Study Of Sara – Asara Parikshana- Specially "Majja Sara - Parikshana"

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Abstract

In Charaka Samhita 10 assessment criteria are described to judge the strength and immunity of a diseased person which are called as 'Dashavidha Pariksha'. Sara Lakshana of all seven dhatus along with Satvasara are described under it. This study mainly focussed to screen and assess Majjasara Lakshana. Majjais 6thdhatu among 7 dhatus by order. Total 17 characteristics were compiled mainly from Brihattrayi. In this study population of 100 individuals were screened for Sara parikshana and also for 'Majjasara' based on the results of basic screening of Sara Parikshana. The participants who were found 'Majjasara' by even minimum one characteristic were further evaluated by marking method on basis of the exclusiveness of the present characteristics. The results of this were analysed further to get clear view about grade (Uttama, Madhyama, Alpa, Asara) of the Sarata depending upon the exclusiveness of the characteristics.

Majja Dhatu by order is 6thdhatu, is called 'gambhir' (deeper) dhatu. That might be the reason, Sarata of this dhatu has very rare occurrence. In this study 100 participants were screened for generalSara Parikshana. Among them only 12 individuals were found having Madhyam Majjasaralakshana. Remaining 88 fell in category of Alpa Majjasara individuals. Madhyamsara individuals were showing very high occurrence of exclusive Majjasaralakshana (above 80%). So the quality of their Majjasarata is definitely superior.

Keywords: Sarata, Majjasarata, Exclusive characteristics of Majjasarata, Occurrence of Majjasarata,

Introduction

The main aim of *Ayurved* is to maintain health and to get rid of any diseased condition (1). To achieve this aim one has to understand the basic formative elements of human body i.e. *Dosha*, *Dhatu* and *Mala* (2).

Human body is microcosm which is a representation of macrocosm. *Panchamahabhutas* are the basic formative elements of living human body(3). Under the assessment criteria in a patient, 10 different criteria are described in *Charak Samhita* (4). *Dhatusara Parikshana* or Assessment of *Dhatusarata* is one of them.

Sarata of any Dhatu is nothing but the purest form or part of that Dhatu (5). It is the essence of best virtues of that Dhatu. For examination of patient Dhatusaraparikshana is included in Dashavidh Pariksha (10 assessment criteria) in Charak Samhita. All these assessment criteria help us to assess the Bala(6)i.e. strength of the patient or the immune power of that individual to fight against the disease. Strength or immunity of an individual should not be correlated with the body volume, is the

main concept, upon which Samhitakar wants to focus. To elaborate this concept they have given an example of an ant, who can lift up the weight, manifold of its own weight, which is applicable in humans also. Even a person of medium or lean built can do the tough jobs which are apparently not expected from him. Therefore to assess the inner strength of a person Sara Pariksha (assessment of Dhatusaratva) is recommended by Acharya Charak in Vimaansthana under Dashavidha Pariksha (10 criteria of assessments).

Selection Of Subject:

In *Charak Samhita*, "*Sara Parikshana*" is described in 3rd section *Vimaansthana* 8th chapter (7)where as in *Sushrut Samhita* it has been described in 1st section *Sutrasthana* 35th chapter(8). Incomplete description is available in *Kashyapa Samhita* also (9).

In all *Samhitas* description of *Sarata* concept is in broad sense, one has to unfold their hidden meanings. In *Samhitas* no objective parameters are described while describing the concept, so establishing new parameters is the prime aim of the study.

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Sarata or the excellent qualities of the tissues of the body are highly influenced by genetic factors. Which, one inherits from father and mother. It is possible to enhance the Sarata or excellence of Dhatus

In foetus right from intrauterine life, prior to the birth or even prior to the conception. Any individual having poor qualities in Dhatus by birth can improve them by following proper diet regimen and medication.

Sarata Parikshana is recommended in pre marriage counselling for having physically and mentally better progeny, provided the compatibility of the partners is assessed before marriage. Sarata of both partners could be improved by improving their diet and advising diet supplements. Sarata or the qualities of *Dhatus*in particular of fetus could be improved by improving mother's diet and giving Rasayana Chikitsa.

In prophylactic period after any long term disease Sara Parikshana may help in rebuilding the body strength. By following recommended diet and specific Rasayana Chikitsa for specific Dhatu, one can regain the immunity sooner. Sara Parikshana gives clear vision about the individual's exclusive physical and mental abilities. This enables the physician to provide vocational counselling to that individual considering his interest of work and also his own mental, physical abilities to cope up with the demands of work pattern. Majja is a deeper (gambhir) dhatu. It is associated with higher mental faculties and abilities (10) so to observe the occurrence of Majja Sarata in general population is www aii also the aim of the study.

Aim:

To observe occurrence of Majja Sarata in common population.

Objectives:

- 1) To elaborate the meaning of concept of Sara
- 2) To grade the characters described under *Majjasarata* in all important depending upon their exclusiveness
- 3) To objectivise the characters mentioned in Majjasarata

Materials & Methods:

1.Literature search:

Brihattrayi, Laghutrayi, modern texts were searched wherever necessary.

Taking help of all the important treatises proforma for Dhatusara Parikshana was designed. According to that proforma total 17 characters were found in Majjasarata (11) among which 8 were exclusively in Majjasarata, 5 were common in Majjadhatu and one more Dhatu and 4 were found common in more than two Dhatus.

Based on these findings classification and evaluation was done of all these 17 characters. In the first classification of 8 characteristics which were found exclusively in Majjasarata were given 4 points each so total of all 8 points in this group was 32 points.

In second classification of characteristics, being present in Majja and one more Dhatu were given 2 points each so total points of this group of characteristic was 10.

In third classification of characteristics present in more than two *Dhatus* along with *Majja Dhatu* were given 1 point each so total of this group of characters was 4.

Thus the sum total of all points in three groups was 46 points.

Table No 1

T	All the second	
Characteristics	Characteristics	Characteristics
only in <i>Majja</i>	common in	common in mor
Sarata (carries	Majja & one	than two
4 points each)	more <i>Dhatu</i>	Dhatusalong wit
-1 CO1	(carries 2 points	Majja Dhatu
ournal.com	each)	(carries 1 poi
		each)
1.Mrudwang	1.Gambhirswara	1.Balwant
2.Sthulasandhi	2.Saubhagyopap	2.Snigdhavarn
	anna	а
3.Deerghasandh	3.Deerghayushy	3.Snigdhaswar
i	а	
4.Vrittasandhi	4.Apatya bhaj	4.Vitta bhaj
5.Mahanetra	5.Sanman bhaj	
6.Shruta bhaj		
7.Vidnyanbhaj		
8.Akrusham		
Total of all points	Total of all	Total of all
- 32	points - 10	points – 4

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2.Sample size : 100 subjects of either sexes were randomly selected for the study.

3.Type of study : Prospective observational study.

4.Study site: surrounding area.

5.Criteria for selection of subjects:

Inclusion criteria -

a. Age: in between 20 - 40 as this period of age is considered as the age of complete growth of *Dhatus*by *Acharya Charak* and *Sushrut*(12).

b. Sex : of either sexes

c. Community: Indian

d. Socio economic class: Higher middle class

e. According to diet: mix diet (veg & non veg)

Exclusion criteria:

a. Below 20 & above 40 years of age

b. Pregnant ladies

c. Any major illness

6. Plan of study:

- a. Two proforms were created one for general Sara Parikshana of all Dhatusand the other for observation of Majjasarata
- b. Prior written informed consent was taken of all included participants.

7. Criteria for Assessment:

For the assessment of *Dhatu Sarata* a specially designed proforma was used. This proforma was consisting all the characters of all the *dhatus*. By this proforma general *Sara Parikshana* was done of all participants. After assessing by this proforma for general *Dhatusarata*, all participants were assessed especially for *Majjasarata*in whom it was present by minimum or maximum limit.

Participants having minimum 1 character and maximum all (17) characters of *Majjasarata* were considered as *Majjasara* individual.

This is a prospective observational study for which 100 healthy individuals of either sexes were taken between the age group of 20 to 40, as this age span is considered as the age of complete growth of *Dhatus*(12).

For *Sara Parikshana* a standard proforma was used to see whether the individual is having *Majjasara Lakshana* or not.

If participant were found having even minimum 1 character was considered as *Majjasara*. If the participants were found *sara*in other *Dhatus*

than *Majja Dhatu* also were mentioned accordingly in proforma.

Assessment of *Sara Lakshana* in proforma was done by *Darshana* (by observation), *Sparshana* (by touch) and *Prashna* (by interrogation)(13). Various instruments and objects like Measuring tape, Verniercalliper, Til oil etc. were used to assess the characters described in *Samhitas*. Memory test and IQ test were done with the modern methods adopted from modern tests in Psychiatry as *Majjasarata* is associated with higher mental, intellectual abilities.

In Sarata Parikshana characteristics like Sthulasandhi (broad joints), Deerghasandhi (elongated joints), Vruttasandhi (joints which are round in shape) were assessed in knee joint with the help of measuring tape as it is a major weight bearing joint of the body.

Measurements of Lalat (forehead), Hanu(chin), Greeva (neck), Skandh (shoulders),, Gulfa (ankle joint), Shir (head circumference), Aratni (length between tip of elbow joint and tip of extended middle finger) were measured by measuring tape. Danta (teeth), netra (occular bony orbit), Parva (carpal,metacarpal joints) were measured by using Verniercalliper.

Snigdhata (unctuousness) of body was assessed by *Til* drop test for which drop of *til*oil was dropped on outer surface of palm on marked area by pen. Absorption time of oil was observed. Depending upon *Snigdhata* in body, oil will take less or more time to get absorbed.

Many characteristic in *Sara Parikshana* were done by *DarshanaPariksha*(by observation) e.g. skin texture, lustre, complexion, body hair distribution in *Rasa Sara*, coppery red complexion, lustre in *Rakta Sara*, tone of the body, built and musculature of the body in *Mansa Sara*, lustre and unctuousness of skin, hair,teeth,voice in *Meda Sara*, prominent eyes, lustre in eyes in *Majja Sara*, milky white teeth, eyes lustre of skin, melodious voice in *Shukra Sara*.

Some characteristics in *Sara parikshana* are observed by *Prashna*or interrogation e.g. strength of body, tolerance to hunger, heat, physical hardships; recognition of work in life,libido,any diseases etc.

Skin,hair - softness, texture, warmth; firmness, compactness of bones and muscles etc are examined by *Sparshana* i.e. by touch.

Characteristic of *Sarata* like *Shrutbhaj*, *Vidnyanbhaj*, *Sanmanbhaj*, *Saubhagyopapanna* were tested according to their academic status and the achievements in life.

Following are the anthropometrical measurements done either by measuring tape or by Verniercalliper.

Table No2

Sr. No.	Body part	Anatomical markings for Measurement Of Bodyparts	Average measurement
1	Lalat	Distance between hairline and upper edge of eyebrow	3.4 cms
2	Danta	Length and width of upper incisors	A-1.24 cms V- 1.10 cms
3	Netra	Length and width of bony orbit	A-3.46 cms V- 3.34 cms
4	Sandhi	Length and width of knee joint –length between upper and lower border of patella and width is distance between lateral and medial condyles	C- 34.22 cms A- 13.32 cms V-14.43 cms
5	Sharir	Aayam –height between highest point on head and planter surface of foot in standing position Vistaar- If hands are spread at shoulder level in erect position length between the two middle fingers of hands	A- 160.64 cms V- 163.08 cms
6	Hanu	Gher(circumference)-circumference of head at tempero- mandibular joint Vistar(width) – circumference of jaw at mandibular angle	A- 26.90 cms V- 25.79 cms
7	Greeva	Circumference of neck at midpoint	32.56 cms
8	Skandha	Distance between the base of neck and acromioclavicular joint	13.93 cms
9	Parva	Width between metacarpo phalangeal joints of first 4 fingers of palm except thumb	5.67 cms
10	Aratni	Length between Olecranon tip and tip of stretched middle finger of fore arm	24.27 cms
11	Gulfa	Circumference of ankle joint at the tips of lateral and medial malleolus	23.92 cms
12	Jatru	Length of sternum	19.27 cms
13	Parshni	Circumference of heel	24.45 cms
14	Shir	Circumference of skull at temporal level	52.95 cms
15	Shankha	Distance between lateral edge of orbit and tempero-mandibular joint	1.17 cms
16	Ganda	Distance between the maxillary prominences	2.20 cms

These are the average anthropometrical measurements. Individuals having 2+ measurement was assumed as having big measurements or *Maha* and 2- was interpreted small or *Alpa*.

As there are no standard known measurements according to *Ayurvediya* surface anatomical markings, average of each measurement was taken for comparison.

Observation

In study population, among 100 individuals 56 were male and 44 were females. Participants of the study were found predominantly *Rasa*, *Rakta*, *Mansa Sara* and rarely *Asthi* and *Shukrasara* in combination with other *sara*.

No individual was found exclusively Majjasarabut range of characteristics from Majjasarata were found in almost all individuals.

According to the occurrence of *Majjasarata* characteristics points were given to them depending upon the exclusiveness of the characteristic, as described in methodology. Percentages of the total points were obtained in each individual.

According to following range of percentage *Uttam, Madham, Alpa* and *Asarata* was decided (14).

Table No 3

UttamSarata	Points above 70 %	
MadhyamaSarata	Points between 40 -70 %	
AlpaSarata	Points below 40 %	
Asarata	0 points / no characteristics atall	

Among all 100 participants nobody was *Uttamsara* (*Majjasarata* percentage above 70%), 11 individuals were *Madhyamsara* (*Majjasarata* percentage between 40-70%) and 89 individuals were found *Alpasara* (*Majjasarata* percentage below 40%) according to accepted range.

Table 4. Occurrence of *Sarata* of *Dhatus* in study population.

Sr No	Sarata Observed	No. of Individuals
1	Rasa sarata	10
2	Rasa raktasara	6
3	Rasa mansasara	16
4	Rasa shukrasara 🕡	4
5	Raktasarata	1
6	Rakta rasa s <mark>a</mark> ra	4
7	Raktamansasara	3
8	Raktashuk <mark>r</mark> asara	1
9	Mansa sarata	16
10	Mansa ras <mark>a</mark> sara	8
11	Mansa raktasara	5
12	Mansa asth <mark>i</mark> sara	6
13	Mansa shukrasara	2
14	Asthisarata \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1
15	Shukramansasara	1
16	Not specific	16
Total No.		100

As said earlier nobody from study population was very clearly *Majja Sara* but at the same time all participants showed more or less *Majja Sara* characters. These *Majjasara* characters from all the participants were assessed giving them points or marks based on their exclusiveness.

From this table it's showing that in population of 100 individuals majority were of *Rasa Mansa Sara* or *Mansa Sara* (16 each), *Rasa Sarata* (10), *Mansa Rasa Sarata* (8). All other types of *Sara* are seldomly observed.

Discussion:

Health is not just merely disease free condition of the body but one also need to have healthy positive mind with it, which is collectively called Positive health. To achieve this positive health *Saraparikshana* is useful, because it gives you perfect understanding of strength or immunological status of the seven *Dhatus* in the body, and can be improved if lacking.

As mentioned earlier *Dhatusarata* is described under 10 Assessment Criteria i.e. *Dashavidha Pariksha* of a patient. Though it's an assessment of *Rugna* can also be used to assess a healthy individual as it is a parameter to assess strength of a person. Strength in terms of immunity of any *Dhatu* is very necessary to know for a physician as if it is lacking, can be boosted giving proper diet regimen and *Rasayan Chikitsa*. It is equally important to know it (*Dhatusarata*) to maintain the health and to correct if short.

This study is an attempt to objectivise the criteria of *Majjasarata* described in different treatises is mainly through different objective tests (such as *Snigdhata* test withtil oil, psychological test for IQ memory) and also anthropometric measurements of the study individuals. These are very basic tests used in this study as we could not find any established tests for the same. If these tests would be improvised to higher level results would be better.

Some anthropometric measurements as *Mahanetra* and *Sthula –Deergha –VrittaSandhi* which are signature characteristics of *Majjasarata*needs a really larger population to set the standards, as it's very hard to decide them with such a small study population.

All the participants were from higher socio economic background and highly qualified. Still the percentage of *Majjasarata*is very low than expected. Majjadhatu and Majjasarata is associated with high intellectual quotient and high mental abilities. The participants though having good academic background, it's not reflecting in the results. MajjaSarata might be expecting very intellectual scores or high mental skills. The tests used to objectivise this intellectual quotient were very basic. Higher IQ tests might improve the assessment of IO of the participants.

The group of participants included in the study was a mix group of individuals comprising from a house wife to self-made intellectuals, this reason might have affected the quality of the results. Study in specific class of individuals eg. General

Practicing Doctors, businessmen, surgeons, singers may give us different insights in the subject of *Majja Sarata*.

Study population was limited to 100 individuals in this study, further in larger population same study could be done to get more accurate results and more occurrence of *Majja Sarata*.

Sarataof any Dhatu is assessed in two ways, All objective quantitatively and qualitatively. parameters assessing mainly physical characteristics of the person i.e. Sthulata, Deerghata, Vrittata of Sandhi or Mahanetra fall in quantitative parameters whereas Vidnyanbhajata, Shrutbhajata are more qualitative in nature though attempt has been done to bring objectivity in them. In Majjasarata along with quantitative characteristics much emphasis has to be given to qualitative characteristics as they are quite distinguishing characteristics of *Majjasara*. More accurate and elaborative parameters should be applied objectivise Vidnyanbhajata and Shrutbhajata.

Majjasarata has very exclusive characteristics, especially associated with high IQ level or having very unique abilities of mental and intellectual faculties which can be called as *Dhee*, Pradnya, Medha in Ayurvediya terminology. Though this Dhatu is being associated with higher intellectual abilities, physical characteristics (like Mrudwang, Sthulasandhi, Deerghasandhi, Vrittasandhi, Mahanetra, Akrusham) are major distinguishing characteristics of *Majjasarata*. More accurate anthropometric standards may give us proper direction to the interpretation of Majjasarata.

More extensive and accurate anthropometric parameters and IQ tests can throw more light on the meanings of characteristics described under *Majjasarata* and also will help to enhance it's applicability.

Conclusion:

Majja Dhatu by order is 6thdhatu, is called 'gambhir' (deeper) dhatu. That might be the reason, Sarata of this Dhatu has very rare occurrence. In this study 100 participants were screened for generalSara Parikshana. Among them only 12 individuals were found having Madhyam Majja Sara Lakshana. Remaining 88 fell in category of Alpa Majja Sara individuals.

If analysed having the distribution of Majja Sara lakshana according to their exclusiveness (in group of Madhyam Sara individuals), one can observe that most of the participants in this group show above 80% of occurrence of exclusive characteristics. It means they are Madhyam Sara individuals showing very high occurrence of exclusive Majja Saralakshana. So the quality of their Majjasarata is definitely superior.

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