

Chapter 4

The Developing Person



- Developmental Psychology
 - a branch of psychology that studies physical, cognitive and social change throughout the life span

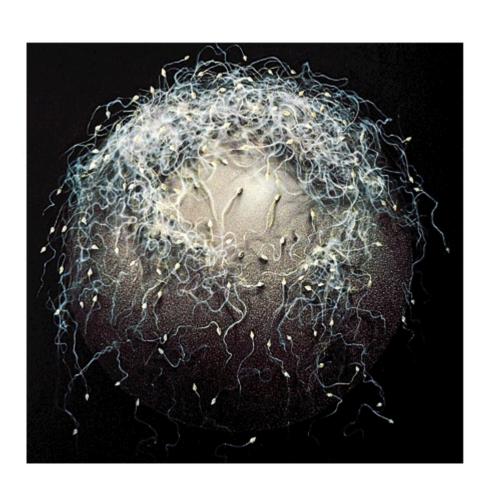


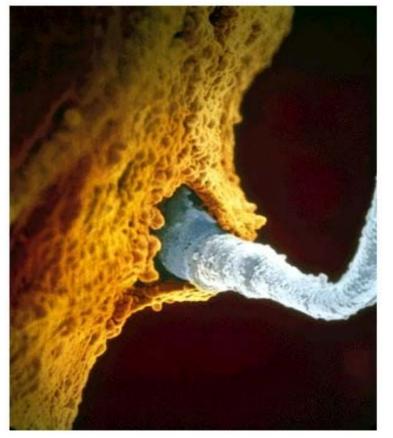




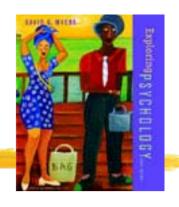








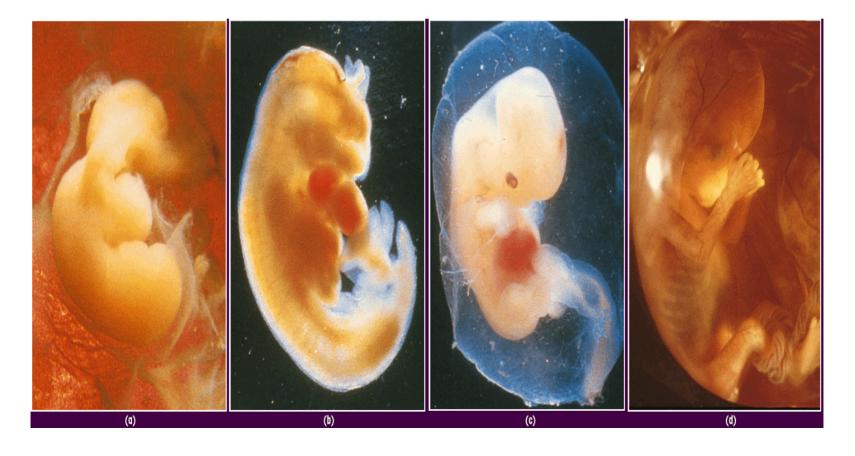
Life is sexually transmitted



- Zygote
 - the fertilized egg
 - enters a 2 week period of rapid cell division
 - develops into an embryo
- Embryo
 - the developing human organism from 2 weeks through 2nd month
- Fetus
 - the developing human organism from 9 weeks after conception to birth



40 days 45 days 2 months 4 months





- Teratogens
 - agents, such as chemicals and viruses, that can reach the embryo or fetus during prenatal development and cause harm
- Fetal Alcohol Syndrome (FAS)
 - physical and cognitive abnormalities in children caused by a pregnant woman's heavy drinking
 - symptoms include facial misproportions



- Rooting Reflex
 - tendency to open mouth, and search for nipple when touched on the cheek
- Preferences
 - human voices and faces
 - face like images-->
 - smell and sound of mother



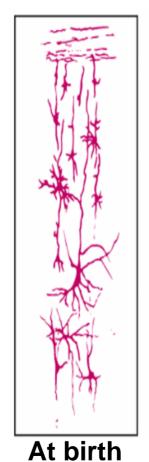


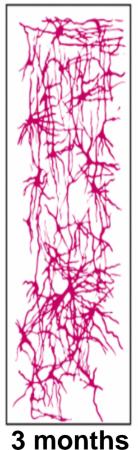
Infancy and Childhood: Physical Development



Maturation

- biological growth processes that enable orderly changes in behavior
- relatively uninfluenced by experience



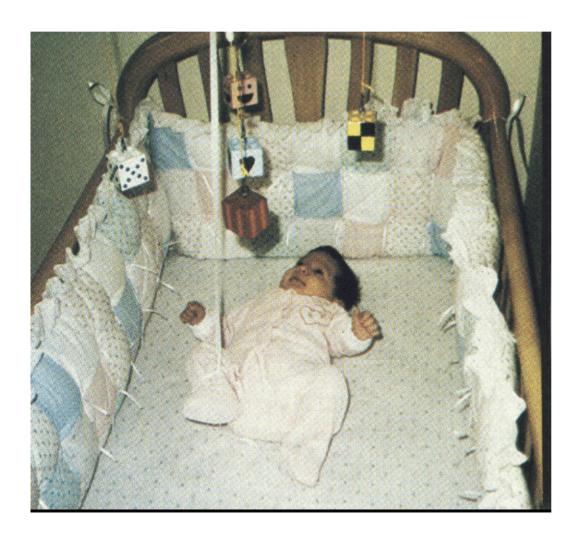


15 months

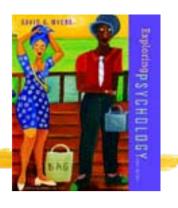
Cortical Neurons

Infancy and Childhood: Physical Development





Babies only 3 months old can learn that kicking moves a mobile- and can retain that learning for a month (Rovee-Collier, 1989, 1997).



- Schema
 - a concept or framework that organizes and interprets information
- Assimilation
 - interpreting one's new experience in terms of one's existing schemas



- Accommodation
 - adapting one's current understandings (schemas) to incorporate new information
- Cognition
 - All the mental activities associated with thinking, knowing, remembering, and communicating

Piaget's Stages of Cognitive Development



Typical Age Range	Description of Stage	Developmental Phenomena •Object permanence •Stranger anxiety	
Birth to nearly 2 years	Sensorimotor Experiencing the world through senses and actions (looking, touching, mouthing)		
About 2 to 6 years	Preoperational Representing things with words and images but lacking logical reasoning	Pretend playEgocentrismLanguage development	
About 7 to 11 years	Concrete operational Thinking logically about concrete events; grasping concrete analogies and performing arithmetical operations	ConservationMathematical transformations	
bout 12 through Formal operational dulthood Abstract reasoning		Abstract logicPotential for moral reasoning	



- Object Permanence
 - the awareness that things continue to exist even when not perceived









- Conservation
 - the principle that properties such as mass, volume, and number remain the same despite changes in the forms of objects







Egocentrism

 the inability of the preoperational child to take another's point of view

Theory of Mind

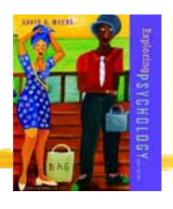
 people's ideas about their own and others' mental states - about their feelings, perceptions, and thoughts and the behavior these might predict

Autism

- a disorder that appears in childhood
- Marked by deficient communication, social interaction and understanding of others' states of mind



- Stranger Anxiety
 - fear of strangers that infants commonly display
 - beginning by about 8 months of age
- Attachment
 - an emotional tie with another person
 - shown in young children by their seeking closeness to the caregiver and showing distress on separation





- Harlow's Surrogate Mother Experiments
 - Monkeys preferred contact with the comfortable cloth mother, even while feeding from the nourishing wire mother

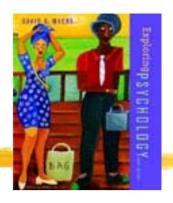


- Critical Period
 - an optimal period shortly after birth when an organism's exposure to certain stimuli or experiences produces proper development
- Imprinting
 - the process by which certain animals form attachments during a critical period very early in life

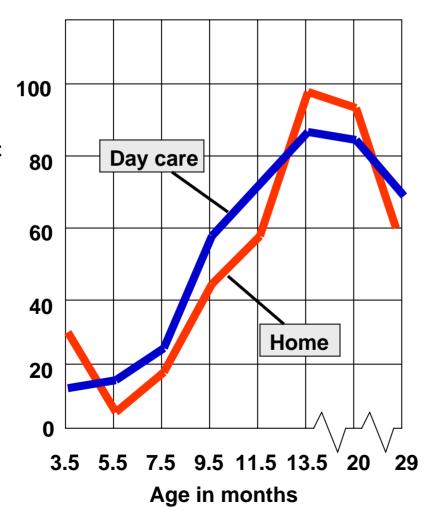




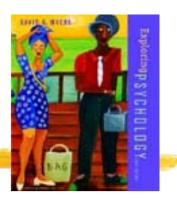
Monkeys raised by artificial mothers were terror-stricken when placed in strange situations without their surrogate mothers



Percentage of infants who cried when their mothers left



 Groups of infants left by their mothers in a unfamiliar room (from Kagan, 1976)



- Basic Trust (Erik Erikson)
 - a sense that the world is predictable and trustworthy
 - said to be formed during infancy by appropriate experiences with responsive caregivers

Social Development- Child-Rearing Practices





Parenting style (e.g., authoritative) Child's traits (e.g., self-reliant, socially competent)



Harmonious marriage, common genes, or other third factor



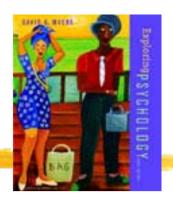


Adolescence

- the transition period from childhood to adulthood
- extending from puberty to independence

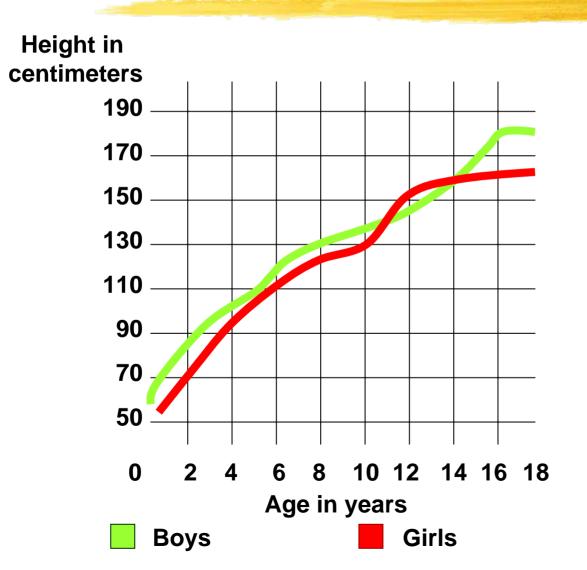
Puberty

- the period of sexual maturation
- when a person becomes capable of reproduction



- Primary Sex Characteristics
 - body structures that make sexual reproduction possible
 - ovaries- female
 - testes- male
 - external genitalia
- Secondary Sex Characteristics
 - nonreproductive sexual characteristics
 - female- breast and hips
 - male- voice quality and body hair
- Menarche (meh-NAR-key)
 - first menstrual period

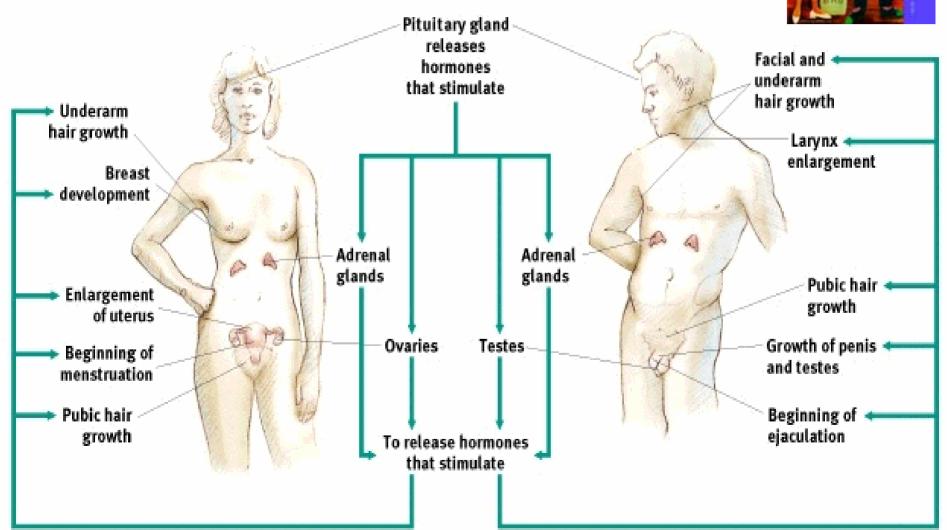




Throughout childhood, boys and girls are similar in height. At puberty, girls surge ahead briefly, but then boys overtake them at about age 14.

Body Changes at Puberty





Erikson's Stages of Psychosocial Development



Approximate age	Stage	Description of Task
Infancy (1st year)	Trust vs. mistrust	If needs are dependably met, infants develop a sense of basic trust.
Toddler (2nd year)	Autonomy vs. shame and doubt	Toddlers learn to exercise will and do things for themselves, or they doubt their abilities.
Preschooler (3-5 years)	Initiative vs. guilt	Preschoolers learn to initiate tasks and carry out plans, or they feel guilty about efforts to be independent.
Elementary (6 years- puberty)	Competence vs. inferiority	Children learn the pleasure of applying themselves to tasks, or they feel inferior.

Erikson's Stages of Psychosocial Development



Approximate age	Stage	Description of Task
Adolescence (teens into 20's)	Identity vs. role confusion	Teenagers work at refining a sense of self by testing roles and then integrating them to form a single identity, or they become confused about who they are.
Young Adult (20's to early 40's)	Intimacy vs. isolation	Young adults struggle to form close relation- ships and to gain the capacity for intimate love, or they feel socially isolated.

Middle Adult (40's to 60's)

Generativity vs. stagnation

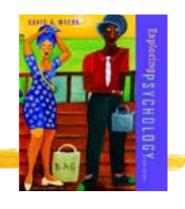
The middle-aged discover a sense of contributing to the world, usually through family and work, or they may feel a lack of purpose.

Late Adult (late 60's and up)

Integrity vs. despair

When reflecting on his or her life, the older adult may feel a sense of satisfaction or failure.

Adolescence- Social Development



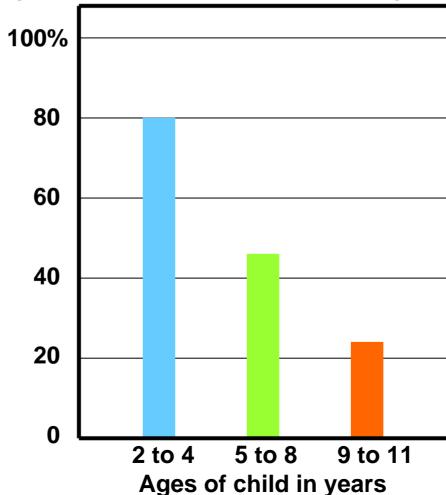
- Identity
 - one's sense of self
 - the adolescent's task is to solidify a sense of self by testing and integrating various roles
- Intimacy
 - the ability to form close, loving relationships
 - a primary developmental task in late adolescence and early adulthood

Adolescence- Social Development

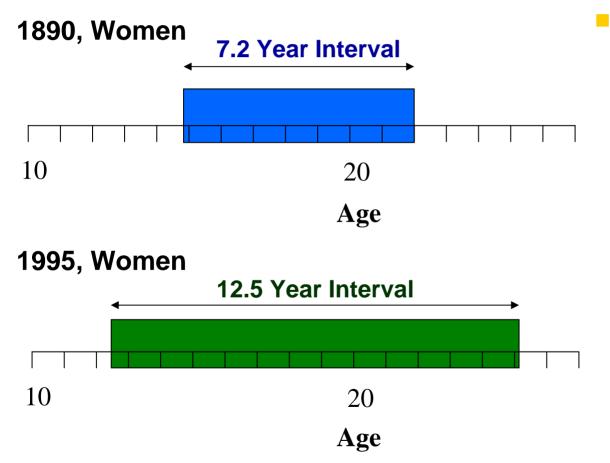


The changing parent-child relationship

Percent with positive, warm interaction with parents







In the 1890's the average interval between a woman's menarche and marriage was about 7 years; now it is over 12 years.



Menopause

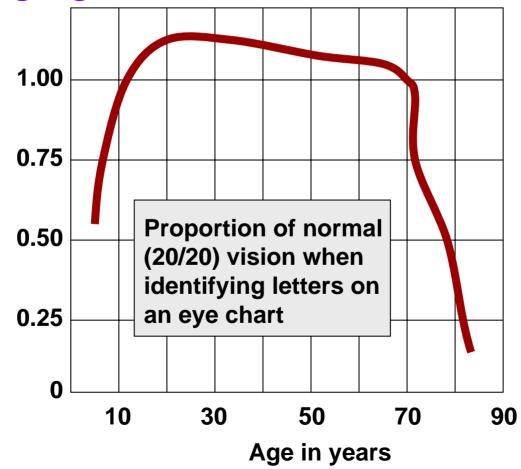
- the time of natural cessation of menstruation
- also refers to the biological changes a woman experiences as her ability to reproduce declines

Alzheimer's Disease

- a progressive and irreversible brain disorder
- characterized by a gradual deterioration of memory, reasoning, language, and finally, physical functioning

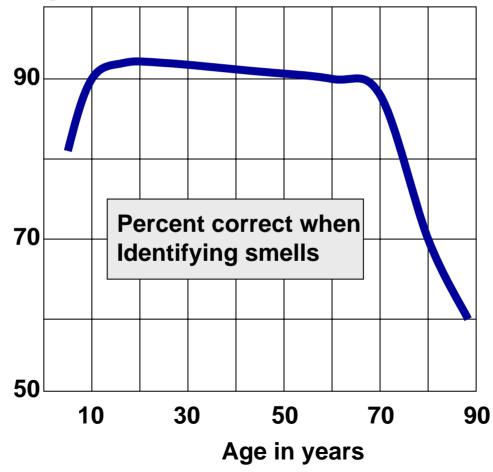


The Aging Senses



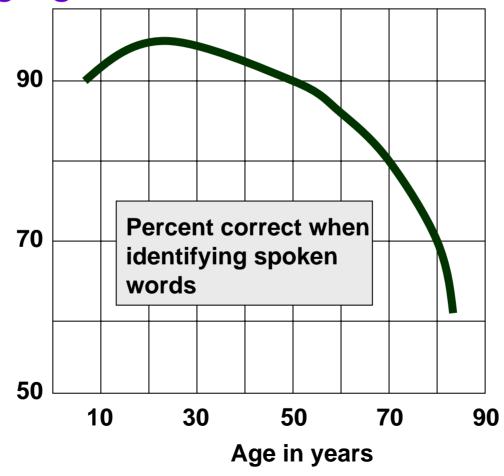


The Aging Senses

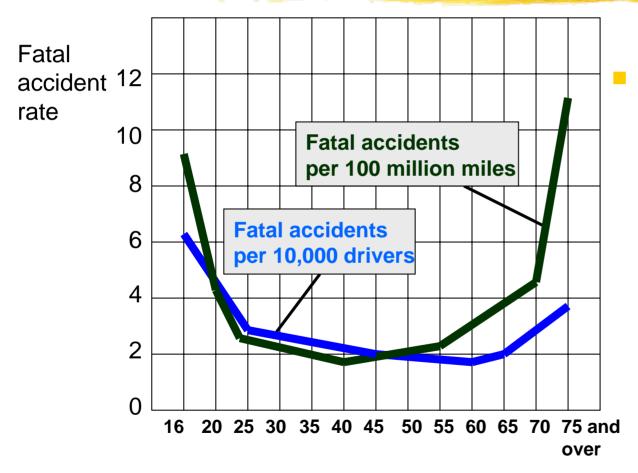




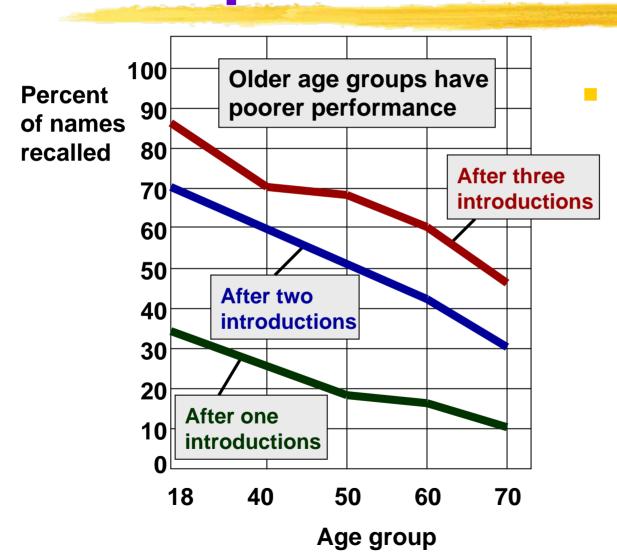
The Aging Senses





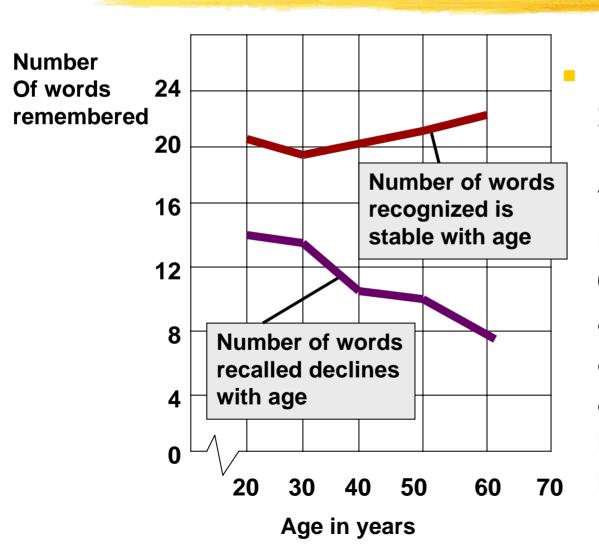


Slowing reactions contribute to increased accident risks among those 75 and older



Recalling new names introduced once, twice or three times is easier for younger adults than for older ones (Crook & West, 1990)





In a study by Schonfield & Robertson (1966), the ability to recall new information declined during early and middle adulthood, but the ability to recognize new information did not

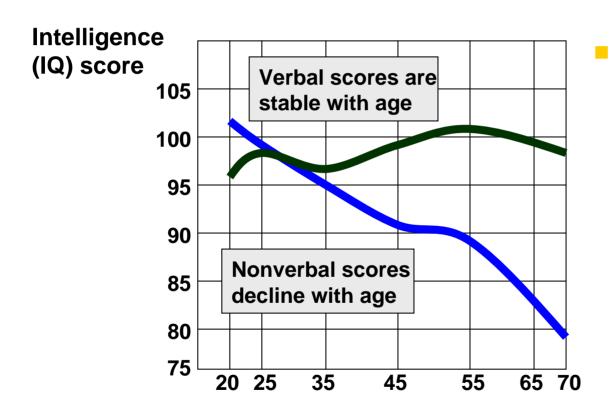


- Cross-Sectional Study
 - a study in which people of different ages are compared with one another
- Longitudinal Study
 - a study in which the same people are restudied and retested over a long period of time



- Crystallized Intelligence
 - one's accumulated knowledge and verbal skills
 - tends to increase with age
- Fluid Intelligence
 - ones ability to reason speedily and abstractly
 - tends to decrease during late adulthood





Verbal intelligence scores hold steady with age, while nonverbal intelligence scores decline (adapted from Kaufman & others, 1989)

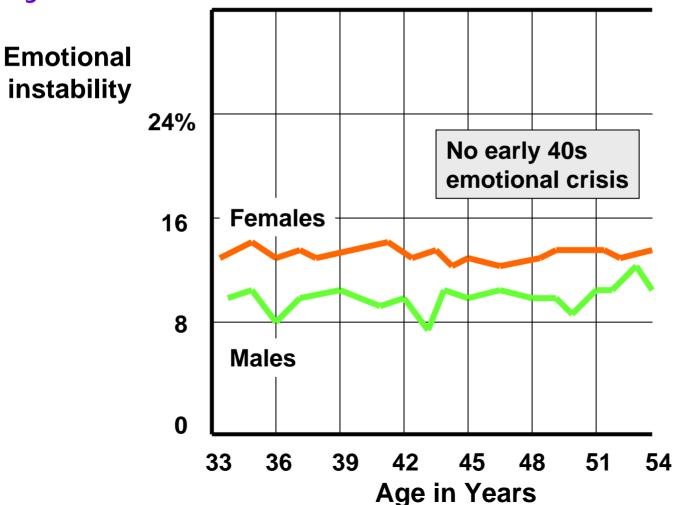
Verbal scores
Nonverbal scores

Age group

Adulthood- Social Development



Early-forties midlife crisis?



Adulthood- Social Changes

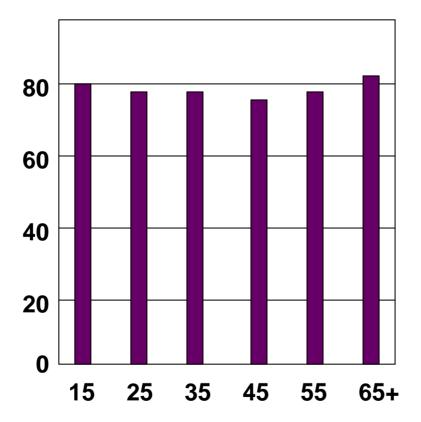


- Social Clock
 - the culturally preferred timing of social events
 - marriage
 - parenthood
 - retirement

Adulthood- Social Changes



Percentage "satisfied" with life as a whole



Age group

Multinational surveys show that age differences in life satisfaction are trivial (Inglehart, 1990)