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The high dilution effects

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One of the fundamental principles of pharmacology is the dose response. The higher is the dose the stronger or more intense is the effect. If the dose is very low there would be no beneficial effect. Again, if the dose is very high there would be toxic effect. Many drugs at high doses are toxic; even therapeutic doses of many drugs have side reactions. Thus in order to minimize or eliminate toxicity or side reactions, drugs should be used at a very low dose or at an extremely high dilution. But how to retain efficacy of drugs at a high dilution? We know that in Homeopathy drugs have been used at extremely high dilutions, dilution that very often cross the Avogadro number. There are at present large bodies of reliable evidences that show that these drugs at ultra high dilutions are effective.

Our present day concept of pharmacology is restricted to the interaction between drug molecules and biomolecules. Any interaction beyond molecules and that too with the specificity of the molecules is considered a myth in the arena of science. Since high dilutions of drugs, which cross the Avogadro number, do not contain drug molecules, they are not supposed to cause any action on a biological system. But high dilution effects have become the common experience of homeopathic physicians and their millions of patients all over the world. Besides clinical evidences, there is now a large body of experimental evidences which confirm that drug action beyond molecules on an organism is a reality. A drug leaves something, a memorable entity, in its high dilution. What is the physical feature of this entity? How do the entities of different drugs differ from each other? How do they act on an organism? Do they always need a living system for producing an action or behave just as a chemical reacting with another chemical. These are the few basic

questions need to be addressed to explain this high dilution therapeutic effects scientifically.

Drugs at ultra high dilution have been used in the novel therapeutic system known as Homeopathy for about a couple of centuries. The system declined in the middle of the 20th century because of keen competition from the conventional medicine. It has regained its past glory to some extent during the past three decades mainly because its drugs are effective, relatively inexpensive, and non-invasive with respect to drug delivery and have little undesirable side reactions. Unraveling the mysteries of this important therapeutic system offers a challenge not only to biologists but also to physicists and chemists as well. Although the business potential of homeopathic medicines is not as much lucrative at present as the conventional medicine, scientific research on homeopathy would certainly open up new avenues to the ultimate benefit and welfare of the mankind.

There are millions of millions clinical evidences across the world obtained in support of the high dilution effects on human patients. There are evidences recorded from the laboratory experiments using animal and plant models. Experimental evidences from *in vitro* and *ex vivo* tests have also been performed. There is a vast scope of research on the physical characteristics of drugs at ultra high dilutions as evidenced by nuclear magnetic resonance (NMR) spectra, infrared (IR) spectra, electronic spectra and fluorescence spectra of the potentized drugs. Water is thought to carry the information of drug molecules or particles at high dilutions, the structure and dynamics of liquid water as the medium of homeopathic potencies is another area where scientists are focusing into.

The possible mechanism of action of homeopathic dilution in the living system is another challenge in terms of interaction between structured water molecules of potency and its primary bimolecular target in an organism. The association of water structure with the primordial life forms during the emergence of life on this planet is an interesting topic correlating the aqueous ethanol preparation of a homeopathic dilution.

An emerging field in the high dilution effects is Agro-homeopathy where plants/crops being treated with homeopathic dilutions. Since all homeopathic dilutions are prepared with 90% aqueous ethanol, measures have been taking to minimize the ethanol effects on the plant leaves. Medicines are being sprayed over the leaves to undergo such experiments. We have demonstrated that homeopathic

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dilutions alter the rate of photosynthesis and thereby can minimize the global warming effect.

As far the clinical efficacy goes, homeopathic dilutions are successfully used to ameliorate the symptoms of neural disorders like Parkinson's disease, Alzheimer's disease, epilepsy, few genetic disorders, few types of carcinoma and other serious ailments. Most of the patients come to a homeopathy physician when they are advised to undergo a surgery. Surgery can very successfully be avoided after prolong homeopathic medication.