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### MEDOGRANTHI WITH SPECIAL REFERENCE TO LIPOMA: A REVIEW ARTICLE

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### **ABSTRACT**

Medogranthi is made up of two words as Meda and *Granthi*. According to *Ayurveda* when *vatadi dosha* further vitiate the *mamsa*, *rakta*, *kapha* and *meda dhatu* they form an upright tubercle like appearance or swelling that's why it is called as *Granthi*. Number of *granthi* varies according to different *acharyas*. One of them is *Medogranthi*. The treatment for *granthi* is also mentioned by our *acharyas*. *Medogranthi* resembles lipoma in various manners, hence this review article is being done to study the *Medogranthi* and its nearest correlation lipoma.

KEYWORDS: Granthi, Medogranthi, Lipoma.

## INTRODUCTION

Which keeps body smooth, unctuous is called as *Meda*. When vitiated *vatadi doshas* further vitiate the *Mamsa*, *Rakta*, *Kapha* and *Meda dhatus* they form an upright tubercle like swelling, it is called as *granthi*. The *granthi* which occur in *Meda Dhatu* are smooth, movable, increases with the growth of the body and decreases with the emaciation of the body, large, less painful and sometimes causes itching. When ruptures oozes *meda*, is called *medogranthi*. [2]

It is nearest correlation to lipoma. A lipoma is one of the commonest and most benign of all tumours. It is composed of fat cells of adult type. [3] The first description of oral lipomas was given by Roux in 1848 in a review of alveolar mass; he referred it as a "yellow epulis. [4] Lipomas are seen in males more than female (9:1). [5] The prevalence of lipomas has been cited as affecting 1% of the population, while its incidence, which is possibly underreported, is 2.1 per 1000 individuals per year. [6]

### **Conceptual Study**

Table 1: Types of granthi according to various acharya. [7,8,9,10]

	Sushruta	Charaka	Madhavakara	Sharangdhara	Vagbhat
Vataja granthi	+	+	+	+	+
Pittaja granthi	+	+	+	+	+
Kaphaja granthi	+	+	+	+	+
Raktaja granthi	-	-	-	+	+
Siraja granthi	+	+	+	+	+
Medo granthi	+	+	+	+	+
Vranaja granthi	-	-	-	+	+
Asthij granthi	-	-	-	+	+
Mamsaja granthi	-	+	-	+	+

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Chhavi et al. Page 81 of 83

Table 2: Dosha and their aggravating factors. [11]

Vataja	Excessive intake of katu(pungent), tikta(bitter), Kashaya(astringent), ruksha ahara(dry food), and nerve wrecking conditions.
Pittaja	Excessive intake of amla(sour), lavana (salty), and fried food and excessive anger.
Kaphaja	Excessive intake of madhura(sweet), snigdha(oily) food and desk bound life style.
Raktaja	Excessive intake of amla(acids), kshara(alkali) containing food, fried and roasted foods, alcoholic
	beverages. Excessive anger or severe emotional upset, scorching heat and hot climate etc.
Mamsa	Excessive intake of food like meat, fish, milk, etc exudative foods, excessive sleep during day and
	overeating
Medoja	Excessive intake of oily food, sweets, alcohol and lazy attitude

## Clinical features of Medogranthi<sup>[12]</sup>

- Smooth
- Movable
- Glossy
- Large
- Less painful
- Sometimes itching
- On rupture fat simulating oil cake is discharged

# $Treatment\ for\ \textit{Medogranthi}^{[13]}$

The treatment of *granthi* is also vividly mentioned by *Sushruta* as in *medo granthi* apply *Tila Kalka Lepa* (paste of black sesame) and cover it with double folded

cotton cloth, then rubbed frequently with a hot iron rod without producing burn. Or it should be incised first, fat taken out and cauterized. Or incised and washed with urine and treated with cleansing application of the paste of sesamum mixed with suvarchika, orpiment, rock salt, plenty of honey, and ghee and added predominantly with yavakshara.

# Correlation between Medogranthi and Lipoma Table 3.

Properties	Medogranthi	Lipoma
Fat involvement	Yes	Yes
Movability	Yes (charaka)	Yes
Consistency	Soft (komal)	Soft
Increase and decrease with body	Yes	Slowly growing/ did decrease with emaciation of the body
Pain	Mild / painless (Bhavprakash)	Painless/occasionally painfull
Itching	Present	Absent
Does it Burst	Yes	No

### Lipoma

Lipoma is one kind of benign tumour as per modern surgery that resembles with the granthi in general and *medogranthi* as per *Ayurveda*. Lipomas are usually soft, well-circumscribed masses featuring a yellow cut surface. They mostly have a thin capsule. Lipomas are composed of lobules of uniform, mature adipose tissue. Lipomas are diffusely positive for S-100 protein, but this is not specific for lipomas.<sup>[14]</sup> Classic benign lipomas often show chromosomal rearrangements of 12q14-15, 6p and 13q.9.<sup>[15]</sup>

# Clinical features of lipoma<sup>[16]</sup>

- Localised swelling, which is lobular (surface), nontender.
- Semi fluctuant (because fat in body temperature remains in semiliquid).
- Mobile, with edges slipping between the palpating fingers (slip sign).
- Skin is free. Lipomas may be pedunculated at times.
- Pain in lipoma may be due to neural element or compression to nerves or adjacent structures.

- Angiolipomas being highly vascular is commonly tender.
- Trunk is the most common site; nape of neck and limbs are next common.
- Clinically lipoma can be single, multiple or diffuse.

Chhavi et al. Page 82 of 83

Types of Lipoma<sup>[17]</sup>
Table 4:

Superficial	Most common type of lipoma, lie just below the surface of the skin. Most occur in trunk,			
subcutaneous lipomas	thigh, and forearm, although they may be found anywhere in the body where fat is located.			
Angiolipoma	Painful subcutaneous nodules having all other features of typical lipoma			
Angiolipomyomas	Acquired, solitary, asymptomatic acral nodules, characterized histologically by well-circumscribed subcutaneous tumours composed of smooth muscle cells, blood vessels, connective tissue, and fat.			
Chondroid lipoma	Are deep-seated, firm, yellow tumours that characteristically occur on the legs of women.			
Corpus callosum	Lipoma is a rare congenital brain condition that may or may not present with symptoms. This occurs in the corpus callosum, also known as the calossal commissure, which is a wide, flat bundle of neural fibres beneath the cortex in the human brain.			
Hibernomas	Lipomas of brown fat			
Intra dermal spindle cell lipomas	Are distinct in that they most commonly affect women and have a wide distribution, occurring with relatively equal frequency on the head and neck, trunk, and upper and lower extremities			
Neural fibro lipoma	Overgrowth of fibrofatty tissue along a nerve trunk which often leads to nerve compression			
Pleomorphic lipoma	Spindle-cell lipomas,occur for the most part on the backs and neck of elderly men and are characterized by floret giant cells with overlapping nuclei			
Spindle cell lipoma	Are asymptomatic, slow-growing, subcutaneous tumours that have a predilection for the posterior back, neck, and shoulders of older men			

#### **Treatment**

Treatment options are non-excisional and excisional techniques. Non-excisional techniques are steroid injections, which results in fat atrophy, and liposuction, which destroys the adipose tissue. The most common option of treatment of lipomas is simple excision. During excision, surgeon should be sure to remove the tumour with capsule to prevent recurrence. After excision local recurrence percentage is less than 5%. The infiltrated lipomas have higher recurrence percentage than small solitary lipomas. [18]

### DISCUSSION AND CONCLUSION

Reviewing various Ayurvedic texts and contemporary science of medicine, including articles and journals it is observed that there are some similarities in Medogranthi and lipoma. And some dissimilarities also. In ayurvedic texts it is mentioned that there is itching, pain in medogranthi and it bursts but in lipoma there is no itching present neither it bursts. The differences in the two may be because the term *medogranthi* is a wide term and not focused for lipoma only. As there are other swellings also which can be correlated with this such as sebaceous cyst as it sometime causes itching, may be painful when inflamed and may bursts sometimes. Acharya Sushruta has mentioned that in some parts of the body aggravated doshas vitiate muscle and thus produce round firm, with mild pain, large, deep rooted, slowly developing, non- suppurating and, swollen fleshy mass, is known as *Arbuda*. But further while mentioning the types he explains that the lakshanas of arbuda are like that of granthi. [19] But there is difference in samprapti of the both medogranthi and medojarbuda. Hence, it should be widely reviewed on various perspectives the correlation of medogranthi to the modern swelling type.

The age of onset for a lipoma varies, it is typically first seen in patients between the ages of 40 to 60, [20] Treatment used for lipoma is complete excision normally a first choice. Other treatment modalities like liposuction, steroid injection, laser lipolysis, ultrasound associated lipolysis etc. Treatment as per Ayurveda needs to be observed and evaluated, so that an economical and easy approachable treatment can be found for Medogranthi or Lipoma.

### REFERENCES

- 1. Sushruta Samhita by Kaviraj Dr. Ambikadutta Sastri, Sushrutha Samhitha edited with Ayurveda Tatva Sandipika, Varanasi: Choukambha Sanskrit Samsthan, Reprint, Poorvarda, 2015; 11/3: 350.
- Sushruta Samhita by Kaviraj Dr. Ambikadutta Shastri, Sushrutha Samhitha edited with Ayurveda Tatva Sandipika, Varanasi: Choukambha Sanskrit Samsthan, Reprint, poorvardha, nidaansthana, 2015; 11/7: 351.
- 3. A concise textbook of surgery, Somen das. Sixth edition, reprint on, 2011; 10: 114.
- 4. (Roux M (1848) on exostosis: their character. Am J Dent Sc 9: 133–134)1{Oral & Maxillofacial Pathology Journal [OMPJ], 2011; 2(2). ISSN 0976-1225}.
- 5. Lester Thompson. Head and Neck Pathology 2<sup>nd</sup> Edition. Elsevier, 2012; 720.
- 6. Ahmad Charifa; Talel Badrilipomas, pathology https://www.ncbi.nlm.nih.gov/books/NBK482343/.
- 7. Sushruta Samhita by KavirajDr.Ambikadutta Shastri, SushruthaSamhitha edited with Ayurveda Tatva Sandipika, Varanasi: Choukambha Sanskrit Samsthan, Reprint, poorvardha, nidaansthana, 2015; 11/5-9: 351.
- 8. Charka Samhita by Acharya Vidhyadhar Shukla & Prof. Ravidutt Tripathi, Charaka Samhita With

Chhavi et al. Page 83 of 83

Vaidhya Manoramahindi Commentary, Delhi: Choukambha Sanskrit Pratishthan, Reprint, Chikitsa Sthana, 2015; 12/81: 284.

- 9. Sharangdhara Samhita by Late Pt. Khooba Chand Sharma, Lukhnow: Tej Kumar Book Depot Pvt Ltd, Reprint, Khhanda 1, 2014; 7/67: 175-177.
- Astanga Hridaya of Srimada Vagabhatta by Dr.Bramhananda Tripathi, edited by Nirmala hindi commentary, Delhi: Choukambha Sanskrit Pratishthan, Reprint, Uttara Sthana, 2015; 29/2-13: 1099.
- Gupta Sudesh, Mohod Poonam, Bansal Shivani, Singh Hardip, Thapa Anuradha. An Ayurvedic Outlook to Heal Cancer. In J. Res Ayurveda Pharm, 2015; 6(4): 457-462. http://dx.doi.org/10.7897/2277-4343.06489.
- Sushruta Samhita by Kaviraj Dr. Ambikadutta Shastri, Sushrutha Samhitha edited with Ayurveda Tatva Sandipika, Varanasi: Choukambha Sanskrit Samsthan, Reprint, poorvardha, nidaansthana, 2015; 11/7: 351.
- 13. Shushruta Samhita of Sri Dalhanacharya by Vaidya Jadavji Trikamji Acharya, and rest edition by Narayan Ram Acharya Kavyatirtha, Varanasi: Choukambha Surbharati Prakashana, Reprint, chikitsa Sthana, 2012; 18/17-19: 471.
- 14. Andrew L Folpe, Carrie Inwards. Bone and Soft Tissue Pathology 1st Edition. Elsevier, 2010; 97.
- 15. Medina CR, Schneider S, Mitra A, Spears J, Mitra A. Giant submental lipoma: Case report and review of the literature. Can J Plast Surg., 2007; 15(4): 219-22.
- 16. SRB's Manual of Surgery, Shri Ram Bhat M, fourth edition, 2013. Jaypee Brothers Medical Publishers (P) Ltd. Chapter 1-E, 71.
- 17. James, William D.; Berger, Timothy G.; Elston, Dirk M. Andrews' Diseases of the Skin: Clinical Dermatology (10<sup>th</sup> ed). London: Elsevier. ISBN 0-7216-2921-0 https://en.wikipedia.org/wiki/Lipoma#cite\_note-Andrews-7, 2005.
- 18. Derin AT, Yaprak N. Lipomas: Review and Evaluation of the Literature. Clin Surg, 2017; 2: 1615.
- 19. Sushruta; Sushruta Samhita; with Nibandha Sangraha commentary of Sri Dalhanacharya, edited by Priyavrat Sharma; Chaukhamba Vishwabharti; reprint; Nidaansthana, 2005; 11/13-14: 75.
- 20. Ahmad Charifa; Talel Badrilipomas, pathology https://www.ncbi.nlm.nih.gov/books/NBK482343/.