Life Course Perspective: A Context for Practice and A Call to Action

State of Champions Alabama's Campaign for Healthier Babies

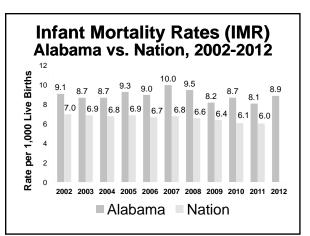
> RSA Activity Center Montgomery, Alabama Friday, January 10, 2014

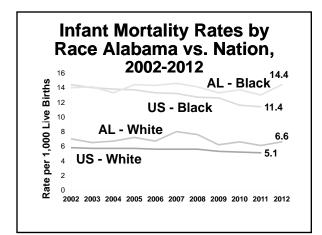
Life Course Perspective: A Context for Practice and A Call to Action

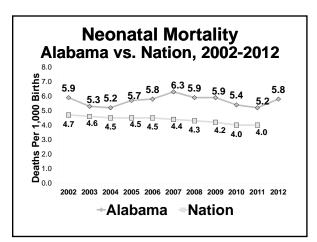
Martha Wingate, DrPH Director Maternal and Child Health Policy and Leadership Education Program School of Public Health University of Alabama at Birmingham

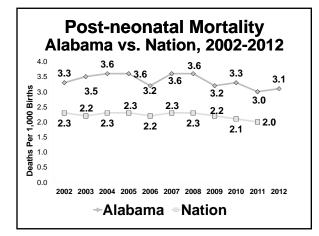
My Lens

- Population-based public health
- All levels of prevention
 - -Primary
 - -Secondary
 - -Tertiary
- Maternal and child health systems









Looking at Infant Mortality: Goals of This Presentation

- To introduce and highlight some basic concepts of Life Course Perspective
- To illustrate the need for a systemsbased or life course approach to health, specifically for infant mortality and related causes / issues

Slides and Ideas Adapted from:

- Jeff Brosco
- Amy Fine Cheri Pies
- Paula Braveman
 Paul Wise

Health

Bonnie Spear

School of Public

- Milton Kotelchuck Johns Hopkins
- Karen Edwards
- Michael Lu
- Neal Halfon

What is Life Course?

- Life Course is a perspective that seeks to understand, explain, and improve health and disease patterns across population groups (Amy Fine)
- Life Course suggests that a complex interplay of biological, behavioral, psychological and social protective and risk factors contribute to health outcomes across the span of a person's life (Cheri Pies)

What is Life Course?

 A Life Course approach recognizes the role of time in shaping health outcomes and incorporates time into models explaining health outcomes

Is Life Course Old or New?

- Life Course marries long-term MCH concepts with new science
- Barker Hypothesis
- Felitti's ACE Study
- Neurons to Neighborhoods, NAS
- Lu/Halfon
- Epi-genetics

Socio-Ecological Model: A Guide to Thinking About the Determinants of Population Health Living and working conditions may include: cultural, health, and vorking (Psychosocial factors Employment status and occupational factors Socioeconomic status (income, education, occupation) occupation) • The natural and built^c environments • Public health services Health care services NOTES: Adapted from Dahlgren and Whitehead, 1991.The dotted lines denote interaction effects jonal, state, and local level between and among the various levels of health determinants (Worthman, '99).

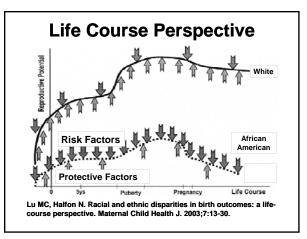
Life Course Concepts 'T2E2'

- Timeline health is cumulative and longitudinal
 - Developed over a lifetime
- Timing health and health trajectories are particularly affected during critical / sensitive periods

Life Course Concepts 'T2E2'

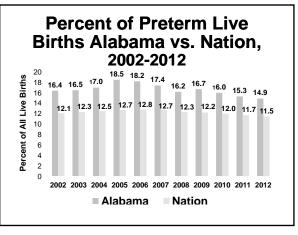
- Environment the broader environment (biologic, social, physical, economic) affects health and development
- Equity health inequality reflects more than genetics and personal choice

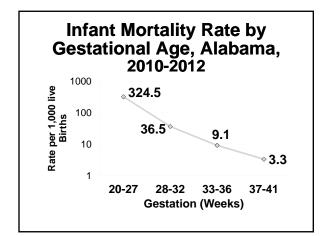
- Fine and Kotelchuck, 2010



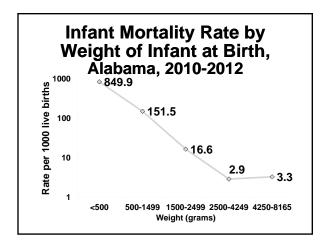
Risk and Protective Factors

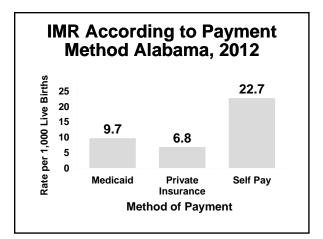
- Protective factors improve health and contribute to healthy development
- Risk factors diminish health and make it more difficult to reach one's full potential
- In addition to individual behavior or access to health, factors can include family, neighborhood, community and social policy

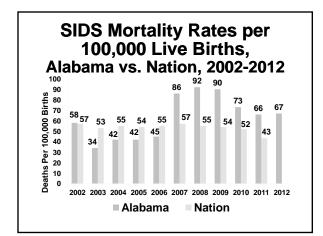






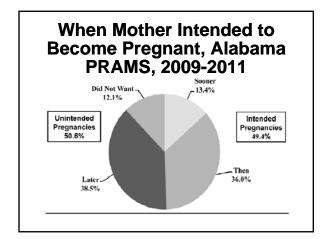


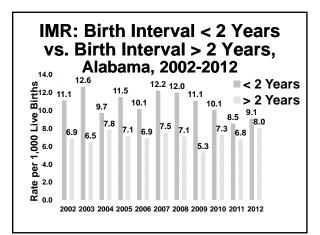


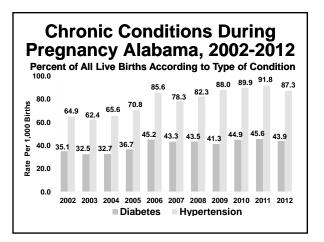




- 240,158 total live births
- 17,570 LARCS inserted
- 7.3% of the mothers had LARCs inserted



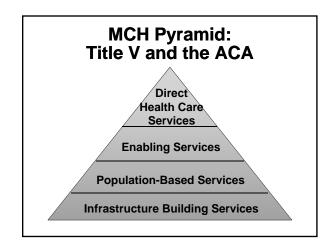


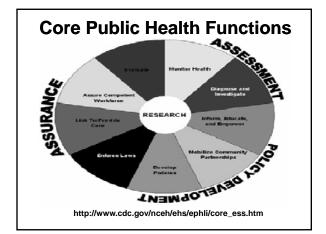




- Socio economic status
 - -Poverty, education, social support
- Pre pregnancy planning
 - Sexually transmitted infections (STIs), preconception care, pregnancy spacing





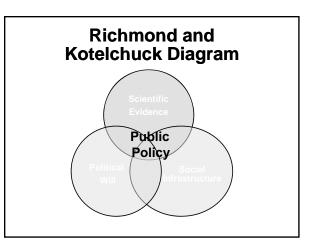


Distinctions Between Title V and The ACA

- Title V allows for a systems approach (Life Course) to issues, addressing the continuum of needs for the population
- ACA provides some mechanisms for systems (home visiting), but largely it focuses on access / insurance issues

Life Course: Putting It Into Practice

- So, we talk about Life Course as a perspective, framework, theory, but how does it really work in the real world?
- What do we need to make it happen?



How Do We Know This Approach Is Working?

- Short term outcomes
 - -Program specific outcomes
- Long term outcomes
 - Reduction of infant mortality and related causes
- Beyond "snapshots"
 - -Data system and accountability

So . . .

- The Life Course perspective allows us to get beyond the usual suspects related to infant mortality reduction
- There is a need for a focus on community health and greater public awareness across all spectrums of the population
- There is no quick fix to this issue

"It's the greatest poverty to decide that a child must die so that you may live as you wish"

-Mother Teresa

"The world is a dangerous place, not because of those who do evil, but because of those who look on and do nothing"

-Albert Einstein

Resources and References

HRSA/MCHB Concept Paper

• Rethinking MCH: The Life Course Model as an Organizing Framework

Prepared under contract by Amy Fine and Milton Kotelchuck, October 2010

http://mchb.hrsa.gov/lifecourseresourc es.htm

A Critical Approach to Life Course

• Confronting Social Disparities in Child Health: A Critical Approach of Life Course Science and Research

Pediatrics 2009; 124;S203-S211, Paul Wise, MD, MPH

DOI: 10.1542/peds2009-1100H

www.pediatrics.org/cgi/content/full/124/Supplement_3/S203

Maternal and Child Health Life Course Research Network

In October 2010, the Center for Healthier Children, Families and Communities was awarded a three-year grant from the federal Maternal and Child Health Bureau (MCHB) to develop a Maternal and Child Health Life Course Research Network (MCH LCRN). This exciting new project represents a unique opportunity to improve our understanding of how health develops over the life course by providing researchers, practitioners, policymakers and consumers with a transdisciplinary, translational and transformative mechanism for interacting, sharing information and tools, and engaging in collaborative and innovative projects.

– www.LCRN.net

MCHB Resource Guide

• This site provides a number of key resources in the hopes that MCH Training Programs will partner with MCHB in exploring the implications of Life Course perspectives to improve the health and well-being of all women, children, youth and families now, and over future generations

http://mchb.hrsa.gov/lifecourseresources.htm

Top 5 Scientific Articles on Life Course

- Hertzman C, Boyce T. How experience gets under the skin to create gradients in developmental health. Annu Rev Public Health, 2010.31:329-347.
- Power C, Hertzman C. Social and biological pathways linking early life and adult disease. British Medical Bulletin 1997,53(No 1):210-221.

Top 5 Scientific Articles on Life Course

- Gluckman PD, Hanson MA, Cooper C, Thornburg KL. Effect of in utero and earlylife conditions on adult health and disease. N Engl J Med 2008; 3;359(1):61-73.
- Kuh D, Ben-Shlomo Y, Lynch J, Hallqvist J, Power C. Life course epidemiology. J Epidemiol Community Health 2003;57:778-783.

Top 5 Scientific Articles on Life Course

• Ben-Shlomo Y, Kuh D. A life course approach to chronic disease epidemiology: conceptual models, empirical challenges and interdisciplinary perspectives. International Journal of Epidemiology 2002;31:285-293.