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# <sup>1</sup> Cavernous Lymphangioma of Unusual Location: A Case Report

2 3	Dr. Rajesh B. Dhirawani <sup>1</sup> , Dr. Ankit Sharma <sup>2</sup> , Dr. Sanyog Pathak <sup>3</sup> , Dr. Sumit Asrani <sup>4</sup> , Dr. Garvita Sahu <sup>5</sup> and Dr. Ankit Gupta <sup>6</sup>
4	$^{1}$ Hitkarini Dental College and Hospital, Jabal pur, India
5	Received: 13 December 2018 Accepted: 3 January 2019 Published: 15 January 2019

#### 7 Abstract

<sup>8</sup> Lymphangioma is a benign tumor leading to hyperplasia of lymphatic vessels. The gold

<sup>9</sup> standard for treating lymphangiomas is surgical resection; alternative options being,

<sup>10</sup> sclerotherapy reduces the impact and complications of surgery.

11

12 Index terms— lymphangioma, cavernous lymphangioma, lymph.

### 13 **1** Introduction

ymphangioma is a benign tumor involving the proliferation of lymphatic vessels. The commonly affected regions
are head and neck, presenting two-thirds of cases at birth and 90% by the second year of life, and some victims may
not manifest lifelong. [1,2] Lymphangioma formed along the tissue planes or penetrate in adjacent tissues, become
canalized and accumulates fluid in them. These are classified into three types, namely Capillary lymphangioma,
Cavernous lymphangioma, and Cystic hygroma. [2] Another variety being Hemolymphangioma shows vascular
as well as lymphatic component.
These hamartomatous lesions contain clear lymph fluid, but some may present clinically as transparent vesicles

containing RBCs because of extravasation. Mostly superficial, presenting as a swelling or a mass, but some may extend deeply involving the connective tissue. Amongst these, Cavernous lymphangioma contains dilated
sinusoidal endothelium-lined vascular channels devoid of erythrocytes and may appear as subcutaneous nodules,
with a rubbery consistency. [3] These are certainly demarcated from capillary lymphangioma. The overlying skin does not show any lesions or changes.

## 26 **2** II.

## <sup>27</sup> 3 Materials and Methods

Cavernous lymphangioma of cheek region is discussed in the present article. The lesion presented with vestibular obliteration on the ipsilateral side and extending to the left maxilla. Diagnosis was made based on radio imagning and histopathology. Both clinical and histological features for proper management concerning this hamartomatous entity are incorporated in the present article.

## 32 **4 III.**

## 33 5 Case Report

A 30-year-old male reported to our department with complaint of slow-growing mass in the right cheek region for ten years giving an unaesthetic appearance. There were no associated symptoms like pain and discharge. He noticed a gradual increase in size for three years. There was no history of trauma or any past illnesses. He complained of mild restriction during mouth opening.

Extra-oral examination revealed facial asymmetry concerning the right middle third of the face, round to oval solitary diffuse swelling extending from the right lateral ala of the nose to preauricular region anteroposteriorly and from right inferior orbital rim to the right commissure area supero-inferiorly. The lesion was measured about

 $3 \times 3$  cms in diameter with no change in the color of overlying skin and evident obliteration of the right nasolabial

42 groove [Figure 1].

#### 43 6 Discussion

44 Oral lymphangiomas usually involve anterior tongue, causing macroglossia, lips, and buccal mucosa. Clinically 45 they appear as nodular or elevated masses and may resemble surrounding mucosa. Histopathologically multiple 46 intervening lymphatic channels are contained within a loose fibrovascular stroma. Lymphangioma is usually 47 confused with hemangiomas very often. The absence of valves and the presence of numerous erythrocytes in 48 hemangiomas is a characteristic feature for differentiation.

The origin of this abnormality explained on the basis of three theories. The first theory entails about any blockage or disruption in the growth of primitive lymph channels during embryogenesis; the second states that the primary lymphatic sac does not communicate the venous system, while the third hypothesized, that lymphatic tissue was laid down in the faulty region during embryogenesis.

Poor aesthetics becomes the primary concern in patients with cavernous lymphangioma of the cheek. In 53 this case, the lesion was present on the right cheek region with unaltered speech or breathing. Differential 54 diagnoses include hemangioma, lipoma, amyloidosis, neurofibroma. Lymphangioma accounts for about 6% of 55 all tumors, is benign vascular malformation. Lymphangioma of the cheek is a rare entity that often shows 56 slow progressive enlargement of the lesion resulting in swelling over the affected region. Whereas, it can be 57 associated with syndromes like Turner's syndrome, Noonan's syndrome, trisomies, cardiac anomalies, fetal 58 hydrops. Treatment depends on the size and location of the lesion, proximity to anatomic structures, and 59 infiltrating into the surrounding tissues, further complicating treatment. Macrocystic lesions are localized and 60 can be excised easily, while microcystic lesions are diffuse and are difficult to remove into Completely excised mass 61 with two cms of safe margin, involving complete depth removed from the adjacent unaffected mucosa. No after-62 surgery complications like wound dehiscence and scarring were noticed figure [6]. Regular follow up at definite 63

time intervals are being done for assessing the recurrence. There are ample of techniques for management of
this benign lesion like surgical resection, radiotherapy, cryotherapy, electrocautery, sclerotherapy, administration
of steroids, embolization, ligation, laser surgery, and radiofrequency tissue ablation technique. [4] A definitive

<sup>67</sup> diagnosis and intervention help to reduce the functional, psychological disturbances, and cosmesis.

Surgery is considered to be the gold standard and is the treatment of choice for every surgeon, but the absence of capsule and infiltrating nature of the tumor makes complete removal next to impossible, and therefore chances of recurrence are more often.

71 Lymphangiomas did not response to sclerosing agents like hemangiomas.

72 V.

### 73 7 Conclusion

74 The Differential diagnosis in cases of soft tissue swelling of the buccal mucosa should involve the lymphangioma.

75 As earlier diagnosis will help in better treatment options for the patient. In the present study, surgical excision

<sup>76</sup> seems to be the safe and effective treatment of lymphangioma, preventing further recurrence in the future.

77 Conflicts of Interest: Jabalpur Hospital and Research Center, Jabalpur (M.P.).

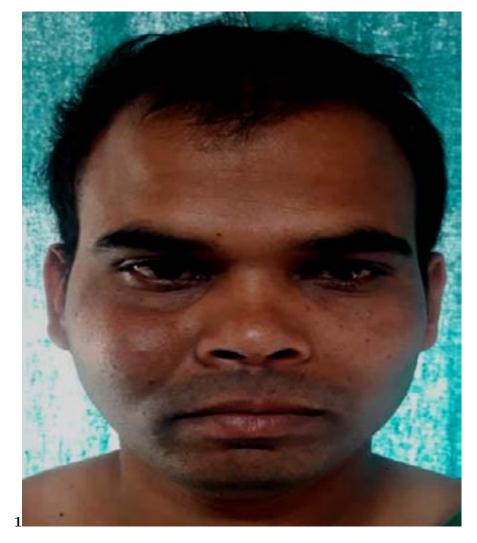


Figure 1: Figure 1 :

0	Tabalpure Department of LABORAT
	Tabalpur Hospital & Research Centre
NAME	- MR. UMESH KUMAR
AGE/SEX	:- 30 Y/M
LAB NO.	:- 30404
DATE	- 07/2/2019
WARD	- OPD
REF. BY	- DR. RBD
	DEPARTMENT OF PATHOLOGY FNAC LUMP RIGHT SIDE FACE
GROSS	- SWEELING / LUMP RIGHT SIXE FACE
	ABOUT 3+3 cm SIZED SOFT COMPRESSIBLE MASS FELT JENAC DONE.
	BLOODY ASPIRATE CAME OUT.
M/E	> H. & E. STAINED SMEAR REVEALS :
	FAT VELLS HAVING ECCENTRICALY PLACED NUCLEI AND EMPTY LOOKIN CYTOPLASM.
	FATTY MATERIAL     PLENTY OF INFLAMMATORY CELLS CHIEFLY POLYMORPHS FEW
	LYMPHOCYTES SEEN.
	> BACKGROUND IS FULL OF RBCS
ADVICE	- BIOPSY FORFINAL CONCLUSION
	PATHOLOGIST

Figure 2: Fine



Figure 3: Figure 2 :

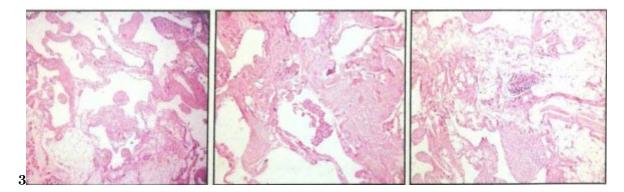


Figure 4: Figure 3 :



Figure 5: Figure 4 :



Figure 6: Figure 5 :

### 7 CONCLUSION

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