

**QUESTIONING SILENCE AGAINST PUBLICATION QUERIES**

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**INTRODUCTION**

"Knowledge is defined as the information, understanding and skills that you gain through education or experience."<sup>[1]</sup> Knowledge is also acquired through enquiry, research, exploration and information. And science is "Knowledge about the structure and behavior of the natural and physical world, based on facts that you can prove, for example by experiments."<sup>[2]</sup> Science can also be defined as "Knowledge ascertained by observation and experiment, critically tested, systematised and brought under general principles."<sup>[3]</sup> Science is also an attempt to answer questions about nature. "Discoveries and inventions have been essential to the development of mankind since

the beginning. The 19th and 20th Centuries, especially witnessed tremendous strides made in these fields. These two hundred years have been the years of inventions that have affected the life of common man in multifarious ways. Technology involves the application of scientific principles in our day to day life. The level of technological progress is related to the growth in the level of scientific knowledge as each discovery in science pushes the society towards greater technological advancement."<sup>[4]</sup>

This development of science and technology is very gradual. It involves dedicated and sincere efforts of millions of humans. First of all, information's are collected then after analyzing facts, generalization is made and conclusion is drawn. If this conclusion is prove by experiments, logic and further observations; then this conclusion takes the shape of laws or principles which are accepted universally. In this process of evolution of knowledge, queries play very important role.

Creation of knowledge and raising queries against conclusion drawn are equally important. If queries are logical and questions raised by queries are proved by observations and experiments then conclusion has to be changed. Again there may be new queries which should be answered or conclusion should be modified in context of raised new adverse questions.

In this way queries play a very important part in the development of science and technology. Queries should be answered or where queries remain unanswered, conclusion should be changed. If queries remain unanswered and authors are rigid and not ready to change their conclusion; then they are doing criminal act of polluting knowledge. They are also obstructing path of evolution of science, and development of technology. If Newton's law of gravitation would have been wrong then human would have not been able to reach the moon. If we did not understand function of cardiovascular system then development of cardiovascular drugs would not have been possible. That's why it is the duty of scientific personnel to raise queries and to solve queries in the path of creation of knowledge.

### **Queries improved the scientific conclusions**

#### **(a) Definition of Drug**

"A drug is defined as any substance used for the purpose of diagnosis, prevention, relief or cure of a disease in man or animal. According to WHO- A drug is any substance or product that is used or intended to be used to modify or explore physiological systems or pathological states for the benefit of the recipient."<sup>[5]</sup> Queries have been raised against above definitions of drug. Herbal products, Ayurvedic and Homeopathic substances should not be included in the definition of drug, because pharmacokinetic and pharmacodynamic study of these substances is not possible. We do not know active ingredient in them. Without knowing active ingredient, scientific study and clinical controlled trials are not possible. Due to these unsolved queries, definition of drug has been changed. Now drug is defined as "A chemical substance of known structure, other than a nutrient or an essential dietary ingredient, which, when administered to a living organism, produces a biological effect"<sup>[6]</sup>

According to this definition; now herbal, Ayurvedic and Homeopathic products can not be labeled as drug. These are substances which should not be used therapeutically, because we do not have sufficient knowledge about them.

**(b) Queries made Hippocrates, father of modern medicine**

Hippocrates (460-357C) has been called the father of modern medicine. Because he raised queries against prevalent treatment of that time." He denied the intervention of deities and demons in the development of diseases. He emphasized upon natural causes, clinical observations, and pathology in relation to diseases. He was handicapped by inadequate anatomical and physiological knowledge."<sup>[7]</sup> His query and view are also responsible for present advanced status of modern medical science.

**(c) Queries caused Reappearance of Scientific Questioning in Europe**

"Any criticism or questioning of the theological doctrine of demonology during the Middle Ages was made at the risk of life itself. Yet even during the early part of the sixteenth century, we find the beginning again of more scientific intellectual activity. The concepts of witchcraft and demonology, which had acted for centuries as a drag upon medical science specially psychiatry, began to be challenged and attacked by men greater than their time men from the field of religion, physics, medicine, and philosophy."<sup>[8]</sup> Due to queries and questioning continuously, "demonology was forced to give ground, and the way was gradually paved for the triumph of observation and reason, culminating in the development of modern experimental science and psychopathology."<sup>[8]</sup>

**(d) Queries made Socrates, a historical figure**

"Socrates, 470-399 BC, was citizen of Athens. He developed a system of question and answer. He always asked questions and tried to search right concept. He dedicated his life to find out what is truth? He did not provide his bearers with new and interesting ideas, but like midwife assisted the pregnant mind to bring forth its own truths. He said, "true knowledge can answer all queries." He did not compromise and he sacrificed himself for the sake of knowledge by consuming poison."<sup>[9]</sup>

**(e) Simple queries can abolish Homeopathy**

"Homeopathy was based on few principles. Important principles of Homeopathy are (1) like cures like (2) Dilution potentiates the potency (3) Knowledge regarding aetiology, pathology and nature of disease is not important (4) No symptoms indicate no disease (5) Bacteria are not responsible for any disease (6) Non religious thought gives origin of psora and psora causes development of diseases. One author raised many queries against Homeopathic principles."<sup>(10)</sup> Homeopathic supporters could not answer the questions raised against the

Homeopathic system. It should be the beginning of end of Homeopathy. But in India, it can not be expected.

**(f) Queries and questioning are only means to develop knowledge**

Unresolved queries and questioning motivate for further research to remove contradiction. In the absence of queries and questioning, reformation is not possible and universal rules can not be invented.

**(g) Use of BCG revaccination in the diagnosis of TB**

Between 1980 to 1990, it was common practice to use BCG revaccination to diagnose TB. After revaccination, if wide skin reaction starts within 24-48 hours, then tubercular infection was presumed. Query was raised against this procedure. Simple argument was given that after previous BCG vaccination, immunity has been developed. During revaccination due to previous immunity, skin reaction will be developed within 24 to 48 hours, without tubercular infection. This questioning completely stopped diagnostic use of revaccination of BCG. In Europe, BCG Vaccination is not used during childhood that's why diagnostic value of BCG persists in them.

**MY UNANSWERED QUERIES**

**(a) Alloxan induced diabetic model**

Approximately one thousand experimental researches have been published showing antidiabetic effect of herbal product by using alloxan induced diabetic model. But "I raised query against this alloxan induced diabetic model. According to my query, it is a defective model and it is useless to study antidiabetic effect on this model."<sup>[11]</sup> "One author proved by experimental research that the query raised by Jain DK is correct and they agreed with my point of view"<sup>[12]</sup> I did not get any answer from any author who used alloxan induced diabetic model in his study. "My query was published in a journal,"<sup>[11]</sup> even then, there was no any discussion. After publication of my query, use of alloxan induced diabetic model is continued. Actually all research work using this model should have been stopped immediately unless my query is solved.

**(b) Query against streptozotocin induced diabetic model**

I also raised query against streptozotocin induced diabetic model. I wrote to many editors regarding this doubtful model, but my query was not published. "Another author also raised query against this model, which was published."<sup>[13]</sup> Irrespective of our queries against

streptozotocin induced diabetic model, research workers are using this model without considering and answering our queries. It is disgusting.

**(c) My queries against pharmacovigilance in Indian system of medicine**

"Many research papers have been published showing need of pharmacovigilance of Ayurvedic, and Unani drugs."<sup>[14,15,16,17,18]</sup> The National Pharmacovigilance program has encouraged reporting of all suspected drug related adverse events including those caused by herbal /traditional/ alternative medicines."<sup>[18]</sup> I am also raising queries against reporting of adverse event in Indian system of medicine. I am telling again and again that first, study efficacy of Ayurvedic and Unani drugs. If they are useless then stop using these drugs. If they are found effective, then only start studying adverse effects. I have written many letters regarding this query to different editors; they did not give any response.

**(d) My queries against Ayurvedic and Homeopathic System**

I wrote letters to different journals and my statements published in media many times regarding ineffectiveness of Ayurved. I say, Ayurved directs an illogical and irrational life style, it gives idiotic concepts about origin of diseases, the concept of vata, pitta and kapha is not proved by experiments; pharmacokinetic and pharmacodynamic study of Ayurvedic drugs are not possible because active ingredients are unknown. "I also worked against Homeopathic system of medicine and found it ineffective."<sup>[19]</sup> "I am saying again & again"<sup>[20]</sup>,<sup>[21]</sup> but I got no any reaction from society and from editors. "WHO also raised queries against Homeopathy"<sup>[22]</sup> but there is a silence in whole country.

**(e) My queries against publications on Yoga**

Many research papers on yoga have been published showing beneficial effects of yoga in their experiments. What did they do in their experiments?

"They were advising exercise in Asan."<sup>[23]</sup> Beneficial effect obtained was due to exercise, not due to yoga. Asan is movementless static posture. Exercise is not a part of yoga. But research workers were polluting academics by using wrong methodology in their research work. "In another research work, titled "Effect of yoga based life style intervention on anxiety", head line of paper says, yoga based life style is used in research work."<sup>[24]</sup> but during study; relaxation technique, group support, stress management, nutrition, music & other methods are used to reduce anxiety. It is wrong. I also mentioned that in study, intervention group has been removed from place of anxiety and their work. While control group is present in his

place of anxiety. Removal from working place is also a factor responsible for anxiety reduction. Control group should also have been removed from working place and other than yoga, control group also should have used music, stress management, nutrition and relaxation technique. Then only conclusion would have been accurate. I wrote many letters to editor of that publication but I did not get any answer. "In one other research paper of yoga",<sup>[25]</sup> duration of asan was 6.5 minutes per day only, 5 minutes per day were for shavasan. I asked a question, "sleeping is also a form of asan. How can this addition of 6.5 minutes asan, in 6 to 8 hours sleep asan alter physiology" I did not get any answer.

In another research paper titled "Management of obesity through naturopathy and yoga interventions,"<sup>[26]</sup> beneficial results were obtained. In this paper my queries were - (1) There was no control case (2) Comparison was done on same persons before starting therapy and after completion (3) In therapy, diet restriction was also included. I objected this methodology but did not get answer.

There was one research paper titled "Effect of Raj Yog meditation on the lipid profile of post menopausal women."<sup>[27]</sup> In this study, conclusion was drawn, benefits by improving the lipid profile in post menopausal women by Raj Yog meditation. In this study, non meditators were mixed group of staff and students who had never done any kind of meditation. The meditators were practicing Raj Yog meditation at Brahmakumari Centre. In this article, it was wrongly said that diet of both groups were the same. When I enquired at Brahm Kumar Centre, I found "Those who meditate at Brahm Kumar Center take diet without oil and fat". Restriction of spicy and fatty food is a part of life style, adopted by Brahm Kumari followers. Improvement of lipid profile in this study was due to fatty diet restriction, not due to meditation. I asked this query to the editor and author but did not get any answer.

Surprisingly when I asked a yoga teacher to give scientific evidence in the support of yoga, he sent all those research articles which were doubtful in accuracy. Some of them, I have already mentioned in this article.

#### **(f) Query against use of adenosine in research work**

There is one research paper, titled, "Protective effect of adenosine in diabetic neuropathic pain mediated through adenosine - A<sub>1</sub> receptors."<sup>[28]</sup> "Adenosine is a naturally occurring nucleoside that is administered as a rapid intravenous bolus for the acute termination of reentrant supraventricular arrhythmia .... Therapeutic dose of adenosine is 6 to 12 mg in

human. It has to be given by rapid bolus dose. Slow administration result in elimination of drug prior to its arrival at the heart. Half life of adenosine is less than 10 seconds and loading doses are 6 to 12 mg IV only."<sup>[29]</sup> In this study, rats were given different doses of adenosine (100, 200 and 500 mg/kg IP), half life of adenosine is only < 10 second. "In a similar other Study, adenosine was used in 1 mg/kg dose in rats"<sup>[30]</sup>. My query was "What is the rational of using high doses of adenosine. Due to very short half life of drug, adenosine will not have any systemic effect through intraperitoneal route." I wrote to editor, but my query remained unanswered.

### **Biochemical Analysis of Sociological Queries**

There are many sociological issues, which should be solved. Right or wrong should be decided. What is the aim of life? Love marriage is good or arranged marriage? How happiness can be achieved? Money is important or life satisfaction? What is the Importance of social and family relationship? What are the causes of drug addiction? What should be the nature of male female relationship? These all questions can be solved by studying biochemical changes in the body. Sociological need arises from psychological deficit, and deficit and fulfillment cause biochemical changes in the body. By studying biochemistry, many sociological queries can be answered. "Science of normal vital process is physiology. Chemistry is involved in physiological function, that is biochemistry."<sup>[31]</sup> Satisfaction by fulfillment of psychological needs causes biochemical changes in the specific parts of brain. "The medial forebrain bundle and ventral tegmental area in the midbrain have been termed pleasure centers or the foci of reward in the brain. A subset of dopaminergic neuron projects directly from the ventral tegmental area to the nucleus accumbens via the medial forebrain bundle. It is believed that these neurons are crucial for the brain reward pathway, which reinforces motivated behavior and facilitates learning and memory."<sup>[32]</sup> "Behavior that is necessary for survival of the species (eg. feeding, reproduction and exploration) also result in dopamine release in the nucleus accumbens but to a much smaller degree, suggesting that drugs of abuse may pharmacologically hijack the normal evolutionary functions of reward pathways."<sup>[32]</sup> Social behavior which liberates dopamine in nucleus accumbens is accepted behavior by nature. "Oxytocin, dopamine, Beta-endorphin, prolactin, serotonin, and vasopressin are involved in love and loving, care and being cared for and in our emotional state. Oxytocin is released from sharing a meal with friends, in response to a hug from friend, while making love and it is an integral part of breast feeding. Oxytocin is described as the hormone of love because it is consistently involved in all form of love. Love is important to



the individual as it is to their society and our world."<sup>[33]</sup> Dopamine stimulates desire and reward by triggering an intense rush of pleasure. Lust is driven by sex hormones testosterone and estrogen. Psychological attraction is due to adrenaline and dopamine; and attachment is due to oxytocin and vasopressin."<sup>[34]</sup> Sociological issues could be decided by biochemical study, considering personal and sociological well being with evolutionary perspective.

### **Inquisitiveness in Indians to solve queries**

Indians are not inquisitive. They have no capacity and no eagerness to solve medical or sociological queries. They are money oriented, self centered, immature people. They never take any challenge to solve the problems of mankind. They only earn money and create such society where money becomes very important. They never motivate by exploration and aliveness. They motivate by loss and profit. That's why they never try to solve the queries related with medical field and research work. To attain knowledge requires dedication and hard work and Indians do not want to do that, so they are immune to answer queries even they are related with their work or research. "Mature personalities are characterized by realistic orientation, spontaneity, problem centered rather self centered, autonomous, independent, they identify with mankind, democratic, creative, and they transcend the environment."<sup>[35]</sup> Usually Indians do not have characteristic features of mature personality. Now it is well known that "Indian psyche is different than western psyche and the principles of western psychotherapy cannot be applied on the Indian subjects. Indians seek sustenance from religion, visit temples and shrines and seek blessings of the God and Goddesses when confronted with life stressors. They feel contended in handing over the responsibility to a higher authority, namely God, and thus relieving themselves from the burdensome responsibilities."<sup>[36]</sup> This irresponsible attitude of Indians make them immature, irresponsible, narcissistic, and self centered. They are not involved in creation of knowledge and they do not take interest in raising and solving queries.

"In top 200 universities of world, Indian universities have no place. Actually in higher education, researches are very important and level of research determines level of institution. In Indian universities, researches are not important. Research work is not respected in Indian society. In USA, research work is highly rewarded and respected, that's why there are many Nobel prize winners, and 51 universities of USA are included in top 200 universities of world".<sup>[37]</sup>



**"Indian patent act"<sup>[38]</sup> created negative atmosphere for research work**

Patents are granted to encourage inventions and research activity, and to secure that the inventions are worked in India on a commercial scale and to fullest extent. But the main drawback of Indian patent act is that many inventions are not considered inventions and they are not patentable. According to this act, the following inventions are not inventions:-

1. The mere discovery of a scientific principle or the formulation of an abstract theory or discovery of any living thing or non living substance occurring in nature.
2. The mere discovery of a new form of a known substance which does not result in the enhancement of the known efficacy of that substance or the mere discovery of any new property or new use for a known substance or of the mere use of a known process, machine or apparatus.
3. The mere arrangement or rearrangement or duplication of known devices.
4. A method of agriculture or horticulture
5. Any process for the medicinal, surgical, curative, prophylactic, diagnostic, therapeutic or other treatment of human beings or any process for a similar treatment of animals to render them free of disease or to increase their economic value or that of their products.
6. Plants and animals in whole or any part there of other than micro-organisms but including seeds, varieties, and species and biological process for production or propagation of plants and animals.
7. A mathematical or business method or a computer program or algorithms
8. A mere scheme or rule or method of performing mental act or method of playing game.
9. A presentation of information.
10. Topography of integrated circuits.
11. Inventions related to atomic energy.

This is the list of those inventions which are not inventions in the perspective of Indian patent act. Any credit, reward, or benefit will not be given for these inventions. It is highly disgusting and responsible for creating negative atmosphere for research activities. This is one of the important causes why Indians are not interested in real research activities. They consider it as a useless work and work without reward.

In the western world, research and exploration are the parts of life. They are continuously involved in research and invention in all dimensions of life. Inventions of world are not patentable in India according to Indian Patent Act, if they are not included in invention list of this act. Then Indians can use them freely without taking permission from original inventor

and without royalty in return. This is the cause why India is progressing without doing anything. There is also another provision of Indian patent Act to use research and technology created by other countries, even their inventions got Patent in India. According to section 92 of the patent Act, if the Central Government is satisfied, in respect of any patent in force in circumstances of national emergency or in circumstances of extreme urgency or in case of public non-commercial use, that it is necessary that compulsory licenses should be granted at any time after the sealing thereof to work the invention, it may make a declaration to that effect, by notification in the Official Gazette. According to section 102 of the patent act, the Central Government may, if satisfied that it is necessary that an invention which is the subject of an application for a patent or a patent should be acquired from the applicant or the patentee for a public purpose, publish a notification to that effect in the Official Gazette, and thereupon the invention or patent and all rights in respect of the invention or patent shall, by force of this section, stand transferred to and be vested in the Central Government.

These provisions of patent act are also creating adverse atmosphere for research work in India because India has rights to use technology and research knowledge created by other countries, due to provisions of this act without investing anything. This is unethical but due to these provisions, India is progressing and developing day by day and creating hurdles in research atmosphere in the country, because there is no need of doing research by Indians.

## CONCLUSIONS

Continuous research work is essential for benefit of mankind. Research work should be accurate, methodology should be proper and conclusion should be unbiased. Research should not be done just for research or for promotion. It should be done to actualize self, to make world prosperous, and to contribute to the society. Contribution to knowledge is a natural gift to new generation and aim of life.

To raise queries require vast knowledge of subject. Question should be asked in every field of life. There should be open discussion about every doubt. Authors should be ready to give answer of queries. If authors are not capable to give answers of raised questions then they should change their conclusions and methodology. Editors should remain ready to accept queries and they should compel authors to give answers. Editors and authors should accept questions and queries by simple letters, telephonic talk, Email or prescribed format of letter to editor. In academic discussion, there should be no ego problem. We should always be ready to learn and acquire knowledge as a student then only we can fulfill our duty as a teacher.

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