

JANU SHOOL VYAVCHHED (DIFFERENTIAL DIAGNOSIS OF KNEE PAIN)**Dr. Anish Anil Pandit MD (Rognidan)* and Dr. Ashok Devidas Pawar (MS Shalyatantra, PhD Scholar)**¹Associate Professor, Dept. of Rognidan Vikruti Vidnyan, Pharate Patil Ayurved Medical College, Mandavgan Pharata.²Associate Professor and PG Guide, Department of Shalyatantra, MES Ayurveda Mahavidyalaya Khed Ratnagiri.***Corresponding Author: Dr. Anish Anil Pandit MD (Rognidan)**

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INTRODUCTION

Ayurved is science of life which is serving mankind since thousands of years. *Ayurved* is complete science which owns it's own principles and understanding towards human body. *Ayurved* has its physiology, anatomy, along with peculiar diagnostic method and protocol. After pandemics of COVID-19 virus, limitations and hazards of modern medicine are vivid in whole world. People are searching alternative approach from conventional modern medicine. In such situation *Ayurved* has much potential to offer in maintaining health of the society. Now days People are willing to follow *Ayurved* principles and taking *Ayurved* consultation on for day to day health issues.

Janu shool (Knee pain) is common symptom that seen in daily *Ayurved* practice.

Janu shool (knee pain) is very common symptom that usually seen in daily *Ayurved* practice in all age group. For better relief to the patient, we need to make proper *nidan* (diagnosis) and *vyadhi vyavachhed* (differential diagnosis) of the *janu shool* symptom. *Janu shool* is seen from young children, women in different stage of life like teenagers, pregnant, lactating women, menopause and geriatric patients also. Again *janu shool* is also common presentation in different pathological conditions like osteoarthritis, rheumatoid arthritis, gout arthritis, ligament tear, So for proper treatment, precise *Ayurved nidan* is very important. Along with lab investigation and radiological investigations, history taking and physical examination is immensely important.

Aim

To understand *vyadhi vyavchhed*(differntial diagnosis) of *janu shool*.(Knee pain).

Objective

To understand causes of knee pain from *Ayurved* and modern point of veiw.

To understand *vyadhi vyavchhed* (differential diagnosis) of *janu shool*.

To make precise *nidan* (diagnosis) and *chikitsa* (treatment) accordingly.

Method

To understand exact cause of *janu shool*, we have to differentiate clinically with application of *Ayurved* and modern principles collectively.

For every *janu shool* we have to analyse many factors including age, sex, occupation , *aashukari/ chirkari* (onset -acute/ chronic), *kal* (duration), *shool swabhav* (severity of pain), *lakshan samuuchhay* (symptom complex along with knee pain), *upshay* (reliving factor), *anupshay/ hetu* (aggravating factor) diurnal variation of pain.

By analysing all factors, we will come to conclusion where we can diagnose the *janu shool* symptom.

Modern Veiw

First we have to differentiate between acute and chronic knee pain.

Acute Pain (Aashukari)

1. Injury due to trauma leading to muscle ache, ligament injuries like strain or ligament tear. Affected joint can not bear weight, patient start limping. This can be confirmed by MRI scan.
2. Injury due to trauma leading to fracture which can be diagnosed by XRays.
3. Acute muscle spasm due to non traumatic cause.
4. Viral infections like chikungunya, dengue. In this condition patient show symptoms like fever, body ache, and polyarthralgia. Generally CRP level is raised in acute knee joint pain along with dengue, chikungunya antibodies.
5. Heavy exercise or exertion is also routine cause of acute knee pain. Most of times it relives by rest.

Chronic Pain (chirkari)

1. Osteoarthritis
2. Gout arthritis
3. Rheumatoid arthritis

4. Tubercular arthritis

As chronic knee pain is widely seen in practice, we have to differentiate above pathological condition with various aspects.

1. Age

Age is most important factor to differentiate (*vyavchhed*) *janu shool* as all age group show specificity towards knee pain.

Children – Knee pain correspond to nutritional deficiencies like calcium or vitamin D3.

Young adult – Vary their presentation from nutritional deficiency (osteoarthritis) to any external trauma, to disorder like Gout arthritis.

Osteoarthritis (OA)

This is very common in elderly patient. Patients feel pain on squatting position.

In osteoarthritis, knee pain is main symptom. It aggravates particularly with exertion and knee bending. On examination crepitation can be heard along with unilateral or bilateral knee joint swelling. Patients feel better with rest and hot fomentation. Radio graphically diagnosis can be confirmed with X-ray. Serum calcium and Vitamin D3 are at lower side.

In *Ayurved* point of *veiw* this can be considered as *dhatu kshay janya vat vyadhi* or *margavrodhaj vatvyadhi* called *sandhi gat vaat*.

In gout arthritis (GA), small joints are involved along with knee pain. History of high protein intake is important. Diagnosis is confirmed by Serum uric acid level. This condition primarily affect small joint then spread to other joint also.

From *Ayurved* point of *veiw*, gout arthritis can be considered under *vat* and *rakt Pradhan vikruti* called *Vat rakta*.

Middle aged adult

Along with osteoarthritis and gout arthritis, Rheumatoid arthritis is very common in this age group.

In rheumatoid arthritis, symptoms are quite different. Main symptom is polyarthritis having migratory pain which aggravates at morning, cloudy environment and at the night.

On examination knee is very warm and often associated with swelling. Generally no crepitation found. Diagnosis is confirmed by R.A. test and Anti CCP level. In this condition generally ESR is raised.

In *Ayurved*, rheumatoid arthritis can be considered as *Aamvat vyadhi*.

2. Sex

Females more often suffered with knee pain with different causes.

Teen age girls, pregnant women, lactating mothers, menopausal women suffer from knee pain frequently. Main cause of knee pain in such conditions is nutritional deficiencies like Serum calcium and Vitamin D3. Middle aged women especially pregnant or lactating women are suffered with knee pain due to inflammatory conditions like rheumatoid arthritis or gout arthritis.

Males are also suffered with knee pain due to nutritional deficiencies, habit like tobacco chewing or hard working occupations like farmers, factory workers.

3. Occupations

People having sitting job shows knee pain due to lack of exercise and faulty sitting posture. On the other hand hardworking occupation like farmers, factory workers, show knee pain due to heavy exertion and lack of nutritious diet.

Ayurved Veiw

While analysing *janu shool* from *Ayurved* point of *Veiw*, we have to differentiate according to *ayurved* principles.

Janu shool is considered as *vat vyadhi* in *ayurved* text. So dealing with any *vat vyadhi* we have to differentiate between *upstambhit* and *nirupstambhit vat vyadhi*.

Nirupstambhit vat vyadhi is also known as *dhatu kshay janya vat vyadhi*. In *nirupstambhit vaat vadhi*, *kshudha* (appetite), *mala* (defecation), *agni* (digestion) is normal. There is no *aama dosh* in the pathogenesis. Diagnosis like *Sandhi gat vat*, *asthi majja gat vat*, *Vat rakta* are very common in this condition. These are normally degenerative pathologies like osteoarthritis or gout arthritis.

Upstambhit vat vyadhi is also known as *margavrodhaj vat vyadhi*. In this condition, there may be evolvement of *aama*, *kafa*, *pitta* or *Meda* in the pathology. In this condition *kshudha mandya* (loss of appetite), *mala avstambh* (constipation), and *agnimandya* (digestive symptoms) are observed. Symptoms in this condition are aggravated at morning, cloudy atmosphere or at night. Diagnosis like *aamavat*, *vatrakta*, *urustambh*, *medavrut vata* are very common in this condition.

These are normally inflammatory conditions like Rheumatoid arthritis, Gout arthritis, Ankylosing spondylitis or psoriatic arthritis.

This concept can be summarised in following way

Janu shool (Knee pain)	Nirupstambhit vat Vyadhi	Upstambhit Vat vyadhi
Nature	Dull (<i>alpavedna</i>)	Severe (<i>teevra</i>)
Pain increases	Evening	morning and night
Pain increases	By Exertion	By rest
Oil application	Reduces pain	Aggravate pain
Aama	Absent	May Present
Digestion	Generally Normal	Reduced
Ayurved Diagnosis	<i>Sandhi gat vat, vat rakta, ashtomajja gat vat</i>	<i>Aamvat, samvat, meda- kafa- rakta avrutta vat</i>
Modern diagnosis	Osteoarthritis, Gout	Rheumatoid Arthritis Psoriatic Arthritis

Hetu (cause of disease) is another speciality in the *Ayurved nidan panchak* where possible root cause of the knee pain is to be find out in every patient. This *hetu* is starting point of the pathology. That *hetu* should be stopped in order to reverse pathology and treatment is given according to *hetu*.

DISCUSSION

- *Janu shool vyavachhed* (differential diagnosis of knee pain) can be thoroughly and effectively done with *Ayurved* principles along with modern principles.
- Concept of *Nirupstambhit* and *upstambhit vatavyadhi* can be effectively implemented for *janu shool vyavachhed*.
- *Janu shool vyaachhed* can be understood by factors like age, Sex, and occupation.
- All modern conditions of knee pain can be diagnosed under *ayurved nidan* like *sandhi gat vat, vatarakta, Aamvat, asthimajja gat vat, asthi bhagna*.

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