

Workshop on Statistical Modelling using Health Data



**SWAMI RAMA
HIMALAYAN
UNIVERSITY**

ABOUT THE UNIVERSITY

Swami Rama Himalayan University is glad to announce the “Workshop Series” for the academic year 2017-18. This is specially targeted to researchers in clinical and public health care and health programme managers. This series aims to enhance the capacity and skills of health professionals, in quantitative and qualitative research techniques, management tools for effective programme management and advocacy. Highly qualified and competent multi-disciplinary group of faculty. The workshop will follow principles of adult learning, using techniques like interactive lectures, group discussions, and practical exercises using relevant software, evaluation exercises, field visits and presentation by participants. These workshops are ideal for physicians, medical students, clinical researchers, project managers, NGO coordinators, nutritionists, data managers, pharmaceutical scientists, statisticians and programme managers working at district, state and national level.

ABOUT THE WORKSHOP

Statistical models are essential to assess the relationship between a response variable and a number of explanatory variables. This workshop will discuss briefly the theoretical framework of generalized linear models and introduction to statistical modelling, especially to time series analysis. Purposes of a statistical model are Predictions, Extraction of information, and Description of stochastic structures. We will discuss proper statistical analysis of the health data emanating from methods based on normal distribution, transformation of data, single-distribution generalized linear models, parametric models, mixtures of parametric distributions, survival methods, non-parametric methods, truncation or trimming of data, data components models, averaging across models, and Markov chain methods.

ABOUT THE DEPARTMENT

The Biostatistics department was created primarily to teach and provide statistical consultation for the medical faculty and other components of the health sciences departments. The department has become a prominent place in the newly emerging field of biostatistics, adopting rigorous academic standards and producing landmark papers, carrying out research studies, and training programs.

The mission of the Department of Biostatistics is to develop, disseminate and apply Biostatistical and analytical methods for research in the health sciences, encompassing both research design and analysis. We strive to advance knowledge in biostatistics and health through educational programs for students and researchers, and we provide leadership and outstanding scholarship in research, teaching, and service in fulfillment of this mission.

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