

CHOICES Criteria for Selecting Strategies to Model

✓ A strategy must have strong evidence for impact on health

-  1. We prioritize effect estimates that are from strong designs providing the opportunity for strong causal inference, such as **randomized controlled trials, quasi, or natural experiments** and in some cases, change-in-change longitudinal studies.
 -  1a. We prefer studies that measure these outcomes both **before the intervention starts as well as after** (rather than just after). Because weight change takes time, we prefer studies that use BMI as the outcome to **last at least six months** (e.g. from before and after).
 -  1b. We prefer the presence of **a group in a study that does not receive the intervention** (control group) that can be used as a benchmark to compare to those receiving the intervention.
-  2. We look for effects of strategies on change in:
 - Body mass index (BMI) (or BMI z-score) and if not available:
 - Dietary intake and/or
 - Physical activity
 - Screenshot
-  3. We prefer studies that use **objectively measured outcomes** (like measured weight and height, plate waste, and accelerometers) instead of subjective (like self-reported or parent-reported).

Randomized controlled trial (RCT): A study design in which people are assigned to receive either an intervention or an alternative condition by a random process.¹

Change-in-change longitudinal study: A study design that does not involve manipulations by the investigator but may involve comparisons of exposed and non-exposed individuals.² Changes or differences in the exposure are studied in relation to changes or differences in outcomes.³

Quasi-experiment: A study design in which people are not assigned to conditions by a random process.¹

Natural experiment: A type of quasi-experimental study design in which the intervention or event cannot be manipulated; a naturally occurring event is contrasted with a comparison condition.¹

1. Shadish WR, Cook TD, Campbell DT. *Experimental and quasi-experimental designs for generalized causal inference*. Boston (MA): Houghton Mifflin; 2002.
2. The Community Guide. Glossary. <http://www.thecommunityguide.org/about/glossary.html>
3. The Cochrane Collaboration. Glossary. <http://www.cochrane.org/glossary>

- ✓ A strategy must have:
- Defined activities
 - Potential to be implemented using a process or system
 - Applicability within a real-world setting