

CCSU  
DEPARTMENT OF MATHEMATICAL SCIENCES  
COLLOQUIUM

Friday, October 5  
3:00 – 4:00 PM  
Maria Sanford, Room 101

**DID YOU MEAN  
PROBABILITY OR ODDS?**

**GURBAKHSHASH SINGH**

**CENTRAL CONNECTICUT STATE UNIVERSITY**

**Abstract:** Recent articles have raised concern about certain inaccurate uses and interpretations of odds as a probability. This talk will start with an introduction to probability and odds and then bridge to generalized linear models for the estimation of odds and probabilities. The use and interpretation of odds ratios from logistic regression and relative risk from log-binomial regression will be discussed. Similar concerns have been raised about the interpretation of odds ratios as relative risks in Epidemiology and Biostatistics. The hope is to raise awareness of such issues in this talk.

This talk is for an audience with an introductory understanding of probability and linear regression models.

**For further information:**  
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