





Basic Concepts in the Study of Adult Development Stability and change Continuous and discontinuous change Inner and outer change

What influences of adult development result in change? Normative age-graded influences Normative history-graded influences Non-normative life events Let's take a closer look at each of these!

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Normative age-graded influences include: • Biology • Shared experience • Internal change processes Capathle C 2011 by Remain Education for All tables reconst.

Biological Influences and Development

- Some are universal (e.g., loss of muscle tone).
- Sequence of physical changes is highly similar.
- Rate of physical changes varies greatly from one individual to another.
- Direct and indirect effects of biological change occur.

The Time of Our Lives: Shared Experiences

- Social clock produces shared changes by dictating timing and sequence of normal adult experiences.
- Age stratification is prominently seen in patterns of experience associated with marriage and family life.

Internal Change Processes

 At deeper level, shared inner changes may result from responses to biological and social clocks.

Can you think of any examples?

True or false? Shared developmental changes based on the social clock are much less likely to be universal than those based on the biological clock. Copyright C 2011 be Parron Education for All rights parrond

Normative History-Graded Influences • Culture • Cohorts

A Bit About Cultures Social environment in which change takes place. Vary enormously in expected life patterns. Significant variations in adult life experiences from one generation to the next within a given culture.

What is a Cohort?	
Group of persons born within some narrow band of years.	
 band of years. Possess similarity in attitudes, values, skills, or life experiences of individuals within the same generation and differences in these dimensions across generations. Help differentiate between apparent age-related change and real developmental change. 	
change and real developmental change. Influence developmental research (cohort effect)	
Copyright © 2011 by Peanion Education, Inc. All rights reserved.	
If a visitor from another country came	
to class, how would you explain YOUR cohort?	
Copyright © 2011 by Peurion Education. Inc. All rights reserved.	
Can you fill in the blanks? A refers to a group of people who	
A refers to a group of people who share a common historical experience at the same stage of life.	
B refers to the large social environments in which development takes place.	
share a common historical experience at the same stage of life. B refers to the large social environments in which development takes place. C refers to a group of people who share a common historical experience for around 20 years.	
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What do YOU remember?

- Check out Table 1.1 to see which decade of events is the most salient to you.
- Think about the ways in which people who are younger or older might respond.

Why might responses be the same as or different from yours?

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In addition to change, adult development is characterized by periods of stability:

- Different types of stability
- Biology at birth
- Surrounding environment
- Classic nature-nurture dichotomy

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Biological Factors

FACT: Heredity is a source of stability.

QUESTION: Can you think of ways a person remains the same from infancy to old age?

FACT: Evidence about biological factors is gleaned primarily from twin studies.

QUESTION: What have we learned from the Swedish Twin Study (international database on twins)?

PEARSON Bjor	Are you a sage about "Age"? Fill in the blanks and see.
Bjorklund	Aage = number of years since birth.
The	Bage = physical condition.
The Journey of ADULTHOOD	Cage = ability to deal with the
y of ,	environment.
ADUL	D age = timing of taking on adult roles.
THO	E age = how well a person is
OD	functioning.
SEVENT	
Prentice Hall	Copyright © 2011 by Pearing Education, Inc. All rights reserved

What do you think?

- Is it possible for people in their 70s to make developmental gains?
- Do people in their 20s experience developmental loss?

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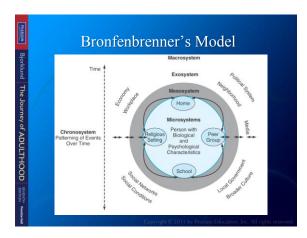
Theory before research... Broad approaches presented in text Life-span developmental psychology approach Bioecological model of development

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Life-span Developmental Psychology Approach Development is lifelong, multidimensional, plastic, contextual, and multiple causal

People develop within context of multiple, interacting environments that change over time. Development must be studied in context.

Can you find each system on the following slide? Bronfenbrenner's theory and systems Microsystem Exosystem Macrosystem Mesosystem Chronosystem Chronosystem



All research begins with questions.

Can you think of a question that:

- Deals with basic research methods?

- Addresses research measures?

- Focuses on research analyses?

- Points to overall conclusions?

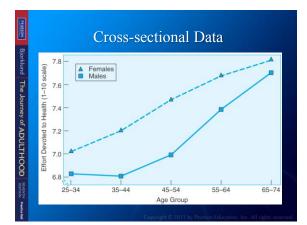
Choosing the appropriate research design is essential to the scientific study of development:

Cross-sectional Designs
Longitudinal Designs
Sequential Designs

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Cross-Sectional Designs:

- Include different groups of subjects at different ages.
- Inform about potential age differences.
- Do not provide direct information regarding age-related changes.
- Are limited by cohort effects.



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Cross-sectional Designs: Advantages and Disadvantages

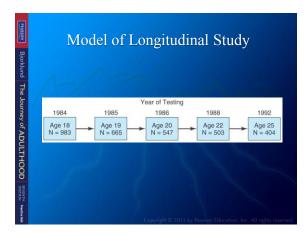
Advantages:

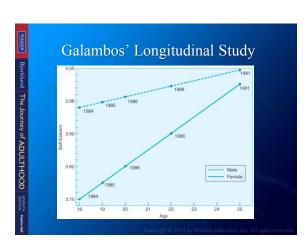
- Relatively quick
- Highlight possible age differences

Disadvantages:

- Age and cohort are confounded.
- Cannot draw conclusions about individual consistency and change over time.

Longitudinal Designs: Solve many problems of cross-sectional studies. Follow the same subjects over time.

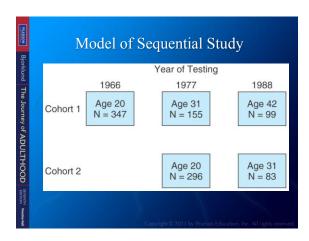




Longitudinal Designs: Advantages Advantages: - Age and cohort not confounded. - Changes seen can be inferred to be real changes. - Non-change reflects real stability. - Enable researcher to look at change or stability within individual.

Longitudinal Designs: Disadvantages Disadvantages: - Selective attrition can weaken findings. - Weakened by time-of-measurement effects. - Often have smaller samples.

Sequential Designs: • Family of research designs involving either multiple cross-sectional comparisons or multiple longitudinal comparisons, or both. • Used to mitigate cohort and time-of-measurement effects. – Time-Lag Design – Time-Sequential Design – Panel Studies





Knowledge of strategies for collecting and analyzing data is important to understand research on adult development:

• Subject Selection

• Data Collection

• Data Analysis

• Study Type

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Subject Selection

- Goal is sample that enables depth and generalizability of findings.
- Small samples increase depth of study but limit generalizability.
- Larger samples (if representative) can increase generalizability, but often limit depth due to practical considerations (time, expense, etc.).

Data Collection Observation Interviews Questionnaires Standardized Tests

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Data Analysis

- The two most common ways of looking at results of studies of adult change and stability:
 - comparison of mean scores
 - correlational analysis

Comparison of Means • Means (averages) analyzed to look for differences or continuities. • Comparison of means can highlight possible age changes, but cannot determine stability or change within individuals.

Correlational Analysis Correlation indicates extent to which two sets of scores covary. Correlations (r) can range from +1.00 to – 1.00. Positive correlation shows high scores on the two dimensions occur together. Negative correlations indicate high scores on one dimension go with low scores on the

other.

Study Type Correlational Studies Experimental Studies Quasi-Experimental Studies Copyright C 2011 by Pearlin Education, Inc. All higher seasons

Study Type Correlational Studies: • Shows relationship; does not prove causality. Experimental Studies: • Tests if independent variable caused change in dependent variable.

Study Type Quasi-Experimental Studies: Conducted as if true experiments, but no random assignment of groups. Can provide valuable information, but cannot prove factor of interest causes change in dependent variable.

Other Designs Descriptive research Informs current state of participants on measure of interest Lacks high level of experimenter control

PEARSON	Other Designs
Bjorklund	Qualitative research
The	 Research without numbers
The Journey of ADULTHOOD	 Case studies, interviews, participant observations, direct observations, and exploration of documents, artifacts, and archival records Requires time, precision, objectivity
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Prentice Hall	

Chapter Review

- Developmental psychology includes the study of ____ and ____ over time during childhood, adolescence, and adulthood.
- 2. The study of adult development covers the time from emerging adulthood to the end of life and is based on _____ research.

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Chapter Review

- 3. Sources of change in adulthood are classified into three types: normative age-graded influences are linked to ___ and happens to most people as they grow older.
- 4. ____ influences are factors that only affect some people or groups.

Chapter Review 5 are unique to the individual and cause developmental changes not shared by many. 6. Sources of stability include and influences and the interaction between the two.	
Chapter Review 7. Developmental psychologists rarely depend on age alone. Most use age groups or stages in life. 8. The text uses the tenets of and the	
Chapter Review 9 studies gather data on a group of people representing different age groups. 10 studies follow the same people over a long period of time, gathering data at several points along the way.	

Chapter Review 11 studies combine the preceding methods by combining two longitudinal studies during different time periods. 12. Some of the most common methods in developmental research include personal interviews, survey questionnaires, and tests.	
Chapter Review 13 involves computing the means of the measurement scores for each group and then statistically testing for significant differences. 14 compares scores for several measurements to see if there is a relationship.	
Chapter Review 15 combines data from previously published studies on the same research question. 16 designs include true experiments, pre-	

experiments, and quasi-experiments.

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Chapter Review

17. _____ follows an inductive research process and involves the collection and analysis of non-numerical data to search for patterns, themes, and other features.