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Conceptual study on osteoporosis and gastrointestinal tract symptoms with reference to purishdhara kala sa eva asthidhara kala

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Abstract:

Introduction – Study of *Kala* is important in study of human physiology along with anatomy. When either of two functions is disturbed pathology occurs & so for the treatment purpose, study of Kala is important¹.

The correlation between *Purishdharakala* as *Astidharakala* has been mentioned in *Sushrut Samhita* by *Dalhan* commentary. This correlation has been considered at multiple instances in general learning & in usage of Ayurvedic treatment (both *Shaman* & *Shodhan Karma*)^{2.}

In Modern Science, the Gastroenterologist many a times come across osteoporosis or osteopenia in patient with persistent gastrointestinal symptoms diseases. Gastrointestinal disorders can lead to significant impact on bone health ³.

This is an attempt to assess association between Osteoporosis and

Gastrointestinal tract symptoms with reference to *Purishdhara Kala* as *Asthidhara Kala* concept.

The Knowledge of *Purishdhara Kala Sa Eva Asthidhara Kala* will throw light on the treatment Principles of Osteoporosis.

Aim – Conceptual study on Osteoporosis and Gastrointestinal Tract Symptoms with reference To *Purishdhara Kala Sa Eva Asthidhara Kala*

Objectives – To Review *Purishdhara Kala Sa Eva Asthidhara Kala* in both *Ayurvedic* and modern text.

Material and Methods – All the *Ayurvedic* and Modern literature and contemporary texts including websites will be reviewed.

Discussion – The review of *Purishdhara Kala as Asthidhara kala* from the purview of modern aspect will be discussed.

Conclusion – Proper conclusions related to the conceptual study on osteoporosis and gastrointestinal tract symptoms with reference to *Purishdhara Kala Sa Eva Asthidhara Kala* will be drawn.

Key Words – *Purishdhara Kala*, *Asthidhara Kala*, Osteoporosis

• Introduction: There are seven *Kala*, situated between (*Dhatu* and *Ashaya*). They define the limits between particular system and their limiting membrane with other systems (*Dhatu* and *Ashaya*)⁴.

Study of *Kala* is an important in study of human physiology along with anatomy. When either of two functions is disturbed pathology occurs & so for the treatment purpose, study of *Kala* is important¹.

Out of 7 *Kala* mentioned, 5th one is *Purishdhara kala*, which being situated in *Pakvashaya* (Intestine), separates *Mala* (waste products, stool especially) from the food material after its digestion.

Ayurveda Science introspects several things by analysis of several different concepts mentioned in different sthanas of the Ayurveda classics. The right interpretation of the concepts can be done by compiling, analyzing and then verifying the different references found in different contexts. Likewise, the concept of mentioned by Achraya Sushruta in Sharirsthana can be interpreted and understood better by referring to description of Kala in Saptama Vega of the

Snake bite mentioned in *Sushruta Kalpasthana* ^{5.}

Correlation between *Purishdharakala* as *Astidharakala* has been mentioned in *Sushrut Samhita* by *Dalhan* commentary.

This correlation has been used at multiple instances in general learning & also usage of Ayurvedic treatments (both Shaman & Shodhan Karma).

In Modern Science. the Gastroenterologist may come across osteoporosis or osteopenia patient with persistent gastrointestinal diseases. Gastrointestinal disorders can lead to significant impact on bone health³.

This an attempt to assess association between Osteoporosis and Gastrointestinal tract symptoms with reference to *Purishdhara Kala* as *Asthidhara Kala* concept.

- Aim Conceptual study on Osteoporosis And Gastrointestinal Tract Symptoms with Reference To Purishdhara Kala Sa Eva Asthidhara Kala
- Objectives
 - Purishdhara
 Kala Sa Eva
 Asthidhara Kala
 from Ayurvedic
 text

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- 2. To study modern factors related to Osteoporosis
 And
 Gastrointestinal
 Tract Symptoms
- Materials and methods: Review of Modern Literature and contemporary texts including websites about the diseases reviewed and documented in study under following headings:
 - **1.** *Kala Sharir Kala* reflects the structural & functional boundaries of organs
 - 2. Purishdhara Kala Out of 7 Kala mentioned, 5th one is Purishdhara kala situated inside the alimentary tract, commencing from **Yakrut** (Liver) and the Antra (Intestine), this Maladhara separates the Mala (Faeces) the Unduka at (caceum).

In Sushrut samhita kalpasthan Chapter-4 i.e 'Sarpadashtavishavidnyayniy', Acharya Sushrut has recited Kala in detail in the context of Saptavega caused due to Sarpadansha.

3. Asthidhara Kala – Acharya Dalhana has commented the following points regarding Kala.

Here *Dalhana* has considered the meaning धात्वन्तरेषु as धातुमध्येषु (In the *Dhatu*). *Acharya Sushrut* has previously described the *Kala* in *sharirsthan* गर्भव्याकरण अध्याय (Ref- Su.Sh.Sharirsthan Dalhan tika 4/40)

Ach arya Dalhan has opined that Dhatu is related to Dharan & like the Saptadhatu he has also mentioned कफ़, पित्त, पुरीष as धातु, While explaining Saptavega, Acharya Dalhan has given following Explanation –

(Ref-Su.Sh.Sharirsthan Dalhan tika 4/5)

- 1. रक्तधरा कला-2nd Kala, Situated in intermediary region between Rasa & Rakt Dhatu
- 2. मांसधरा कला-1stkala, Situated in intermediary region between Rakta & Mansa dhatu
- 3. मेदोधरा कला- 3rd Kala, Situated in intermediary region between Mansa & Meda Dhatu
- 4. श्लेष्मधरा कला 4th Kala, Situated in intermediary region between *Meda &Kapha dhatu*
- 5. पुरीषधरा कला- 5thKala, Situated in Intermediary region between Kapha & Purish Dhatu
- 6. पित्तधरा कला 6thKala, Situated in Intermediary region between Purish &Pitta DhatuS
- 7. शुक्रधरा कला- 7th Kala, Situated in Intermediary region between Pitta & Shukra Dhatu.⁵

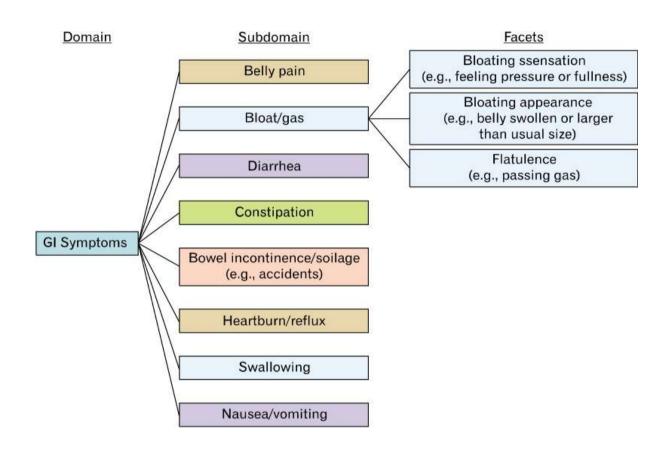
When there is *Kleda* formation in the intermediary between two *Dhatus* due to the *Ushma* of the respective *Dhatus*, the process of *Parinaman* (Transformation) leads to formation of *Kala*

According to this definition *Purishdhara* Sa Eva Asthidhara Kala forms the Kleda present between *Dhatus* i.e Kapha and Purish ⁶ (Ref - अष्टांगहद्य शारीरस्थान सर्वांगसुंदर आयुर्वेदरसायन टीका ३ /९)

Therefore, considering the above points Acharya Dalhan said that it would not be wrong to consider (Ref- सुश्रुत संहिता कल्पस्थान ४ / ३९) पुरीषधरा कला as अस्थिधराकला

As the correlation between Purishdharakala as Astidharakala has been mentioned in Sushrut Samhita by Dalhan commentary.

Gastrointestinal Tract symptoms - Heartburn, indigestion/dyspepsia, abdominal pain, bloating and diarrhoea/constipation are common in the community ⁸.



4. Osteoporosis - Osteoporosis is a disease in which bones deteriorate or become brittle and fragile due to low bone mass and bone tissue loss.

1 in 2 women and up to 1 in 4 four men who are over age 50 will break a bone due to osteoporosis⁹.

Discussion – Several Research works were also reviewed for this discussion purpose.

Concept of *Kala* mentioned by *Achraya* Sushruta in Sharirsthana can be

interpreted and understood better by referring to description of *Kala* in *Saptama Vega* of the Snake bite mentioned in *Sushruta Kalpasthana*

Purishdhara Sa Eva Asthidhara Kala is form the Kleda Present Between Dhatus i.e Kapha and Purish

Gastroenterologist may come across osteoporosis or osteopenia in patient with persistent gastrointestinal symptoms diseases

Conclusion -

After review of *Purishdhara kala Sa Eva Asthidhara Kala* it can be concluded that we assess association between Osteoporosis and Gastrointestinal tract symptoms with reference to *Purishdhara Kala* as *Asthidhara Kala* concept. This will help in the right interpretation of the various general learning's & also usage of Ayurvedic treatments (both *Shaman & Shodhan Karma*).

Hence Acharya Charak explained this correlation in Sutrasthan Vividhasthitapitiy Adhyay. The remedial measure in the disorders of Asthi consists of the multiple evacuative measures like medicated enema, intake of bittermedicated milk and ghee. Gastrointestinal disorders can lead to significant impact on bone health and are frequent causes of osteoporosis and related fractures.

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