

BIOSTATISTICS

(www.vfu.cz/statistics)

Syllabus – Practical Work

1. Introduction to Biostatistics.
2. Descriptive statistics – basic calculations in MS Excel: arithmetic mean, median, variance, standard deviation, coefficient of variability, SEM (examples).
3. Statistical testing: Tests for Variance hypotheses (F-test). Examples.
4. Revision practice: Descriptive characteristics, Tests for variance hypotheses. Examples.
5. Parametric tests (Student's t -test, F-test) – formulae in MS Excel. Examples.
6. MS Excel - Data files processing: F-test, Student's t -test. Graphical presentation of data.
7. Parametric tests in MS Excel (functions for F-test, t -test) – practical examples.
8. MS Excel – Statistical data files processing: basic statistic parameters, F-test, Student's t -test. Individual practice (Model examples I).
9. MS Excel – Statistical data files processing: correlation and regression analysis. Model examples.
10. Model situations in veterinary medicine: F-test, t -test - individual practice (Model examples II – MS Excel).
11. Final revision practice: Evaluation of experimental data (Example – MS Excel)
12. Individual credit task.
13. Credit.

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