Design	Randomization determines	Most useful when	Advantages	Disadvantages
Basic Lottery	o Which treatment the unit receives o Unit keeps treatment status throughout the evaluation o Treatment differential comes from withholding treatment	When program is oversubscribed, when demand exceeds supply     When resources are fixed for evaluation period     When it is acceptable that some people will receive no program assistance (as when a program is being piloted)	Ubiquitous and familiar     Universally understood     Universally accepted as     fair     Easy to implement	Differential attrition—units in the comparison group more likely to drop out (because they get no benefits from continued participation)
Phase in	o The time (in a gradual expansion) at which the unit will start receiving treatment o Unit permanently switches from comparison to treatment when it starts receiving treatment o Treatment differential comes from withholding treatment	When everyone must eventually receive treatment     When resources are growing over time     When treatment is being replicated	Common     Easy to understand     Facilitates continued     cooperation by the     comparison (in     anticipation of     treatment)	Treatment group eventually goes away     Anticipation of treatment may cause participants to change behavior, masking outcome differences     Time over which impact can be measured may be limited (the switch may come before the program has had time to have an effect)     Difficult to estimate long-term impact
Rotation	o The time period (in a cyclical schedule) in which the unit receives the treatment, before the treatment rotates away to other units o Unit switches treatment statuses if the evaluation period is longer than treatment period Treatment differential comes from withholding treatment	When everyone must receive the treatment at some point but there are not enough resources to treat everyone at the same time     When resources are fixed and can only be used one group at a time     When treatment is seen not as beneficial but as a burden to be shared	O Ubiquitous and familiar (same idea as taking turns with duties or timesharing a vacation home) There is always control and a comparison group as long as the cycle continues (and the groups switch replications) so you can keep testing different hypothesis Facilitates continued cooperation by the comparison (in anticipation of treatment)	Anticipation of treatment may cause participants to change behavior, masking outcome differences     Time over which impact can be measured may be limited (the switch may come before the program has had time to have an effect)     Difficult to estimate long-term impact

Design	Randomization determines	Most useful when	Advantages	Disadvantages
Encouragement	Whether the units receives inducement to access the treatment     Unit keeps treatment status throughout the evaluation     Treatment differential comes from higher program take-up among the encouraged	When program is under-subscribed: when it is open to all comers but take-up is not universal (either program is unknown or unpopular)     When no eligible units can be excluded (as with entitlement programs)	o Allows evaluation of programs that cannot exclude or delay treatment to anyone (as when there are enough resources to cover everyone)	Ability to generalize findings to the population of interest depends on who the inducement attracts     If inducement is too attractive it could end up attracting the wrong people, if it's not attractive enough there is not treatment differential
Varying levels of treatment	How much of the treatment an individual or cluster receives	A treatment is divisible	0	0
Two-Stage Randomization	First stage:  o Which clusters receives (which) treatment(s) and which clusters are control  o Unit keeps treatment status throughout the evaluation Second stage o Which individuals within a treated unit receive direct treatment o Which individuals within a treatment village will not be directly treated, but may receive indirect benefits from having treated neighbors	o There are significant spillovers or crossovers within a cluster. o Treating all individuals within a cluster is not feasible o The implementing organization is trying to cut costs	o There are significant spillovers. o It is valuable to learn not just the direct treatment effect, but also indirect effects. o If it is important to varying intensity	0