### Mixed Methods Research

#### **Outline**

- Introductions
- A definition of mixed methods research
- Typical situations in which mixed methods is used...
- Reasons for using mixed methods

# Defining Mixed Methods Research

# How would you combine two types of data?

## **Qualitative Text Data**

 This is a sample of a text file of words that might be collected on interview transcripts, observation fieldnotes, or optically-scanned documents.

### **Quantitative Numeric Data**

```
• 2 3 4 2 5 2 3 1 1
234233211
153412314
455412143
351423155
221535131
532251324
431242241
554215
```

### **Definition**

 A mixed methods study involves the collection or analysis of both quantitative and qualitative data in a single study in which the data are collected concurrently or sequentially, are given a priority, and involve the integration of the data at one or more stages in the process of research (Creswell, 2003)

### **Definition unpacked**

- Collects both quantitative and qualitative data
- "Mixes" them
- "Mixes" them at the same time (concurrently) or one after the other (sequentially)
- Emphasizes both equally or unequally

# Collecting both quantitative and qualitative data

#### Quantitative data

- Close-ended scales
- Attitudinal/behavioral scales
- Behavioral checklists
- Census, attendance records

### Qualitative data

- Open-ended responses
- Semi-structured interviews
- Semi-structured observations
- Records/documents
- Videotapes/images

### Quantitative and qualitative data analysis

### Quantitative analysis

- Numeric data
- Descriptive trend analysis
- Hypothesis testing, effect size, interval estimates

### Qualitative analysis

- Text/image data
- Coding/Themes
- Description
- Interrelated themes to build a picture of the phenomenon.

# Typical situations in which mixed methods is used...

- To compare results from quantitative and qualitative research
- To use qualitative research to help explain quantitative findings
- To explore using qualitative research and then to generalize findings to a large population using quantitative research
- To develop an instrument because none are available or useful
- To augment an experiment with qualitative data

### Reasons for using mixed methods

- The insufficient argument either quantitative or qualitative may be insufficient by itself
- Multiple angles argument quantitative and qualitative approaches provide different "pictures"
- The more-evidence-the-better argument combined quantitative and qualitative provides more evidence
- Community of practice argument mixed methods may be the preferred approach within a scholarly community
- Eager-to-learn argument it is the latest methodology
- "Its intuitive" argument it mirrors "real life"