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Mucocele of Lower Lip Treated with Constitutional Homoeopathic Medicine Calcarea Carbonicum - A Case Report

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Abstract: ***Mucocele is a common lesion of the oral mucosa that results from an alteration of minor salivary glands due to a mucous accumulation. Mucocele involves mucin accumulation causing limited swelling [1]. It is the most common minor (accessory) salivary gland lesion affecting the general population. Minor salivary glands are found in most parts of the oral cavity except the gingiva. The prevalence of mucocele is 2.5 lesions per 1000 population in America, 0.11% in Sweden and 0.08% in Brazil[2]. Case Summary: A 4-year old male child presented with a complaint of a swelling over the mucosa of the lower lip. Initially the swelling was small but it increased in size over 4 weeks. After a detailed case study and repertorisation, the patient was prescribed CALCAREA CARB 200C, once in 2 weeks, for 8 weeks. This case shows the usefulness of Calcarea carb 200C in the treatment of mucocele of lower lip.***

Keywords: Mucocele, Constitutional Medicine, Homoeopathy, Calcarea carb

1. Introduction

Oral mucoceles (OMs) are benign soft tissue masses and are clinically characterized by single or multiple, painless, soft, smooth, spherical, translucent, fluctuant nodule, which is usually asymptomatic [3]. Two types of mucocele can appear - extravasation and retention. Extravasation mucocele results from a broken salivary glands duct and the consequent spillage into the soft tissues around this gland. Retention mucocele appears due to a decrease or absence of glandular secretion produced by blockage of the salivary gland ducts [4]. Mucocele is painless and have a tendency to relapse. Mucocele clinically appear as an asymptomatic vesicle or bulla with a pink or bluish-colour, and their size may vary from 1 mm to several centimetres and affect both genders in all age groups [5] especially second decades. Oral mucoceles are usually dome-shaped enlargement with intact epithelium[6]. International classification of disease 10-clinical Modification diagnosis code for mucocele of salivary gland is K11.6 [7].

2. Patient Information

A 4 -year old male child complaints of a small, painless swelling over mucosa in lower lip for past 3 weeks, which gradually began to grow bigger size as now. While consulting a dental surgeon he advised surgical excision. Parents not wish to have a surgery, so they came for Homoeopathic treatment. There was no history of pain, discharge or ulcer. He was a full- term normal hospital delivery with a birth of 3.5kg .His milestones were normal.

Life Space Investigation

The patient belongs to a middle class family. His father was a business man and mother was home maker. He liked to going to school and easily mingled with his friends. He is more attached to his mother. He was afraid of darkness and somewhat shy to strangers. He is irritable often.

Physical Generals

The patient has excessive thirst for normal water and had good appetite. He was fond of bakery foods and chocolate. The patient was chilly.

Clinical Findings

The patient was well oriented, alert and co operative. He was lean with fair complexion. Clinically no signs of anaemia, cyanosis, clubbing, jaundice or, odema were observed. Tongue white coated. His weight was 18kg. On local examination, the swelling was soft, oval, painless and fluctuant with no warmth.

Lab Findings

The blood investigations reports are Hb:13mg/dl. WBC:4.6 x 10^3 per cubic ml. Neutrophil:62%. Lymphocytes:28 %. Eosinophils:10 %. ESR 4 mm/hr.

Totality of Symptoms

- Irritable +
- Chilly patient+
- Fear of darkness.
- Shy towards strangers.
- Thirst increased for normal water +++
- Tongue white coated +++
- Mucus cyst on the lower lip +++

Repertorisation

Symptoms: 6 Remedies: 261 | Applied Filter

Remedy Name	Calc	Sulph	Caust	Lyc	Puls	Phos
Totality / Symptom Covered	13 / 6	13 / 5	11 / 6	11 / 6	11 / 6	11 / 5
Kent] [Mind]Contrary (see obstinate,irritable): (48)	1	2	1	1	2	1
Kent] [Mind]Fear (see anxiety):Dark: (22)	2		2	2	2	2
Kent] [Mind]Timidity: (78)	3	3	2	3	2	3
Kent] [Stomach]Thirst: (211)	3	3	3	1	1	3
Kent] [Mouth]Discoloration:Tongue:White: (169)	3	3	1	2	3	2
Kent] [Face]Swelling:Lips:Lower: (19)	1	2	2	2	1	

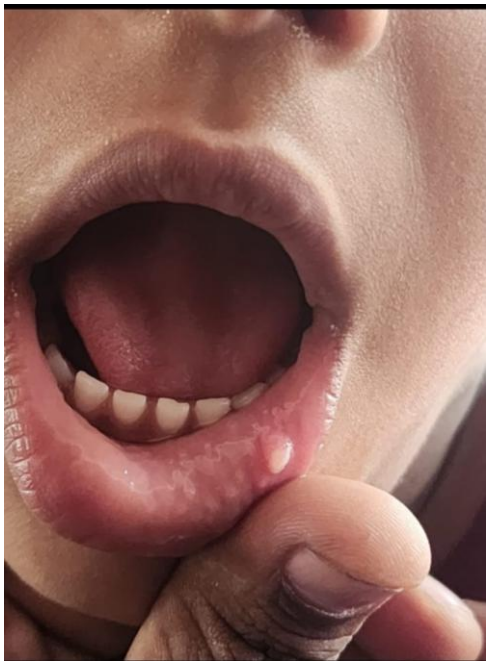
Therapeutic Intervention

Based on repertorial result the patient was given Calcarea carb 200/1D to be taken once in 2 weeks for 8 weeks. In between placebos were given. A marked improvement is seen within 2 weeks and in last visit after 7 weeks, all the complaints were completely resolved.

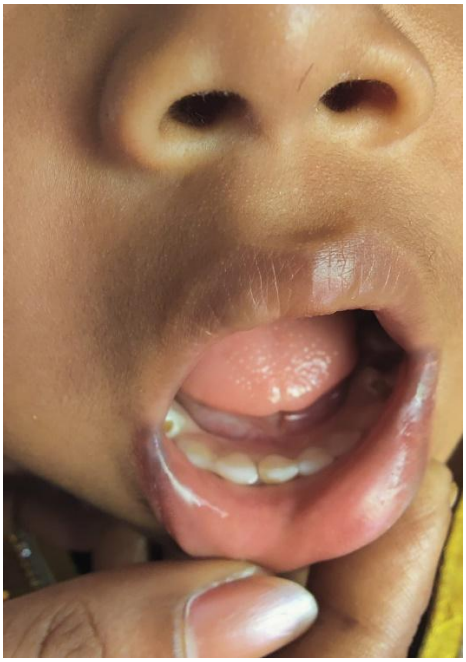
Prescription and Follow Up

Date	Symptom changes	Prescription
10/6/2024	Small mucocele, about 3 mm size	Calcarea carb 200/1D Placebo 2 pills 3 times
22/6/2024	Size slightly reduced, Clean tongue.	SL/1D Placebo 2 pills 3 times
11/7/2024	The size of swelling remains same.	Calcarea carb 200/1D Placebo 2 pills 3 times
23/7/2024	Swelling completely reduced. No other complaints.	SL/1D Placebo 2 pills 3 times
29/7/2024	No complaints.	SL/1D

Before treatment



After treatment



3. Discussion

Mucocele are mostly benign and self-limiting nature, primarily diagnosed based on clinical findings followed by definitive diagnosis based on the histopathological investigation. Most of the reported literature showed lesion arose followed by trauma and habitual lip biting. Mucocele is the 17th most common salivary gland lesions seen in the oral cavity. Although surgery is routinely employed, it has significant drawbacks, including lip deformity and harm to nearby ducts. The present case was diagnosed as a lower lip mucocele extravasation type based on the history, examination findings and dental surgeon's report.

The mucous retention phenomenon appears within a few days, grows to a specific size and might last for months if not treated. Furthermore, the duration of lesions varies from a few days to 3 years [8]. However, the Homoeopathic constitutional medicine Calcarea carb 200/ 1 dose, prescribed at 2-week intervals for a period of 8 weeks showed positive results in

patients' complaints. In subsequent follow-up, the cysts completely resolved at the end of treatment.

4. Conclusion

This case brings to light the usefulness of Calcarea carb 200C in the treatment of mucocele of the lower lip and also improvement in the overall well-being of the patient with no recurrence of the complaints.

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