7th International Conference on

BIOSTATISTICS AND BIOINFORMATICS

&

7th International Conference on

BIG DATA ANALYTICS & DATA MINING

September 26-27, 2018 | Chicago, USA

Better monitoring of diabetic levels using new control charts

Gadde Srinivasa Rao[1], Muhammad Aslam[2] and **Nasrullah Khan[3]**
[1]The University of Dodoma, Tanzania
[2]King Abdul Aziz University, Saudi Arabia
[3]UVAS Sub Campus Jhang, Pakistan

The diabetes monitoring is very important to maintain the diabetic levels in control. The Shewhart control chart has been widely used in the healthcare department for the monitoring of sugar levels. In this paper, we will present a more efficient way to monitor diabetic level in diabetes patients. The structure of control is presented using repetitive sampling. The efficiency of the proposed chart in detecting a shift in diabetic level is compared with the existing chart. It is found that the proposed chart provides a strict way to monitor the diabetic levels in diabetes patients. So, the application of the proposed chart is shown using simulation study and real data collected from diabetes patient. It can be concluded that the use of the proposed chart in health care issue may reduce the risk of heart disease by monitoring diabetic levels in an effective way.

Biography

Gadde Srinivasa Rao received his MSc in Statistics (1988), MPhil.in Statistics (1994) and PhD in Statistics (2002) from the Acharya Nagarjuna University, Guntur, India. He is presently working as Professor of Statistics at the Department of Statistics, The University of Dodoma, Tanzania. He boasts more than 90 publications in different peer-reviewed journals in national and international well reputed journals including for example, Journal of Applied Statistics, International Journal of Advanced Manufacturer Technology, Communications in Statistics-Theory and methods, Communications in Statistics-Simulation and Computation, Journal of Testing and Evaluation, Arabian Journal for Science and Engineering, International Journal of Quality & Reliability Management, Economic Quality Control and Journal of Statistical Computation and Simulation. He is the reviewer for various reputed international journals. His research interests include statistical inference, statistical process control, applied Statistics, acceptance sampling plans and reliability estimation.

gaddesrao@gmail.com

Notes: