



Research Article

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A CROSS-SECTIONAL STUDY ON BODY CONSTITUTION (DHEGA ILAKKANAM) IN UTHIRAVATHA SURONITHAM (RHEUMATOID ARTHRITIS)

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ABSTRACT

Background: Siddha medicine is an ancient script of medicine has been originated in South India. The concept of the Siddha system is based on fundamental principles of 96 thathuvangal which include five basic elements of the Universe, Udal thadhugal, and Uyir thadhugal etc. The physical health of the human body is maintained by three humors vatham, pitham, kabam which are the basic vital forces of humans. Udaliyal assessment is an essential tool, to diagnose any variation in the three vital forces. This study was to evaluate the body constitution in Uthiravatha Suronitham (Rheumatoid arthritis). This study was conducted in the outpatient department maruthuvam, Ayothidoss pandithar hospital, National Institute of Siddha, Chennai. 50 Uthiravatha Suronitham patients were selected to analyze the body constitution of Uthiravatha suronitham disease. The study details were collected by using the questionnaire in the data collection questionnaire. vathakaba thegi and vathapitha thegi body constitutions were more prone to Uthiravatha suronitham disease. The traits of thega illakanam, can be used for the line of treatment to the Uthiravatha suronitham patients along with dietary habits, behavioural modifications. etc.

Keywords: Siddha system, Body constitution, Uthiravatha suronitham, Rheumatoid arthritis.

INTRODUCTION

The Uyirthaadhu comprises vatham (vali), pitham (Azhai), kabam (Iyam). These three vital forces form the individual yakkai ilakkanam (Body constitution)¹. Udaliyal is classified into Nine types, which forms due to the dominating level of vatham, pitham, kabam influence. When the three humours are affected by lifestyle modification, seasonal variation they cause the diseases².

In Yugi vaithiya chinthamani vatha diseases are classified into 80 types. In which, Uthiravatha Suronitham is one among them. Signs and symptoms of Uthiravatha Suronitham may be correlated with Rheumatoid arthritis³. Rheumatoid arthritis is a chronic inflammatory, destructive, and deforming symmetrical polyarthritis associated with systemic involvement. The individuals are being with HLA – DR4 and HLA- DR1 and familial aggregation. It is characterized by deforming symmetrical polyarthritis of varying extent and severity, associated with synovitis of joints and tendon sheaths, articular cartilage loss, erosion of extra-articular bone, presence of IgM rheumatoid factor in the blood, which occurring through out of the world 3 to 4 decade of life^{4,5}. The prevalence of the RA is approximately 0.8-1.0% in Europe and India, with a female to male ratio of 3:1.⁶

This study was conducted to evaluate the body constitution (vatham, pitham, kabam) of Uthiravatha suronitham noi and evaluate the personal characteristics of Uthiravatha suronitham patients with personal history, family history, dietary habits etc.

MATERIALS AND METHODS

A cross-sectional study was conducted in the outpatient department of Maruthuvam in Ayothidoss pandithar hospital, National Institute of Siddha. This study was approved by IEC (Institutional Ethics Committee)-NIS/IEC/2020/MP-5. The study was also registered in CTRI (Clinical Trial Registry India)-CTRI/2020/06/026155. In this study, 50 outpatients in between 18-70 age groups were selected without any bias. The study details were collected in the pre-designed data collection questionnaire.^{2,7}

OBSERVATION AND RESULT

Table 1: Gender

Gender distribution	Number of patients	Percentage
Male	8	16 %
Female	42	84 %

Table 2: Age

Age	Number of patients (%)
18-20	1 (2%)
21-30	5 (10%)
31-40	14 (28%)
41-50	15 (30%)
51-60	13 (26%)
61-70	2 (4%)

Table 3: Food Habit

Food habit	Number of peoples	Percentage
Veg	2	4 %
Non Veg	45	90 %
Lacto Veg	3	6 %

Table 4: Family history

Family history	Number of patients	Percentage
Yes	11	22 %
No	39	78 %

Table 5: Psychological factors

Psychological factors	Number of patients	Percentage
Anxiety	6	12 %
Stress	14	28 %
Emotion	17	34 %
Depression	6	12 %
No Psychological Disturbances	7	14 %

Table 6: Naadi

Naadi	Number of patients	Percentage
Vathapitham	19	38 %
Vathakabam	7	14 %
Pithavatham	13	26 %
Pithakabam	3	6 %
Kabavatham	7	14 %
Kabapitham	1	2 %

Table 7: Thegi

Thegi distribution	Number of patients	Percentage
Vathapitham	17	34 %
Vathakabam	18	36 %
Pithavatham	6	12 %
Pithakabam	3	6 %
Kabavatham	4	8 %
Kabapitham	2	4 %

INFERENCE

For the study on Uthiravatha suronitham Noi, 50 patients were included in this study 42 (84 %) cases were female, and 8 (16 %) cases were male.

The participants were found to be predominantly in the age group of 41-50 (30 %) while the least occurred in the age group of 18-20 (2 %).

Out of 50 patients, 45 (90 %) cases were non-vegetarian, 2 (4 %) cases were vegetarian and 3 (6 %) of cases were Lacto vegetarian. Out of 50 patients, 39 (78 %) cases had no relevant family history, and 11(22 %) cases had a family history of Uthiravatha suronitham Noi.

Out of 50 patients, 17 (34 %) cases were being with Emotion, 14 (28 %) cases were being with stress, 6 (12 %) cases were being with Anxiety and Depression and 7 (14 %) cases had no psychological factors.

Out of 50 patients, 19 (38 %) cases had Vathapitha naadi, 13 (26 %) cases had pithavatha naadi, 7 (14 %) cases had Vathakaba and Kabavatha naadi, 3 (6 %) cases had Pithakaba naadi, and 1 (2 %) case had Kabapitha naadi.

Out of 50 patients, 18 (36 %) cases were Vathakaba thegi, 17 (34 %) cases were Vathapitha thegi, 6 (12 %) cases were Pithavatha thegi, 4 (8 %) cases were Kabavatha thegi, 3 (6 %) cases were Pithakaba thegi, 2 (4 %) cases were Kabapitha thegi.

DISCUSSION

Siddha system has a unique diagnostic method to identify the disease and causative agents.

According to Theraiyar, diagnostic methods are classified as “Meikuri niram thoni vizhinaa irumalam kaikuri”²

There are eight tools of diagnostic methods which also include thega illakanam and seven udal thadhukkal.

“Naadisparisam naaniram mozhivizhi Malam moothiramivai maruthuvarautham”

Eight tools consist of naa, niram, mozhi, vizhi, saprism, naadi, neerkuri, neikuri, malam.²

The autoimmune disease is generally influenced by genetic, hormonal, and environmental factors. Autoimmune disease is more common in females than males, hence the etiology of RA is influenced by estrogen and progesterone. Therefore, females had a higher incidence of RA.^{8,9} In this study among 50 patients, 42 (84 %) patients were females, and 8 (16 %) patients were males (p<0.05) the study result is statistically significant.

Clinically 3 to 4 decades of life Rheumatoid arthritis is more common, in this study among 50 patients, 41-50 years of age group includes 15 (30 %) patients, 31-40 years of age groups includes 14 (28 %) patients, 51-60 years of age group includes 13 (26 %) patients, 21-30 years of age group includes 5 (10 %) patients, 61-70 years of age groups includes 2 (4 %) patients, 18-20 years of age groups includes 1 (2 %) patient.^{4,5}

Family history plays a major role in the incidence of valiazhal keelvayu (Rheumatoid arthritis).

“Kalitharu muyakkam peror Kadiseyal karuviyamaal”¹⁰

In this study among the 50 patients, 11 (22 %) patients had a family history of rheumatoid arthritis (p<0.05) and the study result is statistically significant.

Depression is one of the¹¹ major problems in Rheumatoid arthritis; it was studied in the British Society of Rheumatology. On studying psychological factors among 50 patients, 17 (34 %) cases were being with Emotion, 14 (28 %) cases were being with stress, 6 (12 %) cases were being with Anxiety and Depression, 7 (14 %) cases had no psychological illness (p<0.05) and study result is statistically significant.

By educating Siddhar Theraiyar kaalaolukkam to patients, which gives good psychological support and yoga to get rid of depression. Those who are rise at dawn will have clear intellect and the neurological function will be proper, the three humours will be in equilibrium.^{12,13}

According to Sathaga naadi, Vathapitha naadi occurred in Vathanoikal,

“Porulaana vathathil pitham sernthu
.....
Karuvaana thegamathi ulaichal sombal

According to Thirattu naadi states that,
“Enneeya vathamrandu pithamon nezhuntha thakil
Punnana udambu novum pugaiyena erium nenju”²

Hence vatham and pitham altered in Rheumatoid arthritis patients. Among 50 patients 19 (38 %) patients had vathapitha naadi, 13 (26 %) patients had pithavatha naadi, 7 (14 %) patients had Vathakaba and Kabavatham naadi, 3 (6 %) patients had Pithakaba naadi, and 1 (2 %) patient had Kabapitha naadi.

On analyzing thega illakanam, Vathakaba and Vathapitha thontha thegi had a higher incidence of Uthiravatha suronitham (Rheumatoid arthritis) among 50 patients, 18 (36 %) patients were Vathakaba thegi, 17 (34 %) patients were Vathapitha thegi, 6 (12 %) patients were Pithavatha thegi, 4 (8 %) patients were Kabavatha thegi, 3 (6 %) patients were Pithakaba thegi, 2 (4 %) patients were Kabapitha thegi.

If one wants to be free from disease of three humours, he should take the food cooked with pepper, turmeric, cumin seeds, asafoetida, dried ginger, cardamom, fenugreek, and garlic.^{14,15}

Thiridhoda samaporulkal, which brings the three humors to a normal state. Thiridhoda samaporulkal act as adjuvant therapy and have an immunomodulatory effect thus reduce the severity of Rheumatoid arthritis.¹⁶

The data were analyzed by Chi-square test, result showered that expected and observed frequencies of Food habits, Gender, Family history and psychological factors (p <0.05) are statically significant.

CONCLUSION

This minor project result revealed that vathakaba and vathapitha thondha thegi body constitution was more prone to Uthiravatha suronitham (Rheumatoid arthritis). Vathapitha naadi was found to be associated with Uthiravatha suronitham noi. These findings could be additional support to select the line of treatment in rheumatoid arthritis patients according to the body constitution.

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