

**Wiener Biometrische Sektion  
der Internationalen Biometrischen Gesellschaft  
Region Österreich – Schweiz**  
<http://www.meduniwien.ac.at/wbs/>

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Einladung zum

**BIOMETRISCHEN KOLLOQUIUM**

am **Mittwoch, 29. Oktober 2014** um **16:30 Uhr**

im Schulungsraum des Zentrums für Medizinische Statistik, Informatik und  
Intelligente Systeme (CeMSIIS) der Medizinischen Universität Wien,  
Spitalgasse 23, 1090 Wien  
(Plan siehe <http://www.muw.ac.at/cemsiis/allgemeines/anschrift/>)

Vortragender:

**BERNHARD KLINGENBERG**

Williams College, Williamstown, Massachusetts

**A NEW AND IMPROVED CONFIDENCE INTERVAL FOR THE  
MANTEL-HAENSZEL RISK DIFFERENCES**

Wir freuen uns auf zahlreichen Besuch.

Franz König  
Präsident

Stephan Lehr  
Sekretär

# BERNHARD KLINGENBERG

## A NEW AND IMPROVED CONFIDENCE INTERVAL FOR THE MANTEL-HAENSZEL RISK DIFFERENCES

### **Abstract:**

By writing the variance of the Mantel-Haenszel estimator under the null of homogeneity we arrive at an improved confidence interval for the common risk difference in stratified 2x2 tables. This interval outperforms a variety of other intervals currently recommended in the literature and implemented in software. We also discuss a score-type confidence interval that allows to incorporate strata/study weights. Both of these intervals work very well under many scenarios common in stratified trials or in a meta analysis, including situations with a mixture of both small and large strata sample sizes, unbalanced treatment allocation or rare events. The new interval has the advantage that it is available in closed form with a simple formula.