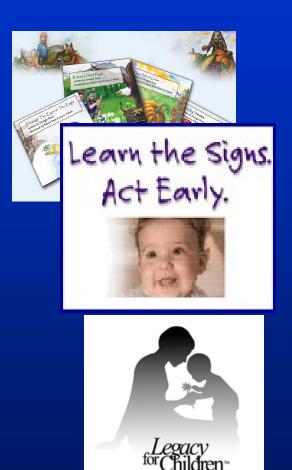






Sample CDC Child-Family Prevention Programs

- Project Choices
 Eagle Books for Diabetes Prevention
 Project Connect
 Fruits & Veggies Matters
 Learn the Signs. Act Early
- Legacy for ChildrenTM





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Learn the Signs. Act Early.



 Builds on familiar experiences of parents, such as monitoring their child's growth

Aims to educate parents, health care professionals, and childcare providers about child development

Encourages early screening and intervention—strategies that hold the most promise for affected children and their families





Learn the Signs Resource **Kits**

-4 feet

_.

-

- 21

_ 11

_10

107

- 10*

- 10

- 284

- 21

- 10

- 197

1.07

1 foot

-2 feet

-3 feet





Legacy for ChildrenTM

- Improve outcomes for children in poverty to promoting adaptive parenting
- Legacy mechanisms:
 - Mother-Child Interaction
 - Enhancing parental self efficacy
 - Promoting a sense of community
- Evaluation
 - Preliminary analysis are promising
 - Longitudinal evaluation in progress
- Resources









The Public Health Model



Evaluation

- Evaluation feedback at every step
- Program Evaluation
 - the goal of rigorous evaluation is to rule out alternative explanations (aka "threats to internal validity") for observed outcomes
 - Technology Enhancements to Parenting Programs
 - Improving Training of Home Visitation Programs





Ecological Framework





Ecological Model: Parentrelated Risk Factors for Poor Child Development

Individual

- Young age mother at birth
- Negative maternal attitude toward pregnancy
- Depression
- Low self-esteem
- Community
 - Poor neighborhoods
 - Lack of coherent family support

Family

- Single parent family
- Large family
- Marital conflict
- Chaotic and unpredictable family system
- Family poverty
- Disengaged parenting style
- Authoritarian parenting style
- Poor mother-infant bond
- Societal

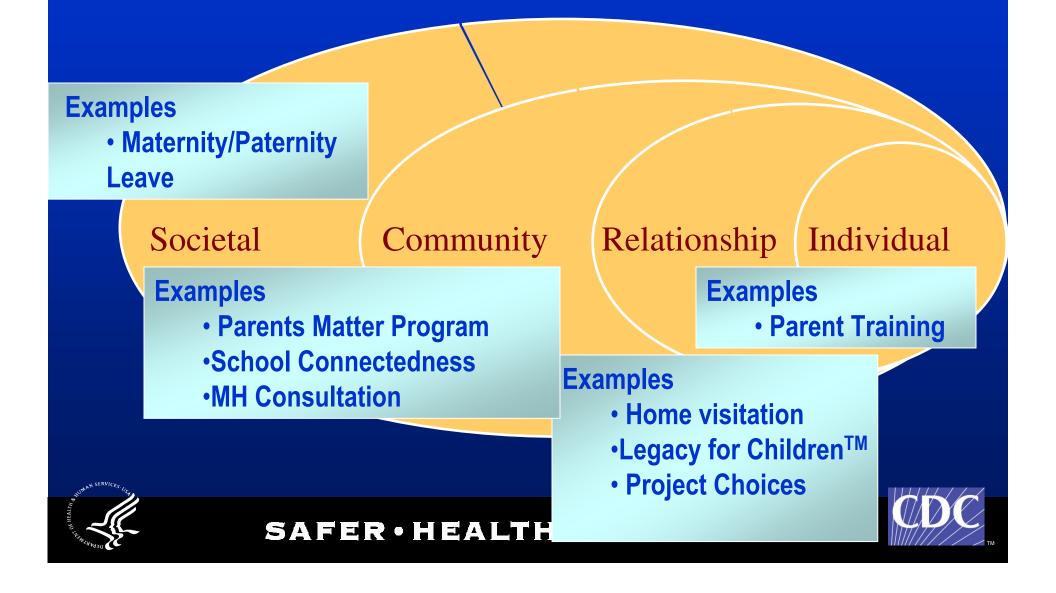
Culturally sanctioned values

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and practices SAFER • HEALTHIER • PEOPLE



Examples of Public Health Relevant Approaches to Child Health Across the Social Ecological Model⁵

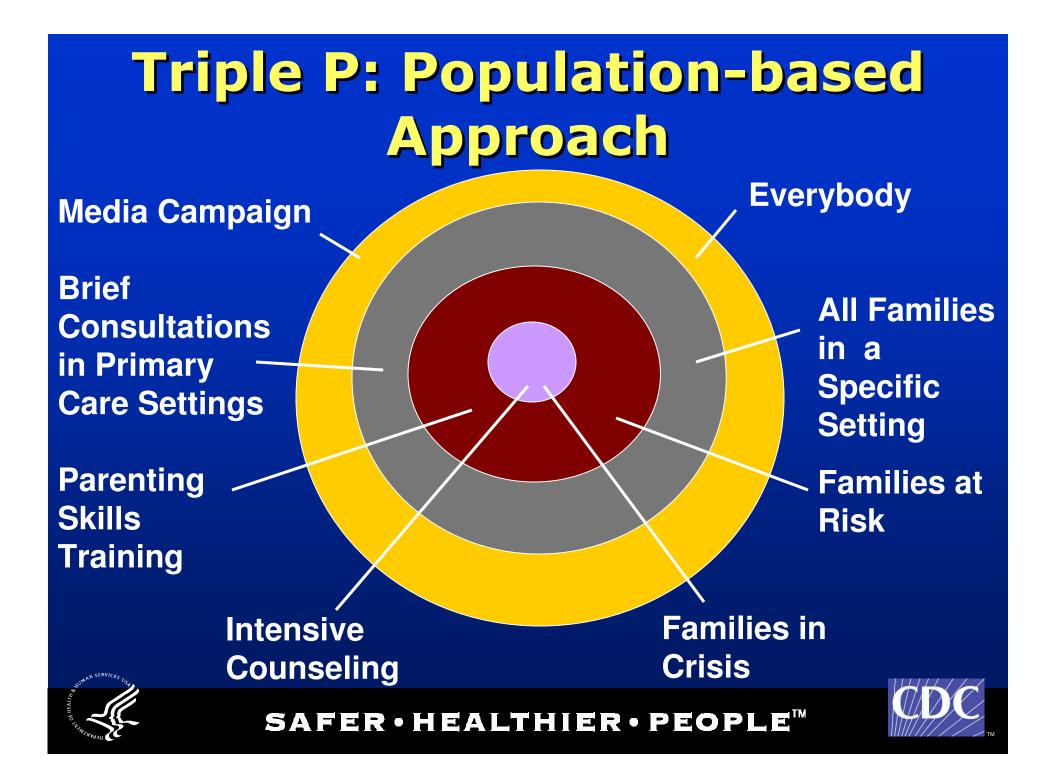


Ecological Model in Action: Triple P

- Randomized population-level trial
- Implemented Triple P in 9 counties in SC
 - Train providers (n = 649)
 - Conduct media campaign
- Results for Triple P counties:
 - Smaller increases in substantiated child maltreatment cases
 - Reductions in out of home placements
 - Reductions in child hospitalizations and ER visits due to CM injuries







Holistic Approach





Children's Early Brain Development Shapes Lifelong Health⁶

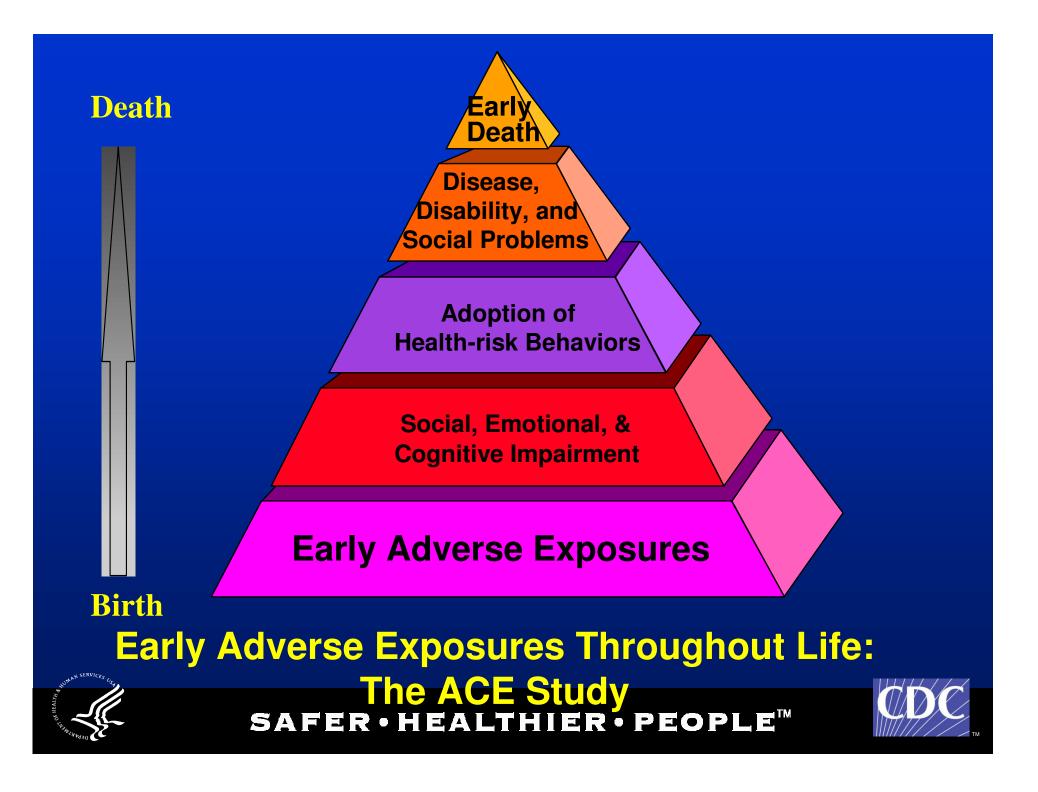


- Origins of chronic adult disease are often found among developmental & biological processes occurring during the early years
- Because brain circuits stabilize over time, the energy costs of altering circuits (and therefore behavior) increase as the brain matures









Consequences of Early Adverse Exposures

Health-risk behaviors

Sexual promiscuity Sexual perpetration Alcohol abuse Illicit/injected drug use Smoking Behavior problems

Mental/Social Problems

Disease and Injury conditions **Ischemic heart disease Diabetes** Stroke Cancer Suicide **Skeletal fractures Chronic bronchitis**/ emphysema STDs (e.g., HIV) Hepatitis

Early Adverse Exposures

SAF

PTSD Depression Anxiety Eating disorders Academic achievement Unwanted pregnancy Obesity Revictimization

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EOPL



CDC Resources





http://www.cdc.gov/parents

CDC Home



Centers for Disease Control and Prevention Your Online Source for Credible Health Information

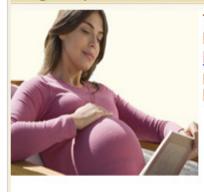
A-Z Index A B C D E F G H I J K L M N O P Q R S I U V W X Y Z

Parent Portal

Welcome to the CDC Parent Portal! Here you will find a wealth of information from across all of CDC, covering everything from safety at home and the community to immunization schedules and developmental milestones. Let the CDC Parent Portal help you keep your child healthy and safe!



Pregnancy



This page will help you learn how to be healthy <u>before</u>, <u>during</u>, and <u>after</u> pregnancy, and give your baby a healthy start to life.

More »

Infants & Toddlers (Ages 0-3)



If your <u>child</u> is age three or younger, this page is meant for you. This page will help you give your child a healthy start to life. Subscribe to RSS Listen to audio/Podca Get email updates To receive email updates about this

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Podcasts



http://www2c.cdc.gov/podcasts/ Podcasts are also available in Spanish!!!

http://www.cdc.gov/spanish/podcast.html



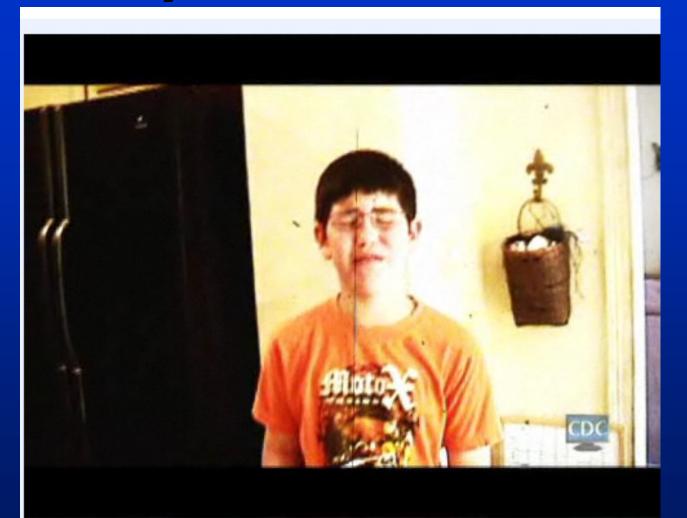


Example Child Development Video





Example Fetal Alcohol Syndrome Video

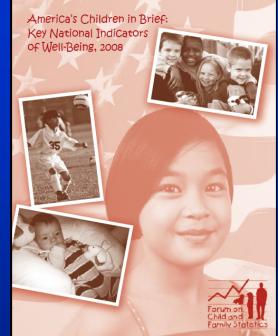






National Center for Health Statistics (NCHS)

- Health U.S.
- America's Children
- Health E-stats (web only)
- FASTSTATS (web only)
- Advance data/Data briefs
- MMWR
 - National Notifiable Disease System





Interactive data access tools on CDC website

- National Survey of Children's Health Data Resource Center
- Health Data for All Ages
- VitalStats
- WISQARS
- WONDER
- Healthy People Data2010
- NCHS Surveys Measures Catalog: Child and Adolescent Mental Health

http://www.cdc.gov/nchs/datawh/datatools.htm

NCHS website: http://www.cdc.gov/nchs/





CDC EHDI Activities

- Assist states and territories in the development of tracking and surveillance systems
- Provide technical assistance to states and territorial EHDI programs
- Supports research efforts to:
 - Identify causes of hearing loss
 - Determine developmental outcomes
 - Collect Information on referral rates from EHDI programs
 - Assess the effectiveness & cost of EHDI programs





Public Health Initiative

- Environmental Scan (Sept-Oct, 2009)
- Identify Exemplary Practice States (Dec, 2009)
 - Site Visits (Feb-May, 2010)
- Policy Scan (Aug-Feb, 2009)
- Expert Panel Meeting (Jul, 2010)
- **Develop Rec. & Tools** (Jul 2010-Mar, 2011)
 - Focus Groups
 - Disseminate Rec. & Tools (Apr, 2011)







CDC Resources by Health Topic

American Indian Diabetes Prevention

- http://www.cdc.gov/diabetes/pubs/eagle.htm
- http://www.cdc.gov/diabetes/eagle/

Asthma

http://www.cdc.gov/asthma/default.htm

Child Maltreatment

- www.cdc.gov/ncipc/dvp/CMP/default.htm
- Hammond, W. R.; Haegerich, T.M.; Saul, J. The public health approach to youth violence and child maltreatment prevention at the Centers for Disease Control and Prevention. Psychological Services. Vol 6(4), Nov 2009, 253-263.
- Leeb, R. T., Paulozzi, L., Melanson, C., Simon, T., & Arias, I. (2008). *Child maltreatment surveillance: Uniform definitions for public health and recommended data elements.* Atlanta, GA: Centers for Disease Control and Prevention, National Center for Injury Prevention and Control.

CDC EHDI Cooperative Agreements



Activities of CDC's Fetal Alcohol Syndrome Prevention Team

Prevention Activities:

- Monitoring alcohol use among women of childbearing age
- Educating women about the risks of alcohol use during pregnancy
- Developing, testing, and disseminating interventions for women at risk for having an alcohol-exposed pregnancy (e.g., Project Choices)
- Improving alcohol screening for women of childbearing age and provision of brief interventions or referral for those at risk

Relevant Resources:

- Publications on rates and trends of alcohol use among women of childbearing age, including state-specific rates
- Prevention-focused brochures, factsheets, e-card for consumers
- Publications on evidence-based strategies to prevent alcoholexposed pregnancies
- FASD Regional Training Centers

For more information and materials, go to: www.cdc.gov/ncbddd/fas





Child Safety

- www.cdc.gov/safechild/
- Community Guide for Preventive Services
 - http://www.thecommunityguide.org/ Evidence-based recommendations for programs and policies to promote population health

Community Health

- www.cdc.gov/CommunityHealthResources/ -On-line community health tool
- http://www.cdc.gov/healthycommunitiesprogram/tools/change.ht

Developmental Disabilities

- Autism Spectrum Disorders (Act Early Campaign) (http://www.cdc.gov/ncbddd/actearly/index.html)
- Cerebral Palsy/Hearing Loss/ Intellectual Disability/Vision Impairment (CDC) (http://www.cdc.gov/ncbddd/dd/

Depression/Anxiety (Adult)

- http://www.cdc.gov/Features/Depression/
- http://www.cdc.gov/Features/dsBRFSSDepressionAnxiety/

Disaster Mental Health

http://www.bt.cdc.gov/mentalhealth/

Early Hearing & Detection Intervention

- http://www.cdc.gov/ncbddd/ehdi/documents/EHDI_Contact.pdf
- http://www.cdc.gov/ncbddd/ehdi/edmaterials.html
- http://www.cdc.gov/ncbddd/ehdi/CDROM/index.html

Evaluation

 Centers for Disease Control and Prevention. Framework for Program Evaluation in Public Health. MMWR 1999;48(No. RR-11).

http://www.cdc.gov/mmwr/preview/mmwrhtml/rr4811a1.htm

 An Evaluation Framework for Community Health Programs http://www.cdc.gov/eval/evalcbph.pdf

Fetal Alcohol Syndrome

http://www.cdc.gov/ncbddd/fasd/index.html

Immunizations

- http://www.cdc.gov/vaccines/spec-grps/parents.htm
- Learn the Signs. Act Early/Developmental Screening
 - www.cdc.gov/ncbddd/actearly/
- Lead Poisoning
 - www.cdc.gov/nceh/lead/
- Mental Health/Behavioral (Children)
 - ADHD (CDC, National Resource Center) (http://www.cdc.gov/ncbddd/adhd/index.html) (http://www.help4adhd.org/)
 - Tourette Syndrome(http://www.cdc.gov/ncbddd/tourette/default.htm)
 - Youth

(http://www.cdc.gov/HealthyYouth/mentalhealth/publications.htm)

Nutrition & Obesity

- http://www.cdc.gov/obesity/resources.html
- http://www.cdc.gov/healthyweight/
- CDC (2009). Recommended Community Strategies and Measurements to Prevent Obesity in the United States. MMWR, 58(RR07);1-26.

Oral Health

 http://www.cdc.gov/OralHealth/topics/dental_sealant_programs.h tm (school based sealant program & resources)

Parenting

- www.cdc.gov/parents
- Kaminski, J. W., Valle, L. A., Filene, J. H., & Boyle, C. L. (2008). A meta-analytic review of components associated with parent training program effectiveness. *Journal of Abnormal Child Psychology, 36,* 567–589.
- Refugee/Immigrant Health
 - http://www.cdc.gov/ncidod/dq/refugee/faq/faq.htm
- School Health
 - http://www.cdc.gov/HealthyYouth/
- STD
 - http://www.cdc.gov/std/
 - http://www.cdcnpin.org/parentsmatter/program.asp (Parents Matter! Program for preteens)
- Violence Prevention
 - http://www.cdc.gov/violenceprevention/index.html

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- Mercy, J. A., Rosenberg, M. L., Powell, K. E., Broome, C. V., & Roper, W. L. (1993). Public health policy for preventing violence. *Health Affairs, Winter, 7–* 29.
- 3. Coie, J. D., Watt, N. F., West, S., Hawkins, J. D., Asarnow, J., Markman, H., Ramsey, S. L., Shure, M., & Long, B. (1993). The science of prevention: A conceptual framework and some directions for a national research program. *American Psychologist*, **48**, 1013-1033.
- 4. Institute of Medicine. (2009). Preventing mental, emotional, & behavioral disorders among young people. Washington, DC: National Academy Press.
- 5. Bronfenbrenner, U. (1977). Toward an experimental ecology of human development. *American Psychologist, 32*(7), 513–531.
- 6. Shonkoff, J. P. (2003). From neurons to neighborhoods: old and new challenges for developmental and behavioral pediatrics. *J Dev Behav Pediatr, 24*(1), 70-76.





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