

# Introduction to the Special Issue: Impact of Prenatal Substance Exposure on Children's Health, Development, School Performance, and Risk Behavior

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## Why a Special Issue on Prenatal Substance Exposure?

In the United States, exposure to maternal use of drugs and alcohol, pre- and/or postnatally, is one of the most common risk factors associated with children's negative behavioral and developmental outcomes. Despite evidence linking alcohol and tobacco to fetal damage and warnings from public health campaigns, currently, at least 10% of women drink alcohol during pregnancy (Centers for Disease Control and Prevention, 2004) and 11% smoke cigarettes (Martin, Kochanek, Strobino, Guyer, & MacDorman, 2005). Although these reported rates have declined in recent years, they may not reflect exposure early in the pregnancy before women know they are pregnant. For instance, recently the Centers for Disease Control and Prevention (2004) reported that over 50% of women of childbearing age who were not using birth control drank alcohol and were, therefore, at risk for pregnancy complicated by fetal risk. Maternal substance use also includes marijuana, "hard drugs" (heroin, cocaine, and methamphetamines), and prescription medications, either through medical advice or misuse. As evidence has accumulated about the teratogenic risk associated with such use, professionals and the public have become aware of the need to understand the impact on pregnancy outcomes and children's development. Initial concerns regarding the presumed, but undocumented, effects of substance exposure on children's development have given way to a more balanced approach that examines how substances interact with environmental factors to influence children's development. Information from current studies demonstrates

the importance of developing strategies to promote the health and development of exposed children, to implement effective prevention programs, and to avoid the unnecessary anxiety that can stigmatize mothers and children.

The knowledge base regarding the effects of prenatal exposure to substances of abuse is growing, often in response to interest by scientists and the support available from federal funding sources. Research on the effects of prenatal exposure to substances of abuse has occurred in response to the scientific awareness of the dangers to children, as when fetal alcohol syndrome was first described in 1973 (Jones and Smith, 1973), and to public health concerns regarding "epidemics" of drug use, such as heroin in the 1960s, and cocaine and crack in the late 1980s and early 1990s. Currently, there is a great deal of attention being paid to the effects of pre- and postnatal exposure to tobacco and to methamphetamines.

Much of the recent research on the effects of prenatal drug exposure has been conducted among young children exposed to cocaine prenatally. The emerging findings on performance during the school-age years have been mixed. Some investigators have found that prenatal cocaine exposure is not associated with cognitive performance (Chasnoff et al., 1998; Richardson et al., 1996), play behavior (Accornero, Morrow, Bandstra, Johnson, & Anthony et al., 2002), academic achievement (Richardson et al., 1996), attention or teacher-rated classroom behavior (Richardson et al., 1996). However, others have found that prenatal cocaine exposure may be associated with behavior problems (Chasnoff et al., 1998), task persistence and attention problems (Bandstra, Morrow, Anthony, Accornero, & Fried, 2001), and language performance (Bandstra,

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## **Table of Contents Exposure Special Education Issue**

1. Understanding the eBook Exposure Special Education Issue
  - The Rise of Digital Reading Exposure Special Education Issue
  - Advantages of eBooks Over Traditional Books
2. Identifying Exposure Special Education Issue
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Exposure Special Education Issue
  - User-Friendly Interface
4. Exploring eBook Recommendations from Exposure Special Education Issue
  - Personalized Recommendations
  - Exposure Special Education Issue User Reviews and Ratings
  - Exposure Special Education Issue and Bestseller Lists
5. Accessing Exposure Special Education Issue Free and Paid eBooks

- Exposure Special Education Issue Public Domain eBooks
- Exposure Special Education Issue eBook Subscription Services
- Exposure Special Education Issue Budget-Friendly Options
- 6. Navigating Exposure Special Education Issue eBook Formats
  - ePub, PDF, MOBI, and More
  - Exposure Special Education Issue Compatibility with Devices
  - Exposure Special Education Issue Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Exposure Special Education Issue
  - Highlighting and Note-Taking Exposure Special Education Issue
  - Interactive Elements Exposure Special Education Issue
- 8. Staying Engaged with Exposure Special Education Issue
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Exposure Special Education Issue
- 9. Balancing eBooks and Physical Books Exposure Special Education Issue
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Exposure Special Education Issue
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Exposure Special Education Issue
  - Setting Reading Goals Exposure Special Education Issue
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exposure Special Education Issue
  - Fact-Checking eBook Content of Exposure Special Education Issue
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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