THEORIES AND GROUP RESEARCH DESIGNS

WEEK 7 SLIDES – SCWK 240



What is Theory?

A systematic set of interrelated statements intended to explain some aspect of social life or enrich our sense of how people conduct and find meaning in their lives

A "theory is what explains why an intervention causes an outcome" (Sherraden, 2000)

Why is Theory Important?

For both practice and research, theory helps us make sense of and see patterns in diverse observations

Theory helps direct our inquiry

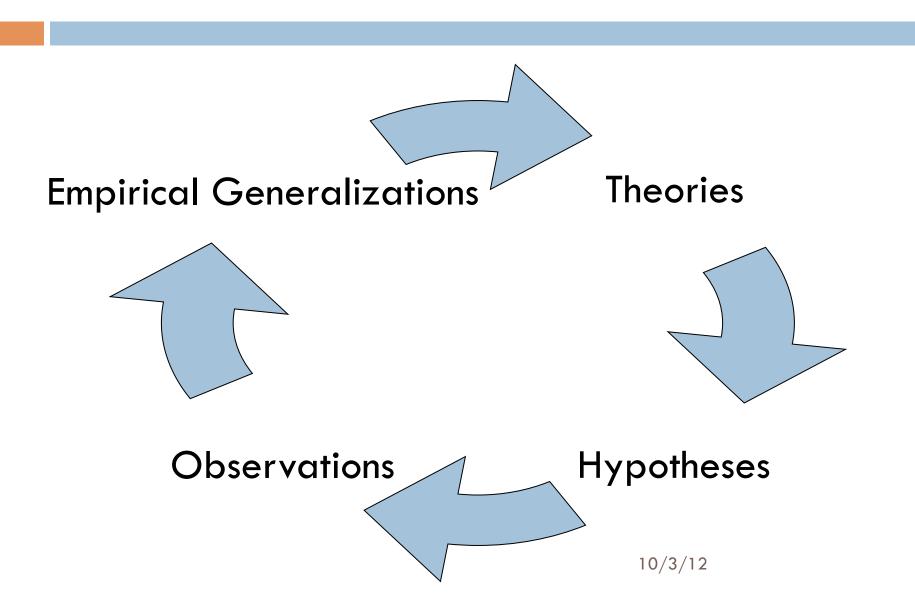
Theory and Practice

- Social work practice based on various theories of human development, human change, social change, community development, organizational change, families, etc.
- Without theory, we would not know why certain therapies/interventions worked, nor what to try.

Theory and Research

- Theory that guides practice guides the research about that practice
- Research is a systematic way of testing the theoretical basis of an intervention or a relationship between variables
- Hypotheses predict what will be observed if the theory is correct
- When observations are consistent with what theory predicts = Empirical support

Relationship of Theories to Research Designs



Common Theories in Social Welfare

- Human development: Piaget' s stage theory, Bandura's social learning theory, Kohlberg's theory of moral reasoning Human behavior: conflict theory, theories of empowerment, social construction, attachment theory, systems theory, social network theory
- Macro theory: theories of community change, social disorganization theory

Three Criteria for Inferring Causality

- 1. Cause precedes the effect in time
- 2. Two variables must be empirically correlated with one another
- 3. The observed empirical relationship cannot be explained away by a third variable that influences the dependent or independent variable (or both)

Key Terms

- Random Assignment: is a method of assigning cases to one group or another, based solely on selection procedures that involve chance and therefore are free from human biases.
- Treatment or Independent Variable: the stimulus, manipulation or intervention that the researcher creates or delivers to one set of participants or clients.
- The Control Group are those who do not receive the treatment or independent variable under study.

Key Terms (Continued)

- Dependent Variable is the outcome or condition that may change as a result of being subjected to or exposed to the treatment or an independent variable.
- Pretest is the measurement of the dependent variable prior to treatment or intervention.
- An Experimental Group are those who receive the treatment or are exposed to the independent variable under study.

Pre-Experimental, Experimental, and Quasi-Experimental Designs

Notations:

X = introduction of stimulus, intervention, or treatment

O = observation/measurement

Pre-Experimental Designs

One shot case study: X O

One group pretest-posttest design: O X O

True Experimental Designs

Essential components

- Random assignment (*Random selection)
- 2) Experimental group and control group
- 3) Compare changes between the groups

Experimental Research

- Usually associated with the natural sciences
- Gold Standard
 - establishment of cause and effect.
 - Difficult to conduct with social work research.
 - Difficult to manipulate the variables of interest e.g. socioeconomic group.
 - Ethical issues usually prevent application is social work.





Experimental Research

- Classic experimental design
 - Randomly allocate subject to either an experimental or control group
 - Pre-test both
 - Experiment performed on the experimental group
 - Post-test on both

Experimental Designs

Pretest-posttest control group design (Classic experimental design) R O X O R O O Posttest only control group design

- R X O
- R O

Quasi-Experimental Research

- Similar to experiments but without random assignment to the groups. Intact groups used.
- Lack of internal validity how can we be sure that x caused y if there was some engineering of the groups?
- Two main types:
 - 1. non-equivalent control group
 - 2. time series designs

Quasi-Experimental Designs

Non-equivalent comparison group design O X O O O

Time-series design 0 0 0 0 0 X 0 0 0 0 0

Time Series Analyses

Useful when you cannot randomize participants and where it is possible to obtain a series of assessments of the dependent variable at pretreatment and post-treatment.

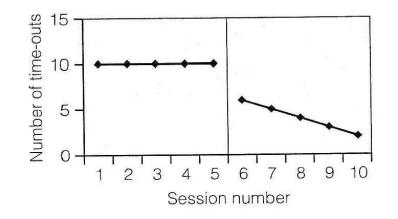
With Single Participants:

- Does the treatment produce the same effect each time?
- Are treatment effects cumulative, or does the participant return to baseline?
- Does the participant's response become less variable over treatment times?

Times-Series Design Patterns

Pattern 2 Pattern 1 Number of time-outs Number of time-outs Session number Session number





10/3/12