

Odontogenic keratocystic and keratocystic odontogenic tumors in jaws: Clinical behaviors and surgical treatments

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The odontogenic keratocyst (OKC) is a distinctive form of developmental odontogenic cyst that deserves special consideration because of its histopathologic features and clinical behavior. Even though there is a general agreement that the odontogenic keratocyst arises from dental lamina remnants, by some authors DNA mutations might be also included as an etiological factors. The OKC is renamed by WHO as a keratocystic odontogenic tumour (KCOT) and is described as a benign uni or multicystic, intraosseous tumour, which also has a lining of parakeratinized epithelium. Radiographically KCOT demonstrate a well defined unilocular or multilocular radiolucent area with smooth and often corticated margins. Radiographic film and digital sensors are inadequate to determine the location and estimate the size of tumour. Due to this insufficiency of two dimensional views, 3D cone beam computed tomography (CBCT) imaging in the oral and maxillofacial region are increasing. Sagittal, coronal and axial CBCT images eliminate the superimposition of anatomical structures so CBCT have an important role for the diagnosis. Because of its clinical and histopathological properties, this pathology is different comparing with other developmental odontogenic cysts and tumours, litic lesions that effect the bone metabolism. KCOTs are mostly seen in male patients and occur mainly in the second and third decade of life. The most common symptoms of KCOT are a localized asymptomatic swelling associate with mobility of teeth and a spontaneous drainage of the cyst in the oral cavity however small KCOTs are usually asymptomatic. The treatment options of OKC and KCOT are enucleation, both local curreatage and enucleation, both enucleation and application of chemicals.

Biography

Hulya Kocak Berberoglu has completed her Ph.D at the age of 27 years from Istanbul University Department of Oral Surgery and postdoctoral studies at the same university. She is the board member of Turkish Association of Oral And Maksillofacial Surgery. She is still a faculty member and keeps on her researchs as well. She has published more than 60 papers in reputed journals and two books about local anesthetics and oral surgery. Her academical interests are Local anaesthesia, Sinus lifting, Preprothetic surgery, Dental implants and complex implant surgery, TMJ disorders and treatment, sitogenetic studies, Jaw fractures, cysts and tumors.

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