Ohio’s Infant Mortality Crisis

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Neonatal Abstinence Syndrome (NAS)
- Substance abuse during pregnancy can lead to:
  - Preterm Birth
  - Low birth weight (24%)
  - Feeding Difficulties (21%)
  - Irritability
  - Respiratory distress (31%)
  - Seizures (2%-10x higher than all OH infants)
  - Fever/Unstable Temperatures

  - 210 out of 10,000 mothers hospitalized for substance abuse at time of delivery in 2011
  - 88 in 10,000 live births hospitalized in 2011 (six-fold increase from 2004)
  - 15.9 days is the average length of stay for NAS infants (4x higher than all OH infants)

Types of NAS
- Opioid related
  - Increased 540% between 2004 and 2011
  - 403 infants in 2011
- Marijuana/Cocaine related
  - With 1,559 mothers testing positive at time of delivery, Marijuana was the most commonly abused drug in 2011
- Methamphetamine related

Nicotine Dependence/Secondhand Smoke
- Risk for:
  - Stillbirth
  - SIDS
  - Respiratory Problems
  - Slow Fetal Growth
  - Ear infections
  - Increased medical and hospital visits

Treatments for substance abuse
- Medicinal treatment during pregnancy
  - Methadone (Heroin abuse)
  - Buprenorphine (Opioid abuse)
- Behavioral treatment during pregnancy
  - Cocaine, opiate, and nicotine dependence
- Maternal Opiate Medical Support (M.O.M.S.) project
- Ohio Mental Health and Addiction Services

- Substance Abuse and Mental Health Services Administration Block Requirements
  - 45 intensive outpatient centers
  - 26 outpatient facilities
  - 34 residential facilities with 803 beds for women

Statistics & Learning Objectives
- Learning objectives
  1. Prevent substance abuse in pregnant women
  2. Prevent Preterm labor
  3. Provide community resources for pregnant women
  4. Teach the importance of Safe Sleep

- 2013 Ohio data
  - 1,024 infants died prior to their first birthday
  - 7.4 deaths per 1,000 live births (23% higher than national average)

  - Ashitabula: 71,093
  - Columbiana: 6/3,094
  - Mahoning: 22/2,409 (9.1 per 1,000)
  - Trumbull: 72,151

- Source: www.communitysolutions.com/infant-mortality-neorio

Treating NAS
- Medicinal treatment
  - Methadone
  - Buprenorphine

- Behavioral treatment
  - Cocaine, opiate, nicotine

- Maternal Opiate Medical Support (M.O.M.S.)

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Nutrition: Women, Infants, and Children (WIC)
- Women who receive WIC benefits are less likely to experience infant deaths in families who receive WIC
- 403 infants
- 25% (10 out of 40) infants die per year

- Funding to develop protocols for using progesterone in clinical practice
- Funding to develop smoking cessation treatment in pregnant women

SIDS
- 3 infants die per week due to unsafe sleep conditions
- "Going home" kit for safe sleep
- Akron Children’s Hospital Mahoning Valley - "Going home" kit for safe sleep

- Preventing
  - Mahoning County Board of Health - Cribs for Kids survival kit
  - Akron Children’s Hospital Mahoning Valley - "Going home" kit for safe sleep

- OH AAP, Children’s Trust Fund, Children’s Hospital Association - 3-prong campaign
  1. Education and Safe Sleep Environment
  2. Injury Prevention/Safe Sleep Learning Collaborative
  3. Public Awareness Campaign

- AABC - Alone, on their Back, in a Crib

References


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