

NOTES FOR EXERCISES IN SESSION 9

- 9:39,36,38,48,50,52; x:16; 9:40,44,20 (8:67,103; 9:62)

Outline of lab session:

- lecture catch-up: Simpson's paradox, McNemar's test and Fisher's exact test (9L-4/15/16 and 8L-5),
- Minitab software hints for 2-way tables¹: use menu
* Stat-Tables-Cross Tabulation and Chi Square,
- individual work on the exercises.

Notes and questions for specific exercises:

- Don't forget the models and the conclusions! (2-way table analysis is more than computing the X^2 -statistic!)
- 8.103: an extra sample size problem, with a formula for two independent proportions.
- 9.20: try Fisher's exact test (using software), and compare with the X^2 -test,
- 9.36, 9.38: forget about the graphical displays,
- 9.44: on Simpson's paradox (might be fun!),
- 9.20, 9.62: solutions contain discussion of IPS definition of response and explanatory variables. . . ,
- x.16: practice of model choice in 2-way tables.

¹ Stata: Stat-Summaries-Frequency Tables-Twoway table/Table calculator;
R functions: `xtabs`, `chisq.test`, `fisher.test`.