Einladung zum

Biometrischen Kolloquium

am Dienstag, den 22. Juni 2010 um 10:30 Uhr (s.t.)

in der Informatikbibliothek (Ebene 3, Raum 88.03.806) der
Besonderen Einrichtung für Medizinische Statistik und Informatik
(MSI) der Medizinischen Universität Wien
Spitalgasse 23, 1090 Wien

Vortragender:

Bernhard Klingenberg

Department of Mathematics and Statistics,
Williams College, MA, USA

Simultaneous confidence bounds in multiple comparisons to control

Wir freuen uns auf zahlreichen Besuch.

Georg Heinze	Martin Posch
Präsident	Sekretär

Simultaneous confidence bounds in multiple comparisons to control

Bernhard Klingenberg
Department of Mathematics and Statistics
Williams College, MA, USA
http://lanfiles.williams.edu/~bklingen/

We discuss the construction of asymptotic simultaneous one-sided confidence bounds for risk differences or risk ratios arising from comparing several treatments to a common control by inverting the maximum (minimum) of score statistics. With a few exceptions, these bounds perform better in terms of simultaneous coverage probability than procedures based on adjusted Wald methods (e.g., the add 4 rule), especially over relevant parts of the parameter space in superiority or inferiority studies. A further improvement is realized by using an appropriate multiplicity adjusted critical value that takes advantage of the correlation information in the score statistics estimated under the null. R implementations of all procedures are presented using data from clinical trials and vaccine studies.