**Reliability & Validity**

| **Definitions** | **Example** |
| --- | --- |
| Reliability of effect |  |
| Reliability of measurement |  |
| Procedural reliability |  |
| Internal validity |  |
| External validity |  |
| Social validity |  |
| Ecological validity |  |
| Content validity |  |
| Criterion-related validity |  |

**Threats to Internal Validity in Single-Case Research** (Gast, 2010, pp. 104-107) (Kennedy) (WhatWorksClearingHouse, 2010)

In SCDs, researchers primarily address threats to internal validity by design (structure of the design) and replication of the effect (WWCL, 2010). Researchers can also address these threats through randomization; this is increasing but not yet used widely and no final consensus on how to do this yet.

| **Threat** | **Ways to Address the Threat** |
| --- | --- |
| **History** –  |  |
| **Maturation** – |  |
| **Testing** –  |  |
| **Instrumentation** –  |  |
| **Procedural Infidelity** –  |  |
| **Attrition** –  |  |
| **Multiple-treatment interference** -  |  |
| **Data Instability** –  |  |
| **Cyclical variability** – |  |
| **Adaptation** –  |  |
| **Participant selection bias** –  |  |
| **Hawthorne Effect** –  |  |
| **Statistical regression to the mean** –  |  |