

# SMIII lectures

Week 10

# Leprosy

- ▶ Randomised trial
- ▶ Assess the effects of two drugs in treating leprosy.
- ▶  $n = 30$  patients.
- ▶ Randomly allocated either drug A, drug D or control.
- ▶ Response variable  $Y$  is a score representing the abundance of the leprosy bacilli over six sites on the body.
- ▶ Covariate,  $X$ , is the same score as  $Y$  recorded prior to randomisation.

# FEV

FEV (forced expiratory volume) is an index of pulmonary function that measures the volume of air expelled after one second of constant effort.

The data contains

- ▶  $n = 654$  children
- ▶ aged 6-22
- ▶ from Childhood Respiratory Disease Study (1980 Boston, Massachusetts)
- ▶ two of the **predictor** variables recorded were Smoking Status and Age