



New England Home
Visiting Forum
Darcy Lowell, MD

Goal of Child First

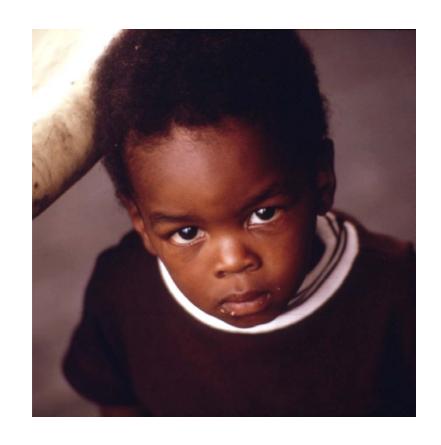
- Reach the most vulnerable young children and families at the earliest possible time
- Intervene to prevent:
 - Emotional and behavioral disturbance
 - Developmental and learning problems
 - Abuse and neglect





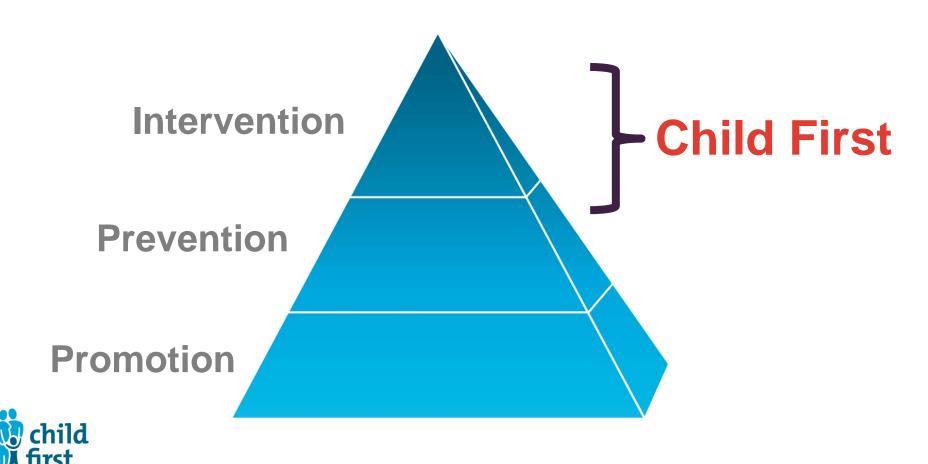
Needs Not Met

- Children:
 - Emotional and behavioral problems
 - Trauma
- Parents:
 - Major challenges
- Services fragmented





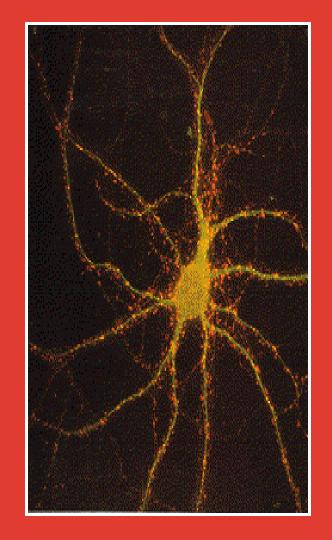
Child First Fills a Critical Gap in the Continuum of Care





Brain Development

- By 8 months of age, brain synapses have increased from 50 to 1000 trillion: 700 synapses/second
- The child's early experiences actually build the architecture of the brain - EPIGENETICS
- By 3 years, 80% of brain growth is complete.





TOXIC STRESS!



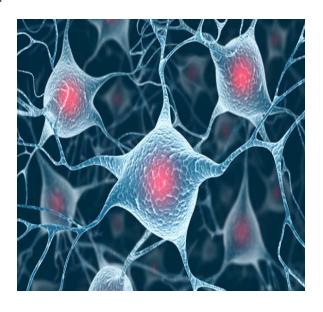


ACES!

Brain Research: Toxic Stress

Based on the most recent research about the young, developing brain:

- High stress destroys brain architecture.
- Leads to lifelong problems in:
 - Mental health
 - Development & learning
 - Physical health





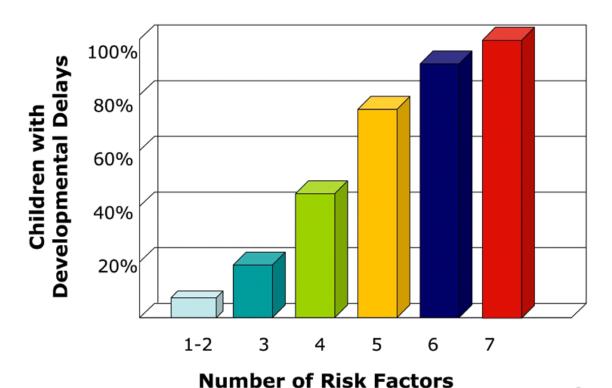
Environmental Risks

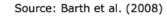
- Extreme poverty
- Domestic and community violence
- Abuse and neglect
- Parental mental health issues, especially depression
- Substance abuse
- Homelessness
- Incarceration
- Teen and single parenthood
- Isolation and lack of social supports
- Lack of education and illiteracy
- Unemployment
- Health and dental issues
- Poor quality child care
- Lack of basic needs: food, clothing,
 heat, furniture





Significant Adversity Impairs Development in the First Three Years







Behavioral Problems

Incidence:

1 risk = 7% 4-8 risks = 40 - 70%[Rutter and Sameroff]

In Bridgeport: Children who were

high risk 70% screened positive for emotional concerns



And It Does Not Just Go Away!

 Emotional or behavioral problems at age 3 years

→ 50% psychiatric

diagnosis by kindergarten or 1st grade.





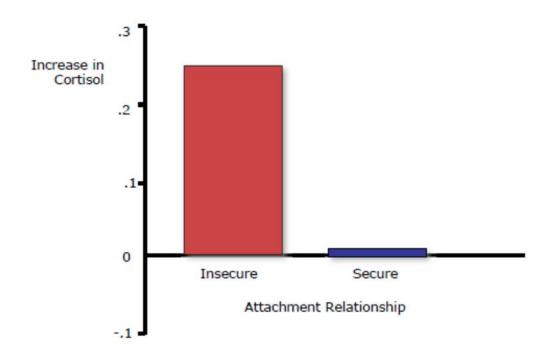
Power of Responsive Nurturing







Secure Relationships Calm Children's Stress Hormone Response



Source: Nachmias et al. (1996)





Child First Theory of Change: Two-Pronged Approach



Decrease toxic psychosocial stress by connecting children and families to needed services and supports.

Care Coordinator

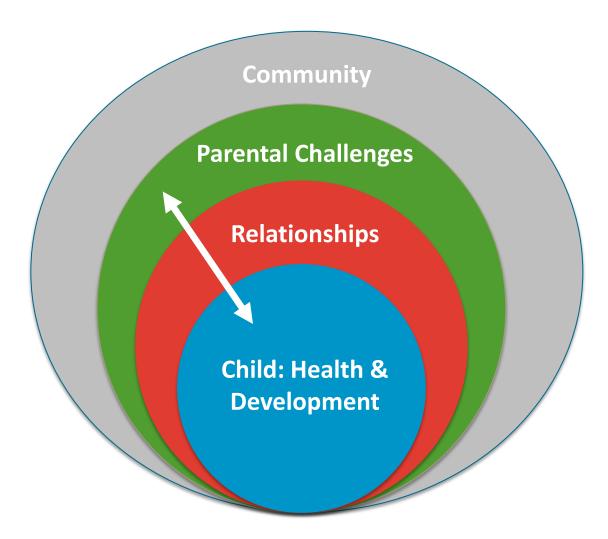


Facilitate the development of a responsive, nurturing parent-child relationship that can protect the brain.

Mental Health Clinician



Ecological Approach within an Early Childhood System of Care

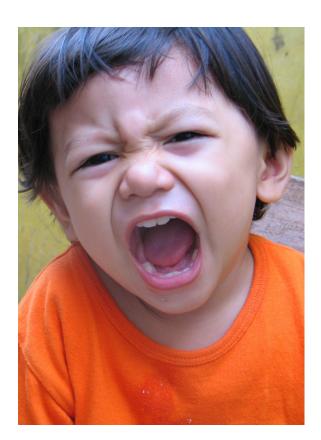




Target Population: Children

- Prenatal to 6 years
- Any problem that threatens healthy development:
 - Emotional/behavioral
 - Developmental/learning
 - Abuse and neglect
- Serve families with multiple children





Target Population: Parents

- Parents/caregivers (birth parents, foster parents, relatives) with multiple challenges:
 - Depression and other mental health problems
 - Substance use
 - Homelessness
 - Domestic violence
 - Child protective service involvement
 - Poverty
- Fathers and caregiving partners included
- TWO GENERATION APPROACH



Overview of Child First Intervention

- Screening and community referrals
- Home-based intervention
 - Engagement
 - Comprehensive assessment
 - Child and Family Plan of Care
 - Targeted parent guidance and Child-Parent Psychotherapy
- Mental health classroom consultation
- Connection to community-based services





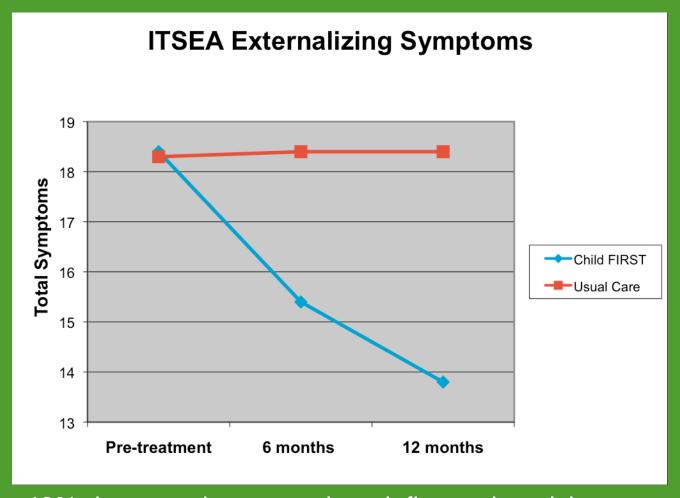
Services

- Primary or specialty pediatric care
- Early care and education
- Birth to Three
- Special education
- Child mental health
- Parenting groups
- Family Resource Centers
- Parent mentors and aides
- Adult mental health
- Substance abuse treatment
- Adult health care
- Legal aide
- Domestic violence services
- Immigration
- Housing / shelters

- Job training
- Computer training
- Food stamps
- Food banks
- HUSKY
- GED
- Literacy
- ESL
- WIC
- TANF
- SSI
- CSHCN
- Toys and books
- Clothing and furniture
- Transportation



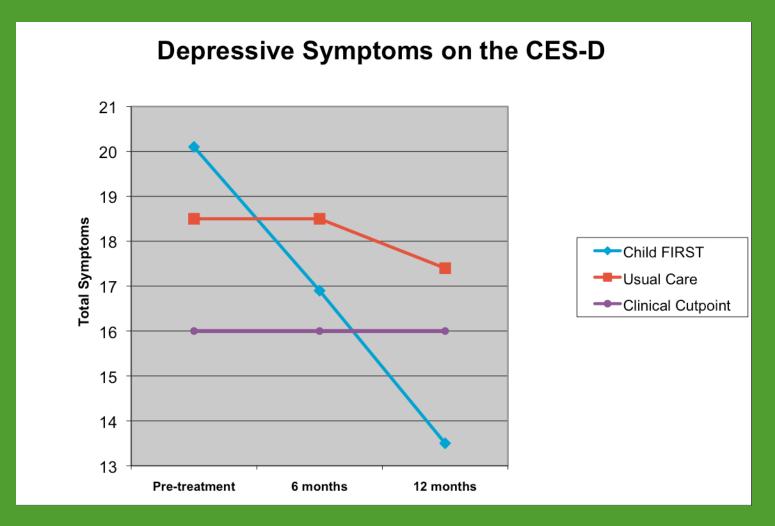
Child Mental Health Problems





42% decrease in aggression, defiance, impulsiveness

Maternal Depression



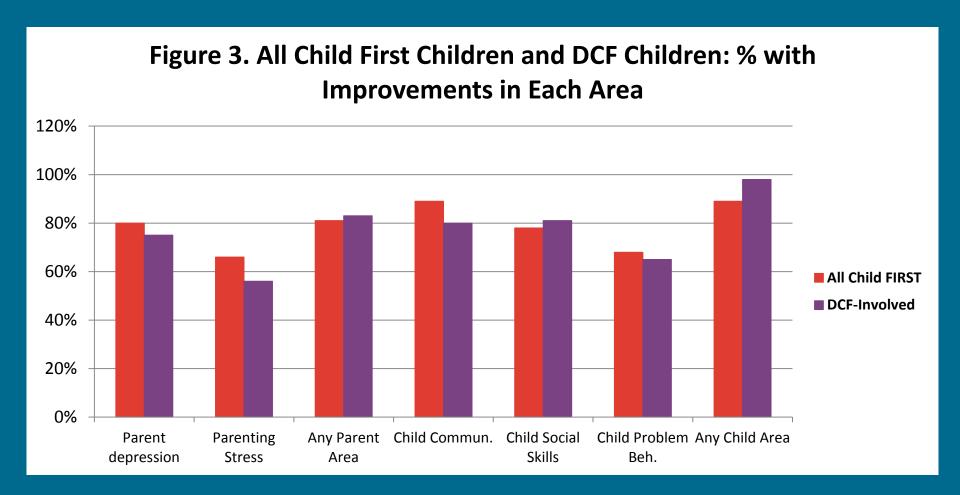


Fidelity and Outcomes





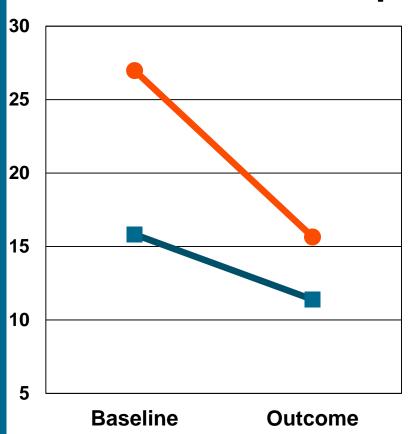
Percentage with Improvement

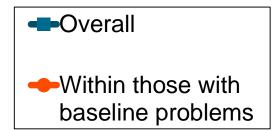




Mental Health - Parent

Maternal Depression – CES-D





P < .0001

Effect Size (Cohen's d):

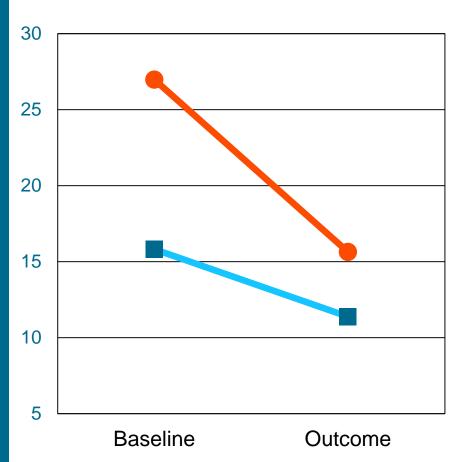
Overall = .41

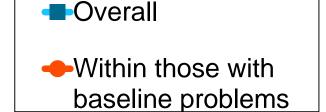
With problems at baseline = 1.15



Mental Health - Child

Problem Behaviors –BITSEA & PKBS





P < .0001

Effect Size (Cohen's d)

Overall =.45

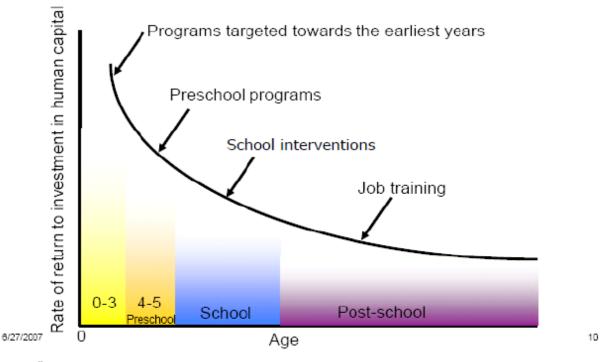
With problem at baseline =.68





Return on Investment in Children

Rates of Return to Additional Investments in Human Capital for Disadvantaged Children



Heckman, J. "Investing in Disadvantaged Young Children Is Good Economics and Good Public Policy," Testimony before the Joint Economic Committee, Washington D.C., June 27, 2007



Preliminary Cost-Benefit Analysis

- Cost per family of 4 in CT = \$6,900
- Compare to cost of psychiatric hospitalization
 - May be \$700,000 \$900,000/year
- Child First is cost-neutral within the first year when family receives intervention
 - This assumes leverage of 25% of funding through Medicaid
 - Only includes CPS involvement, maternal depression treatment, language remediation

Preliminary Cost-Benefit Analysis

Additional future costs averted include:

- Child mental health treatment
- Special education and school drop-out
- Future CPS involvement with foster care or residential treatment
- Hospitalization and ER usage
- Substance abuse treatment
- Violent crime and incarceration
- Medical treatment for diabetes, heart disease, hypertension

Thank you!













