CW-04

Randomized controlled trial in radiology research

15:00-15:20

Chairperson(s): Jeong Min Lee Seoul National University Hospital, Korea

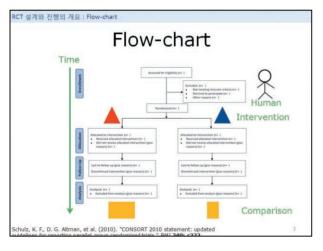
RCT 설계와 진행의 개요

Soyeon Ahn

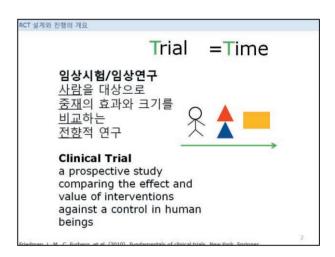
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RCT 설계와 진행의 개요 2012년 10월 19일

2012년 10월 19일 Soyeon Ahn

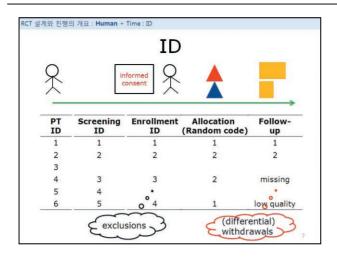






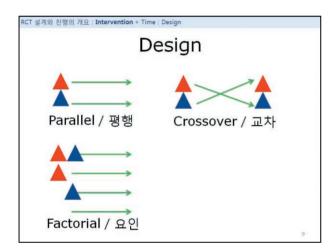




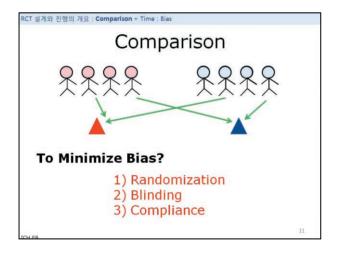


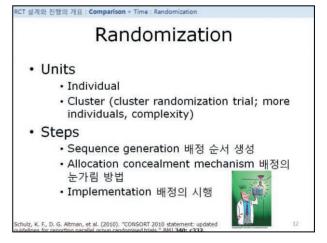


- · Inclusion Criteria
- · Exclusion Criteria
- · Recruitment and Screening
- · Inclusion of Women and Minorities



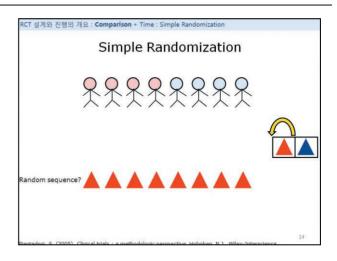
Parallel	Factorial	Cross-over
Most common clinical trial design for confirmatory trials	Varying combinations of the treatments	Bioequivalence of two formulations of the same medication His own control for comparisons
Less complex	∘Interaction (joint effects) ∘Relatively Smaller sample sizes	·Small sample size
	•Add complexity •Adverse effect (poly-pharmacy)	 Carry-over effect (wash-out period; chronic and stable) The loss of subjects

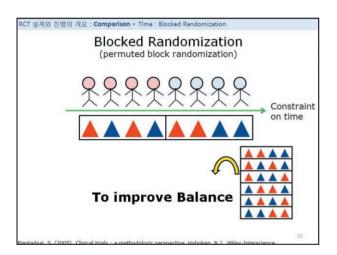


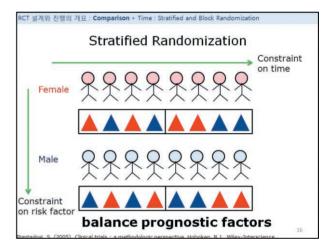


Randomization

- · Fixed Allocation Randomization
 - -Simple
 - Block
 - Stratified
- Adaptive Randomization
- Baseline adaptive randomization
 - Response adaptive randomization







	Healthcare providers		Data collectors	Outcome adjudicators
	physicians	Nurses		
Assignment	X	0	X	X
Outcome measurement	X	X	0	X
Analysis	X	X	×	0

Pre-specification of the Analysis Pre-specification of the Analysis Analysis Sets Full Analysis Set Per Protocol Set Missing Values and Outliers Data Transformation Estimation, Confidence Intervals and Hypothesis Testing Adjustment of Significance and Confidence Levels Subgroups, Interactions and Covariates

RCT 설계와 진행의 개요 : Others

- Efficacy versus Effectiveness trials
- Superiority versus equivalence trials
- \bullet Phase I, II, III, and IV trials
- Bias and Precision

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