The word arthritis means inflammation of the joint. Inflammation is a medical term describing pain, stiffness, redness and swelling. Psoriasis is a common condition characterized by scaly red and white skin patches. Psoriatic arthritis is a form of arthritis (joint inflammation) that can occur in people who have the skin disease psoriasis. The relationship between skin and the brain exists because the brain as the center of psychological functions and the skin has same ectodermal origin and are affected by the same hormones and neurotransmitters. The skin has long been recognized as the “organ of expression”. Psychological factors have been known to be associated with dermatological conditions. Psychological stress is emphasized as one of the major triggering factor in the exacerbation of the disease. Psoriasis has a negative effect on the daily life, self confidence and self esteem because of its visibility. Emotional and psychological distress in turn may lead to psychosomatic skin disorders. Modern medical science treats psoriasis with spiraled (P) and ultraviolet A (UVA) therapy, PUVA, corticosteroids, and antimitotic drugs and osteoarthritis includes the administration of analgesics and Non Steroidal Anti-Inflammatory Drugs (NSAIDs), but their use neither provides adequate pain relief nor deceleration in disease process, but these therapies are associated with serious side effects like liver and kidney failure, bone marrow depletion, etc. Hence it is the need of time to find out safe and effective medicine for Psoriasis associated with arthritis and here comes the role of AYURVEDA.

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WHAT IS PSORIATIC ARTHRITIS?
The word arthritis means inflammation of the joint (“arthras” meaning joint and “itis” meaning inflammation). Inflammation is a medical term describing pain, stiffness, redness and swelling. Psoriasis is a common condition characterized by scaly red and white skin patches. Psoriatic arthritis can affect any joint in the body, including the spine.

WHO IS AFFECTED?
Males & females are equally predisposed & all age groups are affected. Onset may occur at any age but peaks in the second and third decades of life. The course of the disease is characterized by relapses and remissions but the condition tends to persist throughout life. According to the Centers for Disease Control and Prevention (CDC), 10 to 20 percent of people with psoriasis eventually develop psoriatic arthritis. Male and females are equally predisposed & all age groups are affected. Psychological stress is emphasized as one of the major triggering factor in the exacerbation of the disease. Modern medical science will neither provides adequate pain relief nor deceleration in disease process, but are associated with serious side effects like liver and kidney failure, bone marrow depletion, etc. Hence it is the need of time to find out safe and effective medicine for Psoriasis and here comes the role of AYURVEDA.

The combination of Godudhi (cow milk), Godadi (Card), Gogritra (cow ghee), Gomutra (cow urine), Gomaya (cow dung) in equal quantities is called as ‘Panchagavya’. The medicated ghee, thus prepared, is beneficial in epilepsy, chronic fever, skin diseases like leucodema, psoriasis etc, and also in musculo-skeletal disorders like arthritis. Thus in present study emphasis has been made to study efficacy of “Panchagavya ghrita” in Psoriatic Arthritis and different treatment modalities according to AYURVEDA.

INTRODUCTION
Psoriatic arthritis is a form of arthritis (joint inflammation) that can occur in people who have the skin disease psoriasis. The relationship between skin and the brain exists because the brain as the center of psychological functions and the skin has same ectodermal origin and are affected by the same hormones and neurotransmitters. The skin has long been recognized as the “organ of expression”. Psychological factors have been known to be associated with dermatological conditions. Psychological stress is emphasized as one of the major triggering factor in the exacerbation of the disease. Psoriasis has a negative effect on the daily life, self confidence and self esteem because of its visibility. Emotional and psychological distress in turn may lead to psychosomatic skin disorders. Modern medical science treats psoriasis with spiraled (P) and ultraviolet A (UVA) therapy, PUVA, corticosteroids, and antimitotic drugs and osteoarthritis includes the administration of analgesics and Non Steroidal Anti-Inflammatory Drugs (NSAIDs), but their use neither provides adequate pain relief nor deceleration in disease process, but these therapies are associated with serious side effects like liver and kidney failure, bone marrow depletion, etc. Hence it is the need of time to find out safe and effective medicine for Psoriasis associated with arthritis and here comes the role of AYURVEDA.

IS IT HEREDITARY?
Psoriatic arthritis is a type of inflammatory arthritis and an autoimmune disease. In Psoriatic arthritis, the joints are the target of the immune attack. This causes swelling, pain and warmth (inflammation) in the joints. In most people, psoriatic arthritis starts 10 years after the onset of psoriasis. Yet having psoriasis does not mean you will have Psoriatic arthritis. In fact, most people with psoriasis will never develop psoriatic arthritis. Research shows that people with psoriatic arthritis often have a family member with psoriasis or arthritis. In people who are susceptible, an infection may activate the immune system, triggering the development of psoriatic arthritis.

SYMPTOMS OF PSORIATIC ARTHRITIS
Musculoskeletal symptoms may include:
1. Joint pain and swelling that may come and go and may be accompanied by redness and warmth.
2. Tenderness where muscles or ligaments attach to the bones, particularly the heel and bottom of the foot.
3. Inflammation of the spinal column, called spondylitis, which can cause pain and stiffness in the neck and lower back.
4. Morning stiffness.
5. Reduced range of motion of the joints.
6. Painful, sausage-like swelling of the fingers and/or toes.
7. The joints most commonly affected are the distal joints (those closest to the nail) of the fingers or toes, as well as the wrists, knees, ankles, and lower back.

Skin symptoms may include:
1. Thickness and reddening of the skin with flaky, silver-white patches, called scales.
2. Pitting of the nails or separation from the nail bed.

Other symptoms may include:
1. General fatigue and malaise.
2. Conjunctivitis (also known as pink eye), inflammation, or infection of the membrane lining the eyelid and part of the eyeball.

HOW IS PSORIATIC ARTHRITIS DIAGNOSED?
The diagnosis of psoriatic arthritis is made based on the findings of a medical and family history and physical exam as well as x-rays or magnetic resonance imaging (MRI) of the affected joints. Although, there is no any lab test to diagnose psoriatic arthritis.

Diagnosis of cutaneous psoriasis is usually straightforward based on the clinical appearance. The most frequent presentation is chronic plaques of psoriasis (psoriasis vulgaris) and is characterized by well demarcated bright red plaques covered by adherent silvery white scales. These may affect any body site, often symmetrically, especially the scalp and extensor surfaces of limbs.

Several clinical patterns of joint involvement in PsA have been identified including distal arthritis, asymmetric oligoarthritis (less than five joints), symmetric polyarthritis, arthritis mutilans, spondylarthropathy (sacroiliitis and spondylitis). Patients often present...
with a mixture of subtypes and the pattern of disease may vary over time. The most frequent presentation is polyarthritis, followed by oligoarthritis. 

Other common features of psoriatic arthritis include enthesis (inflammation at the tendon/bone interface), tenosynovitis and dactylitis (sausage digit). Inflammatory back pain is an important clinical symptom in patients with axial disease and the Assessment of SpondyloArthritis international Society (ASAS) criteria may be applied to these patients.

The criteria for inflammatory back pain are:
- Age ≤ 40
- Insidious onset
- Improvement with exercise
- No improvement with rest
- Pain at night (with improvement on getting up).

The criteria are fulfilled if four out of five parameters are present in patients who have had chronic back pain for more than three months.

**PSORIASIS AS A PSYCHOSOMATIC DISORDER**

Psychological stress is emphasized as one of the major triggering factor in the exacerbation of the disease. The impact of psoriasis on mental and physical well-being is comparable to that of other chronic conditions such as cancer and diabetes. psychosocial co morbidities experienced by patients are not always proportional to or predicted by disease severity. Long term psychological distress can lead to depression and anxiety.

A systematic review of psychiatric morbidity in psoriasis found that psoriasis can have an adverse effect on self image, self esteem and emotional stability. Patients report mental health concerns such as anxiety and depression and a wide range of emotional reactions such as shame, embarrassment, anger and helplessness. The most difficult aspect is the visibility of psoriasis.

**HOW CAN WE MANAGE PSORIATIC ARTHRITIS?**

Once your diagnosis is confirmed, there are many treatments that can help decrease your pain and increase your movement. Non-medication therapies, such as physiotherapy, occupational therapy, education, physical activity and relaxation techniques, are a very important part of the treatment of Psoriatic Arthritis. Treatment for psoriatic arthritis will depend largely on its severity. If the disease is mild and affects only a couple of joints, treatment with non steroid anti-inflammatory drugs (NSAIDs) may be sufficient for treating pain and inflammation. For acutely inflamed joints, corticosteroid injections may be helpful.

**Role of vitamin D.** A recent study showed that vitamin D insufficiency is common in people with psoriatic arthritis. A new study supported by the NIAMS is designed to investigate the effects of vitamin D on psoriasis.

**AYURVEDIC REVIEW**

In Ayurveda, *Vatarakta* includes joint pathologies as well as vascular stages. *Vatarakta* also reflects autoimmune pathologies where skin, joints and blood vessels are involved as in SLE. Psoriatic arthritis comes under *Vatarakta* – *Kushta* as there is link between pathology of both (*Sapt Dushyas*) in Ayurveda. *Vata* and *Kapha* are the elements that will lead to psoriatic arthritis. The clinical features of psoriasis justify the rule of *vata* and *kapha*. The same *dosh samsharga* is getting new shanashamshara in sandhi, nakha, and scalp in psoriatic arthritis. *Sanda* is also a *kapha* *sithana*, vitiated doshas (*vata-kapha*) gets *shanashamshara* in sandhi and manifested as *sandhishool*, *sandhvikhriti* in Psoriatic Arthritis.

**Eka Kushta**

Eka Kushta in modern parlance has similarity with Psoriasis. Eka Kushta being a *Kshudra Kushta* has involvement of tridosh mainly *Vata Kapha* dominance.

1. Asvedana – Absence of sweating
2. Extensive localization and
3. Yat matsya kalopamam – Seems like the scales of fish.

It occurs due to increase of Vata and Kapha Dosha.

**EIOPATHOGENESIS OF DISEASE**

1. Virudhi anna pana and Snigdha ruru pana
2. Suppression of natural urges
3. Physical exercise in excessive heat and after taking heavy meal
4. Improper administration of *Panchkarma* therapies
5. Excessive intake of foods of freshly harvested grains (*Navdhanya*), curd, fish, salt and sour substances.
6. Excessive intake of Must (black gram), *Mulaka*(radish), *Tila* (sesame seeds) and Jaggery.
7. Sleep during day time
8. Insult to Brahmins and preceptors and other sinful acts.

Due to above mentioned factors all the three *doshas* *Viz*, *Vata*, *Pitta* and *Kapha* gets vitiated. These vitiated *doshas* in turn vitiate *Tvak*, *skin* or *Ras dhatu*, *Rakta* (*Blood*), *Mamsa* (*Muscle tissue*) and *Ambro* (*Lymph or plasma* *part* of blood *tissue*). These taken together constitute the seven fold pathogenic substance of *kshethra*. These are together called as *Kushta Dravya* *Sangraha*.

**TREATMENT PRINCIPLE**

*Vata-kaphha Chikitsa* - *Kushtahara Chikitsa* should be applied first and then in the next phase specific treatments are given to arrest the joint damage.

*Acharya Charaka* has highlighted the role of *Panchakarma* therapy by stating that the disease treated by *Shuddha* will never recur, whereas the treatment with *Shumana* therapy may recur in due course of time.

In addition, if *Shumana* drugs are administered after proper course of *Shuddha*, then it provides additional relief and thus helps in eradicating the diseases completely. *Yamana Karma* is the best measure for *Kapha Dushti*, whereas *Virechana Karma* is indicated not only for *Pitta Doshha* but also in *Kapha* and *Rakta Dushti*.

Psoriatic arthritis being a disease with Auto immune pathology both systemic and local treatments are necessary. *Panchakarma Chikitsa* will check the autoimmune pathologies, while rasayanas will reduce the chances of recurrence.

**Snēhana:**

Patient suffering from *Kushta* dominated by *Vata* is administered with herbal ghee internally.

**Panchākīrti ghrīta**, *Mahākīrti ghrīta*, *Panchagavya ghrīta* etc.

External Application *Eladi Tail*, *Vajra Tail*, etc.

**Yamana:**

Patient suffering from *Kushta* dominated by *Kapha* is administered *Yamana* emetic therapy.

Common Yoga :
- Madanphala pippali 2.5 to 5 gms
- Vycha 5 gms
- Yashtimadhu 7.5 gms
- Saindhava 10 gms
- Honey 30 ml

**Viechana:**

Patient suffering from *Kshethra* dominated by *Pitta* is given – *Virechana* purification therapy.

e.g Manibhadra guda

**Madhutailika Basti** which is rasayan will be indicated in joint diseases with skin manifestations.

**Yapan Basti** will improve the Agni and Bala.

**Rakotamokshana** – bloodletting:

Pracchanna Raktamoksha Blood- letting is done with a coarse device in case of *Kusht* with mild symptoms.

Sira Vyadha Raktamoksha – vein puncture – is administered in more acute stage.
Immune modulant drugs are important in both skin and joint care. As an anti-inflammatory action, the smoothing of vitiated (Ghrita) cell membrane intensifies the penetration of Similarities in chemical and physiological nature in subsides the symptoms like these properties, the drug definitely acts on mind and its function. The drug as a whole is about the action on three Doshas (Bahudosha) in nature with the predominance of Vata might endanger patient's life instantaneously. After the elimination of Doshas from the gastro-intestinal tract (by Yamana and Virechana) and Raktamokshana from blood, the patient is given Sneh (oil, ghee etc) to drink. Because Gaya gets aggravated and the patient becomes weak soon after the elimination therapies which condition will be remedied by the administration of the –Snehapana oleation therapy.

Oleation therapy is given only after the morbid Doshas are eliminated from the body. Without that, administration of oleation therapy might aggravated the disease. Thus, to eliminate Kapha, Vata & Pitta Dosha, Yamana, Sarpipana & Virechana are the measures of choice.

Other Internal Medicines: Guduchi, Ashwagandha, Kaishor Guggulu, Arogyavardhini Vati, Dudkhuchyadi Kashaya, Guggulutiktak Kashaya, Shonithamrutha Kashaya, Manjisthadi Kashaya etc.

PANCHAGAYA GRHITA

DRUG REVIEW

It is widely used medicine for Nasya, Pana, and Basti purpose and also in preparatory procedure called snehakarma before Yamana and Virechana, for the treatment of neurological and psychiatric conditions, epilepsy, insanity, fever, liver diseases such as jaundice.

Panchagayam Ghritam Ingredients:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Godadhi (cow urine)</td>
<td>3.072 liters</td>
</tr>
<tr>
<td>Godadhi (cow cheese)</td>
<td>3.072 kg</td>
</tr>
<tr>
<td>Gomaya (water extract prepared from cow dung)</td>
<td>3.072 liters</td>
</tr>
<tr>
<td>Gomaya (cow milk)</td>
<td>3.072 liters</td>
</tr>
<tr>
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</tr>
<tr>
<td>Gomaya (cow milk)</td>
<td>3.072 liters</td>
</tr>
</tbody>
</table>

All the drugs are taken in equal quantities and the gritha is prepared as per the common preparatory techniques regarding gritha.

<table>
<thead>
<tr>
<th>DRUG</th>
<th>RASA</th>
<th>GUNA</th>
<th>VIRYA</th>
<th>VIPAK</th>
<th>DOSHKARMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Godadhi</td>
<td>Madhura</td>
<td>Snigdha, guru</td>
<td>Seeta</td>
<td>Madhura</td>
<td>Vathapthasama</td>
</tr>
<tr>
<td>Gomaya</td>
<td>Madhura</td>
<td>Snigdha</td>
<td>Usma, Amla</td>
<td>Vathasamana</td>
<td></td>
</tr>
<tr>
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</tr>
</tbody>
</table>

DISCUSSION

By assessing the rasaspanchaka of the five ingredients, it is very clear about the action on three doshas. The drug is pacificatory to the three doshas in nature with the predominance of Kaphavatha samana. It is also agni deepaka and srotosodhaka. Some of its ingredients have Anudolamana property which also has action on alleviating the vata. The drug as a whole is Medhya, Ojasya, and Rasayana. Considering all these properties, the drug definitely acts on mind and its function. The srotosodhana action of the drug helps to act deeply on the mind destructing the aavaranam of tamas and gives its clarity. Sneha subsides the symptoms like Shoool, Asthitva, Rasakshata, Daha, etc. Similarities in chemical and physiological nature in Ghrita and human cell membrane intensifies the penetration of Sneha (Panchagayya Ghrita) in to deeper tissues causing partial rejuvination of cell, smoothing of vitiated Dosa (stagnated metabolic wastes). Thus, have an anti-inflammatory action.

Immune modulant drugs are important in both skin and joint care. As explained above Panchagayya Ghrita is a bio product, which has immune modulator action. And it was used long back for spiritual and treatment purposes. As it is prepared in a gritha form, it becomes highly effective in various conditions affecting the functioning of brain, as it can cross the lipid blood brain barrier. Besides that, the gritha is the best drug for Potentiating dhee, divriti and smritihi, which are the components of budhi, and have significant role as Vatashaman, Ojaska and anti stress action.