

Puberty and the growth spurt

- Pubescence is the 2-year span preceding puberty during which secondary sex characteristics begin to develop.
- Puberty is the stage during which primary sex characteristics develop fully.
- Girls who reach puberty early and boys who mature relatively late have a greater risk for psychological and social difficulties.

Time of turmoil?

- Suicides and especially attempted suicides have risen dramatically among adolescents in recent decades, but completed suicide rates remain lower for adolescents than for older age groups.
- The data on adolescent violence suggest that adolescence is a time of turmoil, although the incidence of school violence has remained lower than widely perceived.
- The recent consensus of experts has been that adolescence does not appear to be more stressful than other periods of life.
- However, Jeffrey Arnett has marshalled evidence that suggests that adolescence is somewhat more stressful than other life stages.

The search for identity

- According to Erikson, the main challenge of adolescence is the struggle for a sense of identity.
- According to James Marcia, adolescents deal with their identity crisis in four ways: foreclosure, moratorium, identity diffusion, and identity achievement.
- Age trends in identity status generally are consistent with Marcia's theory, but there is great variability and most people reach identity achievement at later ages than originally envisioned.

Personality development

- During adulthood, personality generally remains fairly stable, but some people do experience significant changes.
- For the most part, research has not supported the notion that most people go through a midlife crisis.
- According to Erikson, people evolve through three stages of development in the adult years: intimacy versus isolation, generativity versus selfabsorption, and integrity versus despair.

Family transitions

- Adjusting to marriage is more likely to be difficult when spouses have different expectations about marital roles.
- Marital satisfaction tends to decline in the early years of marriage and to gradually climb later in the family life cycle.
- Parent-adolescent relations are not as contentious as widely assumed, but conflicts do increase and parents tend to feel stressed.
- For many parents the transition to an empty nest seems to be less difficult than it used to be.



Development in Adulthood

Cognitive changes

- General intelligence is fairly stable throughout most of adulthood, with a small decline in average scores seen after age 60.
- The memory losses associated with aging are moderate and may be mostly due to declining working memory.
- Speed in cognitive processing tends to begin a gradual decline during middle adulthood.

Physical changes

- In the sensory domain, vision and hearing acuity tend to decline, but glasses and hearing aids can compensate for these losses.
- Women's reactions to menopause vary and menopause is not as stressful as widely believed.
- Brain tissue and weight tend to decline after age 60, but this loss does not appear to be the key to age-related dementias.
- Dementias are seen in about 15%-20% of people over age 75, but they are not part of the normal aging process.
- Alzheimer's patients exhibit profound loss of brain tissue and the accumulation of characteristic neural abnormalities.

Key Themes

- Psychology is theoretically diverse.
- Psychology evolves in a sociohistorical context.
- Heredity and environment jointly influence behavior.
- Behavior is shaped by cultural heritage.
- Behavior is determined by multiple causes.

Stages



Prenatal Development

Environmental influences

- During the germinal stage a zygote becomes a mass of cells that implants in the uterine wall and the placenta begins to form.
- During the embryonic stage most vital organs and bodily systems begin to form, making it a period of great vulnerability.
- During the fetal stage organs continue to grow and gradually begin to function, as the fetus reaches the age of viability around 22–26 weeks.
- Maternal malnutrition increases newborns' risk for birth complications and neurological deficits.
- Maternal consumption of alcohol, tobacco, and other drugs can have a variety of negative effects on prenatal development.
- Maternal illnesses can interfere with prenatal development, and genital herpes and AIDS can be passed to newborns at birth.

Motor development

- Motor development follows cephalocaudal (headto-foot) and proximodistal (center-outward) trends.
- Early progress in motor skills has traditionally been attributed to maturation, but recent research suggests that infants' exploration is also important.
- Cross-cultural research on motor development shows that maturation and environment are both influential.

Cognitive development

- Read Plaget proposed that children evolve through four stages of cognitive development.
- According to Piaget, children progress in their children through the complementary processes of accommodation.
- The major achievement of the sensorimotor period birth to age 2) is the development of object permanence.
- Children's thought during the preoperational period ages 2–7 is marked by centration, animism, and egocentrism.
- In the concrete operational period (ages 7—11)
 Collision develop the ability to perform operations
- e formal operational period (age 11 onward)

 suggest becomes more systematic, abstract, and
- Faget made landmark contributions to the advertiseding of cognitive development, but he may have underestimated the pace of children's development and the influence of culture.
- Reasoners have found that infants understand complex concepts, such as addition, that they have leaf limite on comunity to acquire through learning.
- Name and evolutionary theorists argue that children's brains are prewired to readily understand
- Children's understanding of the mind seems to turn a corner between ages 3 and 4 as they realize that people may hold false beliefs.

Approaches to research on development

- In a longitudinal study one group of subjects is observed repeatedly over time.
- In a cross-sectional study groups of subjects of varied ages are observed at a single point in time
- Cross-sectional studies are quicker and easier, but longitudinal studies can be more sensitive.

Temperament

- Temperament refers to characteristic mood, activity level, and emotional reactivity.
- In a longitudinal study, Thomas and Chess found that temperament remains fairly stable as children grow up.

Attachment

- Attachment emerges out of a complex interplay between infant and mother.
- Research by Mary Ainsworth showed that infant-mother attachments fall into three categories: secure, anxious-ambivalent, and avoidant.
- Critics worry that day care may disrupt the attachment process, but the evidence is open to debate.
- Cultual variations in child rearing influence the patterns of attachment seen in a society.
- According to Jay Belsky, children have been wired by evolution to respond to sensitive or insensitive care with different attachments that would have been adaptive in ancestral times.



Development in Childhood

Moral development

- Lawrence Kohlberg's theory proposes that individuals progress through three levels of moral reasoning.
- Preconventional reasoning focuses on acts' consequences, conventional reasoning on the need to maintain social order, and postconventional reasoning on working out a personal code of ethics.
- Age-related progress in moral reasoning has been found in research, but there is a lot of overlap among stages.

Personality development

- Erik Erikson's theory proposes that individuals evolve through eight stages over the life span.
- Stage theories assume that individuals progress through stages in a particular order, that progress is strongly related to age, and that new stages bring major changes in characteristic behavior.
- Erikson's four childhood stages are trust versus mistrust, autonomy versus shame, initiative versus guilt, and industry versus inferiority.