

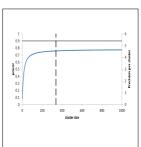
The SW-CRT can be an appealing study design from a logistical perspective

- Provides a phased implementation;
- Can be very helpful when it is not possible to roll-out the intervention to all clusters simultaneously;
- (But, can achieve this using a parallel CRT)

The SW-CRT can have social appeal

- All clusters ultimately receive the intervention;
 - (But not all participants)
- This can help acquire willingness to participate from more clusters.

The SW-CRT can be a more powerful design



- The SW-CRT will provide more power when:
 - The number of clusters is
 - The ICC is large;
 - The cluster size is large.

Reasons to be cautious about using the SW-CRT

- •What if the intervention is inferior to the control condition (will be rolled-out to all clusters):
 - Is the intervention likely to pose any harm?
 - Can the intervention be removed?
- •All regulatory / site approvals need to be in place before the trial can start.
- •Complexity of analysis:
 - Risk of bias if time effects not allowed for in an appropriate way.

Recommendations

- SW-CRT a pragmatic study design which reconciles the need for robust evaluations with political or logistical constraints.
- The design likely provides a much higher level of evidence than a before and after study, or an interrupted time series analysis.
- But, it does have disadvantages and the parallel design should be used where feasible.

Why use the SW-CRT in the PITHIA Trial?

- Because there are only 22 kidney units:
 - It was unlikely that the desired power could be achieved with a parallel CRT.
- Social acceptability desirable:
 - If some clusters refuse to participate in a design which they would not receive the intervention would mean the trial would not be feasible.



Coming soon....

- The CONSORT extension for the SW-CRT
- To be published in 2018