



#### Test Your Knowledge! True or False?

-Most babies are born healthy and most hazards can be avoided.

-There are very few prenatal factors that can harm a developing person.

-Prenatal exposure to a dangerous substance is only harmful in the first trimester of the pregnancy.

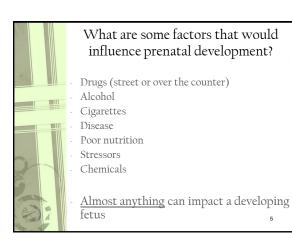
-Research has proven that drinking alcohol (in any amount) during pregnancy is safe.

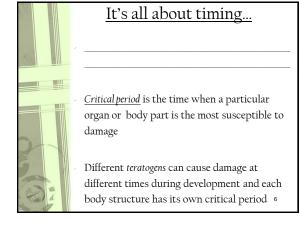
### Is the prenatal environment that important??

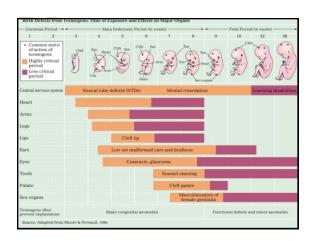
YES! There are many factors that can negatively impact the developing person.

\_\_\_\_are substances that can lead to birth defects or even death during the prenatal period.









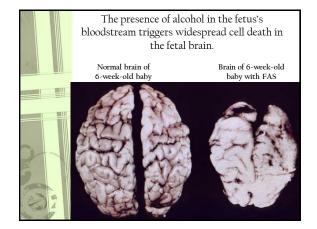


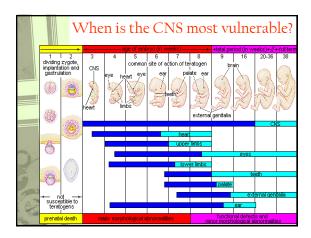


#### Facial abnormalities are an obvious indicator of FAS Small head circumference

- Small, widely-spaced eyes
- Prolongation of the fold of the upper eyelid
- A short, upturned nose
- Flat mid-face, lowered nasal bridge
- Thin upper lip









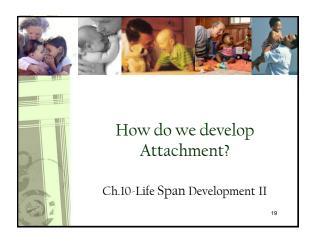
#### Other Factors

- Nutrition
  - Especially folic acid
- Maternal age
  - Negatively affect development if mom is an adolescent or over the age of 35
- Emotional states and stress
  - When a pregnant woman experience intense fears, anxieties, and other emotions physiological changes occur that may affect her fetus





# Infants are born with innate primary reflexes: Indicate whether the newborn's nervous system is working properly. They can also be used to assess development during infancy







The first special relationship we experience develops between parent and child

It is believed that this relationship will

#### What is Attachment?

<u>Attachmen</u>t is \_\_

A close emotional bond that is "personspecific" and is enduring across time.



## THINK <u>proximity-seeking behaviors</u>, meaning infants

How do you know an infant is attached to someone?

Infants show their attachment through



#### How does love develop between mother and child?

Harry Harlow studied the impact of security and "contact comfort" on infant attachment.

# Harry "The Mor

Harry Harlow (1959) "The Monkey Love experiments"

- Harlow evaluated whether feeding or contact comfort was more important to infant attachment.
  - The young animals were "raised" by two kinds of surrogate monkey mother machines.
- One mother was made of soft terry cloth, the other made of wire mesh

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#### "Monkey Love Experiments"



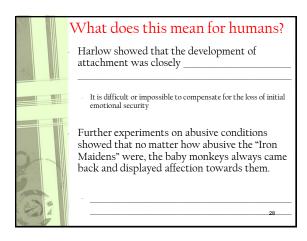
- Harlow's research showed that the need for *affection* created a



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Harlow's work suggested that the development of a child's love for their caregiver was emotional rather than physiological







#### What happened to these monkeys?

- Monkeys raised without their mothers were socially maladjusted the rest of their lives.
  - "When confronted with fear, they displayed autistic and institutionalized behaviors-throwing themselves on the floor, clutched themselves, rocked back and forth, and screamed in terror."
- They were incapable of having sexual relations and they were also unable to parent their offspring, either abusing or neglecting them.

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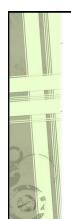
"Not even in our most devious dreams could we have designed a surrogate as evil as these real monkey mothers were."



#### Are all Attachment Relationships the Same?



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#### The Quality of Attachment

Based on how the infant reacts to separation from the caregiver and the reunion by using a procedure known as the

Ainsworth (1993) and others have identified 4 basic types of attachment relationships

- 1. Secure Attachment
- 2. Insecure/Resistant
- 3. Insecure/Avoidant
- 4. Insecure/Disorganized







- Observer shows the experimental room to mother and infant, then leaves the room.
- 2 Infant is allowed to explore the playroom for 3 minutes; mother watches but does not participate.
- 3 A stranger enters the room and remains silent for 1 minute, then talks to the baby for a minute, and then approaches the baby. Mother leaves unobtrusively.
- 4 The stranger does not play with the baby but attempts to comfort it if necessary.
- After 3 minutes, the mother returns, greets, and consoles the baby.
- 6 When the baby has returned to play, the mother leaves again, this time saying "bye-bye" as she leaves.
- Stranger attempts to calm and play with the baby.
- 8 After 3 minutes, the mother returns and the stranger leaves.



#### Types of Attachment

Secure attachment is a relationship of trust and confidence with a pattern of attachment that involves a high-quality, relatively unambivalent relationship with their caregiver

- This group seems to say "I missed you terribly, but now that you're back, I'm okay."
- 60-65% of American children have secure attachment relationships (Kail, 2007).

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#### Insecure/Resistant

A pattern of insecure attachment in which infants or young children are clingy and stay close to their caregivers rather than exploring their environment

The baby is upset when the mother leaves and remains upset or even angry when she returns, and is difficult to console



#### Insecure/Avoidant

- A pattern of insecure attachment in which infants or young children seem somewhat <u>indifferent</u> toward their caregivers and may even avoid their caregivers
  - The baby is not upset when the mother leaves, and, when she returns, may ignore her by looking or turning away

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If they do get upset when left alone, they are as easily comforted by a stranger as by a parent.

20% of middle-class American children are in insecure/avoidant relationships.

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#### Next Class

How does our thinking develop?

-Cognitive development