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**INTERINDIVIDUAL ANATOMICAL DIFFERENCES OF THE HUMAN
EXTERNAL EAR'S STRUCTURE**

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Introductions. The ear is an extremely important constituent of the human appearance, functionally as well as esthetically. Every individual wants to have normal - appearing esthetically pleasing ears, and the demand for the same is highest in individuals with congenital or acquired deformities of the ear. Achievement of good functional and esthetic rehabilitation not only boosts one's self confidence but also translates into better social acceptance. The dimensions of the external ear and its various parts vary in different ethnic groups, and this requires that surgeons base their reconstructions on data specifically gathered from each of the ethnic groups. [1, p. 48].

Individual anatomical variability reflects the existing range of differences in the human body structure, its proportion, shape, size and position of organs and systems, and also allows to establish a set of morphological characters between people [2, p. 7].

The rapid development of modern technologies, the introduction of microsurgical interventions, performance of plastic surgery for injuries and reconstructive operations in the cases of absence of organs or pronounced congenital malformations, dictates the need for a deeper understanding of individual human anatomical variability, the need to working out and use innovative technologies in the

diagnosis and treatment of these shortcomings, which indicates the relevance of further development of this problem.

In current times, detailed anthropometric dimensions and the 3D shape of the external ear are used to develop ear products.

It should also be noted, that a 3D ear model is an artificial representation of a real ear shape, which is constructed based on the available information. If data about the shape of some parts of the ear are missing or of lower quality, this will result in a quality decrease of (some parts of) the fitted 3D ear model [3, p. 300].

All of the aforementioned indicates the relevance of the study of individual anatomical variability of the ear at the present stage.

Aim. To study individual anatomical differences in the structure of the human external ear depending by ethnic and gender accessories.

Materials and methods. To conduct a study will be select 100 people in the age from 18 till 25 years by gender and ethnicity accessories. Persons with a history of craniofacial trauma, ear diseases, congenital or acquired anomalies and/or ear surgeries will be excluded from the study, due to the inability to accurately determine the normal anatomy of the external ear in this contingent of persons. The research methods that will be used to study the structure of the external ear are standardized and used to produce casts of the external ear. Subjects of the study will first be explained the procedure for taking an impression of the external ear, which will be carried out by an otolaryngologist and an audiologist in the conditions of the ENT department's procedure room.

At a later date, after receiving the casts of the external ear, 3D scanning and computer reconstruction of the obtained cast will be performed to further study of the individual anatomical features in various ethnic groups and genders.

Results and discussion. In the course of the study that will be conducted, individual anatomical differences in the structure of the human external ear depending on ethnicity, gender and age distribution will be studied; the difference in structure between the right and left external ear will have been determined. A method of 3D computer modeling of the human external ear using a

3D scanner and printer will also be developed and put into practice to determine individual anatomical differences in the structure of the human external ears.

Conclusions. Based on the analysis of world literature data which was conducted, it was revealed the existence of differences between ethnic groups and genders in available research, however, studying the comparison of the structure of the human external ear between sexes and different ethnic groups still requires more detailed study.

The data obtained by us can be used in the practice of plastic surgeons and otolaryngologists for reconstructive operations in cases of microtia and various acquired ear deformities was conduct; in forensic medicine; as well as for the development of individual hearing aids, headphones, an ear plug, which is important for comfort when used among various person.

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