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MANAGEMENT OF ANKYLOSING SPONDYLITIS THROUGHPANCHAKARMA- A CASE STUDY

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ABSTRACT

Ankylosing spondylitis is distinguished by a long-lasting inflammatory arthritis that mostly affects the sacroiliac joints and spine and can eventually result in the spine's bone fusion. With a 3:1 male to female ratio, the onset normally occurs between the ages of 20 and 30. The primary signs are back discomfort, stiffness, and a reduction in the range of motion in the spine. There are very few treatment options available now for ankylosing spondylitis. Consequently, it is imperative to manage through ayurveda. Amavata, Gambhira Vatarakta, and Asthimajjagata vata are a few disease entities that fall under the umbrella term of ankylosing spondylitis. Understanding the signs and symptoms of ankylosing spondylitis allows one to consider the pathology of the condition under the Sama and Niramaavastha. A criterion of assessment was based on the scoring of 'Bath Ankylosing Spondylitis Disease Activity Index (BASDAI)'. Total two assessments were carried out before and after treatment. Panchakarma methods must be used once a thorough differentiation of Sama and Niramaavastha of Ankylosing Spondylitis (Asthimajjagata vata) has been made. Panchakarma may be the best option for treating this illness among the many therapy options. In order to design a strategy for the care of ankylosing spondylitis using Panchakarma modalities, a conceptual study was performed.

KEYWORDS: Ankylosing spondylitis; *Asthi-majjagatavata*; *Panchakarma*; *Ayurveda*; Bath ankylosing spondylitis disease activity index; BASDAI.

INTRODUCTION

Ankylosing spondylitis (AS) is a chronic inflammatory disorder that primarily involves the sacroiliac joints and the axial skeleton. There is also a variable involvement of peripheral joints and articular structures. Musculoskeletal pain, stiffness, and immobility of spine due to AS is a major burden. Typically affects young adults and male-to-female ratio is closer to 3:1. The median age of onset is 23 years. Worldwide prevalence of AS is up to 0.9%. Its etiology and pathogenesis are not yet fully understood. AS is a gradually progressive condition over severalyears until structural damage manifests clinically as sacroilitis, loss of spinal mobility, extra- articular symptoms, peripheral arthritis and reduced quality of life. Patients with severe AS have a reduced quality of life.

Ankylosing spondylitis is one such auto-immune rheumatic disease that shows a strong association with genetic factor HLA-B27.^[3] In allopathic system of medicine, NSAIDs and steroids are generally prescribed along with physiotherapy. But still it remains as a symptomatic approach. If *Ayurvedic* approaches are intervened appropriately, further progression of the

disease can be prevented. In this attempt, a case of Ankylosing spondylitis has been successfully managed with *Ayurvedic* treatment approaches.

CASE REPORT

A 39 year-old male patient visited the Panchakarma OPD no.24.

Complaints of

- 1. early morning stiffness with asymmetrical inflammation of left knee, right ankle and interphalangeal joints of hands.
- 2. Tenderness was present over bilateral sacro iliac joints.
- 3. Weight loss 8 kg in one year all above complaints are seen since 1 year. He was diagnosed with axial and peripheralAnkylosing spondylitis.

Past History

- No H/O- DM, HTN, Surgical Procedures.
- No F/H/O- Any skin disorder

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On Examination

- Pulse was 78/min, regular;
- Blood Pressure-120/80mm of Hg, Temperature-99.6
 OF
- Respiratory rate -18/min. Respiratory,
- CVS and CNS did not show any specific abnormality.
- Per abdomen examination was normal.

Laboratory Reports

- Hemoglobin level 11.5% for past one year
- ESR was 100 mm
- CRP level 74mg/l.
- HLA-B27 positive

Past treatment history

The patient was under the supervision of a rheumatologist for eight months, wherecombinations of different drugs have been prescribed (Table 1).

| | AllopathicTreatment |
|---|---|
| 1 | Tab.EtoshineMR(Etorecoxib) 120 mgtwice aday |
| 2 | Tab.Medrol(Methylpredenisolone) 8mgonce/day |
| 3 | Tab.VoveranSR(DiclofenacSodium) 75mgtwice/day |
| 4 | Tab.Folvite(Folicacid)5mgonceaday |
| 5 | Acetaminophen325mgtwiceaday |
| 6 | Tab.Methocel15mg onceaweek |

The above drugs were used for three months by the patient under the supervision of therheumatologist. Patient get minimal relief.

| Chief complaints | Present |
|---|---------|
| Asthibheda(stabbing pains inbones) | ++ |
| Parvabheda (pain in joints offingers) | +++ |
| Sandhishoola (pain in joints), | ++ |
| Mamsakshaya (depletion ofmuscular tissue) | ++ |
| Balakshaya (decreased vitalityand strength) | ++ |
| Aswapana(sleeplessness) | ++ |
| Satataruka(continuouspain) | ++ |

These above symptoms can be compared with symptoms Asthi-majjagatavata. [4] Adhyasthi (Fusion syndesmophytes) manifestation is the Asthipradoshavikara (Diseases of bones). [5] Vinamata (bending of the body as kyphosis) is the manifestation of Majjavritavata. [6] The patient was in Niramavastha (stage of disease without Ama) condition with apparently normal appetite and no Rakta Dusti (vitiation of blood) and Purvaroopa (prodromal symptoms) of Vatarakta was evident, thus patient considered to suffer from Nirama Vata Vyadhi (Vata disease without Ama). As the disease had become deep-seated showing the features of Asthimajjagata vata, thus it was considered as Ayurvedic diagnosis for the case-

Ashta Sthana Pariksha

| 1 | Nadi | VatajPitta |
|---|---------|------------|
| 2 | Mala | Asmayak |
| 3 | Mutra | Prakrita |
| 4 | Jihva | Lipta |
| 5 | Sabda | Prakrita |
| 6 | Sparsha | Ruksha |
| 7 | Druk | Prakrita |
| 8 | Akriti | Madhyam |

Samprapti Ghatak

- Dosha- Vata Pradhana Pitta Anubandhi.
- Dushya- Rasa, Rakta, Mamsa, Asthi, Majja.
- Srotas- Rasavaha, Raktavaha, Mamsavaha, Asthivaha, Majjavaha.
- Srotodushti- Sanga.
- Ama- Alpa Sama.
- Udbhavasthana- Amashaya.
- Vyaktisthana- left knee, right ankle and interphalangeal joints of hands.

DIFFERENTIAL DIAGNOSIS

in the case

Amavata and Vatarakta (~various diseases of the rheumatic spectrum)

DIGNOSIS

A criterion of assessment in present case was based on thescoring of 'Bath Ankylosing Spondylitis Disease Activity Index (BASDAI). The BASDAI has been the most frequently used measure for AS and has become the gold standard measure for use in clinical trials. The purpose of BASDAI is to measure patient-reported disease activity in patients with AS.

The baseline score (before starting our treatment) on BASDAI was '4.6'

TREATMENT

Panchakarma Treatment Duration-

| Dipanapachana | |
|--|-------|
| Snehapana(tiktakaghritam) | |
| Abhyanga(Tilataila) | |
| Swedana(Fomentation) | 3days |
| Virechana(Trivrutadiavaleha) | 1day |
| Samasarjanakrama(Dietaryregime) | |
| Karma vastiAnuvasanavasti(Narayanataila)Yapanavasti(Mustadiyapana) | |
| Shastishalipandaswedana | |
| Saravangaswedana[withdashamulaandnirgundi] | |
| Pratimarshanasya(Anutaila) | |

Considering the condition of the patient; Panchakarma procedures were planned that werefollowed by internal medications for 45 days.

Besides these Internal medicine

| First two weeks | This was followed by |
|---|--|
| Kaishora guggulu (500mg thrice), | Kaishora guggulu (500 mg thrice) |
| Sanshamani vati(250 mg twice) | Sanshamani vati (250 mg twice) |
| Punarnavadi kwatha(15 ml twice) | Rasna kashayam(15 ml twice) |
| Blend of Amalaki, Musta, Guduchi powders (1geach | Rasraj rasa (500 mg thrice) |
| with warm water) | Gangharv haritaki churna (3gms HS withwarm water) |
| Gangharv haritaki churna (3gms HS with warmwater) | Dharasana lepa for external application overswollen, |
| Gangharv narnaki churna (5gms H5 with warmwater) | inflamed parts |

OBSERVATIONS

1. Patient was analysed by following Ayurvedic principles. On examination; it was observed that patient had symptoms of Ama, so Ampachana was suggested with Aampachak kashayam that is generally used in vitiation of Tridoshas and is also indicated in Jwara. Amapachana is a crucial step that is done before Snehapana followed by Virechana. Considering severity of the disease and Samata of Mala, as well as dominancy of Vata and Pitta; Virechana was planned. Snehapana with Tiktak ghritam. Tikta Rasa are indicated for bone pathology. [8] Foods and drugs having sweet and bitter properties are indicated in Majja-pradoshaja (disease occurring in vitiated bone marrow) diseases. Virechana was given with Trivrutadi avaleha[9] considering vitiation of Pitta and Kapha. Trivrit helps in eliminating Pitta followed by Kapha and is also well tolerated by the patient. After Virechana Patient was given Karma vasti with alternate Anuvasana and Yapanavasti. Anuvasana vasti was given with Narayana taila^[10] that acts very well on lower part of the body. Mustadi yapana basti[11] was given considering Madhyamabala of the patient as well as its efficacy on Vata dosha. Mustadi yapana is good in the involvement of Asthi and Majja. Mustadi yapana Basti is a combination of drugs, which are having Tikta and Madhura Rasa (bitter and sweet taste) dominance. Tikta Rasa has

- Shothaghna (anti-edematous and anti-inflammatory) and *Pittahara* properties (suppression and elimination of vitiated *Pitta* dosha). *Majja* (bone marrow)was used instead of *Mamsa Rasa* (meat soup) for the formation of *Basti*. *Majja* which was used in *Basti* improved the quality of various tissue especially blood and bone marrow of the case and alleviates symptoms.
- 2. Shastika shaali panda sweda given for the relief of pain and swelling, nourishment to muscles, bones and peripheral nerves, reducing fasciculation, dyspnea (due to atrophy of respiratory muscles) inflammation, enthesitis, and peripheral neuropathy, Sarvanga sweda^[12] with Dashamoola and Shigru was also given for reliefof pain and removing Stambha (stiffness).
- 3. Pratimarsha nasya with Anu taila is helpful in alleviating the diseases above supra clavicular region such as Galgraha (stiffness of neck) and Hanugraha (stiffness of jaw). The stiffness of spine and lock jaw condition are the main complaint in AS thus thisdrug is helpful.

SHAMAN CHIKITSA

1. Kaishora guggulu and Sanshamani vati - Were selected considering their action on Vata, Pitta, Kapha, Rasa, Rakta and Mamsa. Amalaki, Guduchi and Musta in a combination is known for its role in Asthimajjagata dosha pachana.

- 2. Gangharv haritaki churna- 3 gm given at night with warm water for Vatanulomana.
- 3. Punarnavadi kwatha Also shows action on Rasa, Rakta, Mamsa and possess Shothahara property.
- **4.** Rasna kashayam- Added to the list of medicines in further stages of treatment, as it pacifies pain due to Vata mainly in lower limbs and back. It also reduces Shotha due to Vata.
- 5. Rasraj rasa- Has Balya (anabolic) and Vajikarana (aphrodiastic) properties. It is indicated in Paralysis, all type of Vatajvikara (diseases due to Vatadosha), Dhanustambha (stiffness of spine), Hanustambha (lock jaw), Apatanaka (spasm of muscles and tetanus like condition) and vertigo. Ashwattha churna was administered as it controls vitiated Vata and Rakta. These drugs and procedures have the properties to treat the manifestation of AS such as pain, inflammation, stiffness, scoliosis, kyphosis, fatigue, and weight loss. [13] was added in follow up treatment to control Vedana and Shopha (analgesic and anti- inflammatory) action locally. [14]
- **6.** Physiotherapy With stretching exercises were advised to relieve stiffness of muscles as well as joints.
- The baseline score (before starting our treatment) on BASDAI was '4.6' and after completion of treatment the score on BASDAI was reduced to '0.9' i.e., there was '80%' of improvement found.
- 8. All the allopathic medicines were gradually with drawn by 21st day of commencement of Ayurvedic treatment. After withdrawing NSAIDs; both pain and swelling were aggravated, but they were tolerable. After completion of Panchakarma therapy, sacro- illiac joint pain was completely reduced, while morning stiffness was reduced significantly. Mild swelling was observed over left knee and right ankle joints especially in the morning hours, which was reduced with physiotherapy. After one month of follow up, only mild tolerable swelling overright ankle was complained. This swelling was further with reduced continuous physiotherapy. Hematological profile of the patient was significantly improved. Good improvement in heamoglobin percentage was seen. ESR and CRP were also reduced. Patient gained 9 kg weight within two months after completion of the treatment. By the end of treatment, no need of conventional analgesicsor anti-inflammatory drugs was needed by the patient.

CONCLUSION

There was marked improvement in this case of AS. Hence Virechana karma followed by Tiktaksheer Basti with Shashti Shali Pinda Swedana, Patimarsha nasya and Shamana drugs was found to be effective in this case of Ankylosing Spondylitis.

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