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# Excision of Giant Congenital Ankle Lipoma wsr *Chedana* karma of *Medhaja Granti* - A Single case study.

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# **ABSTRACT:**

Ācharya Suśruta has explained Medaja granthi under the concept of Granthi and it can be correlated to Lipoma in contemporary science. The most common soft tissue tumour in clinical practise is a Lipoma; however, Giant lipomas are extremely rare and are entities of great concern as they can often create a diagnostic dilemma and therapeutic challenge owing to their size, location and their close relationship with other benign and malignant mesenchymal neoplasms. Lipomas are the most common soft tissue tumours. These tumors are rarer in children as compared to the adults. And there have only been a very small number of instances documented globally in the surgical literature.

Here in present a case of a gaint lipoma at Right dorsum of foot in an 8 year old boy which was diagnosed on cytology as well as radiology and successfully managed by complete excision.

**Key words:** Lipoma, Excision, *Medhaja granthi*, *Chedana karma* 

#### INTRODUCTION:

- The Doshas *Vata*, *Pitta*, *Kapha* invades the *Mamsa* and *Asruk*, *Medhas* and *Siras* causes an elevated swelling which is rounded and knotted such swelling is called as *Granthi*. Various types of *Granthi* are mentioned in our classics, according to to *Acharya Sushrutha* six types of *Granthi Vataja*, *Pittaja*, *Kaphaja*, *Raktaja*, *Mamsaja* and *Medaja* have been described<sup>2</sup>. *Medhaja granti* can be correlated to Lipoma in Contemprary science.
- Lipomas are the commonest form of benign soft tissue tumors consisting of mature fat cells encapsulated in a thin fibrous tissue. These neoplastic lesions can occur in any organ of the body that has adipose tissues. Lipomas could occur as solitary or multiple lipomatas.<sup>3</sup>
- Lipomas are slow growing tumors that present as painless, palpable small masses and so are often overlooked by the patients until they get to appreciable sizes. They are mostly subcutaneous but could be sub-fascial or intramuscular and are usually less than 2 cm but some can reach 20 cm in their widest diameters. Large tumors could give rise to pressure symptoms on the surrounding structures like nerves or tubular organs resulting in pain. Stretching of the investing structure including the skin can also give rise to pain<sup>4</sup>.
- In our patient, the location of the tumor on the dorsum of the foot with thin stretched out skin and pressure on the adjacent digital nerves.
- The treatment of choice for lipoma is mainly surgical as this is more likely to ensure a complete removal unlike steroid injection that causes fat atrophy or liposuction which usually would leave some fat tissues and the capsules behind. However, the latter methods leave minimal scars. If steroid injections are repeated, skin hypopigmentation may result. Solitary lipoma of a small size could be left alone but if a patient has cosmetic concern based on it's anatomical location, then irrespective of size, the lipoma should be removed<sup>5</sup>.

# • Correct method of suturing <sup>6</sup>:

ततो व्रण्ं समुन्नाम्य स्थापयित्वा यथा स्थितम्। सिव्येत् सूक्ष्मेण सुत्रेणा वल्केनाश्मन्तकस्य वा॥ (सु. सू 25/20)

The edge of the wound should be raised, both the flaps should brought in to apposition, then Suturing should be done by a fine thread. Now instead of *Ashmanthaka* we were using Vicryl.

#### **CASE PRESENTATION**

A single case study -An 8yr old boy presented with a soft painless mass, (which had been growing since birth) in right foot since 7yrs.

N/K/C/O Juvenile DM; BA; IHD; Epilepsy. Patient has not underwent any kind of surgery.

There is no H/O weight loss / Metastasis / Malignant tumour / Fever

#### **H/O PRESENT ILLNESS:**

As per the statement given by the patient's attender (Mother), he was apparently normal before 7 years. Later at the age of 1 and half year his mother noticed a painless and mobile lump on the dorsal surface of the right foot. It is gradually increasing in size.and, Patient felt difficulty in wearing shoes and clothes. For this condition, he took some folklore medicines and applicants but, the lump didn't subside. Hence, for further management he came to our hospital.

# PERSONAL HISTORY:

Ahara: Mishrahara

Vihara: Madyama

Nidra: Sound sleep

Vyasana: Nothing significant

Mala: Once in a day.

Mutra: 4-5 times/day.

#### **ASTASTHANA PAREEKSHA:**

Nadi: Vataja nadi

Mala: Once in a day, Prakruta

Mutra: 4-5 times a day, Prakruta

Jihwa: Aliptata

Shabda:Prakruta

Sparsha:Prakruta

**Drik**:Prakruta

Akruti: Madhyama.

#### **SAMANYA PAREEKSHA:**

Built: moderately built

Appearance: good

Temparature: afebrile

Pulse:96bpm

RR: 12cpm

Bp:110/70mmHg

Nourishment: Moderately nourishment.

Pallor: Absent

Icterus: Absent

Edema: Present in ankle joint (right)

Cynosis: Absent

Kilonechia: Absent

Clubbing: Absent

# **SYSTEMIC EXAMINATION:**

# **Central nervous system:**

Higher mental function test: Conscious, well oriented to time place and person.

Memory:Recent and remote,intact

Hallucination/delusion/speech disturbance : absent

Cranial nerve/sensory nerve/motor system:normal

Gait:Normal.

# Cardiovascular system:

Inspection: no scar/pigmentation found.

Auscultation: S1 and S2 heard.

Percussion: no cardiac dullness.

# **Respiretory system:**

Inspection: B/L Symmetrical.

O/P:Trachea is centrally placed, non tender.

Auscultation: B/L NVBS heard.

Percussion: Normal resonant sound.

# **Gastrointestinal track**:

Inspection: Umbilicus centrally placed.

Not destended, No visible scar /vein/pigmentation.

O/P: soft, non tender, not distended, no organomegaly.

no dullness sound heard.

# Musculo skeleton system examination:

All range of movement possible, with out pain/difficulty.

Flexion; extension; rotation are possible.

#### LOCAL EXAMINATION:

# ON INSPECTION:

**Site:** Anterior aspect right foot, superficial to tibialis tendon.

No pain, tenderness

**Shape**:Oval shape

Size: Measuring- 7.9 x 7x 2.6cm

Number: 1 in number

#### **ON PALPATION:**

Dorsalis pedis artery and Posterior tibial artery present.

**Temperature:** Normal

Surface and Margin: Smoot surface and regular margin.

**Mobility:** Mobile

Tenderness: Absent

Consistency: soft

Fluctuation Test: Positive

Fluid trill test: Negative

Trans -illumination test: Positive

Sign of compressibility: Negative

Slip Test: Positive

Fixity to the overlying skin: Present

### **INVESTIGATION:**

FNAC right foot swelling

Microscopic: Smear shows many clusters of mature adipocytes.

Impression - Lipoma

- X-Ray Right foot AP and Oblique view: Well defined oval shaped soft tissue swelling noted in subcutaneous plane in medial aspect of ankle and hind foot.
- USG: Well defined isoechoic lesion measuring 7.9 X7.0 X 2.6cm noted in subcutaneous plane over extensor aspect of foot crossing the joint located superficial to tibialis tendon.

No internal extension. No calcification / vascularity. Benign lesion suggestive of lipoma.

#### **SURGICAL PROCEDURE:**

Prior excision, informed written consent was taken,

Inj Xylocaine (test dose) was given,

Inj T.T 0.5cc (IM) was given,



Under all aseptic Measures Pt was shifted to major OT,



Spinal Anesthesia was given.



Part prepared Painted and draped.

Linear incision was taken to the dorsum of the foot

excision of Lipoma was done.



Following which the margins of the wound is approximated in proper alignment with Vicryl 3-0, wound is sutured to create a minimally visible scar line.

# **OBSEVATIONAL FINDINGS:**



Image 1,Pre operative -Lipoma in the Right ankle ankle





Image 2,3-During the operation



Image 4,Exision of the Lipoma



Image 5,Excised Lipoma Mass



Image 6, Wound closure



Image 7,Suturing



Image 8,Post operative 1 -week



Image 9, follow up-After 1 month

#### **DISCUSSION:**

- *Medoja Granthi* is smooth, large or small in size, less painful, and sometimes causes itching. *Granthi* contains an excessive amount of *Medas*.<sup>6</sup>
- Ayurveda line of treatment includes both preventive and curative measures for Medhaja Granthi. Various medicines, Lepa, Rakta Mokshana, Upnaha, and Agnikarma are described, also Shastra Karma like Bhedana (Incision), and Chedana (Excision) has been adopted for the management of Granthis<sup>7</sup>. Acharya Charaka mentioned that the Granthi should be removed along with the capsule in Shotha Chikitsa<sup>8</sup>.
- Solitary lipoma of a small size could be left alone but if a patient has cosmetic concern based on it's anatomical location, then irrespective of size, the lipoma should be removed. The excision of the mass in our patient was made possible by the good plane avoiding injuries to the digital nerves and the dorsalis pedis artery and the patient recovered without post-operative wound infection<sup>9</sup>.

### **CONCLUSION:**

Lipomas are the commonest form of benign soft tissue tumors consisting of mature fat cells encapsulated in a thin fibrous tissue. The diagnosis must be based on physical examination and imaging tests. The definitive treatment is complete surgical removal and strict follow up as the recurrence is possible.

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