

# Sialodocholithiasis and Sialadenitis Secondary to Large Mandibular Tori: A Case Report

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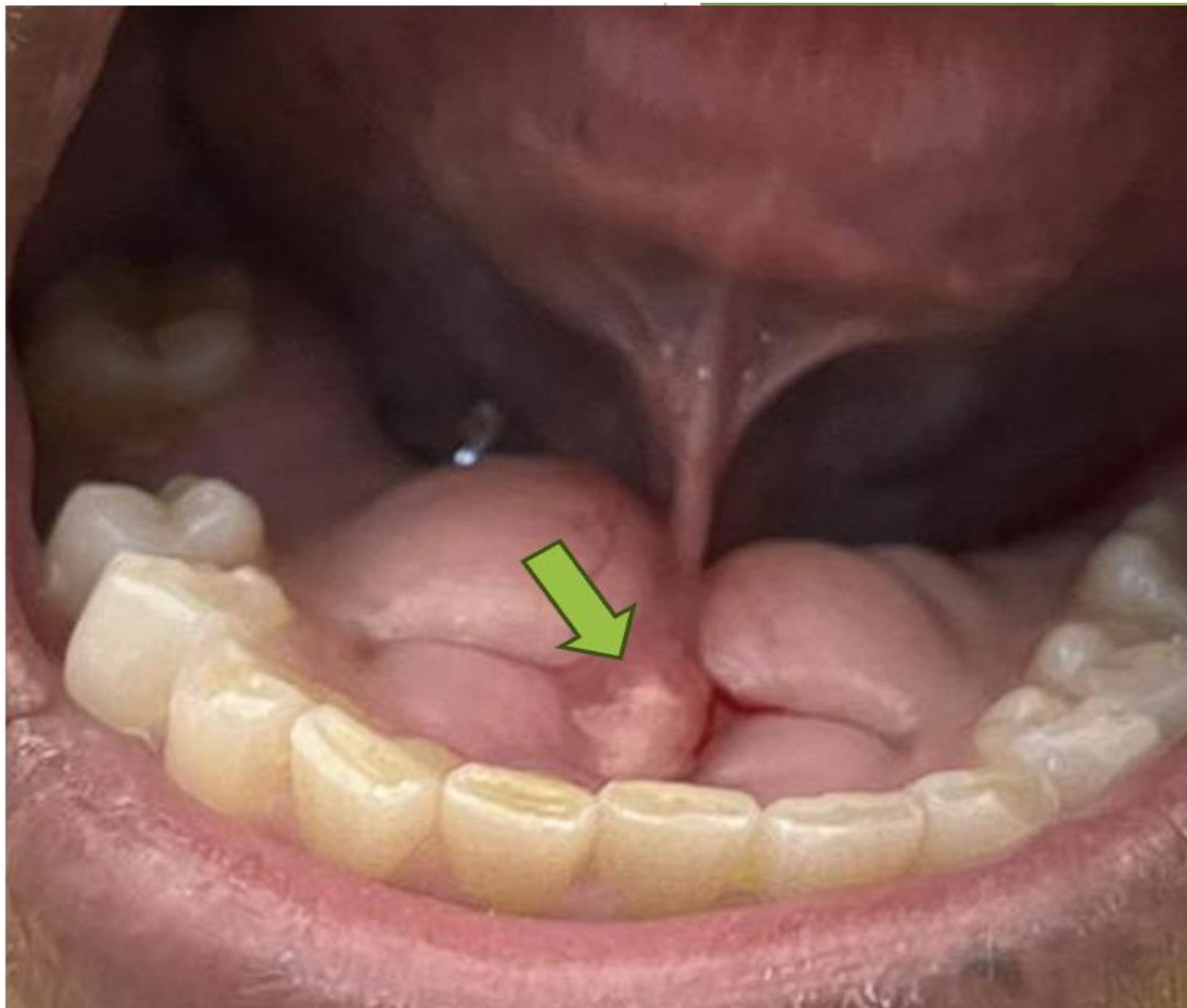
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## Background

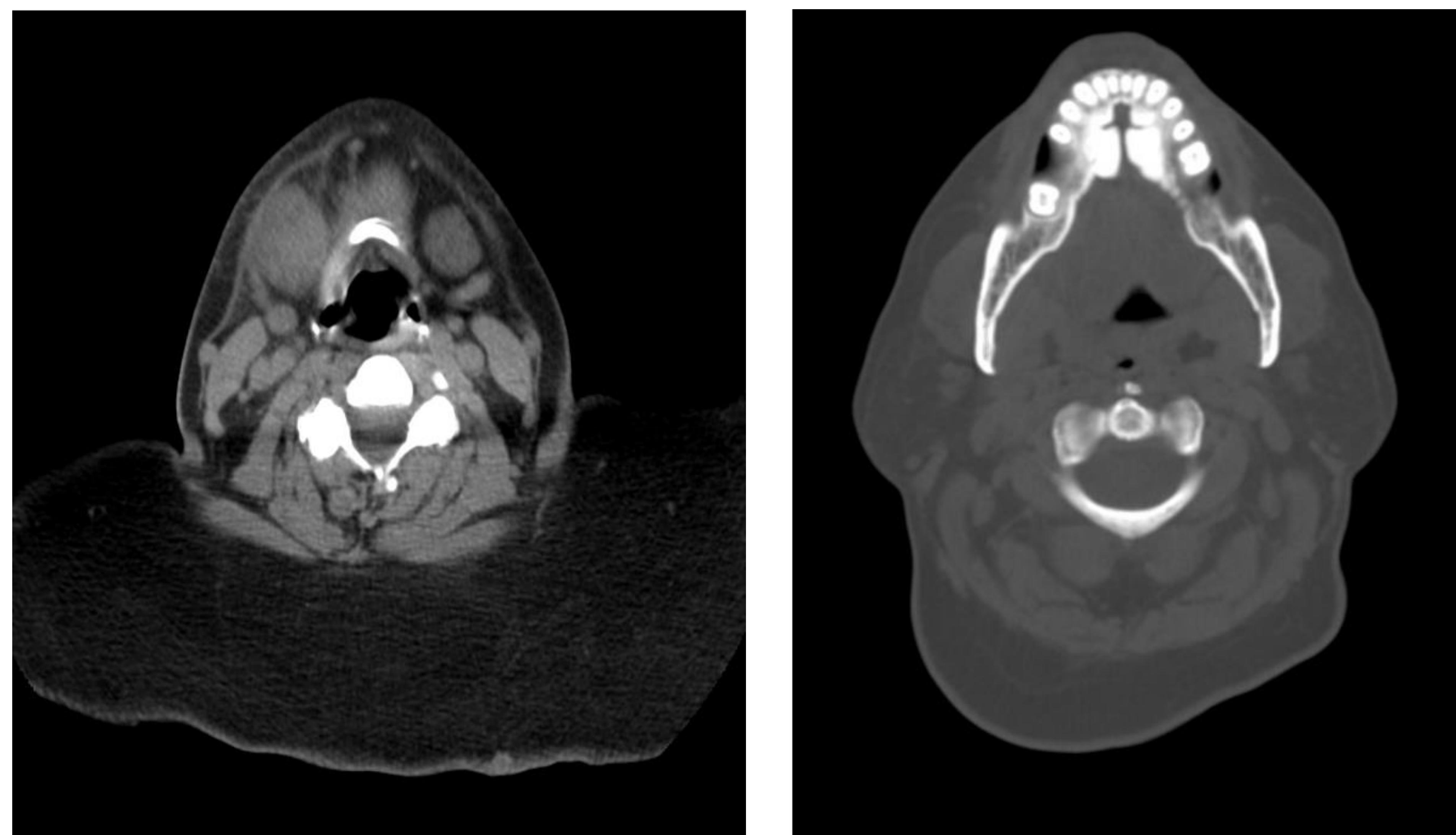
- Mandibular tori (MT), or torus mandibularis, are bony outgrowths of the lingual surface of the mandible, with an unknown etiology, affecting 10-30% of adults<sup>1</sup>.
- They are generally asymptomatic; however, recent reports suggest that large MT may play a role in the development of sialadenitis and sialolithiasis due to obstruction of Wharton's duct.

## Case Description

- A 58-year-old woman presented with a relapsing course of painless bilateral submandibular neck swelling and dysgeusia.
- Physical examination showed large mandibular tori, obstructing view of Wharton's ducts bilaterally. A stone was visualized at the opening of the right Wharton's duct upon raising the tongue to the roof of the mouth.
- CT revealed sialadenitis of the right submandibular gland with sialodocholithiasis in the presence of large MT obstructing Wharton's ducts bilaterally.
- Bedside sialodocholithotomy was performed utilizing a trans-oral duct cutdown and was more difficult in the presence of large MT.
- Expression of thickened, purulent saliva followed by clear saliva from the right Wharton's duct signaled relief of obstruction.
- The patient's symptoms resolved with a post-operative course of antibiotic therapy.



**Figure 1:** Patient's stone in the right submandibular duct (indicated by the green arrow) with large mandibular tori present bilaterally



**Figure 2:**

- Non contrast CT of the neck, soft tissue windows, showing an enlarged right submandibular gland with surrounding inflammation, consistent with sialadenitis
- Non contrast CT of the neck, bone windows, showing prominent mandibular tori

## Discussion

- Mandibular tori are nonpathological bony outgrowths that can obstruct adequate oral hygiene, impair occlusion, or impair ductal access<sup>2,3</sup>.
- Large mandibular tori can obstruct the submandibular duct leading to sialadenitis and potentially increase the risk of sialolith development<sup>3</sup>.
- In this case and others, MT have been shown to delay diagnosis and treatment of sialoliths by preventing ductal access.
- Due to the demonstrated size related complications of mandibular tori, future research should be done on other potential local effects of these outgrowths like ductal obstruction.
- Additional research into the role of elective removal of MT in diagnosis and treatment of salivary gland disorder should be considered.

## Conclusions

- This case highlights the potential impact of large mandibular tori (MT), particularly their role in obstructing Wharton's duct and contributing to salivary gland disorders.
- While MT are typically asymptomatic, their presence can complicate the diagnosis and management of sialadenitis and sialodocholithiasis.

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