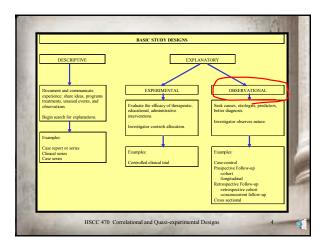


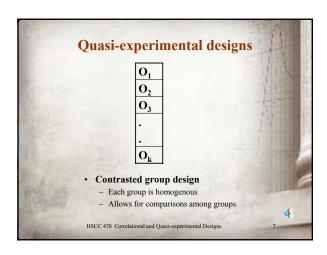
Unit Objectives • Upon completion of this unit, the student will be able to: - List the common characteristics of correlational and quasi-experimental designs. - Describe the structure, advantages and disadvantages of the following research designs: • Correlational (cross-sectional) design • Contrasted group design • Non-equivalent control group design • Time series design • Control-series design

Unit Objectives continued • Describe the structure, advantages and disadvantages of the following pre-experimental designs: • One-shot case study design • One-group pretest-posttest design



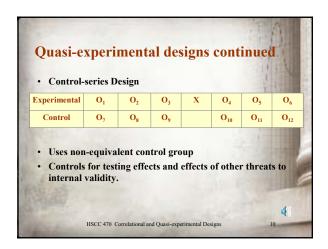
Characteristics of Correlational and Quasi-experimental Designs Used when true experimentation is not possible or is impractical. Weaker on internal validity than experimental designs. No intervention.

Correlational (cross-sectional) Design Property After of interest Yes O₁ No O₂ Typical design of survey research Property (e.g., gender, education, health status) cannot be manipulated as in experimentation With statistical techniques (e.g., cross-tabulation), similar to postest only No control, no causal inference, poor internal validity Use of random samples improves external validity ISCC 470 Correlational and Quasi-experimental Designs



Ouasi-experimental designs continued Non-equivalent control group Pretest Intervention Post-test O1 X O2 O3 O4 Similar to experimental design except for control group Must still compare groups on several variables for equivalency Similar benefits and limitations of experimental design

Quasi-experimental designs continued Time Series Design O1 O2 O3 X O4 O5 O6 No comparison group Group serves as its own control Can separate effects of pretest from effect of independent variable Can determine changes in effect over time



Pre-experimental Designs No control group No randomization Weakest research designs One-shot case study design Single observation of a single group Intervention X O1 One-group pretest-posttest design Intervention O1 X O2 HSCC 470 Correlational and Quasi-experimental Designs