

#### **Transplantation Proceedings and Research**

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ISSN: 2836-8991 RESEARCH ARTICLE

## The History and Development of Transplantology in The Reflection of a Number of Collection Tools

Konstantin Anatolyevich Bugaevsky1\*

<sup>1</sup> The Petro Mohyla Black Sea State University, Nikolaev, Ukraine

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

Received Date: 07 March 2023; Accepted Date: 13 March 2023; Published Date: 15 March 2023.

**Citation:** Konstantin Anatolyevich Bugaevsky, (2023). The History and Development of Transplantology in The Reflection of a Number of Collection Tools. Journal of Transplantation Proceedings and Research. 2(1). DOI: 10.58489/2836-8991/006

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#### **Abstract**

The article presents research materials concerning the study of the reflection of data on transplantology and famous doctors-transplantologists in such means of collecting as philately (stamps, envelopes, blocks, postcards), numismatics (commemorative coins and medals) and faleristics (award and commemorative signs and badges). The text is accompanied by illustrative material, explanatory descriptions and comments.

**Keywords:** transplantology; transplant doctors; philately; stamps; postal envelopes; thematic postal blocks; numismatics; commemorative and table medals and coins

#### Introduction

Modern medical science is multifaceted and diverse. One of the youngest and most promising areas of modern medicine is transplantology, which is actively developing in many countries around the world. The most widely known and applied method of donation, is donation and transfusion (transplantation of blood as a human organ) and its components. But the story about this type of transplantation requires a separate article, and possibly more than one. In this article we will talk about transplantation of other organs of the human body - heart, liver, lungs, cornea, limbs.

#### **Aim**

The purpose of this research article is to provide a brief narrative of the history and dynamics of such an important and in-demand medical discipline as transplantology, using screenshots of various collection materials as illustrations.

#### **Methods and Means of Research**

When writing this article, the author actively used such methods of research as the search for necessary thematic information, in all available sources, with active use of the Internet resources. All information obtained as a result of the search was analyzed and systematized. The special attention was given to search of illustrative material - postage stamps, envelopes, blocks (philately), memorable

coins and medals (numismatics) and awards and badges (faleristics), which, directly and thematically, were connected with transplantology subjects. When found on the Internet - specialized thematic sites of collectors, dealing with philately, numismatics and faleristics, the author made scans (screenshots) of found collection materials, subsequently, used as illustrations in the author's research article. All this was done, with strict observance of copyright and a reference to the link on the Internet or in other sources of information.

#### Results of the study and discussion

I would like to begin my story with the presentation of the famous Soviet and Russian transplantologist, Academician Valery Shumakov (1931-2008), Director of the Research Institute of Transplantology and Artificial Organs of the Russian Federation, the author of the first heart transplant in the USSR (1968), in the reflection of philately and faleristics. Thus, in Fig. 1, there are postage stamps of the Russian Federation (2012), and a commemorative badge of the USSR period devoted to V.I. Shumakov and the first heart transplant in the USSR, as well as a commemorative medal in his honor [1].

In the post-Soviet space, apart from the Russian Federation, the most actively developing issues of transplantology are in the Republic of Belarus and Ukraine. A postage stamp and a postal block of

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Belarus, devoted to the achievements in the field of transplantology and hematology, are shown in Fig. 2 [4].

**Fig 1:** Philatelic and faleristic materials devoted to Academician V.I. Shumakov



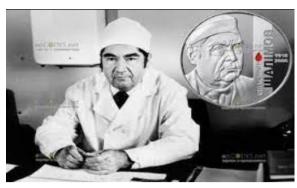
**Fig 2:** Philatelic materials of Belarus devoted to transplantology



In Ukraine, transplantology issues were actively dealt with by Alexander Shalimov (1918-2006), founder of the Ukrainian school of transplantology, who established in Kiev the Research Institute of Transplantology and Experimental Surgery. This leading Ukrainian medical institution has trained hundreds of transplantologists who have performed thousands of successful transplants of various organs to patients in need. This selection includes philatelic materials - postage stamps and envelopes, as well as commemorative coins of Ukraine (2018), dedicated to the 100th anniversary of the great surgeon. Figure 3, presents a selection of collection materials dedicated to the 100th anniversary of the birth of Alexander Shalimov [20-22].

**Fig 3.** A collection dedicated to the founder of Ukrainian transplantology, Academician Alexander Shalimov













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Next, Fig. 4, presents a large selection of various philatelic materials, dedicated to the memory of the great South African transplant surgeon Christian Netling Barnard (1922-2001) and his December 3, 1967, the world's first successful heart transplant [1]. It is an interesting fact that after his meeting with V.P. Demikhov in Moscow, Christian Barnard called him the true father of transplantology" [2].

**Fig 4:** Philatelic materials dedicated to the world's first heart transplant and to Christian Barnard



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Fig. 5, presents a selection of numismatic materials (commemorative coins and medals) devoted to Christian Barnard and the first human heart transplant operation [1, 3, 18].

**Fig 5:** Commemorative coins and medals commemorating C. Barnard and the world's first heart transplant



Continuing the development of the theme of heart transplantation operations and the issue of donation of this organ, Fig. 6, presents a selection of philatelic and numismatic materials from different countries of the world and years of issue, devoted to this important problem [14, 17, 23, 24].

Next, in Fig. 7, presents a small selection of philatelic materials (postage stamps and first-day envelopes, commemorative coins) devoted to transplantology, donation of human organs, transplantation of various human organs and about patients with these transplanted organs [15, 19, 23].

Fig 6. A collection dedicated to heart transplantation



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Fig 7: shows a Dominica postage stamp (1990)



Figure 7, shows a Dominica postage stamp (1990) dedicated to Joseph Murray, one of the pioneers of world transplantation. Thanks to the pioneering work of Dr. Joseph Murray (1919-2012) in the 1950s and 1960s, kidney transplants are now performed daily around the world. Dr. J. Murray was the first surgeon to successfully perform a kidney transplant. For his work on organ transplantation in the treatment of human diseases Dr. J. Murray was awarded the Nobel Prize in Physiology or Medicine in 1990 [15].

**Fig 8:** Postage stamp dedicated to Dr. J. Murray and kidney transplantation



#### Conclusion

- 1. In the presented in the article selections of philatelic, numismatic and faleristic materials such important medical fields as transplantology and donation of human organs are represented completely, informative and brightly enough.
- 2. Materials, both informative and illustrative, can be used, as a form of additional information, when studying such medical disciplines as "Surgery", "Urology", "Medical ethics" and "History of medicine". This concludes the article on the history of transplantology and its heroes, in reflection of such means of collecting as philately, numismatics and faleristics.

### The author denies any conflict of interest in writing this article.

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