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**“Post-traumatic temporal bone pneumatocele presenting after aggressive Valsalva”**

**Objectives:** To report a unique case of a post-traumatic temporal bone pneumatocele associated with aggressive Valsalva maneuvers, and to review similar cases reported in the medical literature in order to understand the etiology.

**Methods:** The patient’s electronic health record was reviewed to report history, physical exam findings and radiological images. All the literature reviewed was found using PubMed.

**Results:** We report a case of a temporal bone pneumatocele with full thickness erosion of the cranium associated with aggressive nose blowing. This condition presented nine years after traumatic fracture of the temporal bone. There are 17 reported cases of mastoid sinus hyperpneumatization in the literature. Eleven of the 17 are associated with Valsalva maneuvers or elevated middle ear pressure. However, no other cases of full thickness erosion at the site of a former fracture have been reported.

**Conclusion:** We propose that the fracture, in combination with elevated mastoid sinus pressure from aggressive nose blowing, lead to escape and trapping of pressurized air in the epidural and subcutaneous spaces, which resulted in bone erosion.