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Clinical study to assess benefits of *Gandhatail in Janu Sandhigatvata* w. s. r. to osteoarthritis of kneejoint at menopause – A clinical study.

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Abstract:

physiological Menopause is process universally affects all women who reach midlife. Menopause defined as cessation of menstrual bleeding one year ago. But in recent era it is turning major problem as women are getting early menopause i.e. (Akalaj Rajonivritti) and it leads related menopause problem like sandhgataivata. Sandhigatavata is one of the consequences of this process. Which is mentioned in classical text. The symptoms are swelling of joints, pain which increases on extension and flexion of joints. Which have similarities with signs and symptoms of Osteoarthritis mentioned by modern science. Sandhigatavata in rajonivrutti phase has to be understood under dhatukshajanyasamprapti. Sadhigatavata mentioned under title of vatavyadhi. In India it is more among menopausal women. Women have higher prevalence rate of osteoarthritis than men. Association of sex hormone, obesity and working pattern with

incidence and progression of OA in women. Obesity, sever physical activity clearly increases the risk for OA.

OA is degenerative joint disease occurring late in life characterized pathologically by focal degeneration of *articular* cartilage, *subchondral* bone thickening, marginal osteochondral outgrowth and joint deformity clinically by recurring episode of pain, *synovitis* with effusion, stiffness and progressive limitation of motion.

An attempt has been done to study a case report by using *Gandhatail* the formulation mentioned in Ayurveda's classical text for the treatment of *asthivahastrotasa*. It is *vatahara*, *shothahara* (anti-inflammatory), *shoolaghna* (analgesic) action. It is said to be very beneficial for degenerative bone and joint disorders.

Keywords:

Rajonivrutti, Sandhigatavata, Osteoarthritis (OA), Gandhatail.

INTRODUCTION:

In women's life menopause is a natural event as a part of the normal process of aging . WHO defined as those women who have stopped menstrual bleeding one year ago. Rajonivrutti is mentioned by all Ayurved classical almost According to Sushruta Samhita and other references too. 50 yrs. Is mentioned as the age of rajonivrutti. (1). This phase occure due to Dhatukshaya (depletion of body tissue) (2). Vata dosha is dominating in this phase. So sandhigatavata in rajonivrutti can be understood under *dhatukshayasamprapti*. (3)

Sandhigatavata mentioned under According vatavyadhiadhaya. CharakaSamhita nidansevan and phase of life after forty aggrevatevata. And this prakupitavata accumulate gets in riktastrotasa where is there snehadigunakshaya and gives rise various generalized and localized disease. In manifestation of Janu sandhigatavata, the prakupitavata travel along and gets lodged in janu sandhi. Where there is khavayugunya already resulting dimination of shleshakakapha. Combined effect of all these process manifests the symptoms of Janu sandhigatavata.

The term osteoarthritis and osteoarthrosis (also chondromalacia, degenerative arthritis, hypertrophic arthritis are currently used to define and idiopathic, slowly progressive disease of diarthrodial (synovial joint) occurring late in life and characterized focal degeneration of cartilage⁽⁴⁾.Subchondral articular bone thickening (sclerosis) marginal osteochondral out growths (osteophytes) and joint deformity. Clinically by recurring

episode of pain, synovitis with effusion, stiffness, and progressive limitation of motion and by narrowing of the joint interval, increased density and thickening of *subchondral* bone. The degenerative process firstly affect the *articular* cartilage. The wearing at process lacerated by continued injury and excess body weight⁽⁵⁾. As the cartilage wear and the bones of the joint rub against each other, the pain can become more sever and constant, interfering daily activity like walking, climbing stair.

The most common symptoms of knee arthritis are⁽⁶⁾

- Joint pain, swelling, fluid accumulation in the joint and decreased tolerance for walking, sports, stair climbing and other activities.
- 2. Limited range of motion
- J-R3. A Stiffness of knee
 - 4. Swelling of the joint
 - 5. Tenderness along the joint
 - 6. Deformity of the joint

Sandhigatavata in Rajonivritti or after rajonivritti can be understood under dhatukshayajanyasamparpti .The prevalence of degenerative disease like sandhigatavata increases with commencing parihariavastha⁽⁷⁾ (the phase of of deterioration) after 40 years of age. Modern science believes estrogen deficiencies leads to increased osteoclast formation and enhanced bone resorption. Subchondral bone remodeling can culminate in either sclerotic or an osteoporotic phenotype. Estrogen deficiency in postmenopausal or perimenopausal women culminates in OA which is an osteoporotic phenotype.

Subchondral bone degeneration may be trigger for changes in the cartilage biomechanical and biochemical microenvironment, thus promoting cartilage erosion and ultimately OA progression. (8) Gandha tail is poly herbal ayurvedic formulation with properties like analgesic, anti-inflammatory bone tonic anti arthritic and anti-oxidation. Ingredient of tail are black sesame, cow milk along with several other drugs (9). It is very beneficial for degenerative bone and joint disorder. So this clinical study is planned to evaluate the efficacy of gandhatail in the management of janusandhigatavata. (OA of knee). It has vathara, shothhara, shothghana action.

Aim:

To study the effect of Gandha tail in *Janusandhigatvata* in menopause women.

Objective:

- **1.** To study the efficacy of Gandha tail in *janusandhigatavata* .
- **2.** To evaluate the relation of *janusandhigatavata* and menopausal age.
- **3.** To review and study the complete literature available on Gandha tail.

Material and Methods:

Ayurvedic literature reviewed related to *Janusandhigatavata* and Gandha tail.

Case History

This study was done at Smt K.C. Ajmera Ayurved College OPD of SwasthavrittaDept .

A 50 yrs female came with complaints of bilateral pain in *janusandhi*, difficulty in walking, climbing stairs since 1 yr. Examination of the patient revealed

sandhishothaaroundbothkneejoints,tenderness2+,Vatapurnyaditisparsha(crepitus)inboth

Prasaranaakunchanapravruttisamvedana.

Personal history:

Appetite – good, Bowel- Regular, Bladder – normal, Diet – complete twice. Sleep – sound, Addiction – nil.,

Thyroid profile, blood sugar was normal. Uric acid---

Urine Analysis shows 2-3 epithelial cells, no sugar, no protein present.

Pulse rate: 78/minBP : 130/80 mm of HGWeight : 62 kg.

History of hysterectomy 8 yrs back.

X- Ray reavled joint space reduction in both knee joint. More so in the medial compartment bilaterally and some osteophytes.



The diagnosis of osteoarthritis was established on the basis of above finding . In consideration with the finding of clinical examination and investigation following treatment given.

Follow up in 15 days interval, then follow up after 1 month interval for 2 months.

Treatment:

Treatment	Dose	Time		Duration	Anupan
Gandhatail Cap	300 mg	After every	meal	Two months	Warm water.
		(twice a day)			

Observation:

Symptoms	Before	After 15 days of	After 1 month	After 2			
	treatment	treatment	of treatment	months of			
				treatment			
Janusadhishool	Sever	Relief of 50%	Relief of 70%	Relief of 80%			
Janushotha	Moderate,	Moderate,pitting	Moderate,	Moderate,			
	pitting	disappears in 20	pitting	pitting			
	disappear in	sec	disappears	disappears			
	20 sec		rapidly	rapidly			
Difficulty in walking	50 mtrs cannot	Can walk 100	Can walk 100	Can walk 200			
and climbing stairs	walk	mtrs	mtrs	mtrs			
Crepitus(Audible	Palpable	Palpable	Absent			
vatapurnadritisparsh)							
Prasarana	Prevent	Pain ++	Pain +	Pain+			
akunchana	complete	avuro	C				
sanvedana	flexion						
N J-R A S							

Discussion:

Prevalence of knee osteoarthritis increasing day by day. Systemic factors affecting joint vulnerability are gender, mainly females, age related factor. Obesity, occupation, faulty physical activity, these are leading to cause OA.And modern treatment is for OA mainly NSAIDs Knee OA can be corelated with janusandhigatavata. Age, Rjonivritti result in vatavrudhi. This led to reduction in kapha residing in the sandhi i.e.,shleshakkapha responsible for the lubrication joints reduces. the Sandhishithilya results. Generates symptoms like shotha, prasaranaakunchanavedana, atopa. According to Ayurveda's principle to

break pathogenesis (sampraptibhanga) is chikitsa for Janu sandhigatavataushna, kaphavatashamak, deepan, pachan, shothhara, vedanashamak, balya and rasayanadravyas essential. Hence Gandha tail mentioned on Asthivikara by classical text of Ayurveda selected here. Tail is considered to be best in vatavyadhi. Snehana karma is adopted to bring about snigdhata in the body. This will definitely reduce joint pain. Peer view show Gandhatail has anti-inflammatory effect.

Conclusion:

During this case study while reviewing various references noticed that *vata* is essential factor for development of *Janusandhigatavata*. Cardinal symptoms of *Janusandhigatavata* is similar to cardinal

features of osteoarthritis. Gandhatail is prepared using of sesame seeds,cow milk,lucorice ,kakolyadigana and eladigana is found very effective in context of shola, shotha, vatapurnadritisparsha, akunchanprasaranjanyavedana. During this study not observed any adverse drug reaction.

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