Advisory Group on Prevention, Health Promotion, and Integrative and Public Health

April 12, 2012 Dr. Gail C. Christopher Vice President – Program Strategy



What is resilience?

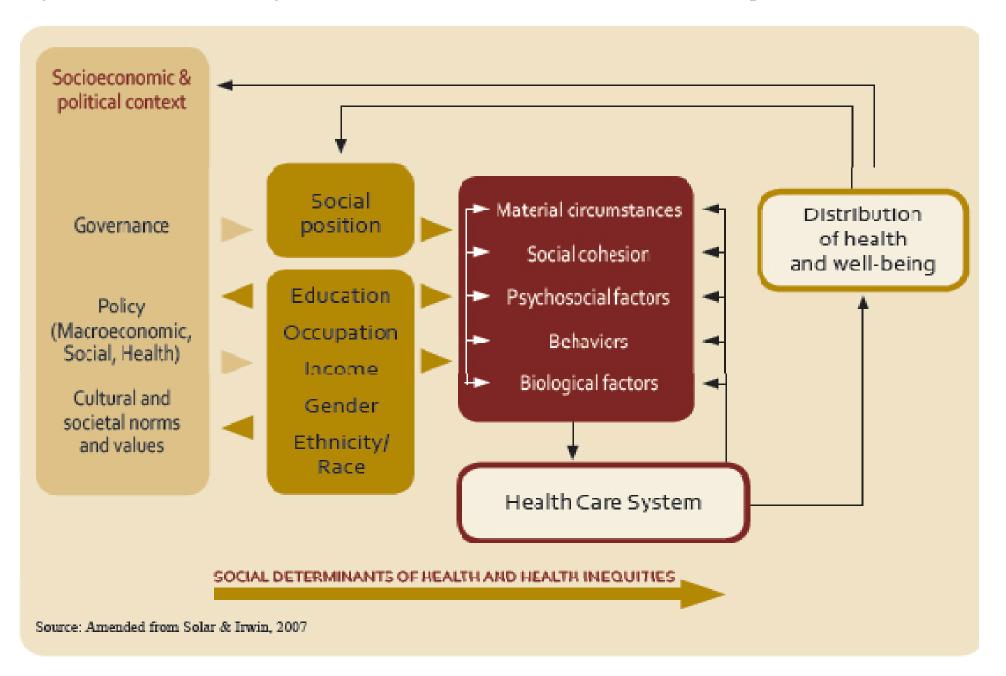
Resilience is the process of adapting well in the face of adversity, trauma, tragedy, threats, or even significant sources of stress — such as family and relationship problems, serious health problems, or workplace and financial stressors. It means "bouncing back" from difficult experiences.

Resilience is not a trait that people either have or do not have. It involves behaviors, thoughts, and actions that can be learned and developed in anyone.

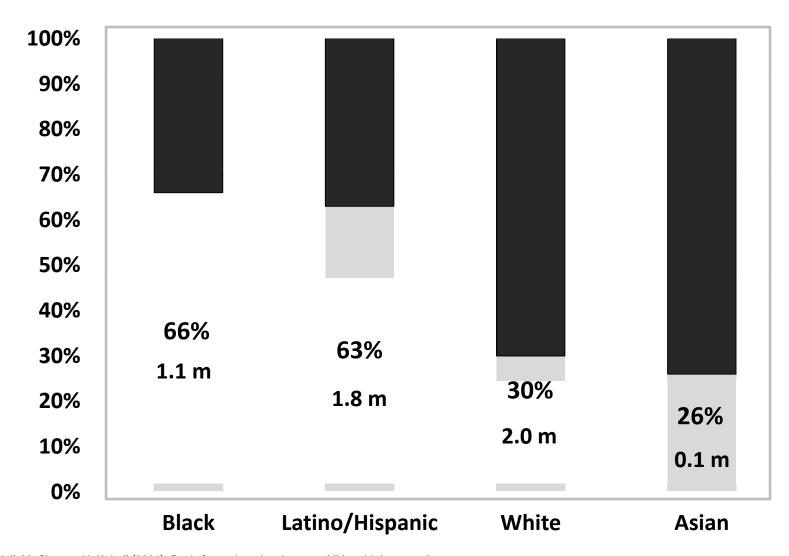
Source: American Psychological Association



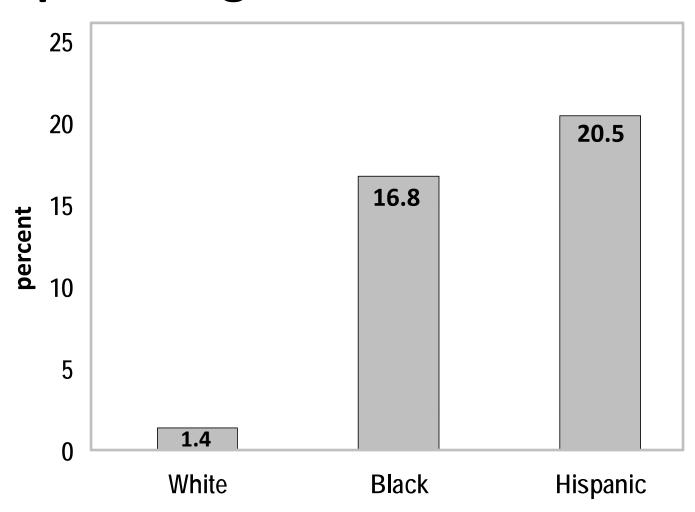
Figure 2. World Health Organization's Social Determinants of Health Conceptual Framework [1]



Percent & Number of Infants and Toddlers in Low-Income Families, by Race/Ethnicity

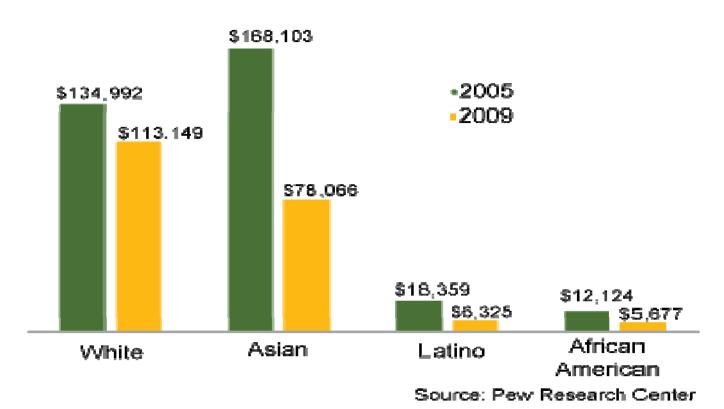


Children experience <u>double jeopardy</u> when they live in BOTH poor families and poor neighborhoods

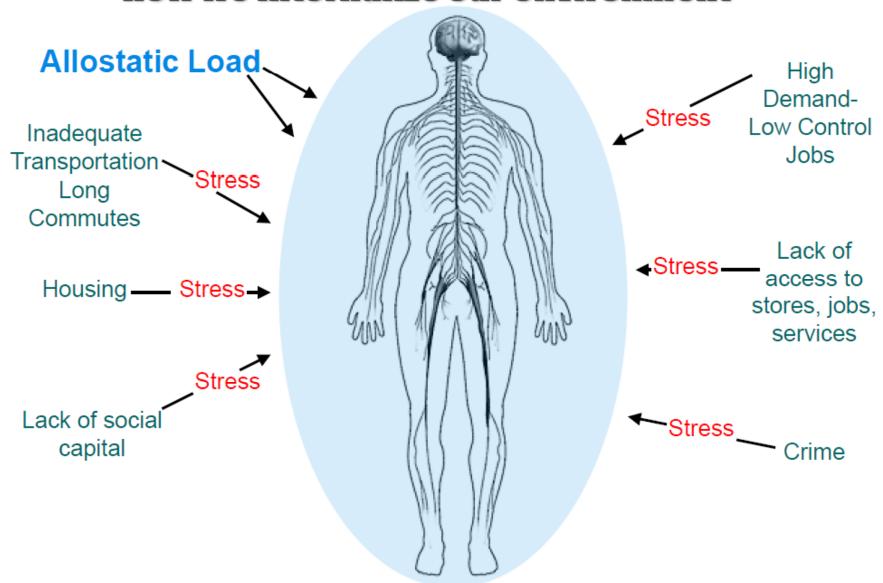


Disproportionate impact of the Great Recession on net worth by race-ethnicity (largely reflecting wealth held as housing equity)

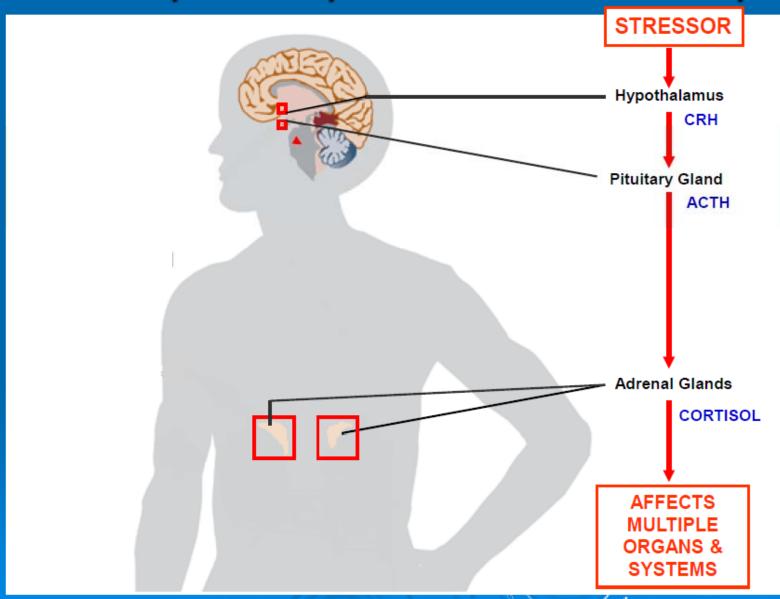
Change in Median Household Net Worth by Race/Ethnicity, US 2005-2009



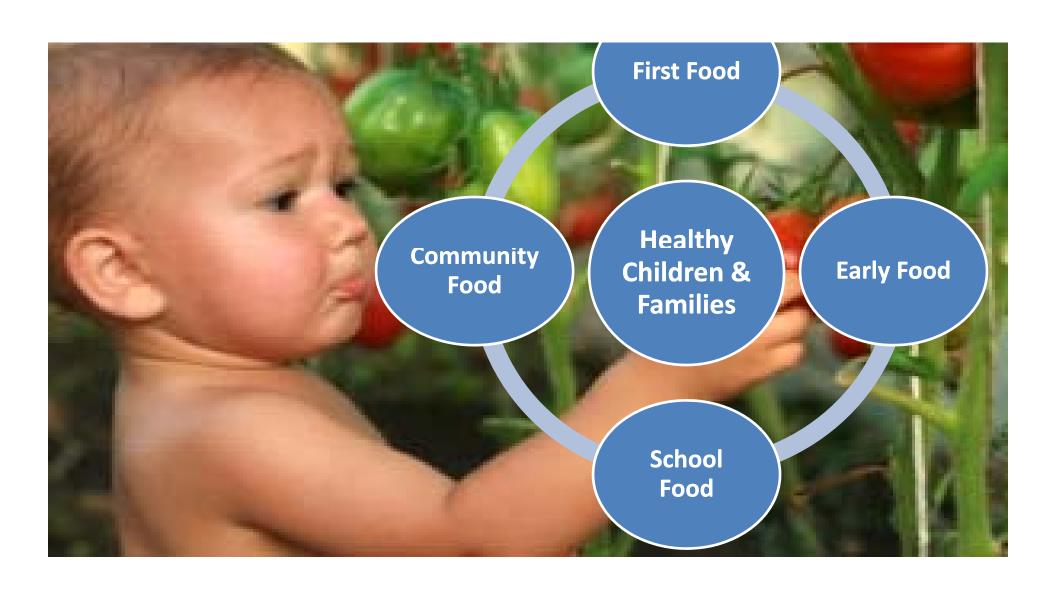
When the external becomes internal: How we internalize our environment



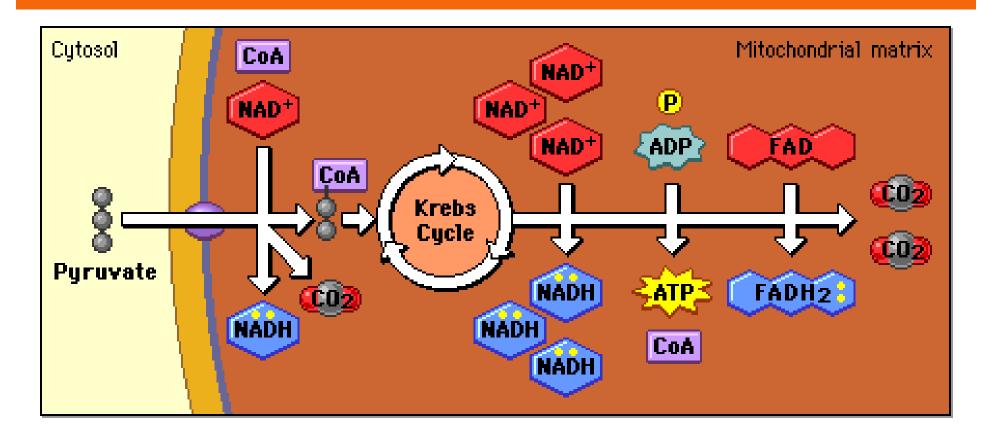
Stress pathway from brain to body



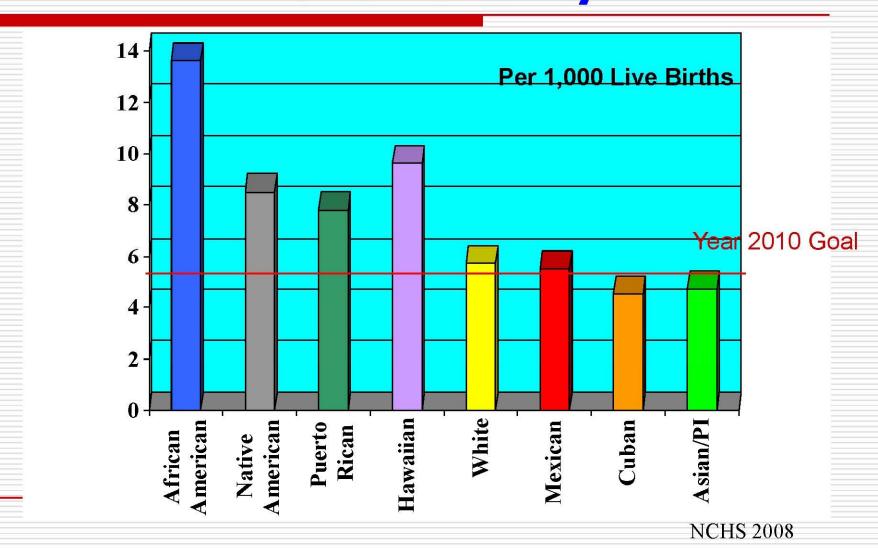
The Food Continuum and Health Equity



Cellular Energy Requires Key Nutrients



Racial & Ethnic Disparities Infant Mortality



What Do We Mean by Improving Birth Outcomes?

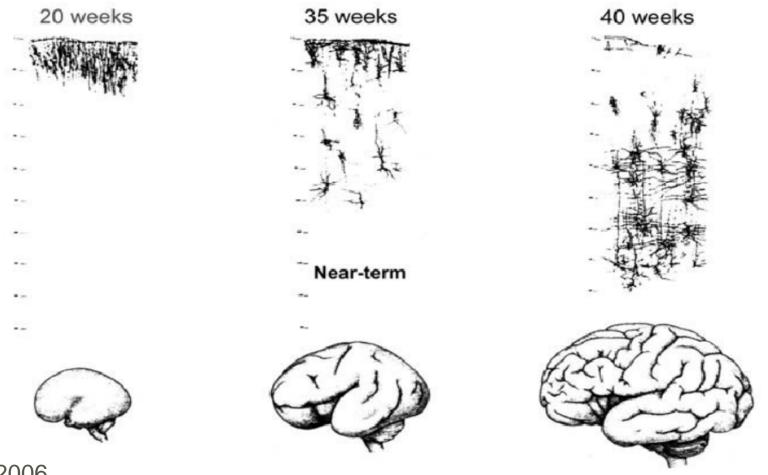
Healthy birthweight (5.5 lbs or greater)

A full-term birth (~38 weeks or greater)



Human Brain Growth in Gestation

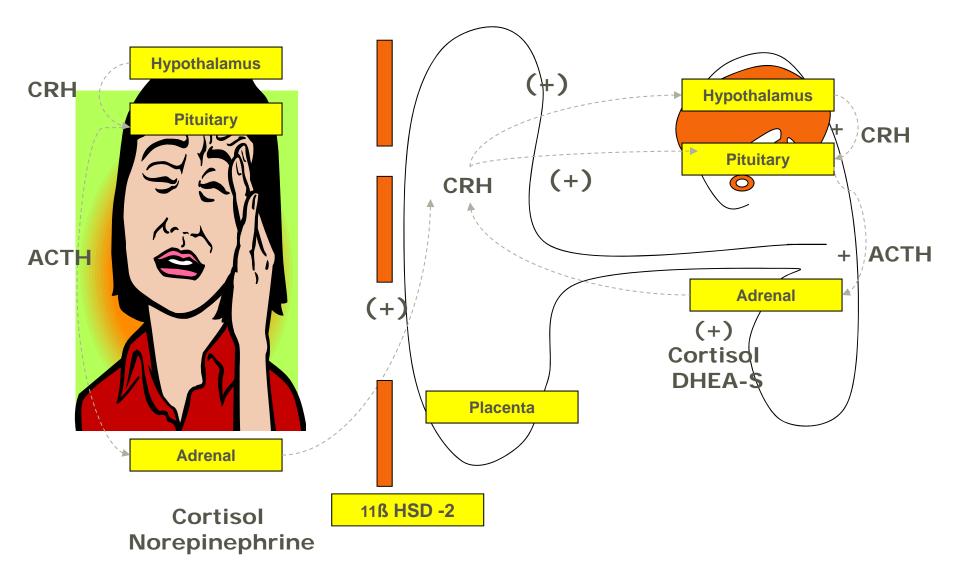
Development of the Human Cerebral Cortex



Kinney, 2006

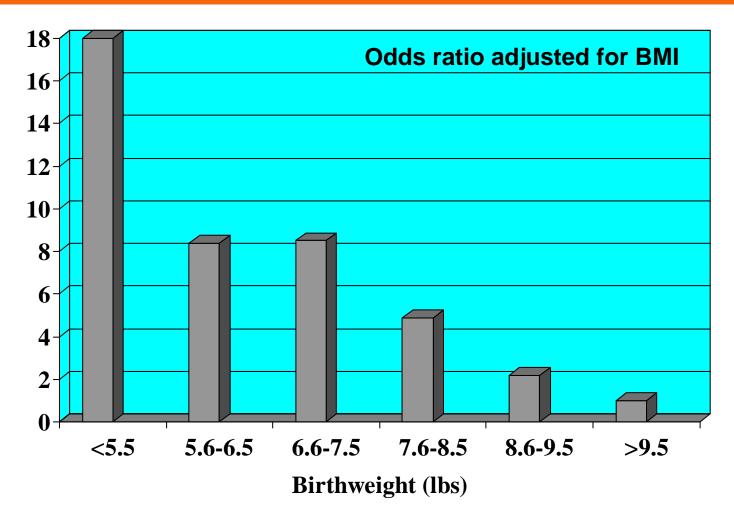
Programming

Dogs Strace Cross the Placenta?



Barker Hypothesis

Birthweight and Insulin Resistance Syndrome



Barker DJP, Hales CN, Fall CHD, Osmond C, Phipps K, Clark PMS. Type 2 (non-insulin-dependent) diabetes mellitus, hypertension and hyperlipidaemia (Syndrome X): Relation to reduced fetal growth. Diabetologia 1993; 36:62-67.

Reduced Low Birthweight by 50%

After 5 ½ years of operation, the DFC outcome data showed substantial lowering of preterm birth, low birthweight and cesarean section rates:

African American Population		
	DC (2002 Final)	FHBC (2003-2005)
Preterm birth < 37 weeks	14.2%	9.0%
Low birthweight	14.6 %	7.0 %
Cesarean section	29.0%	15.3%

These data have been demonstrated to be statistically significant by epidemiology and biostatistics faculty of the School of Public Health at the University of North Carolina



Increase the number of children who are reading-and-math proficient by third grade.

Community & Civic Engagement

Racial Equity

Whole Child Development

Healthy Kids
Healthy Birth Weight
and Optimal Development

Increase the number of children born at a healthy birth weight and who receive the care and healthy food they need for optimal development.

GOAL

Secure Families

Children and Families at 200% Above Poverty

Increase the number of children and families living at least 200% above the poverty level.