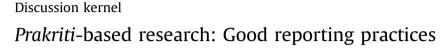
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Supriya Bhalerao^a, Kishor Patwardhan^{b,*}



I-AIN

^a Interactive Research School for Health Affairs, Bharati Vidyapeeth Deemed University, Pune, Maharashtra, India ^b Department of Kriya Sharir, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India

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ABSTRACT

The recent advances in the fields of genomics, personalized medicine, and *Ayurveda* have motivated many researchers to look at the relationship between *Prakriti* (phenotype-based *Ayurveda* constitution) and various objective biological parameters. As a result, a number of studies reporting such a relationship have made their way into mainstream scholarly journals. However, when it comes to the protocols that these workers follow to identify one's *Prakriti*, there are several issues that are yet to be resolved. In this communication, we propose a few reporting practices that such workers are required to be encouraged to follow, while submitting their work on *Prakriti* to scholarly journals. We have arranged this proposal under the following domains that may serve as a preliminary checklist in this context: The textual references, validation process, assessment of characters, scoring pattern, weightage assignment, criterion for expressing the final *Prakriti* type, and a need to publish the complete *Prakriti*-determination tool. We advocate that only if the workers in the field adhere to these good reporting practices, one will be able to draw meaningful, generalizable, and applicable interpretations out of such studies. We also suggest that the editors of relevant scholarly journals may recommend these reporting practices while considering such reports for publication.

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1. Introduction

Current advances in the fields of *Ayurveda*, genomics, and personalized medicine have motivated several workers to explore a possible association between the *Prakriti* (*Ayurveda* constitution) and different objective parameters encircling the fields of hematology, biochemistry, physiology, psychology, and genomics [1-11]. Although the trend is a welcome step in validating and evaluating the applicability of the Ayurvedic conceptual framework, there are certain issues that are required to be addressed by the scientific community and academia so as to render the results reported by these studies into generalizable, reproducible, and applicable inferences.

To be specific, the problems in the determination of one's *Prakriti* are the ones that have not yet been completely overcome. This is, especially true when it comes to the fulfillment of the research requirements, where a reliable, validated, and reproducible method becomes essential. Although there have been several attempts at designing the reliable tools and protocols for this

purpose, each of these suffers from its own limitations [12–20]. The common problems that are encountered in these protocols can be listed as follows: (a) Discrepancies related to the adherence to the textbooks, (b) ambiguities in assessing the characters, (c) inadequate attention given to inter-rater variability, (d) inadequate attention paid at the scoring pattern and weightage assignment, (e) ambiguities in assigning the criteria followed to express the final *"Prakriti"* type, (f) nondisclosure of the complete protocol used to identify *Prakriti*, etc.

Therefore, there is a need to develop a universally acceptable standard tool/protocol with a consensus of the entire scientific community working in this field. However, since this may take a few years of time to materialize, we advocate that the workers in the field must adhere to certain good reporting practices while submitting their *Prakriti*-based research work to scholarly journals. In the following paragraphs, we summarize our proposal, which is of course, open for debate and further corrections.

2. Textual references

Corresponding author.
E-mail address: patwardhan.kishor@gmail.com (K. Patwardhan).
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There are variations and at times contradictions in the description of characters or assessment methods among different

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classical textbooks of *Ayurveda* [21–23]. For instance, in the case of body frame, *Alpa Sharira*, *Hrasva Sharira* (small body frame, short stature) has been indicated as a feature of *Vata Prakriti* in *Caraka Samhita*, whereas, *Dirgha Sharira* (height more than average) has been suggested as a feature by *Vagbhata* in *Ashtanga Hridaya*. Similarly, according to *Sushruta*, a person belonging to *Vata Prakriti* tends to have an inclination for stealth, which possibly translates into some form of deviation from normalcy with reference to psycho-social health. On the other hand, the individual belonging to *Vata Prakriti* has been described to be of normal psycho-social health in *Caraka Samhita*.

Further, *Caraka* has laid down the least emphasis on the physical features of an individual while explaining *Prakriti*, whereas, *Vagbhata* has emphasized much on this domain. For instance, the physical description of hair, forehead, skin, eyes, eye lashes, nails, teeth etc., are either not described at all, or have been described just as a passing reference in *Caraka Samhita*, whereas they have been described at length with extensive details in *Ashtanga Hridaya*.

A researcher is, therefore, expected to clearly state as to which textbook was taken as reference for determining *Prakriti* of the individuals (volunteers/patients) in the study and therefore, we propose that the terms such as *"Carakokta Prakriti"* (*Prakriti* as described by *Caraka*) or *"Sushrutokta Prakriti"* (*Prakriti* as described by *Sushruta*) be used while reporting *Prakriti*-based work. If at all the workers still wish to use a mixed tool, incorporating references from all the texts, they must clearly mention as to how they circumvented these contradictions.

3. Validation details

It is advisable and preferable to administer any questionnaire/ tool only after it is validated. There are different methods to validate the tools ranging from simple one, such as "face validity" to complex ones, such as "concurrent validity." The validation of questionnaire/tool may itself prove to be an extensive exercise and therefore, needs to be carried out systematically. We, therefore, propose that the validation methods have to be reported adequately.

Although the objective behind developing questionnaire/tool is to bring objectivity, many aspects of *Prakriti* assessment fall in the realm of subjectivity. To overcome the issue of subjective interpretation of questions and the prejudice while answering certain questions, majority of the existing tools make it necessary for a researcher to take a detailed interview of each participant, examine the participant physically, and fill in the details. However, there are a few tools which are "self-reporting" in nature, where the individual participant has to fill in the details. The limitation with the self-reporting tools is that the participants may not be able to report certain traits in an objective manner because of several biases. On the other hand, the positive aspect of the self-reporting tools is that the participants feel no inhibition while responding to some personal questions. Ideally, for the purposes of research, it is advisable to determine Prakriti in two different methods and to include (wherever feasible) only those volunteers/subjects whose Prakriti determined by two methods match. Alternatively, two physicians can determine Prakriti of all the participants separately and only those volunteers/subjects may be included in the study whose Prakriti matches. This takes care of inter-rater variability. What is important, however, is to report clearly as to how Prakriti was determined.

4. Assessment of characters

It is desirable that while reporting the *Prakriti*-based work, the researchers must specify as to how they recorded the different

physical parameters. For example, if the shape of the eye was recorded as "round" or "elongated," what parameters were chosen to arrive at such a conclusion, must be specified. Similarly, skin color has several determinant factors, including exposure to Sun and ethnicity. We advocate that while recording the skin color as "dark," for instance, the workers must clearly spell out the basis on which it was recorded as dark and how did they exclude the external factors such as exposure to Sun.

In addition, if a classical textbook has not described any specific variation for a character in case of a particular *Prakriti*, it is necessary to report whether the specific character was analyzed in case of that *Prakriti* or not. For example, there is no description of the specific body frame in case of *Pitta Prakriti*, therefore, if it was considered as a "medium" or "moderate," it needs to be mentioned along with the rationale.

We propose that the description of the assessment methods can be added as a supplement as it may not be directly relevant to the topic of research.

5. Scoring pattern

Many *Prakriti*-assessment tools use different scoring patterns for final determination of the result. These scoring patterns are mainly of two types: Absolute and Relative. Most of the tools calculate the percentage contribution of each *Dosha* on a "relative" basis. In such a "relative" kind of calculation, if the contribution of a particular *Dosha* is stated to be, say, 50%, it need not necessarily mean that the concerned *Dosha* expresses 50% of the total traits ascribed to it. This is because, the denominator used in this calculation is not the maximum "attainable" scores for that *Dosha*; rather, it is the sum of the total scores "attained" for all the three *Doshas* by that individual. This calculation ignores the maximum attainable scores for a *Dosha* [11].

In the tools that are based on "absolute" calculation, the results are derived in terms of absolute percentage values, where, the calculation of contribution of one *Dosha* does not depend on the contribution of the other. Such a tool assumes that each *Dosha* can express itself in a person to its fullest extent (100%) and then calculates the percentage expression of that *Dosha* on an "absolute" basis. Therefore, if such kind of a tool expresses the contribution of a particular *Dosha* to be 50%, it means that the concerned *Dosha* expresses 50% of the total traits ascribed to it [11].

Though it is a matter of debate as to which kind of a calculation is more suitable for the purpose of research, we propose that the specific kind of calculation that was used to determine the *Prakriti* must be clearly reported by the workers.

6. Weightage assignment

Since the focus of every researcher is different depending on the study, he/she may assign a different degree of importance to different characters being assessed while determining *Prakriti*. For instance, one researcher might consider certain physical features such as height and bone length, to be relatively more stable throughout one's life, and therefore, assign more weightage, while a second researcher may assign more weightage for the features that are likely to be easily identified/categorized, e.g., color of the iris, complexion of the skin, etc. It is possible that a third researcher might assign more weightage to "most specific" features of a particular *Dosha*, e.g., digestive capacity in case of *Vata*, and so on. A fourth researcher, on the other hand, may assign different scores for different characters based on the "*Guna*" (attribute of a *Dosha*) that they represent [7].

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