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diagnosis is made by imaging e g ultrasonography computed tomography magnetic resonance imaging and biopsy initially with fine needle aspiration overall most salivary gland tumors however the advent of cross sectional imaging techniques such as computed tomography ct and magnetic resonance imaging mri have revolutionized the imaging of salivary glands this article illustrates the role of imaging in evaluating the variegated disease pattern of the major salivary glands the anterior and posterior parts of the pituitary gland are distinct on mri the anterior part is isointense on both t1 and t2 weighted images the posterior pituitary has intrinsic high t1 signal and is of a hypointense signal on t2 weighted images 1 many imaging techniques are available for the salivary glands including plain radiography sialography ultrasonography us computed tomography ct magnetic resonance imaging mri radionuclide scintigraphy and positron emission tomography computed tomography pet ct the parotid gland is the largest of the paired major salivary glands located in the parotid space it secretes predominantly serous saliva via the parotid duct into the oral cavity to facilitate mastication and swallowing during meals and mastication the parotid gland is responsible for most of the saliva produced 14 gross anatomy the diagnostic modalities available for salivary gland imaging include plain radiography ultrasonography us computed tomography ct magnetic resonance imaging mri and sialography mr imaging is the method of choice in patients with palpable salivary gland masses to assess the exact extent of tumours the invasion of neighbouring structures perineural spread and lymph node staging diagnostic imaging of salivary gland disease may be useful in distinguishing diffuse involvement from focal suppurative involvement differentiate and identify neoplastic processes from background radiomics of salivary gland imaging can support clinical decisions in different clinical scenarios such as tumors radiation induced xerostomia and sialadenitis this review aims to evaluate the methodological quality of radiomics studies on salivary gland imaging contrast enhanced computed tomography is the initial diagnostic test of choice in adults computed tomography angiography is recommended over magnetic resonance angiography for the evaluation ultrasonography is the first line imaging modality for salivary gland diseases followed by sialography ct and mri are helpful in determining the extent and nature of pathology particularly in salivary gland tumors ct and mri can be combined with sialography whenever and wherever necessary practice variations in salivary gland imaging and utility of virtual unenhanced dual energy ct images for the detection of major salivary gland stones pmid 17233226 doi 10 1053 j sult 2006 09 001 abstract this article describes the anatomy of the salivary glands highlighting those anatomical features that are relevant to the radiologist magnetic resonance images with super imposed line illustrations have been used to aid the understanding of the anatomy of this region publication types also mri based quantification of adrenal gland volume as a marker for chronic hpa axis activation is a newer imaging biomarker which still has to establish itself as a standard method for mr imaging of palatine gland lesion associated igg4 related disease a preliminary study jpn j radiol 2020 aug 38 8 746 752 doi 10 1007 s11604 020 00968 8 epub 2020 apr 6 authors akira baba 1 satoshi matsushima 2 keiko toyoda 3 hideomi yamauchi 2 koshi ikeda 2 koichiro sugimoto 2 hiroya ojiri 2 affiliations the salivary glands within the head and neck secrete various enzymes useful for mastication and digestion they can be divided into major and minor salivary glands helical tomotherapy based megavoltage computed tomography mvct imaging during the tomotherapy treatment can be applied to monitor the successive variations in the parotid glands while manual segmentation is time consuming laborious and subjective automatic segmentation is quite challenging due to the complicated anatomical environment of hence imaging plays a major role in deciding the further plan of management salivary gland type lung carcinomas are uncommon neoplasms of the lung representing less than 1 of all lung tumors the two most common among them are adenoid cystic carcinoma and mucoepidermoid carcinoma this article will discuss the various imaging modalities for the pituitary gland their indications and their limitations the pituitary is an important endocrine gland located at the base of the brain multispectral narrow band imaging and white light endoscopy wle were used in ml to detect oropharyngeal carcinoma opc by mascharak et al 2018 12 as a concluding remark an ai ml algorithm combining the pet ct mri image analysis and exosomal markers

analysis could deliver a precise diagnostic tool figure 1 moreover the ai generated

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however the advent of cross sectional imaging techniques such as computed tomography ct and magnetic resonance imaging mri have revolutionized the imaging of salivary glands this article illustrates the role of imaging in evaluating the variegated disease pattern of the major salivary glands

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many imaging techniques are available for the salivary glands including plain radiography sialography ultrasonography us computed tomography ct magnetic resonance imaging mri radionuclide scintigraphy and positron emission tomography computed tomography pet ct

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diagnostic imaging of salivary gland disease may be useful in distinguishing diffuse involvement from focal suppurative involvement differentiate and identify neoplastic processes from

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background radiomics of salivary gland imaging can support clinical decisions in different clinical scenarios such as tumors radiation induced xerostomia and sialadenitis this review aims to evaluate the methodological quality of radiomics studies on salivary gland imaging

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contrast enhanced computed tomography is the initial diagnostic test of choice in adults computed tomography angiography is recommended over magnetic resonance angiography for the evaluation

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the salivary glands within the head and neck secrete various enzymes useful for mastication and digestion they can be divided into major and minor salivary glands

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helical tomotherapy based megavoltage computed tomography mvct imaging during the tomotherapy treatment can be applied to monitor the successive variations in the parotid glands while manual segmentation is time consuming laborious and subjective automatic segmentation is quite challenging due to the complicated anatomical environment of

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hence imaging plays a major role in deciding the further plan of management salivary gland type lung carcinomas are uncommon neoplasms of the lung representing less than 1 of all lung tumors the two most common among them are adenoid cystic carcinoma and mucoepidermoid carcinoma

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this article will discuss the various imaging modalities for the pituitary gland their indications and their limitations the pituitary is an important endocrine gland located at the base of the brain

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