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BIOINFORMATICS LABORATORY
DATA ANALYTICS RESEARCH CENTER

10 statistical mistakes in medical papers

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23 May 2018 – h. 11.00

Lecture Hall "Aula R" (Bldg. H , Level 1)

In conducting and reporting of medical research, there are some common pitfalls in using statistical methodology, which may result in invalid inferences being made. The lecture will discuss 10 typical situations of incorrect use of statistical methods in medical articles. Comments on good practices to avoid these mistakes will be discussed.

SHORT BIO

Audrone Jakaitiene is professor and senior researcher at Vilnius university. She defended her PhD thesis in physical sciences (Informatics 09P) in 2001. Title of the thesis "The Algorithms of Competing Risk Regression Models", in which competing risks were forecasted using regression models and neural networks. Later A. Jakaitiene worked in Lithuanian and EU institutions developing her modelling skills in social, physical and biomedical sciences. As of 2005, her research paper topics could be split in three fields: 1. modeling and forecasting of Lithuanian, European Union and global economic indicators; 2. analysis of biomedical data, with special interest to modeling of large-scale genetic data; 3. educational data research covering international databases and an integrated analysis of Lithuanian data. In 2005-2016, she published 40 scientific papers (15 in Clarivate Analytics Web Of Science, H-index 4), participated in more than 30 conferences. From 2011 she is head of Bioinformatics and Biostatistics center at Human and Medical Genetics Department, Medical Faculty, Vilnius university.