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DIAGNOSTIC IMAGING MODALITIES IN PAROTID GLAND ENLARGEMENT

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ABSTRACT

Twenty patients with various parotid gland enlargement were selected from outpatient dental clinic. The classical sign of the parotid enlargement is swelling which may by localized as inflammatory, cystic, neoplastic or associated with systemic diseases as diabetes mellitus, sjogren's syndrome and may occur after ingestion of certain drugs or metals. These heterogeneous pathological swellings have great morphological variation that need various diagnostic imaging modalities to be visualized. The favoured modality has been evolved from plain radiography, to sialography, scintigraphy, ultrasonogrphy and to computed tomography. The application and limitation of eah modality were presented.

Review of Literatures:

The superficial location of the parotid gland lesions make them well suited for diagnosis by means of sialography, scintigraphy, ultrasonography and computed tomography (C.T.) while the deep lesions can be only visualized by computed tomography and magnetic resonance image (Maravilla et al., 1985 & Armillota et al., 1986).

Blair, 1976 mentioned the causes of the parotid gland enlargement, the first cause is inflammation which is either acute as (mumps) or chronic either obstructive (stone-calculi) or non obstructive (sjogren's syndrome or recurrent parotitis). The seond cause is neoplasms

either benign or malignant. Also Systemic diseases may causes indirectly asymptomatic enlargement of the parotid glands as diabetes mellitus (Russoto, 1981).

Conventional plain radiography was limited in diagnosis the stone in the stenson's duct by using occlusal film that held extraorally while the cheek is is puffing out (Blair, 1976).

Sialography provide a simple method for radiographic examination of the salivary gland diseases after intra-ductal injetion of a contrast media (Blatt et al., 1956). It is an important tehnique for visualization the morphology of the ductal system of the gland and estimation its function. It is indicated in chronic inflam-

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