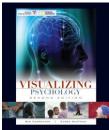




CHAPTER 9

Life Span
Development I



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Lecture Overview

- Studying Development
- Physical Development
- Cognitive Development



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Studying Development



 Developmental Psychology: studies agerelated changes in behavior & mental processes from conception to death



Life Span Development

Stage	Approximate Age		
Prenatal	Conception to birth		
Infancy	Birth to 18 months		
Early childhood	18 months to 6 years		
Middle childhood	6–12 years	S.	
Adolescence	12–20 years		
Young adulthood	20–45 years	Ĭ	
Middle adulthood	45–60 years		
Later adulthood	60 years to death		
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Studying Development-**Key Theoretical Debates**

· Nature vs. Nurture: heredity vs. environment

Plato:

Born with innate knowledge & abilities

Aristotle:

Learning occurs through the senses





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Nature vs. Nurture

- Maturation: Development governed by genetically predetermined signals
- · Critical period: A period of special sensitivity to specific types of learning that shapes the capacity for future development
 - Imprinting
- Tabula rasa: Blank slate



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Studying Development

Continuity vs. Stages: continuous & gradual

periods of abrupt change followed by periods of little change



·Stability vs. Change:

characteristics maintained characteristics vary over time

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What are the **Key Theoretical Debates?**

- Stages
- Nature vs. Nurture
 - · Continuity vs.
 - Stability vs. Change

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Studying Development (Continued)

· What position on these three debates is most correct? Most psychologists support the interactionist perspective, which recently evolved into the biopsychosocial model.



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Pause & Reflect: Critical Thinking

 Behaviorist John Watson said: "Give me a dozen healthy infants, well-formed, & my own specified world to bring them up in, & I'll guarantee to take anyone at random & train them to become any type of specialist I might select-- doctor, lawyer, artist, merchant-chief, &, yes, even beggar man & thief, regardless of his talents, penchants, tendencies, abilities, vocations, & race of his ancestors." (Boakes, 1984, pp. 226) Do you agree? Why or why not?

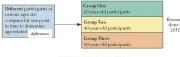
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Studying Development: Research Methods

CROSS-SECTIONAL RESEARCH



LONGITUDINAL RESEARCH



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Which results are "true"? FIGURE 9.2

Cross-sectional studies have shown that reasoning and intelligence reach their peak in early adulthood and then gradually decline. In contrast, longitudinal studies have found that a marked decline does not begin until about age 60. (Adapted from Schale, 1994, with permission.)



cohort effects

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Studying Development: Research Methods

	Cross-Sectional	Longitudinal	
Advantages	Gives information about age differences	Gives information about age changes	
	Quick	Increased reliability	
	Less expensive	More in-depth information per participant	
	Typically larger sample		
Disadvantages	Cohort effects are difficult to separate	More expensive	
	,	Time consuming	
	Restricted generalizability (measures behaviors at only one point in time)	Restricted generalizability (typically smaller sample and dropouts over time)	

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Pause & Reflect: Assessment

- 1. Briefly describe the three key areas of debate in developmental psychology.
- 2. What are the key differences between cross-sectional & longitudinal research?



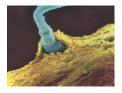
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Physical Development: The Moment of Conception



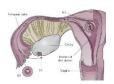


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Physical Development: Three Stages of Prenatal Development





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Physical Development: Three Stages of Prenatal Development

- Germinal Period: conception to uterine implantation
- 2. Embryonic Period: uterine implantation through the eighth week
- 3. Fetal Period: eighth week until birth



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Physical Development: Hazards to Prenatal Development

- Teratogens: environmental agents that cause damage during prenatal development
- · Categories of teratogens:
 - -Legal & illegal drugs
 - Diseases & malnutrition
 - -Exposure to X-rays & stress

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Physical Development: Hazards to Prenatal Development

Maternal Factors	Possible Effects on Embryo, Ferus, Newborn, or Young Child	
Malnutrition	Low birth weight, malformations, less developed brain, greater vulnerability to disease	AN SA
Stress exposure	Low birth weight, hyperactivity, irritability, feeding difficulties	翻幾云路
Exposure to X-rays	Malformations, cancer	
Legal and illegal drugs	Inhibition of bone growth, hearing loss, low birth weight, fetal alcohol syndrome, mental retardation, attention deficies in childhood, and death.	Scrangath, A.P., N. Lade, R.E. (1994). "Unit S.Alcobol, Preparacy, and the Fresh Alcobol Syndrome: Scroolff.disons" of the Projects of the Pro
Diseases Germin messles (rubella), herpes, AIDS, and toxoplasmosis	Blindness, deafness, mental retardation, heart and other malformations, brain infection, spontaneous abortion, premature birth, low birth weight, and death	in distance by speak attended to make the control of the control o

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Physical Development: Early Childhood

- Three key areas of early childhood development:
 - -Brain
 - -Motor
 - -Sensory/perceptual

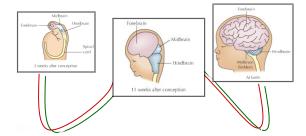


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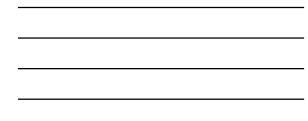
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Physical Development: Prenatal Brain Development



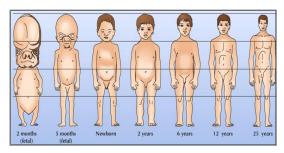
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Physical Development: Lifespan Changes in Body Proportions

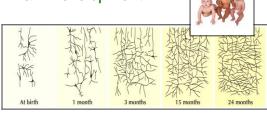


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Physical Development: Brain Development



 As a child develops, his or her neurons grow in size & the number of dendrites & axons increase.

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Physical Development: Sensory & Perceptual Development

- Smell, taste, touch, & hearing are well developed at birth.
- Vision is poorly developed at birth.



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Prenatal Development



Touch & sense of pain highly developed Taste & smell well developed

During the last few months, the child can hear sounds outside the womb.

Newborns can easily recognize mothers' voices

Preference for stories that were read to them in utero

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Physical Development: Early Childhood



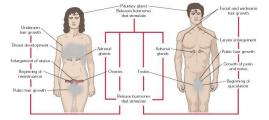
· Milestones in motor development

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Physical Development: Adolescence & Puberty

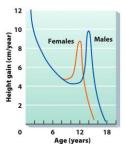


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Physical Development: Adolescent Growth Spurt





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Physical Development: Adulthood

- Middle Age:
- Female Menopause
- Male Climacteric



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Physical Development: Adulthood

- Late Adulthood:
- Primary Aging: gradual, inevitable changes
- Secondary Aging: changes due to disease, disuse, or neglect



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Physical Development: Adulthood

- · Alzheimer's disease
- · Information processing
- Theories on aging & death
 - ▶Programmed theory
 - ➤ Damage theory



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Frank McCourt publishes Angela's Ashes

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Pause & Reflect: Assessment

- 1. <u>Teratog</u>eresenvironmental agents that may lead to birth defects.
- The senses of <u>Smell, taste, touch & hearing</u> & _____ are all well developed at birth.

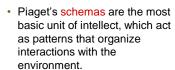


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Cognitive Development









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Cognitive Development (Continued)

- Schemas grow & change due to:
 - Assimilation: absorbing new information into existing schemas
 - Accommodation: adjusting old schemas or developing new ones to better fit with new information

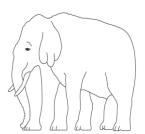


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Cognitive Development (Continued)



 Can you draw this "impossible figure"? If not, it's likely that you have not developed the required artistic schema.





Pause & Reflect: Assessment

1. Schemast as patterns that organize interactions with the environment.

Absorb new info into existing

2. Assimilation occurs when _ schemas whereas accommodation involves

Adjusting old schemas or developing new ones

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Cognitive Development: Piaget's Four Stages

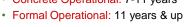






• Sensorimotor: birth-2 years · Preoperational: 2-7 years

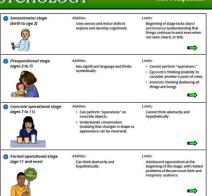
Concrete Operational: 7-11 years





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PSYCHOLOGY Senser-insector stage ((brit to age 2)) Limits - Regimenting of stage lacks object permanence (understanding that utiling centres out ever when desire, based, or feet) Abilities - Outer senses and motor shifts to explore and develop copatively Example - Children at this stage lithe to play with their food. Testing Object Permanence Previous Permanence | Committee of the com

- Operations
- Egocentrism
- Animism

Concrete operational stage leges 7 to 111

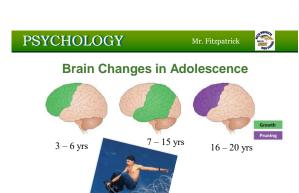
Limits

- Carnet think abstractly and hypothetically
- Chindreg ford in corrects targetic objects and events

Abilities

- Car perform "operations" accurate objects
- Objects objects
- Car perform "operations" accurate objects
- Objects objects
- Car perform "operations" accurate objects
- Objects objects
- Car perform "operations" accurate objects
- Car perform "operation





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Pause & Reflect: Critical Thinking

 Can you explain how this type of risk taking may be an example of the "adolescent personal fable"?



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Cognitive Development: Assessing Piaget's Theory

Two Major Criticisms

- Underestimated abilities (e.g., newborns can imitate facial expressions)
- Underestimated genetic & cultural influences



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Piaget



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Pause & Reflect: Assessment

 Fill-in-the-blanks with the correct label for each of Piaget's four stages of cognitive development.



sensorimotor



preoperational



concrete operational



formal operational





End of CHAPTER 9

Life Span Development I

