ACTA SCIENTIFIC ANATOMY

Volume 2 Issue 2 March 2023

Research Article

Muscular and Bony System in the Reflection of the Means of Collection

Konstantin Anatolyevich Bugaevsky*

The Petro Mohyla Black Sea State University, Nikolaev, Ukraine

*Corresponding Author: Konstantin Anatolyevich Bugaevsky, The Petro Mohyla Black Sea State University, Nikolaev, Ukraine.

Received: January 12, 2023

Published: February 15, 2023

© All rights are reserved by **Konstantin**

Anatolyevich Bugaevsky.

Abstract

The article presents the results of the author's research, devoted to search, selection, systematization and analysis of available collection - philatelic and numismatic materials, thematically devoted to functioning and structure of bone and muscular systems. The textual part of the study is supplied with extensive illustrative material - screenshots of postage stamps and commemorative medals, devoted to anatomy of human bony and muscular systems.

Keywords: Anatomy; Bone and Muscle Systems; Philately; Postage Stamps; Numismatics; Commemorative Medals

Introduction

The study of human anatomy, the human body as a whole and its individual organs and systems in particular, goes back to antiquity. Among the main objects of study of normal human anatomy, the first anatomists and surgeons, such as Claudius Galen, Andreus Vesalius, Ambroise Paré and many others, were the human bony and muscular systems. These systems, being very important, are the skeleton and motor mechanism, of any human being. Without their proper functioning, it is impossible to move in space - walking, running, upright walking, lifting weights, any kind of physical work. Injury or loss of any of the limbs, any part of the bony and muscular system, leads to disability of the person - partial or complete. In their works, the first anatomists described in detail, and quite often sketched the structure of the bony and muscular systems. Thanks to their tremendous research work, the anatomy and physiology of these two systems are now well enough studied by modern anatomists, surgeons, orthopedic traumatologists and other medical specialists involved in the treatment of musculoskeletal system pathology. At carrying out of research work, and search of materials philatelic and numismatic orientation, on reflection of bone and muscular systems, in means of collecting, their quantity

has been found out enough. All these collection materials, will be presented in this article, as illustrations, accompanied by textual comments. Taking into account the requirements for copyright protection, screenshots of philatelic and numismatic materials will have links, indicating the source of information.

Aim

The purpose of this article is to present the results of a study concerning the representation in a number of collecting media (philately and numismatics) of materials representing the bony and muscular system of man - on postage stamps and commemorative medals.

Methods and Means of Research

When conducting this study, the author of the article previously found and selected in various available sources of information, postage stamps and commemorative medals from various countries of the world, which, thematically, were dedicated to bone and muscle systems, his scientific achievements and life. From all selected commemorative medals found, first of all, on special collection sites representing numismatics and medal art, philately

and postage stampstheir screenshots were made (with strict observance of copyright). The author denies any claims from other persons and organizations related to the violation of compliance with the requirements of laws, on strict observance of copyright.

Results of the Study and Discussion

I would like to begin my presentation of the found collection materials with the presentation of philatelic materials representing the structure of the human bone system. These materials are presented in figure 1 [1-11]. Here, in addition to stamps, there are postcards, envelopes, and Card-maximus. Part of the stamps shown are issued thanks to the anatomical drawings of the great scientist, anatomist of the Renaissance, Leonardo da Vinci, who introduced to the world his "golden ratio" of the proportions of the human body. Also, in this section of the article, a large selection of postage stamps depicting the human skull will be presented. Also, different sections of the skeleton and a variety of joints are shown, as they look, in radiological examinations of the skeletal system.

Figure 1: Philatelic materials devoted to the human bone system.

Knowledge of the normal structure of human bones, ligaments and joints is vital not only for anatomists and pathologists, but also for specialists in forensic medicine, archaeologists, paleontologists, morphologists, physiologists, anthropologists and many other scientists. Comparative anatomy and paleontology, anthropology, when comparing the skulls and bones of ancient humans, in comparison with the skeletal bones of modern humans, leads to the study and a better understanding of the processes of evolution and formation of modern humans. Figure 2, presents a selection of postage stamps devoted to the study by scientists of paleontology, the skulls of the ancient ancestors of humans [4,6,8-10].

Figure 2: Philatelic materials devoted to paleontological studies of skeletal bones of ancient people.

The following, Figure 3, presents philatelic materials that are thematically devoted to the human muscular system, and its relationship to bones and joints [1-11]. Much of this philatelic material is devoted to the anatomical explorations of Andrei Vesalius and Leonardo da Vinci, and to the use of knowledge of the musculoskeletal system in osteopathy and modern medicine.

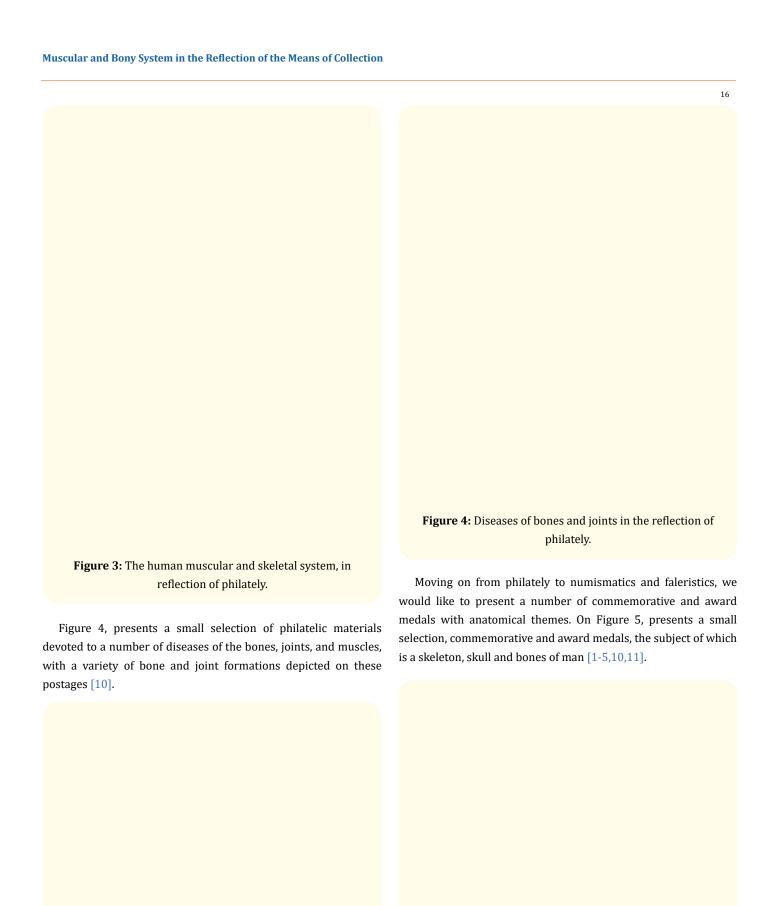


Figure 5: A selection of commemorative and award medals, depicting the bony and muscular systems on them.

This completes another author's article in the area of reflecting the relevance of anatomical information and collecting tools. A continuation of the author's articles on anatomical subjects is being prepared.

Conclusion

- In this research article, the author exclusively, and in a sufficiently full volume, according to the stated purpose of the research, presented textual and illustrative materials.
- In his article, the author used creative illustrative materials, in the form of screenshots of various collection (philatelic, numismatic and faleristic) materials.
- When writing this article, all the requirements for copyright compliance were observed.

The author declares the absence of any conflicts with both individuals and organizations in the field of copyright.

Bibliography

- Andreas Vesalius in Stamps Circulating Now from NLM (2023).
- 2. Anatomicum Postcards Beesy Beesybox (2021).
- 3. Andreas Vesalius in Nummis (2021).
- 4. Anatomy postcard (2022).
- Bugaevsky KA and Bugaevskaya NA. "Andreas Vesalius: life and scientific feat in the reflection of collectibles". *Bulletin of* SMUS74 1.20 (2018): 16-20.
- 6. Bugaevsky KA. "Anatomy of Different Parts of the Body and its Study in the Reflection of Collectible Means". *Acta Scientific Anatomy* 1.4 (2022): 19-22.
- 7. Andreas Vesalius in Philately WordPress.com (2022).
- 8. Regular postcard Anatomy (2021).
- 9. David Kachlik and Adam Whitley. "The Czech contribution to the human anatomy: A focus on Charles University". *Annals of Anatomy* 236 (2021): 151623.
- 10. Used stamps ANDORRA ANDORRE Postes (2021).

11. Zakladatel moderní anatomie člověka – Andreas Vesalius | 3 pól - Magazín plný pozitivní energie (2021).