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EVALUATION OF PRAKRUTITAHA PAREEKSHA ATTRIBUTES IN MADHUMEHA ROGI (DM T2)

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ABSTRACT

Ayurveda propagates the knowledge of *Desha, Kala*, one's *Prakriti* and *Achara* (good conduct) as essential for health and its assessment. *Prakriti* is the fundamental of a human body. At the time of zygote formation, individual's physiological and psychological tendencies would be fixed. *Prakrititha Pareeksha* is explained under *Rogi Pareeksha*. A clinical evaluation of *Prakriti* attributes was carried out on 120 *Madhumeha* (Diabetes Mellitus Type 2) patients using *Susrutha* Prakriti Inventory Questionnaire (SPI-Q) Part-1 for non-physical attributes which include physiological, psychological, social, intellectual and spiritual domains. This observational study was done with single sitting interview where assessment and collection of data on all five domains of non-physical attributes of *Prakriti* were undertaken using a total of 90 questions. This article throws light on the *Gunas* and reasons influencing each non-physical attribute of *Prakriti* available in different Ayurvedic treatises. On evaluation of complete data, it was found that maximum *Madhumeha Rogis* were of *Kapha Prakriti* in all the domains, except physiological domain and least number of *Madhumeha Rogi* were of *Vata Prakriti* in all the 5 domains.

KEYWORDS: Prakrititha Pareeksha, Prakriti, Non-physical attributes, Madhumeha Rogi.

INTRODUCTION

The Prakriti is the inherent balance resulted by the influence of three Doshas evoked during the union of Shukra and Shonitha. At this moment of creation, the individual's physiological and psychological tendencies would be fixed. Ayurveda propagates the knowledge of place, time, one's *Prakriti* and good conduct as essential for health and its assessment. Therefore, Prakriti has to be utilised as first step in clinical evaluation. Prakrititha Pareeksha is one among the Dashavidha Pareekshas and explained under Rogi Pareeksha. Here an attempt is made to identify the *Prakriti* attributes i.e physiological, psychological, social, intellectual and spiritual aspects in Madhumeha (Diabetes Mellitus Type 2) patients. Disease Madhumeha (Diabetes Mellitus Type 2) is selected as it is a global problem and a metabolic disease caused mainly by lifestyle. Madhumeha is a type of Vataja Prameha and is one among the Ashtamahagada.

MATERIALS AND METHODS

This is a single sitting interview observational study conducted at Ayurveda hospital in Hassan after

collecting written consent from the patient with the aim to evaluate physiological, psychological, social, intellectual and spiritual aspects of Prakriti by Prakrutitaha Pareeksha in 120 Madhumeha patients fulfilling diagnostic and inclusion criteria. A specially designed case proforma with assessment and questionnaire [Sushrutha Prakriti Inventory Questionnaire (SPI-Q) Part-1] for non-physical characteristics with 90 questions was used. The following WHO diagnostic criteria for Diabetes Mellitus was considered. Fasting plasma glucose >126mg/dL or Random plasma glucose>200mg/dL or 2- hour plasma glucose > 200mg/dL along with Prabhuta Mootrata (Increased frequency) and Madhura Mootrata (Positive for urine sugar). Patients between 30 to 70 years of age irrespective of gender; willing to participate in study and sign the consent form were included. Diabetes Mellitus Type 1; pregnant and lactating women; patients not having Prabhuta Mootrata and Madhura Mootrata, Diabetes Mellitus Type 2 with complications or any other systemic disease that may interfere in the course of study were in exclusion criteria.

RESULT
Table 1: Distribution of data based on descriptive statistics of *Vata Prakriti* assessment using *Sushrutha Prakriti*Inventory Questionnaire (SPI-Q) Part-1.

Q.	Questions	Present			sent	Total	
No		No.	%	No.	%	No.	%
	ons connected to non-physical characteristics of Vata Prakriti assessme	ent (V=	Vata)				
PHYS	IOLOGICAL DOMAIN						
V1	Shighra Samaarambha - Generally, I am quick in initiating activities	92	76.7	28	23.3	120	100
V2	Drith Gati - Generally, I walk fast and can withstand long walk	74	61.7	46	38.3	120	100
V3	Kryathi - I snore during sleep	65	54.2	55	45.8	120	100
	Bahutwad Bahu Pralapa - I speak continuously						100
V4	without interruption	53	44.2	67	55.8	120	100
V5	Shaitya Sheeta Asahishnutha - Generally, I cannot tolerate and often afflicted by cold	50	41.7	70	58.3	120	100
V6	Madhura Amla Lavana Ushna Satmya Akansha - I like & feel comfortable with Sweet or Sour or salty or Spicy or Hot Oily Foods	48	40	72	60	120	100
V7	Parushyat Pani-Padah - My palms & soles are cracked	36	30	84	70	120	100
V8	Sphuttitha Gatraha - My skin is dry	31	25.8	89	74.2	120	100
V9	Sighra Vikara - I am prone to frequent illness	29	24.2	91	75.8	120	100
V10	Bahu Kandara Sira Pratanah - I have prominent veins on my skin	28	23.3	92	76.7	120	100
V10	Sphuttitha Kesha - I have split hairs	27	22.5	93	77.5	120	100
V12	Supthe Sheiladrumasthe Gaganum Ch Yanthi - My dreams generally consist of walking or Flying in the air or Dried reservoirs	14	11.7	106	88.3	120	100
	or Climbing mountains						
V13	Alpa Nidra - Generally, my sleep is shallow and short	14	11.7	106	88.3	120	100
V14	Alpa-bala - I have less strength	10	8.3	110	91.7	120	100
V15	Pratata Ruksha Shama Sanna Sakta Jarjara Svara - My voice is hoarse(rough) in nature	10	8.3	110	91.7	120	100
PSYC	HOLOGICAL DOMAIN						
	Priyatva Samsvedanena Ativimardanena Shokyum Samma						
1116	Gachathi - I feel comfortable	101	04.2	10	15.0	120	100
V16	with oil massages & steam bath	101	84.2	19	15.8	120	100
1717	Cala Chesta - I often fall prey/yield to my	0.1	<i>(7.5.</i>	20	22.5	120	100
V17	temptations	81	67.5	39	32.5	120	100
V18	Shighra Kshobha - I am prone to get upset	79	65.8	41	34.2	120	100
V19	Mrugaya Kalikolaha - I am fond of daring activities like hunting	67	55.8	53	44.2	120	100
V20	Shigra Trasa - I cannot tolerate mental stress	65	54.2	55	45.8	120	100
	Jagaruk Ashca - I have tendency for awakening	44					
V21	with a fright		36.7	76	63.3	120	100
V22	Savilasi - I am fond of luxuries & pleasures	42	35	78	65	120	100
V23	Shighra Raga Viragah - I have a tendency of getting attached and detached with relationship quickly	40	33.3	80	66.7	120	100
V24	Dosha Atmakaha - I feel like complaining without apparent reasons sometimes	9	7.5	111	92.5	120	100
SOCT	AL DOMAIN						
V25	Cala Sohaardh - I keep changing friends	35	29.2	85	70.8	120	100
		33	29.2	65	70.8	120	100
V26	LLECTUAL DOMAIN Shighra Grahi I am quick in grasning things	0.4	79.2	26	21.7	120	100
	Shighra Grahi - I am quick in grasping things	94	78.3	26	21.7	120	100
V27	Cala Buddhi - My decisions are unpredictable	63	52.5	57	47.5	120	100
V28	Alpa Smriti - I am relatively bad at remembering old events	39	32.5	81	67.5	120	100
V29	Alpa Smriti - Generally, I forget things quickly	32	26.7	88	73.3	120	100
SPIRI	TUAL DOMAIN						
V30	Nasthika - I am an atheist (Non believe of God)	13	10.8	107	89.2	120	100

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Table 2: Distribution of data based on descriptive statistics of *Pitta Prakriti* assessment using *Sushrutha Prakriti* Inventory Questionnaire (SPI-Q) Part-1.

Q.	tory Questionnaire (SPI-Q) Part-1.	esent	Absent		Total		
No.	Questions	No.	%	No.	%	No.	%
	ons connected to non-physical characteristics of <i>Pitta Prakriti</i> assessn			110.	70	110.	
	OLOGICAL DOMAIN		1 1000)				
P1	Purisha Srishta - Generally, my stools are easy & Soft	106	88.3	14	11.7	120	100
D2	Tikshna Parakramah - Generally, I am quick in	00	72.2	22			100
P2	my activities	88	73.3	32	26.7	120	100
Р3	Bhavantya Ushna Asaha - I cannot tolerate hot weather and food items	70	58.3	50	41.7	120	100
P4	Bhuya Ucchaara - I have loud voice	67	55.8	53	44.2	120	100
P5	Ushna Anga - Generally, my body is warm	67	55.8	53	44.2	120	100
P6	Prabhuta Svedam - Generally, I sweat more	66	55	54	45	120	100
P7	Pipasa Vantah - Generally, I drink liquids more and often	65	54.2	55	45.8	120	100
P8	Kshutaantah - Generally, my hunger is more and I eat in large quantity	64	53.3	56	46.7	120	100
P9	Krodhena Madhyena Raveshchabhasa Ragam Vrjantya shu Vilochanani - My eyes become quickly red on exposure to anger/liquor/sunlight Visratvaat Prabhuta Puti Kaksha Asya Shira Sharira Gandhah -	47	39.2	73	60.8	120	100
P10	Generally, I sweat with bad smell	32	26.7	88	73.3	120	100
P11	Madhya Bala -I have moderate strength	30	25	90	75.5	120	100
P12	Malya Vilepana - I am fond of perfumes and like to be decorative	28	23.3	92	76.7	120	100
P13	Bhounkthe Annam Madhura Kashaya Tikta Sheetam - I like & feel comfortable with Sweets or Bitter or Astringent or cold food	26	21.7	94	78.3	120	100
P14	Dravatv Shithila Mrudu Sandhi Mamsah – My body parts are flaccid (Loose)	25	20.8	95	79.2	120	100
P15	Pashyethkarnikaran Palashna Digdaholoka Vidhyuth Arkanalam Seha - My dreams generally consist of Gold or Fire or Forest flame or Lightning or Thunder bolts or sun	19	15.8	101	84.2	120	100
P16	Kesha Karab - My hairs are curly	16	13.3	104	86.7	120	100
P17	Mukha Sada Vyathitta Aasya Gathi - I am prone to frequent mouth ulcer	15	12.5	105	87.5	120	100
P18	Kapila Varna Kesha - My hairs are coppery in color	13	10.8	107	89.2	120	100
PSYCI	HOLOGICAL DOMAIN						
P19	Sthutipriya - I have been flattered/praised	108	90	12	10	120	100
P20	Na Bhayat Pranamedhanatheshu Amruduh - I am bold and capable of facing any circumstances	87	72.5	33	27.5	120	100
P21	Tikshno Api Kopi KshaNa Bhungushcha - I get angry very easily but calm down easily too	85	70.8	35	29.2	120	100
P22	Eshana - I like going into the depth of matter	82	68.3	38	31.7	120	100
P23	Pranteshu Api - I am unforgiving with people who compete with me	48	40	72	60	120	100
P24	Bhuya Irsha - I find it difficult to control my jealousy/envy	21	17.5	99	82.5	120	100
SOCIA	L DOMAIN						
P25	Ashritha Vatsala -I am generous with people who are loyal	110	91.7	10	8.3	120	100
P26	Vibhava Sahasa Buddhi - I am adventurous	80	66.7	40	33.3	120	100
	LECTUAL DOMAIN	1	ı	1	T		
P27	Vigruhya Vakta - I am good at debates and arguments	79	65.8	41	34.2	120	100
P28	Buddi Balanvithou - I am valued for my scientific temper	75	62.5	45	37.5	120	100
P29	Nipuna Mati, Medhavi - I am known as an intelligent/skilful person	58	48.3	62	51.7	120	100
P30	Shoor - People admire me as a brave person	51	42.5	69	57.5	120	100

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Table 3: Distribution of data based on descriptive statistics of Kapha Prakriti assessment using Sushrutha

Prakriti Inventory Questionnaire (SPI-Q) Part-1.

Q.	O di		Present		Absent		Total			
No.	Questions	No.	%	No.	%	No.	%			
Questions connected to non-physical characteristics of Kapha Prakriti assessment (K=Kapha)										
	IOLOGICAL DOMAIN									
K1	Neela Kesha - My hairs are black in color	102	85	18	15	120	100			
K2	Balavanta - I have good strength	91	75.8	29	24.2	120	100			
К3	Klesha Garma Tapto - I can withstand difficult	91	75.8	29	24.2	120	100			
	situations		70.0			120				
	Tikta Kashyam Katu Ushna Rooksha Alpa Sa Bhunkthe -									
K4	I like and feel comfortable with spicy or hot food or bitter or astringent or dry food	87	72.5	33	27.5	120	100			
K5	Nidralu - Generally, I sleep for long duration	76	63.3	44	36.7	120	100			
	Staimitya Da Vikarah - Generally, I do not fall									
K6	sick easily	68	56.7	52	43.3	120	100			
17.7	Prasanna Snigdha Swara - My voice is pleasant	CO	567	50	12.2	120	100			
K7	and soothing	68	56.7	52	43.3	120	100			
K8	Shaitya Alpa Kshut - Generally, I am not	60	50	60	50	120	100			
Ko	affected/disturbed by skipping meal	00	30	00	30	120	100			
K9	Alpa Trushna - Generally, I drink less liquid and	57	47.5	63	52.5	120	100			
	can withstand thirst for a long period	-								
	Swapne Sapadma Hamsa Vihanga Malo Toyasheyan									
K10	Paschyati Toyadamscha - My dreams generally consist of Lotus in the pond or	56	46.7	64	53.3	120	100			
KIU	Rows of Swans or ducks or Clouds	30	40.7	04	33.3	120	100			
K11	Alpa Santapa Swedha - Generally, I sweat less	45	37.5	75	62.5	120	100			
K12	Snigdha Anga - My skin is Oily/Moist	40	33.3	80	66.7	120	100			
	Manda Cheshtah - Generally, I am slow and	22								
K13	steady in my activities	32	26.7	88	73.3	120	100			
K14	Deerga Roma - I have more body hairs	25	20.8	95	79.2	120	100			
	HOLOGICAL DOMAIN									
K15	Trupti - I am content with what I have	111	92.5	9	7.5	120	100			
K16	Shradha - I am righteous and duty bound	107	89.2	13	10.8	120	100			
K17	Kshamavan - I like to forgive	98	81.7	22	18.3	120	100			
K18	Gurutvat Saraadhi Shthit Avasthita - I can withstand difficult situations	91	75.8	29	24.2	120	100			
	Sangeetavadyo Sheelah - I am fond of music /									
K19	musical instruments	89	74.2	31	25.8	120	100			
	Shanta Vanta - I am generally calm and									
K20	composed	78	65	42	35	120	100			
W21	Staimitya Da Shobha - My understanding of	7.4	(1.7	1.0	20.2	120	100			
K21	situations is consistent and stable	74	61.7	46	38.3	120	100			
K22	Manda Cheshtah - Generally, I walk slowly	41	34.2	79	65.8	120	100			
K23	Drid Veer - I have tendency towards strong	29	24.2	91	75.8	120	100			
	enmity/concealed enmity				, , , ,	120				
SOCI	AL DOMAIN		1		1					
K24	Bhakto Gurunam- I have respect to my teachers and friends	115	95.8	5	4.2	120	100			
K25	Sthira Sohrudayat - I have stable friendship	94	78.3	26	21.7	120	100			
	Sleshmastena Soumyo - People consider me as									
K26	soft natured	85	70.8	35	29.2	120	100			
INTE	LLECTUAL DOMAIN	1	1		1	I				
K27	Smritiman - I have good and lasting memory	104	86.7	16	13.3	120	100			
K28	Satatam Parinishchita Vakya Padah - I usually	81	67.5	39	32.5	120	100			
	speak after an intense deliberation									
K29	Chir Grachi - I take time to grasp things	70	58.3	50	41.7	120	100			
K30	Sthula Lakshaya - I am very good at academics	29	24.2	91	75.8	120	100			

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DISCUSSION

The Sushrutha Prakriti Inventory Questionnaire (SPI-Q) Part-1 consists of 90 questions which include 5 domains divided into 3 tables of 30 questions each covering Vata, Pitta and Kapha to assess non-physical attributes of Prakriti of Madhumeha patients which are explained below:

Table 1- The Questionnaire of *Vata Prakriti* assessment is divided into five domains namely-physiological, psychological, social, intellectual and spiritual which are as follows.

I) Physiological domain: Here the maximum number of patients are covered vide Shighra Samaarambha (O.No.V1)- where the individual will start off with any type of work immediately or with swift and hasty initiation. [1] Drith Gati (Q.No.V2)- for these persons who are always quick in movement and Sighra Vikar (Q.No.V9)- for these who are more prone for morbid manifestation. For all the above three questions Shigra Guna of Vata Dosha is responsible. [2,1] The following four questions probe into Ruksha and Laghu properties -(i) Kryathi (Q.No.V3) could be analyzed by an example: when clapped with the hands, it produces echo which is a reflection of sound. [3] The formation of *Vata dosha* is by the involvement of Vayu and Akasha which is Apratigata producing snoring sound; (ii) Supthe Sheiladrumasthe Gaganum Ch Yanthi (Q.No.V12)- covers individuals who feel like falling or floating in air or raised above the land level in their dreams. [4] (iii) Alpa Nidra (Q.No.V13) covers patients with short sleep and lesser period of time. (iv) Pratata Ruksha Shama Sanna Sakta Jarjara Svara (Q.No.V15)- covers patients having a high rate of voice flow, broken, poor quality, sunken, obstructed/ unclear and hoarse voice. [4,1] The Bahu Guna of the Vata Dosha is the reason behind Bahutwad Bahu Pralapa (Q.No.V4) and Bahu Kandara Sira Pratanah (Q.No. V10), where individuals are highly talkative in nature (V4) and have abundance of tendons and veins which are well distinguished (V10) respectively. [1] Both Sphuttitha Gatraha (Q.No.V8) and Sphuttitha Kesha (Q.No.V11) are mainly due to Ruksha property making the skin surface cracked (V8) and resulting into splitting of hair (V11) respectively. [4] Shaitya Sheeta Asahishnutha (Q.No.V5) - is due to Shaitya Guna where the individuals unable to bear cold, resulting into shivering and stiffness of the body. [1] Madhura Amla Lavana Ushna Satmya Akansha (Q.No.V6) - in the context of Dosha and Rasa relationship explained by Acharya Vagbhata is "Tattraadhya Maaruthum Ghnathi" which means 1st three Rasas (Swadhu, Amla, Lavana) help in decreasing the vitiated Vata Dosha, making them feel comfortable and desire to have more sweets or sour & salty or spicy & hot food(V6). [4,1] Parushyat Pani-Padah (O.No.V7) is the result of Parusha Guna where roughness is seen in hands and foot.[1] Alpa-bala (Q.No.V14) is seen in Vatala type of constitution, because of all qualities of Vata Dosha which are rough (Ruksha), light (Laghu), mobile (Chala), abundant (Bahu), swift (Shigra), cold (Sheeta), coarse (Parushya) and non-slimy (Vishada) (V14).[1]

- II) Psychological domain: Here maximum subjects have accepted Priyatva Samswedanena Ativimardanena Shokyum Samma Gachathi (Q.No.V16). Referring to quote on benefits of Abhyanga "Abhyangum Achareth Nithyum Sa Jara Srhama Vatah", the daily practice of Abhyanga reduces ageing, exertion & Vata (aggravated), thereby the person with Vata constitution feels relaxed & comfortable with oil massage (V16). [5,6] The reason for both Cala Chesta (Q.No.V17) and Mrugaya Kalikolaha (O.No.V19) is Chan-Cala Swabhava of Vata. This makes the individual mind inconsistent even with their actions (V17) and showing daringness in the beginning of an activity but later he fears & steps back (V19). [4] The Shigra Guna of Vata Dosha is responsible for the patients falling under Shighra Kshobha (Q.No.V18), Shigra Trasa (Q.No.V20) and Shighra Raga Viragah (Q.No.V23). Here the individuals swiftly get sad or agitated(V18);^[1] Unable to tolerate mental stress - in the words of Acharya Charaka "Sharirum Hyapi Satva Manu Vidiyathe Satvum Ca Sharirum" manas will behave just like Sharira & vice versa(V20),[7] and are quick in affliction with fear, likes and dislikes respectively (V23). Jagaruk Ashca (Q.No.V21) is due to influence of Ruksha Guna - they always get frightened and wake up. [1] Savilasi (Q.No.V22) - here luxuries act as Vata Shamaka and Kapha Vriddhi which makes the person feel nice (V22). [4] Least number of patients with Dosha Atmakaha (Q.No.V24)- mainly due to Vatah Rajo Bhuista Guna means Vata possess Rajo Guna as Rajaiska type of individuals are having dominating character where they try to exhibit their power by pinpointing others drawbacks. [4,7,8]
- III) Social domain: *Cala Sohaardh* (Q.No.V25) is mainly due to the *Cala Guna* which makes the person more fickle minded and prompt themselves to change friends. ^[4]
- IV) Intellectual domain: The *Shigra Guna* is the reason for following three questions namely *Shighra Grahi* (Q.No.V26); *Alpa Smriti* (Q.No.V28 and Q.No.V29), as their mental capacity of understanding anything is always quick (V26) as also they are quick in forgetting owing to poor memory retention (V28 & V29). The *Cala Buddhi* (Q.No.V27) is root cause for unstable decision making. While referring to *Shrimad Bhagavad Geetha* and correlating *Manas* with *Vayu* which are both of *Chan-Cala Swabhava*, it is very difficult to control both. [4,9]
- V) Spiritual domain: *Nasthika* (Q.No.V30) is due to *Cala Guna*, which makes the persons mind unstable & he doesn't believe in anything strongly.^[4]

Table 2- The Questionnaire of *Pitta Prakriti* assessment is divided into four domains namely-physiological, psychological, social and intellectual domain as under.

Physiological domain: The following three questions Purisha Srishta (Q.No.P1); Prabhuta Svedam (Q.No.P6) and Dravatv Shithila Mrudu Sandhi

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Mamsah (Q.No.P14) are mainly due to the Drava (liquid) property. (i) This facilitates the free and easy passage of urine and stools for the persons under this Prakriti. This can be understood by the quote "Kosta Kruro Mrudur Madyo Madyha Syathe Samerapy" as pitta has got influence on Kosta(P1); (ii) where the person's body puts out liquid in the form of excess perspiration(P6) and (iii) will be having looseness softness of joints & muscles (P14) respectively. [1,10] The Tikshna property, is the reason why pitta constituent people act sharp or perform their work with much intensity & quickness -Parakramah (Q.No.P2) Parakrami's, hence their voice will be bold/high Bhuva Ucchaara (O.No.P4).[1,4] The Ushnatva (Hotness) of Pitta dosha is responsible for the following four questions i.e. (i) Bhavantya Ushna Asaha^I (Q.No.P3)- Pitta Prakriti persons already have more internal body heat (Ushna) and they cannot take any more heat even from external environment; (ii) Ushna Anga (Q.No.P5)- More heat is produced in the body keeping the body parts warmer; (iii) Krodhena Madhyena Raveshchabhasa Ragam Vrjantya shu Vilochanani (Q.No.P9) exposure to these causes redness of eyes. And (iv) Kapila Varna Kesha (Q.No.P18) - these person will have brownish color hair. [1,4] The properties Ushna & Tikshna together influence following four questions (i) Pipasa Vantah (O.No.P7) - there will be plenty of intake of fluids by this type of people; (ii) Kshutaantah (Q.No. P8)- will have intense power;^[1] digestive (iii) Pashyethkarnikaran Palashna Digdaholoka Vidhyuth Arkanalam Seha (Q.No.P15) - these persons often dream of fire/ flame. [4] And (iv) Kesha Karab (Q.No. P16)- as Pitta Dosha is the reason for Paaka in cells, so Pitta is considered as Agni, E.g. when a hair is put in front of fire flame it shrinks into forming curly shaped. [11] Visratvaat Prabhuta Puti Kaksha Asya Shira Sharira Gandhah (Q.No.P10)- this is because of acrid nature of Pitta viz Visratwa, where the person has putrid fleshy smell in axilla, mouth, head & body (P10).^[1] According to Acharya Charaka, this constituent individuals have Madhya (Q.No.P11)- which has the following properties of Pitta i.e. Ushna(hot), Tikshna(sharply acting), Drava(liquid), Visra(fleshy smell), Amla(sour) and Rasa(pungent) (P11).^[1] According Sharangadhara, for Malya Vilepana(Q.No.P12)-Pitta is predominant of Rajas property which makes the person more interested towards materialistic things^[8] and increased desire and craving for much comforts (P12).[10] Bhounkthe Annam Madhura Kashaya Tikta Sheetam (Q.No.P13)- is in the context of Sadrasa & Dosha. Astanga Hrudaya says "Kashaya Tikta Madhurah Pitta Manyethu Kurvathe" meaning the three Rasas - Kashaya, Tikta & Madhura alleviate Pitta Dosha, hence they desire to have much more such type of food items (P13).[4,1] Mukha Sada Vyathitta Aasya Gathi (Q.No.P17)- is a type of disorder named *Mukha Paka* which is explained under one among the 40 types of *Pittaja Nanatmaja Vikara*. ^[2,12]

Psychological domain: Among the Sthutipriya (Q.No.P19) and Pranteshu Api (Q.No.P23) are mainly due to Rajas property where the persons have strong desire & determination to succeed, also making them to expect praises (P19) and their social relationships are harsh to those who do not yield to them (P23).^[5,4] The *Tikshna Guna* is the reason for *Na Bhayat* Pranamedhanatheshu Amruduh (Q.No.P20) and Eshana (Q.No.P22) where individuals are courageous to face a great danger (P20) and are investigative in nature (P22) respectively. [2,8] Both these *Rajas & Tikshna* property together make individuals short tempered Tikshno Api Kopi KshaNa Bhungushcha (Q.No.P21). Bhuya Irsha (Q.No.P24) is mainly due to the *Drava & Ushna Guna*, [4] which induce the individuals to have a feeling of envious resentment towards something/someone.

III) Social Domain: Ashritha Vatsala (Q.No.P25)-persons with this constituent are very affectionate to their dependents, due to Satva Guna predominance here. [4,13] This can be understood by people with Pitta Prakriti where Rajas will be predominant, Tama will be little less and Satva will be intermediate. Reference for intermediate Satva is Madhya Jnanam (Madhya Satva-Pitta Prakriti; Uttama Satva-Kapha; Avara Satva-Vata). [1] Jnana is nothing but Satva itself (P25). Vibhava Sahasa Buddhi (Q.No.P26) is due to Tikshna and Sara property making the individual daring, extremely challenging and adventurous in life (P26). [4]

IV) Intellectual Domain: The *Tikshna* and *Ushna* property are a cause for following three questions viz i) *Vigruhya Vakta* (Q.No.P27)- where they have sharp verbal communication and a hostile debater^[2] ii) *Buddi Balanvithou* (Q.No.P28) - they have a good IQ with good analytical skills regarding the subject and iii) *Nipuna Mati & Medhavi* (Q.No.P29) - brilliant and ambitious in life.^[4] Due to their sharpness these individuals are recognized for heroic courage *Shoor* (Q.No.P30).^[4]

Table 3-The Questionnaire of *Kapha Prakriti* assessment is divided into four domains namely-physiological, psychological, social and intellectual domain which are as follows.

Physiological domain: Here maximum subjects accepted Neela Kesha (Q.No.K1) as is the case with Indian hair. [4] Acharya Vriddha Vagbhata in his book "Astanga Sangraha" states that, because of Kapha which brings Snigdha, Sheeta, Guru, Manda Guna thereby imparting dark color to Kesha(K1). Balavanta (Q.No.K2).[1] is because of the Kapha Dosha Guna's which are Snigdha(Unctuous), Shlakshna(Smooth), Mrudu(Soft), Madhura(Sweet), Saara(Essence), Sandra(Dense), Manda(Slow acting), Stimitha(Stable), Guru(Heavy), Sheeta(Cold), Vijjala(slimy) and Acchatva(Clear). [1] Individuals of these constituents are endowed with excellence of strength(K2). The next two questionsKlesha Garma Tapto (Q.No.K3) and Staimitya Da Vikarah (Q.No.K6) are due to Stimita Guna where the person is low in getting irritated by any things or situations, thereby able to withstand difficult circumstances (K3) and one is low in getting morbid manifestation(K6). [4,1] Tikta Kashyam Katu Ushna Rooksha Alpa Sa Bhunkthe (Q.No.K4) where persons feel comfortable and desire to have spicy, hot bitter, astringent, dry type of foods. Even after consuming these types of foods they will be Balavan. [4] This can be understood in the context of Shamana of Doshas by different Rasa-"Traysthiktadhyah Kaphum" means, [14] the three Rasas viz - Tikta, Kathu & Kashaya which alleviate Kapha Dosha (K4). Nidralu (Q.No.K5) is mainly due to Guru Guna which influences the person. [4] Also, a portion of Tamo Guna acting on the person makes him drowsy/sleepy (K5). Prasanna Snigdha Swara (Q.No.K7) is due to Accha Guna (Clear),[1] where the individual has pleasing and affectionate voice (K7). Sheeta Guna is the reason behind the following three question viz - i) Shaitya Alpa Kshut (Q.No.K8), ii) Alpa Trushna (Q.No.K9),

- iii) Alpa Santapa Swedha (Q.No.K11)- they lack in intensity of hunger (K8); thirst (K9), and perspiration (K11) respectively^[1] Swapne Sapadma Hamsa Vihanga Malo Toyasheyan Paschyati Toyadamscha (Q.No.K10) is due to Jala Maha Bhoota predominance in these individuals. [4] Their dreams also relate to materials connected with water viz like blossom lotus flower, Hamsa Pakshi in Jalashya and dark clouds ready to rain. Snigdhanga (Q.No.K12), the Snigdha quality of Kapha, makes organs unctuous in nature(K12). [11] Manda Cheshtah (Q.No.K13) due to slow acting quality, one is slow in action, body movements and even in food intake (K13). [11] Deerga Roma (Q.No.K14) they have more body hair because of Snigdha, Sara, Sandra qualities of Shleshma (K14). [5]
- Psychological domain: Trupti (Q.No.K15) is nothing but contentment which is one among the 20 types of Kaphaja Nanatmaja Vikara (K15).^[5] Shradha (Q.No.K16) – these persons are very responsible regarding their life & duties which is due to Snigdha quality (K16).[4] Kshamavan (Q.No.K17) - these persons will have more Satva Guna and less of Rajo and Tamo Guna. [4,8] Hence they possess nature of forgiveness (K17). Gurutvat Saraadhi Shthit Avasthita (Q.No.K18)- Guru Guna is the reason for stability in tackling and performing the undertaken works completely (K18).[1] Sangeetavadyo Sheelah (Q.No.K19) is due to Snigdha, Manda, Sheeta, Guru Guna where people desire for Santosha(Happiness) and good soothing things like music, musical instruments, etc which are pleasing in nature (K19).^[5] Shanta Vanta (Q.No.K20) - this is because of the presence of Snigdha, Shlakshna, Mrudhu, Madhura, Sara, Sandra, Manda, Stimita, Guru, Sheeta, Vijjala and Acchatva qualities in Shleshma dominated personality.^[1] Hence the person is calm

- and peaceful in *Svabhava* (K20). *Sthimitya Guna* is the reason for next two questions *i) Staimitya Da Shobha* (Q.No.K21) these persons think properly, and understand and do well whatever work they perform without getting irritated. ii) *Drid Veer* (Q.No.K23) these individuals stick on to a rivalry which lasts for a very long time. ^[2] This is because of binding property of *Shleshma* (K23). *Manda Cheshtah* (Q.No.K22) is due to *Manda Guna* of *Kapha* where the individuals are slow in movements and walking. ^[1]
- Social Domain: Bhakto Gurunam (Q.No.K24) and Sleshmastena Soumyo (Q.No.K26)
- because of their *Satva*, *Mrudu* and *Snigdha* quality, they tend to have more gratitude for relationship towards teachers and friends (K24)^[4] and are very gentle in nature (K26) respectively. *Sthira Sohrudayat* (Q.No.K25) are strong in maintaining relationship and friendship (K25).^[4]
- IV) Intellectual Domain: *Kapha* constituent have long lasting memory due to binding property *Smritiman* (Q.No.K27). [4] *Satatam Parinishchita Vakya Padah* (Q.No.K28)
- Stimitha Guna is the reason as these individuals will never initiate an action or even speak in the beginning of any conversation(K28). [2] Chir Grahi (Q.No.K29) is due to Manda Guna where they are slow in grasping and understanding things (K29). [2] Sthula Lakshaya (Q.No.K30) here the individuals will have grosser or wider perspective and see everything in a broader picture(K30). [4]

CONCLUSION

Through evaluation of frequencies of complete data on non-physical characteristics of Prakriti by Prakrutitaha Pareeksha in Madhumeha Rogis for the following 5 domains it is concluded that, in Physiological domain maximum Rogis were of Pitta Prakriti; intermediate were Kapha Prakriti and minimum were of Vata Prakriti (Pitta > Kapha > Vata). In Psychological, Social and Intellectual domains the maximum Rogi's were of Kapha Prakriti; intermediate were Pitta Prakriti Rogi's and least were of Vata Prakriti (Kapha > Pitta > Vata). And in Spiritual domain we found that Kapha Prakriti were of maximum and Vata Prakriti were least. It can be concluded that Kapha Prakriti were predominant in the 4 domains- Psychological, Social, Intellectual and Spiritual; Vata Prakriti were in least number of Madhumeha Rogis (Diabetes Mellitus Type 2) in all the 5 domains of nonphysical attributes by *Prakrutitaha Pareeksha* in this study.

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REFERENCES

1. Acharya, Y.T., Agnivesha. Charaka Samhita with

- Ayurveda Dipika Commentary, Munshiram Manoharlal Publishers Pvt Ltd., New Delhi: 1992 (Reprint), Vimana Sthana 8/96-98, pp.277.
- Acharya, J.T., Susruta, Susruta Samhita with Nibandha Sangraha and Nyayachandrika commentaries, Varanasi: Chaukhamba Sanskrit Sansthana, 2013 (Reprint), Sharirsthana 4/65-72, pp.361.
- 3. Dr.Shivprasad Sharma, Vrddha Vagbhata, Astanga Sangraha with Sasilekha Sanskrit commentary, Varanasi: Choukhamba Sanskrit Series office, 2012 (Reprint), Sharira Sthana, 8/6-14, pp.317-319.
- Bhisagacharya Harisashi Paradakara Vaidya, Vagbhata, Astanga Hrudaya with Arunadatta and Hemadri commentary, Varanasi: Chaukhambha Orientation, 2011 (Reprint), Sharira Sthana, 3/84-102, pp. 402-404.
- aidya Jaymini Pandey, Haritha Samhita with Nirmala hindi commentary, Varanasi: Chaukhambha Visvabharati, 2010 (Reprint), Pratham Sthana,5/17-38, pp.31.
- 6. Bhisagacharya Hari Sastri Paradakara Vaidya, Vagbhata, Astanga Hrydaya with Arunadatta and Hemadri commentary, Varanasi: Chaukhambha Orientation, 2011 (Reprint), Sutra Sthana, 2/8, pp. 23.
- Acharya, Y.T., Agnivesha, Charaka Samhita with Ayurveda Dipika Commentary, New Delhi: Munshiram Manoharlal Publishers Pvt Ltd. 1992 (Reprint), Sharira Sthana, 4/36-38, pp.323.
- 8. Pandit Parasurama Sastri, Vidyasagar, Sarangadharacharya, Sarangadhara Samhita with the commentary Adhamalla's Dipika and Kasirama's Gudhartha Dipika, Varanasi: Chaukhambha Orientation, 2012 (Reprint), Purva Kanda,5/26, 29, pp.324.
- 9. Dr. Bannanje Govinda Acharya, Shri VedaVyasa, Sri Bhagavad-gita First Edition, Ishavasya Pratishthana Publisher, Udupi- Bengaluru: 2018, 6/34, pp.205-206.
- 10. Bhisagacharya Hari Sastri Paradakara Vaidya, Vagbhata, Astanga Hrydaya with Arunadatta and Hemadri commentary, Varanasi: Chaukhambha Orientation, 2011 (Reprint), Sutra Sthana, 1/9, pp.8.
- 11. Bhisagacharya Hari Sastri Paradakara Vaidya, Vagbhata, Astanga Hrydaya with Arunadatta and Hemadri commentary, Varanasi: Chaukhambha Orientation, 2011 (Reprint), Sutra Sthana, 12/13.
- 12. Acharya, Y.T., Agnivesha. Charaka Samhita with Ayurveda Dipika Commentary, Munshiram Manoharlal Publishers Pvt Ltd., New Delhi: 1992 (Reprint), Sutra Sthana, 20/14, 17, pp. 115.
- 13. Acharya, Y.T., Agnivesha. Charaka Samhita with Ayurveda Dipika Commentary, Munshiram Manoharlal Publishers Pvt Ltd., New Delhi: 1992 (Reprint), Sutra Sthana,8/119, pp.80.
- 14. Bhisagacharya Hari Sastri Paradakara Vaidya, Vagbhata, Astanga Hrydaya with Arunadatta and Hemadri commentary, Varanasi: Chaukhambha Orientation, 2011 (Reprint), Sutra Sthana, 1/15, pp.11.

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