

Extremely Small and Large Scale: New Trends for Studies in Medical and Health Sciences

Viroj Wiwanitkit

Honorary professor, Dr DY Patil University, Pune, India; visiting professor, Faculty of Medicine, University of Nis, Serbia; visiting professor, Hainan Medical University, China; adjunct professor, Joseph Ayobabalola University, Nigeria

***Corresponding Author:** Viroj Wiwanitkit, Honorary professor, Dr DY Patil University, Pune, India; visiting professor, Faculty of Medicine, University of Nis, Serbia; visiting professor, Hainan Medical University, China; adjunct professor, Joseph Ayobabalola University, Nigeria

ABSTRACT

With the advancement at present, the paradigm shift occur in researches in medical and health sciences, the shift to the extremely small and large scale is very interesting phenomenon. In this short article, the authors discusses on the new approaches and studies in medical and health sciences based on extremely small and large scale concepts.

INTRODUCTION

With the advancement at present, the paradigm shift occur in researches in medical and health sciences, the shift to the extremely small and large scale is very interesting phenomenon. In this short article, the authors discusses on the new approaches and studies in medical and health sciences based on extremely small and large scale concepts.

Nanoscience to Picoscience: Extremely Small Scale Concept [1]

The shift to the small scale becomes the new updated approach in the present day. For a few years, the new science namely nanoscience which deals with the objects at nanoscale (10^{-9} meter) was introduced and becomes the present new trend in medical and health reaches. At the extremely small level, the new properties of an object comparing to its normal scale occurs and this is the basic concept for application of nanoscience in the present day. For medicine, the specific new subject known as nanomedicine becomes the new medical science. It helps deal with diagnosis, treatment and prevention of diseases. Many difficult-to-deal medical disorders such as cancers are presented studied for the new managements based on nanomedicine. In addition to nanoscience, the continuum to the newer approach on picolevel

has already mentioned for a few years. In picomedicine, smaller than nanomedicine, a more useful application for management of diseases can be expected. This becomes an actual new thing of studies and development in biological and medical science as well as engineering.

Gigascience and Big Data: Extremely Large Scale Concept

On the other hand the shift to the extremely large scale also the opposite concept to the turn to the extremely small thing. The use of gigascience approach and big data are the interesting issue in medical and health science at present. It is no doubt that with very big scale of data, the reliability of the data can be guaranteed. In fact, consensus of the whole population is the most reliable statistical sampling technique. The Big data becomes the new concept [2 - 3] and the collaboration among practitioners to achieve the very big data collection is the interesting challenge. This is not only the way to increase the scientific merit of the study but the way to promote friendship and good collaboration among the practitioners.

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