CRITICAL ANALYSIS OF CONCEPT OF PRAKRITI AND CHALLENGES IN ITS ASSESSMENT: A REVIEW

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Received on: 16/04/16 Revised on: 25/05/16 Accepted on: 03/06/16

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DOI: 10.7897/2277-4343.07399

ABSTRACT

Ayurveda is one of the oldest health sciences of the world with concepts of Tridosha and Prakriti (Ayurvedic constitution) being core philosophies. Unique concept of Prakriti makes this pathy a step forward towards personalized approach of treatment. In Ayurveda, the physician’s bimodal approach of clinical examination (disease diagnosis and patient diagnosis) is used to determine the root cause of the disease and to determine the mode of treatment selection. Prakriti assessment becomes very crucial in this personalized approach but Prakriti assessment result of same individuals is not unanimous all the time, that shows poor reliability results. Tools used for Prakriti assessment i.e. Prakriti assessment proformas itself have so many challenges. We emphasize the use of an objectively defined questionnaire and software analysis in establishing a Prakriti assessment, a method which yields more reliable results.

Keywords: Prakriti assessment, Ayurvedic constitution, Prakriti.

INTRODUCTION

Ayurveda is the ancient medical science prevalent for thousands of years in the Indian subcontinent. One of the key fundamental theories of Ayurveda involves a system of understanding health and disease known as the Tridosha. The ancient texts of Ayurveda mention numerous properties of Doshas (Vata, Pitta and Kapha) and how they affect a human being’s physiology or Prakriti (Psychosomatic constitution) based on the dominance of one or more Doshas. The Prakriti or the Ayurvedic constitutional type of an individual is fixed at conception and is articulated through physical, psychological, immunological, and behavioural traits as described elaborately in original Ayurvedic texts. The Prakriti of a person is quite capable of providing a fair indication of physiological strengths and weaknesses, mental tendencies, and susceptibility to illnesses of various types.1

Such a classification of individuals based on body temperament by deciphering specific phenotypic characters for health management is not confined up to Ayurveda only. Such traditional classification systems for personalized medicine are widely used in many countries in the form of naturopathic medical systems of body type in the America and Europe, constitutional medicine in China, Ikkando medicine in Japan and Sasang typology in Korea also.2-7 These contemporary traditional systems of medical classification consider the person as a whole, rather than focusing on particular organ or biological systems as done in allopathic medicine in the west.

Prakriti: the basis of personalized medicine

Uniqueness of Ayurveda comes into form of Prakriti i.e. once his/her individual constitution is detected then we can be able to prevent and cure the disease stage by managing the diet and behavioural regimen according to individual constitution and predominant Dosha. This concept of Prakriti has remained a subject of extensive exploration in the recent past. As a result, it is now better understood in terms of its genomic and biochemical correlations and subsequent clinical applications.8-10

Since innate disposition determines the manifestation of diseases and individual response to treatment, one of the first things a physician does is to determine the Prakriti of his patient. The description of the features clearly suggests that the innate dispositions or Dosha Prakritis represent phenotypes. This is necessary to personalize treatment in accordance with the basic principle of Ayurvedic therapeutics.11 So Ayurvedic system of medicine have a personalized approach in treating a patient with centuries of practice, rightly called experiential science.12,13

Concept and importance of Prakriti

So concept of Prakriti finds a base role on which whole skeleton of personalized medicine is framed. Prakriti assessment is a part of Dashavidha Atur Pariksha14 (Ten points investigation of patient) and is considered in totality with understanding of other minimum nine aspects. If the constitution is known then herbs, diet and other regimens including yogic postures can be advised correctly both for disease treatment and to promote longevity.

Schools of thought regarding concept of Prakriti and its formation

There are two schools of thought,

a- Thoughts related to School of Surgery.
b-Thoughts related to School of Medicine

a-Thoughts related to School of Surgery- Acharya Sushruta and his followers belong to school of surgery i.e. surgeons. In most of the instances medical cases that are dealt by surgeons...
are almost Atiyayik (emergency) cases means they have not much time to think about the Prakriti of patients. In Atiyayik situation one has to make sure about saving patients life rather assessing Prakriti of patient and planning treatment according to the same, so school of surgery simply stresses on the physiological predominance of Dosh in Shukra and Shonita.13

b-Thoughts related to School of Medicine - Acharya Charak and his followers belong to school of medicine. They follow the principle “Swasthasya Swasthya Rakshanam Aturasya Vikar Prashhmanam Cha” means their primary vision is the maintenance of health followed by cure of diseases. Prevention of the disease and maintenance of health can be achieved by planning the diet and behavioural regimen according to Prakriti.

Acharya Charak considers four major embryonic factors that decide the Prakriti of an individual.

1-Shukra Shonita Prakriti (Nature of sperm and ovum)
2-Kaal –Garbhshashya Prakriti (Nature of womb)
3-Matur Ahara Vihara Prakriti (Diet and behavioural regimen followed by mother)
4-Panchamahabhutavikarika Prakriti (Predominance of five basic elements)16.

Acharya Charak has considered that post embryonic factors also affect the Prakriti of individual i.e.
1.Jatiypressakta (Racial peculiarities)
2.Kulaprasakta (Familial predisposition)
3.Deshanupatini (Demographic)
4.Kalamupatini (Seasonal effect)
5.Vayonupatini (Natural changes according to age)
6.Pratyatmaniyata (Personal habits & individuality, Idiosyncrasy).17

Challenges
Understanding of Prakriti and its assessment becomes crucial but assessment of Prakriti has not remained a unanimous result most of the times. In Ayurveda, diagnostic methods (such as Prakriti assessment, pulse diagnosis etc.) often rely on some degree of subjective interpretation by physicians. We find that if Prakriti of same individual is assessed by different physicians there is difference of opinion regarding same.

In a study Kurande V.et al. (2013) assessed the inter-rater reliability of Ayurvedic pulse (nadi), tongue (jivha), and body constitution (Prakriti) assessments. Fifteen registered Ayurvedic doctors with 3–15 years of experience independently examined twenty healthy subjects. Kappa statistics for all 105 pairs of doctors were computed for the pulse, tongue, and Prakriti data sets. The average pair wise kappa for pulse, tongue, and Prakriti was 0.07, 0.17, and 0.28, respectively. Thus, the results demonstrate a low level of reliability for all types of assessment made by doctors.18

Reliability studies in Ayurveda are in the preliminary stage so it is a crucial issue in classification (such as Prakriti classification), method development (pulse diagnosis), quality assurance for diagnosis and treatment and in the conduct of clinical studies.19

Problems associated with Prakriti and its assessment
There are theoretical and practical problems associated with Prakriti assessment.

1-Theoretical problems related to Prakriti - Acharya Charak considers that mere physiological predominance of Dosh in Shukra and Shonita does not decide the Prakriti of an individual. Along with these, predominance of Mahabhoota, diet and behavioural regimen of mother, nature of womb and Kaal also decide the Prakriti. He has further added that some other factors like personal habits etc. also have influence the Prakriti of an individual means he indicates that Prakriti formation is dependent on a number of factors but when we prepare the Prakriti assessment questionnaire/proforma then we do not incorporate the post embryonic factors that may affect the Prakriti e.g. Pratyatmaniyata (personal habit).

Acharya Charak describes that predominant manasika guna of an individual can be changed by continuous practice of certain manasika guñas or thoughts. So once there is alteration in the configuration of manasika guna, this will affect the sharirika guna that will ultimately alter the Panchamahabhoota configuration in the body. So we can say that this alteration will be having an effect on Prakriti but it is not considered often.

2-Practical Problems related to Prakriti assessment - Whenever we assess the Prakriti in large scale, we generally use Prakriti assessment proforma/questionnaire. We find too many questionnaires available for assessing the Prakriti but no questionnaire is exactly similar with another of its kind e.g. (i)-The questionnaires available are of the following types depending on who assessed the Prakriti:

a-The questionnaires that required interrogation and clinical examination of the individual to be carried out by the physician.
b-The questionnaire that were of self-assessment type, where subjects themselves would fill up the questionnaire, and would decide their Prakriti.

Each method has its own merits and demerits. It becomes difficult to judge which method is better because in physician based questionnaire sometimes it becomes difficult to judge subjective parameters related to individuals e.g. appetite, bowel habit, memory, anger and sometimes individuals may hide their personal information e.g. if they are greedy, jealousness, their sexual feeling and behaviour etc.

In self assessment questionnaire individuals perceive each parameters/feature e.g. dryness of skin, hairs, skin colours, psychological attributes according to their own discretion that may entirely differ from others discretion.

(ii)-The questionnaires are of following types based on the classical text book that they followed:

a-Questionnaires which included all the descriptions available in all possible textbooks, especially Brihat Trayi and Laghu Trayi.
b-Questionnaires that were based on only one classical Ayurvedic textbook.20

(iii)-The questionnaires are of following types based on the scoring system that was followed:

a-Absolute scoring, where, some fixed scores are allotted for each response/ character / trait that is present in an individual
b-Graded scoring, where, the scoring varied from zero to five (or four in a few) based on the strength of agreement / disagreement with the question/ statement.

(iv)-Other Problems with different Questionnaires -
a-When the subject has to be considered as ‘Ekadoshajah’ and when ‘Vidoshajah’ is not clear in most of the questionnaires. As every individual scores some score in all three Doshas, the criteria to be adopted for identifying the Dosa that is/ are to be eliminated is not clear. Similarly whether the most dominant Dosa is to be considered or the two most dominant Doshas are to be considered for designating one’s Prakriti is also not clear.
b-When we go through different treatises for the features of different Prakriti, we find that some peculiar feature is described only for one or two types of Prakriti but nothing has been elaborated in third type of Prakriti for same feature e.g. Vata Prakriti individual will be lean and thin and Kapha Prakriti individual will be having hefty, muscular and well built body but no description has been found for Pitta Prakriti individual for body built. With different questionnaires we find that medium body built has been assigned to Pitta Prakriti in an effort to make number of features or traits or questions equal for each Dosha although same is not described in classical texts. Such a type of incorporations may affect the real assessment of Prakriti. The number of parameters considered for Prakriti assessment may vary from doctor to doctor, which increase the assessment variability. Furthermore, the possibility of skipping important parameters and/or questions might lead to a different assessment.

c-When we are assigning Ekdoshaj/Dwidoshaj Prakriti what should be cut-off level for most dominant dosha in case of Ekdoshaj/Dwidoshaj prakriti is still not clear. In case of Dwidoshaj Prakriti what should be the minimum/maximum difference between most dominant and following Dosha is not clear.

d- It is often seen that while assigning Dual constitutional type, combination of two Dosha are considered same i.e. six combinations are converted into three combination types e.g. Vata-Kapha and Kapha-Vata are considered same but it may be possible that in Vata-Kapha, Vata may be 60% and Kapha may be 30% and in Kapha-Vata, Kapha may be 60% and and Vata may be 30% so it will be difficult to consider both same.

e-When we assign dual constitutional type into six groups on the basis of dominant Dosha and following one then it is generally seen that number of individuals having Vata as most dominant Dosha are least in number in comparison to the individuals having Pitta and Kapha as most dominant Dosha. When we again divide this population on the basis of secondary Dosha then sometimes number of individuals is reduced up to such an extent that sometimes it is almost impossible to go for statistical calculation with such a small sample size.

f- We find that Proformas do not give proper weightage to Mental or Psychological attributes while Prakriti of an individual is defined into terms of both somatic and mental attributes i.e. psychosomatic.

**CONCLUSION**

Conventional methods adopted for Prakriti examination are found inconsistent with huge inter and intra-rater inference variability. The main reason behind the poor reliability could be lack of a systematic objective methodology and a precise operational definition of the diagnostic methods. Combination of body shape, face pictures and matrices, voice recording, and a questionnaire might decrease the subjectivity of a physical assessment. Prakriti, for its tangible impacts upon decision making in Ayurvedic clinical practice, requires a thorough and foolproof method of examination. Evidence based decision making in Ayurveda should be welcomed as a mandatory move if Ayurveda is thought to be mainstreamed as a dependable and reproducible form of medical intervention. Additional research is needed to improve the reliability for these methods. Furthermore, future studies on reliability should be performed after establishing objective methodology and ensuring proper training.

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Cite this article as:

Source of support: Nil, Conflict of interest: None Declared

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