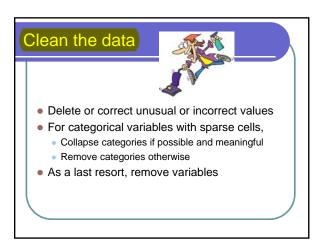
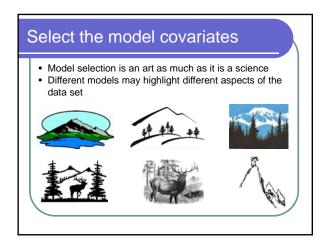
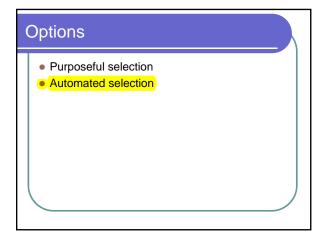


Cross-tabulate categorical variables
 Calculate descriptive statistics for continuous variables (separately for each outcome level)
 Locate unusual or incorrect values







## Important question

• Example:

- How many variables can be included in a logistic regression model?
- Rough guide:
   No more variables than the "least frequent outcome" divided by 10
- n=200, 50 died and 150 lived

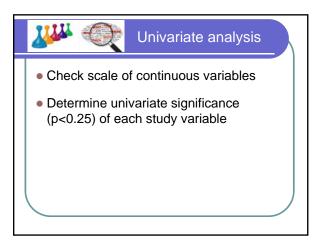
  → number of model covariates ≤ 50/10=5 (roughly)

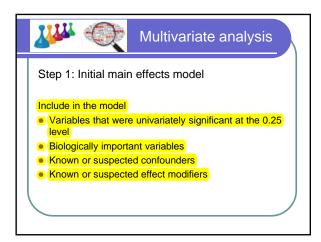
## Purposeful model selection... CAUTION The suggestions on the following slides are just examples of purposeful model selection; many other approaches are possible

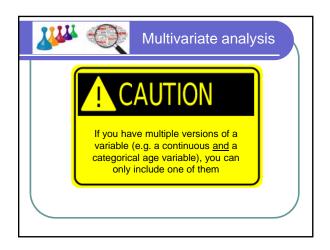
Potential goal 1: To get the most complete "picture" of the risk factors for the outcome

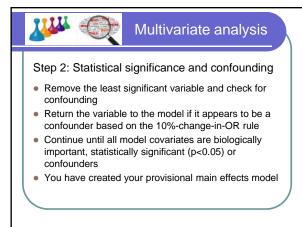


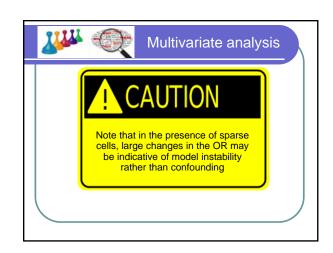
 Statistically significant variables, confounders and effect modifiers should be included in the model

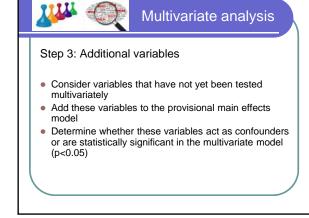


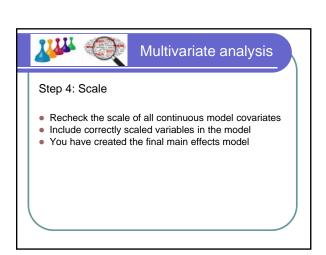


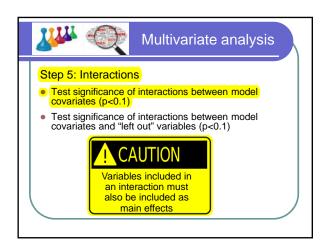


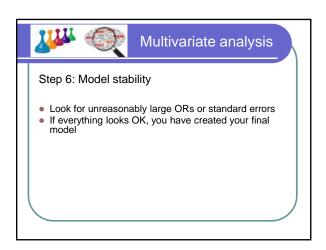






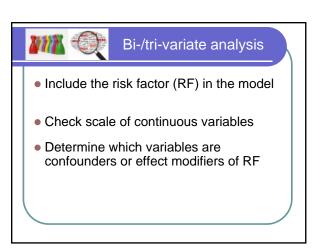






Potential goal 2: To get the most complete "picture" about one specific risk factor

 The risk factor and confounders and effect modifiers of the risk factor should be included in the model



Step 1: Initial model
Include in the model

RF
Confounders of RF detected in the bivariate analyses
Effect modifiers of RF detected in the trivariate analyses (include each effect modifier as a main effect and as part of the interaction term)

