

this experimental design;
time: basic probability

read: 3D
(0) ch. 9-10

AM57
29 Jun
2016

next probability models
time: for sums & means

LN pp. ② 119-138 ①

homework 2 due
Tue 5 Jul

mid term handed out Tue 5 Jul,
due Mon 11 Jul

5 Jul

today: LN pp. ② 82 →

(9.56)

(cross-sectional)
completely
unobiterated
design (CRD)

valid

(cross-sectional)
matched-
pairs design (MPD)

valid, likely
more accurate
than CRD

(longitudinal)
repeated-
measures design

valid, likely
even
more accurate than MPD

Y (outcome) : (sib.p.)

supposedly causal
X (SCF) factor
treatment

pill use vs. high use
(T) (C)

Z (PCF): age ↑ sib.p ↑
age ↑ pill use ↓

Q:
how defect
PCF of age
at analysis
time?

control for

A: hold it
constant

(1)
2
(3)

at random → [Y.]

$$P(Y_i = odd) = \frac{2}{3}$$

ELM? yes

ELM? yes
(genetics)

$$P(\text{no mal}) = \frac{1}{4}$$

$$P(\text{carrier}) = \frac{2}{4} = \frac{1}{2}$$

$$P(T-S) = \frac{1}{4} = 25\%$$

③