

**SURGICAL DENTAL PATHOLOGY STUDY WHILE HUMAN  
TYPOLOGICAL ASPECTS TAKING INTO ACCOUNT**

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The article deals to the literary review of typological aspects taking into account at surgical dental pathology study in different countries as well as own results on the present topic while emphasizing the fact that typological aspects in part ethnic, ethnic-age, ethnic-gender are indeed important while theoretical and practical dealing with surgical dental pathology.

**Key words:** surgical dental pathology, human typological aspects.

Surgical dental pathology is rather dangerous problem. That is why scientists from different countries try to help the patients to come through or to prevent such conditions. We met the works of Iranian dentists surgeons about suction cap-induced palatal perforation [1, p.20-21], palatal fistula in cleft patients [2, p.265], buccinator flap at palatal fistula [3, p.135], buccinator-based myomucosal flaps [4, p.25-32]. Interesting direction of Iranian dentists study represents searching the hemostasis methods for bleeding stoppage at surgical interventions in maxillary-facial area and their comparison [5, p.57-61]. Actual directions are as follows as: open reduction surgery proposition at mandibular symphyseal and parasymphyseal fractures for

complications risk reducing [6, p.29-36], evaluation of maxillofacial fixation screws in the management of mandibular fractures [7, p.115-120].

A big new direction is stem cells usage in dentistry in part dental pulp stem cells [8, p.211-217].

Much attention is paid also to kappa-B gene polymorphisms in periodontitis and periimplantitis patients [9, p.141-146], RANKL gene polymorphisms at periimplantitis and periodontitis [10, p.530-536], TANK gene polymorphism (significant role was not found out but the investigation was performed not in a big population) [11, p.127-136], osteoprotegerin gene polymorphism at these diseases [12, p.381-388], IKKI gene polymorphisms between the patients of the mentioned diseases [13, p.157-163], MiR146a and MiR499 gene polymorphisms in the patients with these diseases [14, p.9-16]. IL-17R (its receptor) genotype gene difference was not valuable between periimplantitis and chronic periodontitis and thus was found to be without significant role in chronic periodontitis and periimplantitis (DNA was investigated in the United Kingdom) [15, p.353-358] while IL-gene polymorphism associated was found with chronic periodontitis and peri-implantitis in another work [16, p.156-163]. As a whole, genetic susceptibility is considered to be a powerful factor for periodontitis and peri-implantitis development in Iranian population [17, p.183-190]. Haptoglobin contribution in periodontitis and peri-implantitis was also studied at gene level and this substance gene polymorphisms were found not to be these diseases contributive factor in Iranian population [18, p.125-130]. It was determined hyperpolarization-activated cyclic nucleotide-gated 2 polymorphism association with chronic inflammatory periodontitis [19, p.241-244], also there is a data about association of natural resistance associated macrophage protein 1 gene polymorphism with chronic periodontitis but not peri-implantitis [20, p.323-329].

There is a work on a new classification for the relationship between periodontal, periapical and peri-implant complications for better and easier diagnostics and treatment [21, p.103-108].

36 patients with mandible and 1/3 midface fractures were men, only 10 – women among Mashhad dental school patients and the ones of condylar region

prevailed [22, p.127-132]. The dentists proposed informative radiographic method. As for the mandibular fractures locations in Tehran University of Medical Sciences Hospital they were as follows as: parasymphysis – 25,2%, sub condylar – 22,7%, body – 22,2%, angle – 21,3%, ramus – 4%, alveolar – 3,5%, coronoid process – 1,9%, the middle region – 0,5% [23, p.194-197].

Mandibular fractures by locations and their reasons were studied in various cities taking into account the patients age and gender as well. For instance, such investigations were performed in Tabriz [24, p.125-128], Tehran and Ahwaz [25, p.490-494].

Soft palate schwannoma in the 12-year-old girl [26, p.95-99], maxilla recurrent glandular odontogenic cyst [27, p.160-164], posterior maxilla glandular odontogenic cyst in the 28-year-old man [28, p.416-418]. The glandular odontogenic cyst occurs more commonly in middle-aged people, mostly affecting mandible. Also seldom tumors such as rare benign salivary gland tumor mostly occurring in parotid gland are studied in Iran in part there is a work about the one in 46-year-old man [29, p.320-321] were studied in Iran.

Palatal fistulas were studied in the adult Iranian patients [30, p.306].

BRAF gene polymorphism assessment was done in the fixed-aged both-gendered patients (significant role was not found out but the investigation was performed not in a big population) [31, p.131-135].

Maxillary-facial area inflammatory diseases and traumas were studied in Belorussia [32, p.253], Brazil (inflammation mechanisms) [33, p.917-927], Serbia (specific inflammatory proteins and ligands at apical periodontitis working in cellular culture as well as cytokines modulation) [34, p.8325380] and China (specific ligands and proteins at chronic apical periodontitis and possible association with inflammatory cells) [35, p.2162-2166].

Surgical infections were found out as pediatric oral cancer complications after chemotherapy in India [36, p.166-171], at leukemia in Brazilian adults [37, p.911-955].

Surgical infections were found out in Indian leukemic boys and girls on treatment [38, p.193-198].

UMSA Physiology chair teacher Tkachenko E.V. with her students in the students' scientific group worked together with Surgical dentistry chair on this topic [39, p.26-27; 40, p.82-85; 41, p.53-58; 42, p.56-63; 43, p.14-18; 44, p.90-93; 45, p.69-73; 46, p.77-81; 47, p.81-82].

Thus, typological aspects are indeed important while theoretical and practical dealing with surgical dental pathology.

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