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Histomorphological characteristics structure of elements of the temporomandibular joint at prolonged edentia of jaws

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About 35% of the world's population has the pathology of the temporomandibular joint (TMJ). The most common TMJ pathology occurs in partial and full edentia of one or both jaws. The aim of our study was to investigate changes in the elements of the TMJ in partially edentulous jaws. Blocks of TMJ (right and left) were taken from 5 corpses aged 35 to 65 years with a variety of defects of dentition. These preparations were evaluated macroscopically, and then a histological study was conducted on them. In the tissue of hyaline cartilage of the mandible head lines of basophilic staining were detected, as a manifestation of uneven moderate mineralization. Multiple defects with small cavities were detected. Hyaline cartilage of the mandibular fossa of the temporal bone has undergone more expressed dystrophic and degenerative changes - destructive (necrotic) processes. In the capsule of the TMJ fibrinoid change of fibrous fibers and delamination were revealed. The changes in the structure of hyaline cartilage of the intra-articular disc were most expressed in the lateral sections (in places of extension). Multiple micro-cracks were revealed and expressed collagenization intra-articular disc tissue. We determined the vascular invasion in the thickness and fibrous degeneration of the intra-articular disc. Degenerative changes, stratification and thickening of the fibrous structures of the TMJ ligaments were also noted. We identified the signs of sclerosis and hyalinosis. Small ossifications with necrosis and losing of the tissue at their central part were detected in the soft tissue surrounding the out capsule ligament of the TMJ.

Biography

Kulmirzayeva Aizhan graduated from Tashkent Medical Academy in dentistry specialty and successfully completed a one-year internship in general dentistry in Kazakhstan National Medical University. Powered by the department of orthopedic and pediatric dentistry at the Astana Medical University, she was the head for the educational process of the department, the secretary of the final examinations. Currently, she is a third year Doctoral student. She is a dentist of the first category, an orthodontist. She has published about 15 articles in medical journals and took part in the international dental conferences.

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