

Yale SCHOOL OF PUBLIC HEALTH

Biostatistics

Presentation

" Iso-chi-square Based Analysis of SNP Data "

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ABSTRACT

In the absence of prior information, three models resulting in three tests are often employed in the analysis of case-control based SNP data. A new proposal involving a single test will be presented. This test automatically yields the best fitting model for a given data set. Since the test yields a single p-value, the procedure will also address the multiple testing issue associated with the three tests. The concept rests on bringing together order preserving scores and score-free methods together in the analyses of ordered categorical data through the Iso-chi-square testing in $2 \times K$ ordered tables.

Personal Bio:

Dr. Shiva Gautam has served at different university as a biostatistics faculty including University of Florida, Harvard University and Vanderbilt University. Dr. Gautam served as the biostatistics director of Harvard-Thorndike GCRC (precursor to CTSC) at Beth Israel Deaconess Medical Center (a teaching hospital of Harvard Medical School) and later as an Associate Director of the pan-Harvard CTSC. At BIDMC, he also serves as the statistical consultant to the IRB. At Vanderbilt he also served as Biostatistics faculty at the Vanderbilt-Ingram Cancer center. During his tenure at different institutions, Dr. Gautam was engaged in teaching/training of medical students, residents, fellows, and new investigators in research design and other critical biostatistical aspects of research. Dr. Gautam has also engaged and still contributing to international public health area and education in general. He also writes poems, stories, and essays. His interest in literature has so far produced three books of poems and one collection of essays.

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