Key Points in / Commentary on ARL Ch 1

Additional items

  • Maximum Likelihood estimation

  - the principle

  - examples: 2 mini & the CHD dataset in Chapter 1

  • Fitting logistic regression models

  - in SAS, via GENMOD (generalized) & LOGISTIC (specific)

  - in Stata, via glm (generalized) & logistic (specific)

Readings (* = most relevant)

* Chapter 1 of Hosmer and Lemeshow
  `[2nd ed. of textbook; 1st edition OK too]`

* *Introduction to the Logistic Regression Model*
  [notes and commentary by JH,
    under `http://www.epi.mcgill.ca/hanley/c681/alr_1`]

Other Resources

<u>texts</u>

  Kleinbaum, DG, Klein M, Pryor ER (2002) Logistic Regression: A Self-Learning Text, Second Edition, Springer. ['good diagrams and summaries; assumes almost no familiarity with 'regular' regression]

  Collett D. Modelling Binary Data (2003), Second edition, Chapman and Hall/CRC

<u>book chapters</u>

  Moore and McCabe (Ch 15 in 4th edition)

  Armitage et al.

  Rothman & Greenland (1998)

<u>articles</u>

  Brand & Keirse: pair of very good expository articles (from Pediatric and Perinatal Epidemiology 1990; 4: 22-38) on logistic regression [available on course 678 website, Resources/ Material for sessions 9-11]