

Mucocoele

- [Isolated sphenoid sinus fungal mucocoeles: A rare entity with a high propensity for causing neurological complications](#)
- [Delayed Post-traumatic Frontal Mucocoele Occurrence: A Case Report](#)
- [Delayed tension pneumocephalus and mucocoele caused by nasal mucosa insertion into the cranial cavity: a report on histopathological considerations](#)
- [A Cadaveric Feasibility Study of the Biportal Endoscopic Transfrontal Sinus Approach: A Minimally Invasive Approach to the Anterior Cranial Fossa](#)
- [Frontal sinus reconstruction with overlapping sinus mucosa and vascularized pericranial flap Coverage after modified transbasal bifrontal craniotomy: Novel technique and clinical outcomes](#)
- [Giant frontal sinus mucocoele mimicked a primary brain tumor: A case report](#)
- [Endoscopic endonasal transsphenoidal surgery for unusual sellar lesions: eight cases and review of the literature](#)
- ["Open-window" craniectomy for the removal of frontal sinus mucosa to prevent a delayed mucocoele: illustrative case](#)

A [mucocoele](#) is a cystic and expansive lesion of the [sinus](#) cavities.

Any dilatation (typically pathologic) with an accumulation of mucus. Examples include:

Oral mucocoele

Mucocoele of the petrous apex

[Paranasal sinus mucocoele](#)

[Sphenoid sinus mucocoele](#)

Mucocoele of appendix

Gallbladder mucocoele

Harada et al. report a rare case in which a [pituitary tumor](#) co-occurred with a giant mucocoele. The mucocoele's computed tomography(CT)values fell markedly when it collapsed, and they report the associated considerations.

This case involved a 42-year-old male patient. For 20 years, his visual acuity had progressively declined, and it suddenly rapidly worsened over a month. Cranial CT revealed a massive tumor in the [sphenoid sinus](#) and a pituitary tumor. A region of high absorption extended from the [paranasal sinus](#) to the [skull base](#). Two days after the patient's initial presentation, he experienced a sudden loss of [vision](#). Therefore, they performed an urgent re-examination. The CT value of the paranasal lesion was found to have sharply declined. The sinus lesion was diagnosed as a mucocoele. Emergent endoscopic surgery was performed. [Actinomyces meyeri](#) was detected in the samples cultures.

The causes of mucocoele exhibiting abnormally high signal intensity on CT include the accumulation of hemosiderin due to repeated bleeding in the cyst. Furthermore, we inferred that the Actinomyces

meyeri had been taking up metallic elements in vivo for a long time. The marked reduction in the lesion's CT value was considered to have been due to the destruction of the mucocoele. The contents of the mucocoele flowed out and were replaced with newly produced mucus, which exhibits low absorption values.

They treated a patient with a giant mucocoele involving distraction of the frontal base and a pituitary neuroendocrine tumor. In such cases, surgery should be performed when visual acuity deteriorates suddenly ¹⁾.

Complications

Intracranial extension and superinfection of these lesions are rare but serious complications of chronic mucocoeles.

Case reports

A patient with a known mucocoele, initially lost to follow-up, who presented three years later with headache, purulent rhinorrhea, and intracranial extension of his mucocoele with development of an epidural abscess. This case highlights the potential complications of chronic, large mucocoeles and emphasizes the importance of thorough evaluation in patients with facial abscesses in the setting of known sinus pathology. Any mucocoele with signs of superinfection such as purulent rhinorrhea, abscess near the sinuses, or refractory symptoms should warrant cranial imaging. Mucocoeles with evidence of intracranial extension require neurosurgical and/or otolaryngologic evaluation for evacuation and debridement to avoid neurologic injury or devastating infection ²⁾.

¹⁾

Harada N, Sakaeyama Y, Node Y, Okonogi S, Ueda K, Andoh S, Masuda H, Kondo K, Nemoto M, Sugo N. [Acute Changes in the Computed Tomography Findings of Mucocoele Combined with pituitary neuroendocrine tumor:A Case Report]. No Shinkei Geka. 2018 Nov;46(11):1013-1020. doi: 10.11477/mf.1436203856. Japanese. PubMed PMID: 30458439.

²⁾

Naik D, Aten K, Lopez D, Patel J. A Real Headache: Intracranial Extension and Epidural Abscess As Complication of Chronic Mucocoele. Cureus. 2023 Dec 3;15(12):e49875. doi: 10.7759/cureus.49875. PMID: 38170035; PMCID: PMC10760984.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=mucocoele>

Last update: **2024/06/07 02:51**

