

## LAB SESSION 6

### Outline of lab session:

- follow-up from lecture: 2 independent samples (6L–15/16),
- Minitab demonstrations:<sup>1</sup>
  - \* from different menus within **Stat-Basic Statistics** menu,
  - \* also useful: **Graph-Probability Distribution Plot** menu,
- individual work on the exercises:  
7:1,4,73,74,64,143,145,40,91,102,103,104,132 (6:108,142; 7:58,59,66,93; AI:6) — note suggested (non-random!) order,
- maybe also some exercises from 5P, e.g. 6:33,87,140,70,68; x:13,
- practice also the layout of the statistical analysis (e.g., 6L–2),
- use of software: recommended for all Chapter 7 data exercises.
- summary worksheets (for Monday's lab review): S.7:1(a,b,c); S.8:8.

### Notes and questions for specific exercises:

- 6.108, 6.142: extras on basics of testing,
- 7.73, 7.74: you may also analyse manually (first), using formulas and calculator, but repeat using software,
- 7.102, 7.103, 7.104: you may do 7.58 and 7.59 first, if helpful as a review of 1-sample inference,
- 7.132: critique the quoted description of the analysis,
- 7.145: note that after log-transformation, the backtransformed estimate and CI are for the median, not the mean (6L–9).

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<sup>1</sup> Stata: `ci` and `ttest` commands, or **Statistics-Summaries...-Summary...** or **-Classical tests...** menus; R: `t.test` and `prop.test` functions — more details in solution program files.