# Using R for my Research - modern uses: Markdown and Shiny app: Practicals

#### **Elrozy Andrinopoulou**

Department of Biostatistics, Erasmus University Medical Center

e.andrinopoulou@erasmusmc.nl

Using R for my Research - modern uses: Markdown and Shiny app

## **Practical 1**

## Practical 1.1



- Using the Cancer.sav dataset, create a function "uniRegr" that
  - b takes a data.frame and a vector with the names of the independent covariates as
    c("", "", "", ...)
  - performs univariable regression analysis of the outcome: "WEIGHIN" and each covariate (hint: use as.formula() and paste())
  - > returns the estimate, std error and the p-values as a data.frame
- Using the Cancer.sav dataset, perform univariable regression analysis using the covariates "AGE", "STAGE" and "TRT"
- Save the results as "results\_regr"

## Practical 1.2 -extra



- Using the Cancer.sav dataset, create a function "uniLogRegr" that
  - b takes a data.frame and a vector with the names of the independent covariates as
    c("", "", "", ...)
  - performs univariable logistic regression analysis of the outcome: "TRT" and each covariate (hint: use as.formula() and paste())
  - > returns the estimate, std error and the p-values as a data.frame
- Using the Cancer.sav dataset, perform univariable logistic regression analysis using the covariates "AGE", "STAGE" and "WEIGHIN"
- Save the results as "results\_log\_regr"