Swelling of single or multiple major salivary glands can be caused by various local or systemic diseases. In differential diagnosis, congenital cystic or vascular malformations should be considered, as well as infectious or tumorous alterations. Salivary duct obstructions due to sialolithiasis or stenosis can cause salivary gland enlargement. Multiple systemic diseases can have manifestations in the parotid or submandibular glands. As therapy varies from cause to cause, knowledge of the different potential diagnoses is crucial.