Single Subject Design
N=1

A quantifiable way to examine behavior before and after the introduction of an intervention

- Single Subject Design
- Single System Design
- Single Case Design
- Individuals
- Agencies
- Family
- ENTITES
Basic Characteristics of All SSD

- Focuses on specifying the target problem or goal
- Uses measurement to operationalize the target problem or goal
- Employees baseline and intervention phases
- Time Series Designs
- Data can be analyzed in a variety of ways
- Decisions can be made based on the findings
Benefits of SSD

- Client Centered
- Flexible
- Low Cost
- Focuses on the single unit
- Relatively easy to use and understand
- Non invasive
Steps

• Identify the problem
• Operationalize the problem/target/goal (DV)
• Measure and record the problem/target/goal for established baseline period
• Apply Intervention (IV)
• Measure and record the problem/target/goal for established intervention period
• Analyze and evaluate the findings
Types

- AB
- ABA
- ABAB

Multiple Base Line Designs

- Basic SSD
- Withdrawal Design
- Replication Design

- Across Settings, Individuals, and Behaviors
ABA
ABAB
Multiple Baseline Across Settings
Analysis

• Visual

• T-Test (sig)
  – Baseline=control, Intervention=Experimental

• Effect size
  – (Intervention Mean-Baseline Mean)/Baseline SD

• Proportion Frequency (sig)
  – Compares typical patterns in the baseline to typical patterns in the intervention

• 2 sd approach (sig)
  – Two consecutive intervention observations go beyond the band in the desired direction
Interpretation

• Causality
  – Concomitant variation
  – Desired change
  – Can strengthen argument for causality by employing ABA, ABAB

• Validity
  – Statistical Conclusion Validity
    • Does the IV and DV Covary?
  – Internal Validity
    • Hard to Control for in SSD
  – Construct Validity
    • Is the observation of the problem/target/goal capturing the construct it is suppose to be
Overall

• Good for client empowerment
• Data collection and analysis not too advanced
• Flexible
• Not disruptive to treatment process