

# PUBLIC HEALTH & PREVENTIVE MEDICINE

## SPECIAL GRAND ROUNDS

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**12 PM-1 PM**

**CSB679**

### **Calibration of Obesity**

#### **ABSTRACT**

National Health and Nutrition Examination Survey (NHANES III) collected data about the health and nutritional status of the sampled persons of the U.S. population. The data included about 3,000 variables including body mass information (BMI) from about 20,000 sample persons. However, about 30 percent of the sampled people did not respond and the selection probabilities were varied among the different races and areas. We use the Bayesian model to remedy the varying selection probabilities and to obtain the BMI information of nonrespondents and not-sampled people. Using the BMI information of the entire population, we analyzed and calibrated the BMI scores from the several representative US counties. We observed that the BMI scores of youths and adults were very different. We think that the BMI scores of the youth should be differently calibrated from those of the adults.

*Food and beverages will be provided.*