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Structural organization of the extra-and intraorganic nerves of the muscles of the human's neck and their intratruncal structure

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In our research work we investigated structure of the extra- and intraorganic nerves of the suprahyoid muscles of human's neck.

The research was carried out on the 55 corpses of people at the juvenile, mature and old age. Macromicroscopic, anthropometric, histological and statistical methods were used in the work.

Some regularities of extra- and intraorganic innervations of the muscles and character of their intratruncal structure were established. Dependence was determined between individual features of structure of mandible and structure of ramification of nerve in mylohyoid muscle. In a dolichomorphic lower jaw mainly the magistral type of the branching was observed, in a brachymorphic one the scattered type was present and in a mesomorphic the mixed or scattered types were present. Variability in the topography and in the amount of nervous branches which come to the muscles was found in the innervation of the studied muscles. Constant sources of innervation were determined and additional sources of innervation were identified. Intermuscular nervous connections were found between the nerves of the muscles of the right and left sides. Intratruncal structure of nerves suprahyoid muscles corresponds to common regularities, that bundle structure of all nerve's trunks have.