

CONTRASTS AND EFFECT SIZE

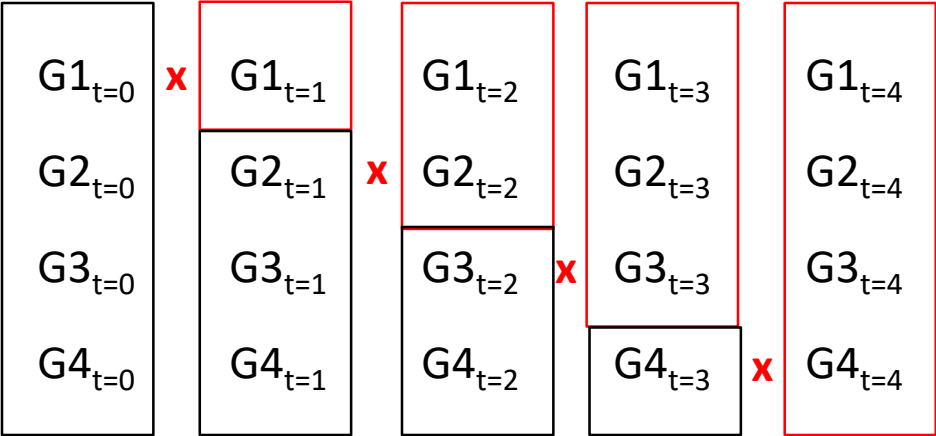
*Lecy * CPP 524*

CASE STUDY FROM READINGS

Bingham, R., & Felbinger, C. (2002). Evaluation in practice: A methodological approach. CQ Press.

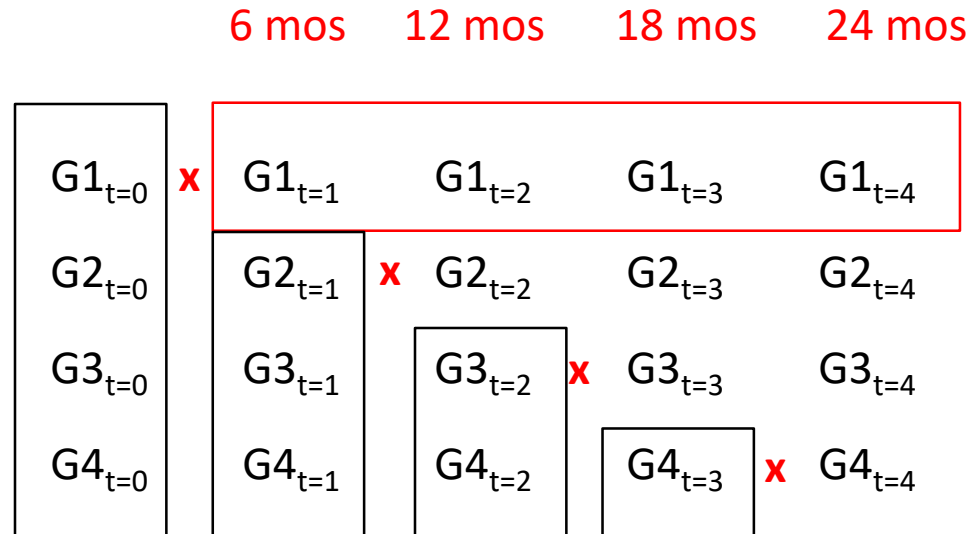
CH-05: Improving Cognitive Ability in Chronically Deprived Children [[pdf](#)]

Treatment Groups



Control Groups

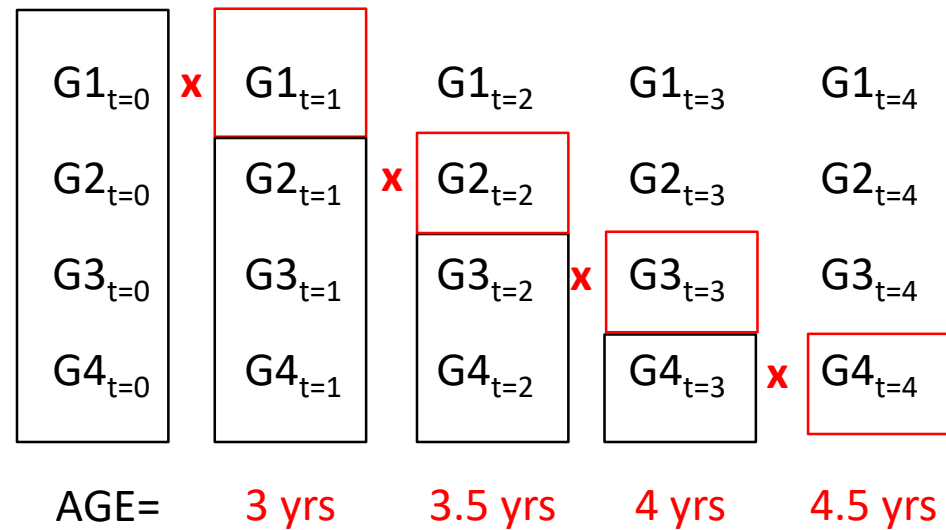
TREATMENT DOSAGE (PROGRAM DURATION)



Control Groups – no treatment

TREATMENT DOSAGE (PROGRAM DURATION)

6 months vs 0 months
but conditioned on
AGE children start the program



Control Groups – no treatment

TREATMENT DOSAGE (PROGRAM DURATION)

G1 = 12 months
G2 = 6 months

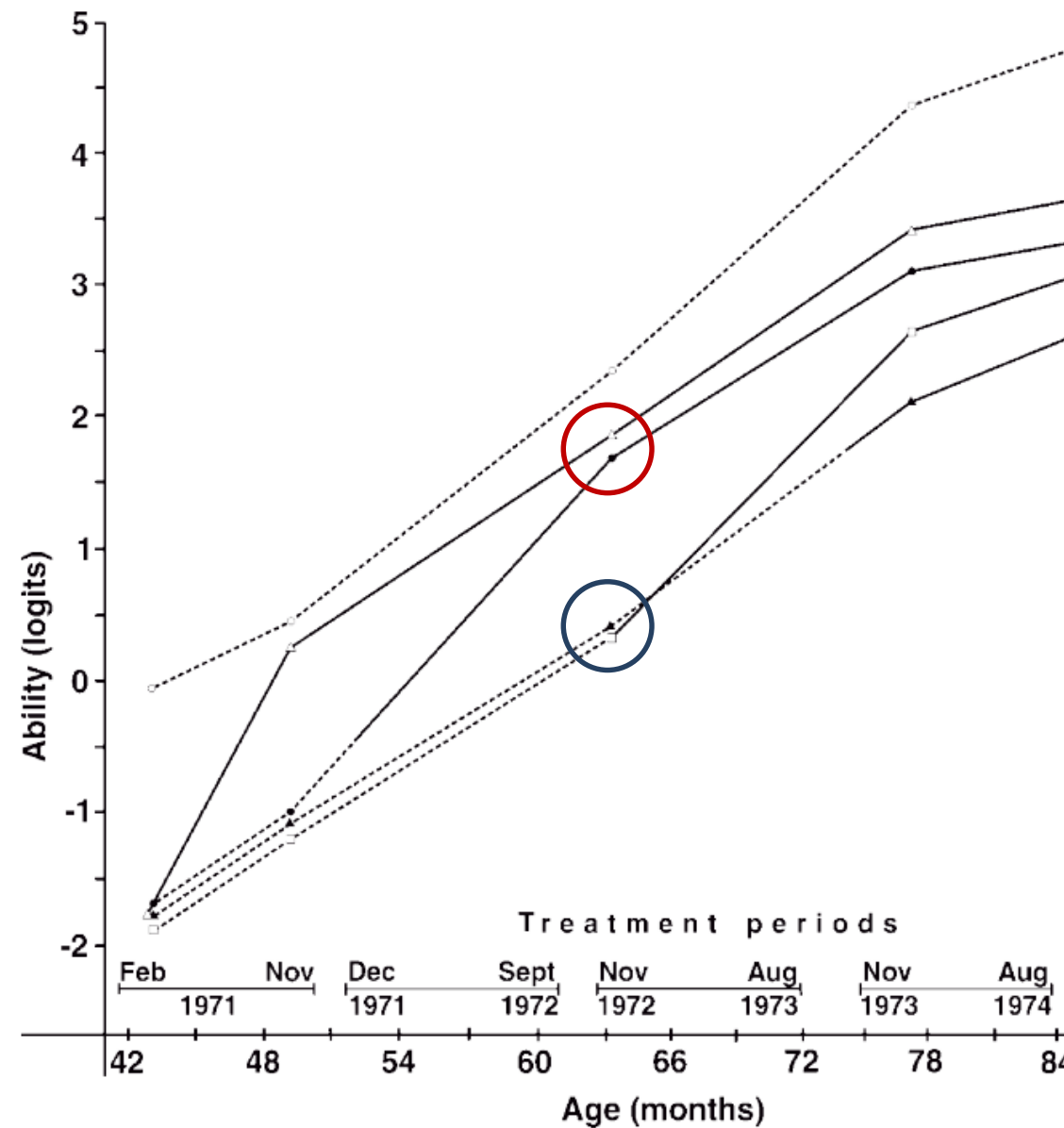


Pooled G1+G2 would
represent outcome after
9 months of treatment

*Might pool data to
increase statistical
power*

$G1_{t=0}$	\times	$G1_{t=1}$	$G1_{t=2}$
$G2_{t=0}$		$G2_{t=1}$	\times $G2_{t=2}$
$G3_{t=0}$		$G3_{t=1}$	$G3_{t=2}$ \times
$G4_{t=0}$		$G4_{t=1}$	$G4_{t=2}$

Control Group – no treatment



Treatment Group

Control Group

$G1_{t=0}$	\times	$G1_{t=1}$	$G1_{t=2}$	$G1_{t=3}$	$G1_{t=4}$
$G2_{t=0}$	$G2_{t=1}$	\times	$G2_{t=2}$	$G2_{t=3}$	$G2_{t=4}$
$G3_{t=0}$	$G3_{t=1}$	$G3_{t=2}$	\times	$G3_{t=3}$	$G3_{t=4}$
$G4_{t=0}$	$G4_{t=1}$	$G4_{t=2}$	$G4_{t=3}$	\times	$G4_{t=4}$

Specific tests: treatment gains for late treatment?

DISCUSSION QUESTIONS:

1. Is this an RCT? Do we have an identical “control group”?
2. What role does the high SES group perform?
3. Why do we have four treatment groups?
4. What outcome is measured here? Is it valid and reliable?
5. How would I test whether two treatment periods has the same impact as three periods, but is more cost-effective?
6. Can you identify a weakness in the design or a threat to validity?