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Section D

Life Course Model
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Genetic factors
- Physical environment
- Social environment

Proximal determinants
- Biomedical responses
- Behavioral responses

Processes
- Preconceptional/interconceptional state
- Pregnancy state

Outcomes
- Short-term: Maternal and infant
  Disease and complications
- Long-term: Maternal and infant
  Disease and complications
- Maternal and infant health and functioning
- Maternal and infant well-being

Health care
A Life Course Model for Understanding Perinatal Health

Distal determinants

- Biological
- Societal

Genetic factors
- Twins
- Intergenerational inheritance
- Imprint genes
- Epigenetics (gene-environment)

Medical environment

Social environment

Processes

- Preconceptional/interconceptional state
- Pregnancy state
- Behavioral responses

Outcomes

- Short-term
  - Maternal and infant
  - Disease and complications

- Long-term
  - Maternal and infant
  - Disease and complications

- Maternal and infant health and functioning
- Maternal and infant well-being

Health care
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Biological
  - Genetic factors
- Societal
  - Social environment

Proximal determinants
- Biomedical
- Environmental responses

Processes
- Preconceptional/interconceptional state
- Pregnancy state

Outcomes
- Short-term
  - Maternal and infant
  - Disease and complications
- Long-term
  - Maternal and infant
  - Disease and complications
- Maternal and infant health and functioning
- Maternal and infant well-being
- Health care
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Biological
  - Genetic factors
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Proximal determinants
- Biomedical responses

Processes
- Preconceptional/interconceptional state
- Pregnancy state

Outcomes
- Short-term
  - Maternal and infant
  - Disease and complications
- Long-term
  - Maternal and infant
  - Disease and complications

Social environment
- Socioeconomic status
- Stress
- Social capital/social supports
- Family violence/neighborhood violence
- Family social capital

Health care
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Genetic factors
- Physical environment
- Social environment

Proximal determinants
- Biomedical responses
  - Infection
  - Chronic illness
  - Mental illness/stress reactivity
  - Infertility
  - Nutrition (e.g., obesity, eating disorders)
- Behavioral responses
- Pregnancy state

Processes

Outcomes
- Short-term
  - Maternal and infant
  - Disease and complications
- Long-term
  - Maternal and infant
  - Disease and complications
- Maternal and infant health and functioning
- Maternal and infant well-being
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Genetic factors
- Physical environment
- Social environment

Proximal determinants
- Biomedical responses
- Preconceptional/interconceptional state

Processes
- Behavioral responses
  - Alcohol use
  - Drug use
  - Smoking
  - Nutrition
  - Sexual behavior
  - Stress, self efficacy, locus of control, depression and anxiety

Outcomes
- Short-term
  - Maternal and infant
  - Disease and complications
- Long-term
  - Maternal and infant
  - Disease and complications
- Maternal and infant health and functioning
- Maternal and infant well-being
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Distal determinants
- Genetic factors
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Processes
- Preconceptional/interconceptional state
- Pregnancy state

Outcomes
- Maternal short-term outcomes
  - Hemorrhage
  - Preeclampsia
  - Gestational diabetes
  - Caesarian section
  - Antenatal section/ED visits
  - Mortality

Maternal and infant health and functioning
Maternal and infant well-being
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Genetic factors
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- Social environment

Proximal determinants
- Biomedical responses
- Behavioral responses

Processes
- Preconceptional/interconceptional state
- Pregnancy state

Outcomes
- Short-term maternal and infant outcomes
- Maternal and infant well-being
- Long-term maternal and infant outcomes
- Disease and complications

Maternal long-term outcomes
- Post-partum depression
- Pregnancy weight retention
- Uterine prolapse/urinary incontinence
- Cancer
- Osteoporosis
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- Biological
  - Genetic factors
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  - Social environment

- Societal

Proximal determinants

- Biomedical responses
- Behavioral responses

Processes

- Preconceptional/interconceptional state
- Pregnancy state

Outcomes

- Short-term
  - Maternal and infant health
  - Disease and complications

- Long-term
  - Maternal and infant health
  - Disease and complications

Infant long-term outcomes
- Cerebral palsy
- Intellectual impairment/neurologic disabilities
- Chronic pulmonary disease
- Stress reactivity
- Attention and learning disabilities

Health care

Maternal and infant well-being
A Life Course Model for Understanding Perinatal Health

Distal determinants
- Biological:
  - Genetic factors
  - Physical environment
  - Social environment

Societal

Proximal determinants
- Biomedical responses
- Behavioral responses

Processes
- Preconceptional/interconceptional state
- Pregnancy state

Outcomes
- Short-term: Maternal and infant disease and complications
- Long-term: Maternal and infant disease and complications
- Maternal and infant health and functioning
- Maternal and infant well-being

Health care
Measuring Health at Birth

- Ht., Wt., OFC.
- APGAR
Brazelton

- T. Berry Brazelton, MD

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A Life Course Model for Understanding Perinatal Health

Distal determinants

Biological

- Genetic factors
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Outcomes

- Short-term Maternal and infant Disease and complications
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Health care