Original Article

Qunatum electro-dynamics helps homoeopathy achieve its scientific basis (paving the way for a generalized concept of medicine)

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Abstract

Background: Since its discovery by Samuel Hahnemann over two centuries ago homoeopathy has gifted us many incredible cures, apart from many more cures of simple diseases. Moreover, it offers cheapest medicines. Still, it lacks wide acceptability. Its main reason is lack of scientific explanation, particularly for higher potencies -- Where is their medicinal value and how do they work? In trying to throw some light on such mysteries of homoeopathy this article arrives at a new and unifying concept of medicine.

Method: Taking an earnest view of innumerable cures by homoeopathy many scientists from different fields are searching answers for the fundamental questions stated above. This article analyses logically sound and promising investigations.

Results and Discussion: Indication is obtained that water structure holds the key to unlock the mystery of homoeopathy. Action mechanism of some main-stream medicines also supports the structural model. Together they lead to a generalized concept of medicine.

Conclusion: The above analysis points to the conclusion that medicinal value of both homoeopathic and non-homoeopathic medicines lies in structures.

Keywords: generalized concept of medicine, structure holds the key.

Background

Homoeopathy is the only system of medicine which employs potentisation, that is, serial dilution of the starting material along with succussion. Quite often the dilution is carried to such an extent that it becomes devoid of even molecules/atoms of original medicine. So, homoeopathy was not taken seriously and often ridiculed. But now things have changed. It has got Government recognition in India. Many institutes are offering graduate and post-graduate courses in homoeopathy. A lot of fund is being

provided for both fundamental and applied research in homoeopathy. Still skepticism has not totally stopped. Now, the cures are not denied but they are branded as placebo effect or mental cures implying that a patient is not cured by homoeo-medicines but by the thought that the sugar globules called homoeo-medicines will cure him/her. But, this proposal is logically untenable for the following reasons.

(i) If self-suggestion of ordinary people can cure diseases then doctors and medicines

become irrelevant. (ii) Leaving aside exceptional cases, millions of ordinary people, without being yogis or saints, cannot invoke such super-natural events. They require real medicines. (iii) It reflects double standard to say that cures by homoeo-medicines are placebo effect, whereas cures by non-homoeopathy are medicinal. (iv) Placebo effect cannot happen for babies, animals and plants. For, self-suggestion has no role in these cases. (v) We do not know of any identifying chemical for mind. Its mechanism of curing a disease is also not objectively demonstrated. Hence, placebo effect or mental cure fails to satisfy the standards of scientific acceptability. (vi) Nobody, including advocates of placebo hypothesis, relies on placebo for curing one's own illness. In other words, nobody 'really' believes in placebo-cure. So, this proposal is just frivolous.

Rebuttal of its reverse is accepted in science as a step forward in proving a proposition. The logical rebuttal of skeptics given above is quite strong. But stronger is the fact of cures of millions of people over more than two centuries by homoeo-medicines. There is evidence of not only cures of ordinary diseases but many incredible cures as well. Moreover, these medicines are cheapest. Still, this system has not gained wide acceptability. Its main reason is lack of scientific explanation, particularly for higher potencies -- Where is the medicinal value and how do they work? All the clinical successes achieved so far have not been able to change this situation. Evidence based statistical approach bypasses the fundamental issues. As such, it has not succeeded in producing the desired impact. Now, it is obvious that the situation cannot be altered without answering the fundamental questions. Fortunately, quite a few scientists are now engaged in this job. This article analyses their logically sound

and promising investigations. In doing so, it arrives at a new and unifying concept of medicine.

Method

The method adopted here is analysis of logically sound and promising investigations of different researchers. Here, facts are placed above speculations. On the basis of their ability to cure diseases different high potency medicines are accepted to be different from one another, though they cannot be differentiated chemically. Chemical presence of starting materials is ruled out in potencies above 12c as dictated by Avogadro number. This article does not show any obsession with chemistry as a condition for something to be a medicine. Distinct chemical identity may or may not be associated with a medicine. This stand is now getting vindicated both theoretically and experimentally. The concept of medicine is changing. The mystery of homoeo-medicines prevailing for more than two centuries is no longer beyond comprehension. The ice is melting. So, let us look at the promising works.

Structural concept stands out as the most promising model. It shifts the focus from chemical formula to physical structure. The structural model as a generalized concept is advanced in [1]. It is like this: *A substance is to be recognized as a medicine if it has the capability of curing disease(s) while its medicinal property is to be attributed to molecular structure of vehicle like water or of distinct chemical substance when it exists.* Water polymer hypothesis [2], water memory hypothesis [3], water clathrates [4] and induced water structure model [5] are allied concepts.

For serially diluted substances to hold information about medicines in the form of molecular structures of water it is imperative that (1) water-body must contain reasonably stable structures within it at room

temperature; (2) these structures should change with medicine and potency and (3) they must have the potential to be very large in number since there are many medicines with many potencies in homoeopathy. This will overcome the hurdle faced by the structural model of high potency medicines which are devoid of identifying chemical substances. Ref [5] enlists three striking properties of water which enable it to store information related to all homoeopathic medicines in its structured molecular associates. They are: (a) Even at room temperature water contains reasonably stable structures in the form of 'icicles' in it; (b) the shape and size of these molecular clusters are influenced by impurities, ions of other substances and foreign molecules; (c) water crystals or icicles can take innumerable variations.

Fortunately, Quantum Electro Dynamics (QED) supports the first and most important striking property of water. It predicts existence of Coherent Domains (CD) resembling ordinary ice in water at room temperature [6-11]. The CDs are found to be influenced by factors like impurities, ions of other substances, electromagnetic field, low energy physical perturbations etc. Under natural environment the influencing factors are uncontrolled. This leads to infinite variations of their structures. But, in the potentiation process of homoeopathy they are channelized. As such, the CDs associated with potentised medicines are likely to be related to the medicines and their degree of potentiation.

Results

That the key to unlock the homoeo-mystery lies in water structures is strongly hinted at in a number of works [12 – 16]. These works suggest that notwithstanding absence of distinctive chemical identity various

super-diluted substances differ from one another in the molecular structure of water (the potentiating vehicle). Such substances are used in homoeopathy as medicines. So, it is necessary to explain how structures can serve as medicines. In answering this question we firstly note that due to various reasons molecules of a living organism may change their form to some extent. But when this develops to a considerable extent it may be considered to be in a diseased state [17].

Then we note the fourth striking property of water that all healthy bio-molecules fit in nicely within the hollows of water in solid form. It is vindicated by successful preservation of food and biomaterials by refrigeration. But the large molecules which fail to fit within the hollows of ice-structures are crushed and driven away. That is why we get salt free ice in Arctic Ocean. As such, suitably structured water molecule may bend near-matching bio-molecules to get a desired fit and may initiate an action for bringing them back to their healthy state. In fact, damaged bio-molecules are found to be repaired by tiny ice crystals. By freezing onto curved molecules the icicles straighten them out, giving them their usual configuration. Further, beneficial effects (like faster growth and higher immunity) are seen on young birds and animals fed with melted-ice (called live water) rich with ice crystals [18].

That structural fitting and template principle explain metabolic process is an established fact in biology. Can it hold good for curative process as well? Here, we note that water of diseased human cell gets rather disordered compared to that of healthy cell [19] by taking an impression of diseased bio-molecule. The question is -- Is the reverse

also true? Can structured water revert back a diseased bio-molecule to its healthy form? The fourth striking property of water mentioned above hints towards this possibility when there is closeness of structural matching. Otherwise, it may be a misfire. So, the CLUE to medicinal value of high potency homoeo-medicines seems to be structured molecular associates of water. Cure follows from structural interaction of near-matching molecules. This concept covers low potency homoeo-medicines also as they contain chemicals with their well defined structures plus structured water formed by potentiation process. **Structures initiate medicinal action.**

Discussion

Various facts lend indirect support to this concept. For example, if chemistry was the sole deciding factor, then we could not have different properties for amorphous carbon, graphite and diamond because chemically all of them are carbon or we could not have Carbo-animalis and Graphites as two separate medicines in homoeopathy since the starting materials for both are chemically nothing but carbon. They differ in the structural arrangement of their constituent atoms. The homoeo-medicines called X-ray, Mag-Pol-Ambo, Mag-Pol-Arc and Mag-Pol-Aus do not ever have any chemistry. Structural change of molecular arrangement of the vehicle stands out as the only possible explanation. Homoeopathic medicines exposed to high temperatures lose their medicinal value. Its only explanation left to us is melting/disintegration of structures of the vehicle or the preservative at high temperature like doped semiconductor crystals. High potency homoeopathic medicines simply diluted in water (without any preservative like ethyl alcohol) lose

their medicinal value after 3-4 days. This may be explained, as observed by scientists, by spontaneous disintegration of water structures at room temperature.

The structural concept is the sprout of a generalized concept of medicine. Mechanism of action of antibiotics follows the principle of structural fitting or locking [20,21]. Different antibiotics kill different bacteria by inhibiting their different functions such as synthesis of protein, (RiboNucleic Acid) RNA, cell wall etc. The action starts with structural matching/binding to specific bio-molecules. Analysis of mechanism of action of main stream medicines reveals that those medicines whose action starts with structural binding are capable of producing deeper impact. So, the structural concept seems to have general validity. With a shift of focus from chemical formula to physical structure all non-homoeopathic medicinal actions may be viewed as interaction between structures, because all of them have their own specific structures. Without invalidating conventional chemistry this gives a new way of looking at the action of medicines.

Conclusion

High potency homoeo-medicines can be characterized only by molecular structures of their vehicle whereas structures are obvious for low potency homoeo-medicines and all non-homoeopathic medicines. It implies that all medicines can be characterized through their structures. Normally, we try to characterize a medicine by its chemical composition. But Homoeopathy forces us to think in terms of physical structures pointing towards a generalized view of medicines.

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