8.2.4 Model 4: One-way ANOVA model

If there is no linear relationship between X and Y but there are treatment effects, then

$$y_{ij} = \mu + \tau_i + \varepsilon_{ij}$$
y
treatment 1
treatment 3
treatment 2
X 8.3 Hypothesis Tests
Tests that can be done are:
1. Tests of homogeneity-of-slope (part crism) C. Model 2 vs. Model 1
2. Tests of difference sin active of treatment means 1 w. Model 2 vs. Model 1
2. Tests of difference sin active of treatment means 1 w. Model 2 vs. Model 2
3. Tests of linear relationship between the recoonse variable and the covariate.
i.e. Wodel 4 vs. Model 2
8.4 SPSS Procedure

The data in SPSS are as follows:

х



number of days with cold symptoms in the first year

The scatter plot indicates a linear relationship between the number of days with cold symptoms in the second and first year.