

Surgery and Surgeons in The Reflection of Means of Numismatics

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Submitted: 22 March 2025 Accepted: 28 March 2025 Published: 31 March 2025

doi <https://doi.org/10.63620/MKWJMH.C.2025.1031>

Citation: Bugaevsky, K. A. (2025). Surgery and Surgeons in The Reflection of Means of Numismatics. Wor Jour of Medic and Heal Care, 3(2), 01-08.

Abstract

In this new research article, its author presented an overview, representation and volume of numismatic collection materials, thematically devoted to such a medical, clinical discipline as surgery, as well as - memory, a number of domestic and foreign scientists and practitioners, surgeons, in the reflection of both commemorative coins and commemorative table medals. In total, this article presents 36 screenshot copies of numismatic materials, including: commemorative table medals - 31 copies; 5 copies of commemorative coins made of different metals and their alloys.

Keywords: Surgery, Surgeons, Collectibles, Numismatics, Commemorative Medals, Coins, Screenshot Copies.

Aim of the Article

The purpose of writing this article, based on the materials obtained, conducted by its author, is to present the results obtained by him, and their analysis, which, thematically, are devoted to the issues of the quantity and volume of collection materials, thematically devoted to surgery and a number of surgeons known both in their countries and throughout the world, and to such a direction of medicine as surgery, in all its diversity, in the reflection of such a popular means of collecting as numismatics, on commemorative coins and medals, in particular - table ones.

Research Hypothesis

In the initial period of this study, its author put forward a working hypothesis, the essence of which was that in such a means of collecting as numismatics, on numerous commemorative coins and medals, in particular table ones, there may be a significant number of them, thematically dedicated to both surgery and its history, as well as famous surgeons, both from different countries and world-famous, with images on them of subjects dedicated to surgery.

Introduction

The study of issues related to the history of medicine, in all its directions, and its heroes, are always relevant and in demand. This directly concerns surgery, practical surgeons of various specializations, the history of surgery, especially in the reflection of various means of collecting, in particular - numismatics - on commemorative, table medals and coins [1]. In the world, there are dozens, if not hundreds, of commemorative medals and coins, thematically dedicated to surgery and surgeons, both of past centuries, and several of the last centuries, issued in the last

150-200 years in different countries of the world. In the materials of this research article, its author, conditionally, divided its materials to present both domestic surgery and surgeons, and a number of foreign surgery and materials on the life and work of surgeons, a number of foreign, famous surgeons, a number of countries of the world. In one small in volume and content research article, it is very difficult to present both text and illustrative materials concerning many famous surgeons of different countries and time periods of history. In connection with this, the author took the liberty of selecting a number of them, according to his own, arbitrary, idea. Naturally, this research information undoubtedly requires its continuation. In connection with this, the author will conduct a new study in this direction, which will be reflected in a new, author's, research article.

Method and Materials of the Study

When writing this scientific article and conducting his research, its author used the method of literary-critical analysis when working with all text and illustrative materials found on the Internet. Samples of collection materials found on the Internet and thematic sites of numismatist collectors were selected, grouped and converted into black-and-white and color screenshot copies using a special computer program. All of them have a brief accompanying explanation-description and are strictly required to indicate the IP address, places of their borrowing on the Internet, for strict observance of copyright, their copyright holders on the Internet. Later, when preparing the text of this article, the author used the screenshot copies he had as accompanying illustrations to the text.

Results of the Study and Discussion

Continuing my story about the reflection of the topic related to surgery, surgeons from different countries of the world and surgical instruments, it is time to present them, the reflection of a number of numismatic means - on thematic, commemorative medals and coins, in all their diversity. I would like to start my story with table, commemorative medals dedicated to surgery and a number of famous, foreign/foreign, surgeons. So, in particular, in Figure 1, commemorative medals are presented, in the obverse and reverse, both round and rectangular medals-plaques, made of different metals, and dedicated to such famous surgeons as: Doctor Samuel D. Gross (1848-1884) [2]; Dr. Michael E. DeBakey [3]; Daniel Hale Williams (1856-1931) [4]; Harvey Cushing [5]; Isaac Ridgeway Trimble – rectangular medal-plaque [6, 7]; anatomist and surgeon AMBROISE PARÉ [8, 9]; Robbert Wishart Lyell (1848-1882) – surgical anatomist and practicing surgeon [10]; inaccurate surgeon - FERDINAND SAUERBRUCH [11]; famous French surgeon MAURICE CHEVASSU [12]; Crawford Long, who devoted a lot of time and effort to the issue of the use of anesthesia in surgical practice [13]; Paul Piollet [14]; Maxime Durand-Fardel (1815-1899) [15]; Victor Pauchet (1898-1928) [16]; commemorative, bronze, double-sided medal dedicated to the famous French surgeon, professor – Paul Piollet/Paul Polier (1873-1960) [17]. All these commemorative (table) medals are united by the fact that on their obverses, portraits of these famous surgeons are presented, or their images/portraits are present, in working situations, performing surgical interventions, in operating room conditions, as well as, surrounded by their patients and fellow assistants.



Figure 1: Numismatic Collection of Commemorative Medals, Thematically Dedicated to a Number of Famous Surgeons, from Different time Periods and Different Countries of the World

Next, in thematic figure 2, a selection of commemorative medals of such countries of the world as Ukraine and Russia, as well as a number of well-known, different years, surgeons of these countries are presented [18-23]. I would like to begin the presentation of this numismatic selection (commemorative coins and medals) with the presentation of collection materials dedicated to the world-famous surgeon and scientist, surgeon, founder of military field surgery, operative surgery and topographic anatomy, in Russia, scientist-anatomist - Nikolai Ivanovich Pirogov

(1810-1881) These are 7 commemorative medals made of bronze and gold, as well as 2 commemorative coins, both Ukraine and Russia, made of nickel silver, and presented, for the most part, in the obverse and reverse. All of them bear on their front parts (obverses) portraits of N.I. Pirogov and/or artistic subjects representing his medical/surgical activity. All of them are dedicated to the most diverse aspects and events, memorable dates, in the multifaceted activity of this great surgeon.

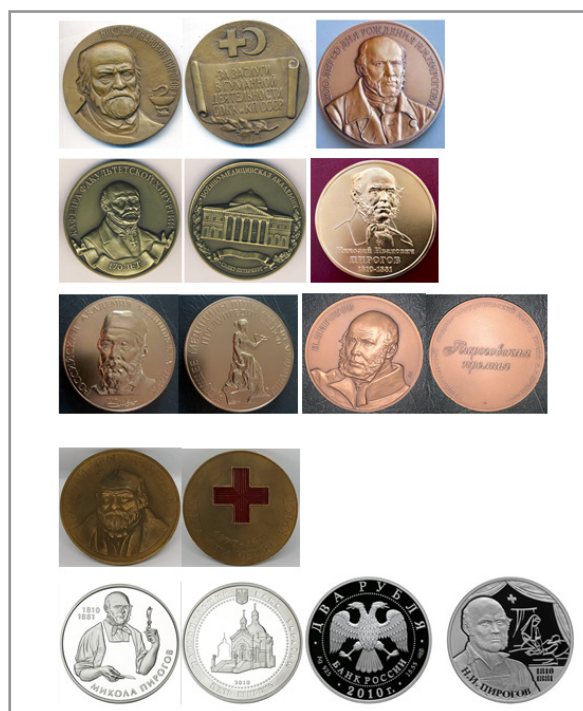


Figure 2: Numismatic Collection Dedicated to the Memory of N.I. Pirogov

The following, Figure 3, shows the obverse and reverse of a bronze commemorative medal of Russia (1838), dedicated to the 215th anniversary of the Department of General Surgery and the 50th anniversary of the service of the physician-in-ordinary, I.F. Bush, which was minted as a table medal from the series "Military Medicine of Russia" at the St. Petersburg Mint, dedicated to its first head and founder of the academic surgical school - Ivan Bush (1771-1843), honored professor and academician of the

St. Petersburg Imperial Medical-Surgical Academy. He created a system of surgical training of doctors and the first, largest, Russian surgical school, was the author of a fundamental manual on surgery. He was, in fact, the first teacher of surgery at the Medical-Surgical Academy. Students of I.F. Bush, occupied departments in the main medical higher educational institutions of the then Russian Empire [24, 25].



Figure 3. Commemorative Medal Dedicated to the Memory of I.F. Bush

Figure 4 shows a two-sided bronze medal of Russia, minted in memory of the famous Russian surgeon, anatomist and artist of the "pre-Pirogov" era, a student of I.F. Bush, Ilya Vasilyevich Buyalsky (1789-1866), an honored professor of the Imperial Medical-Surgical Academy, one of the founders of the theory

and practice of forensic medicine, and also one of the founders of human topographic anatomy. I.V. Buyalsky devoted his main scientific works to normal, topographic and pathological anatomy, as well as vascular surgery and surgical treatment of urolithiasis. [26-28].



Figure 4: Commemorative Medal Dedicated to the Memory of I.V. Buyalsky

Further, in Figure 5, a two-sided bronze medal of Russia (1993) dedicated to the historical memory of Ya. V. Willie, the first president of the Medical-Surgical Academy of the Russian Empire [29] is presented, in the obverse and reverse. According to available biographical data, Wylie Yakov Vasilyevich (1768-1854), physician, organizer of military medicine in Russia, honorary member of the St. Petersburg Academy of Sciences. Scotsman

by origin. Since 1790 in St. Petersburg. Chief military medical inspector of the Russian army (1806-1854), president of the Medical-Surgical Academy (1808-1838). Participant in the Patriotic War of 1812. Initiator of the creation of the "Military Medical Journal". Author of the book "Russian Military Pharmacopoeia". He was buried at the Volkovskoye Lutheran Cemetery in St. Petersburg.



Figure 5: Commemorative Medal Dedicated to the Memory of the First President of the Medical-Surgical Academy of Russia - Ya.V. Willie

Moving on to the presentation of famous domestic doctors and surgeon scientists from the period of the USSR, Ukraine and Russia, I would like to begin with the presentation of a commemorative, tabletop, double-sided bronze medal "Burdenko Nikolai Nilovich. First President of the USSR Academy of Medical Sciences" (1976) [30, 31]. Nikolay Nilovich Burdenko (1876-1946) – Russian and Soviet surgeon, healthcare organizer, founder of Soviet neurosurgery, chief surgeon of the Red Army

in 1937-1946, academician of the USSR Academy of Sciences (1939), academician and first president of the USSR Academy of Medical Sciences (1944-1946), colonel general of the medical service, participant in the Russo-Japanese, First World War, Soviet-Finnish and Great Patriotic Wars. Honorary member of the London Royal Society of Surgeons and the Paris Academy of Surgery. Chairman of the Soviet commission that investigated the Katyn massacre of Polish servicemen [32].



Figure 6: Commemorative Medal of the USSR Dedicated to Nikolai Nilovich Burdenko

Next in the list of famous surgeons of the USSR period will be presented Alexander Vladimirovich Vishnevsky (1906-1975). Figure 7 shows a numismatic series of double-sided commem-

orative medals and commemorative coins, both from the USSR period and the modern Russian Federation, dedicated to A.V. Vishnevsky [33-37].



Figure 7: Numismatic Selection of Commemorative Medals and Coins dedicated to A.V. Vishnevsky

Next, in Figure 8, will be presented, in the obverse and reverse, a commemorative medal and a commemorative silver coin of Ukraine, with a face value of 5 hryvnia (2013), dedicated to the world-famous cardiac surgeon - Nikolai Mikhailovich Amosov (1913-2002) [38]. Nikolai Amosov is an Academician, the founder of the school of cardiac surgeons in Ukraine. One of the main areas of Amosov's scientific and practical activity was the surgical treatment of heart diseases. In 1955, he was the first in Ukraine to begin treating heart defects, creating a number of new methods of their surgical treatment. He was one of the first in the USSR to create a reliable and widely used heart-lung artificial blood circulation apparatus and put it into practice, performed

mitral valve replacement, and created and for the first time in the world put into practice antithrombotic heart valve prostheses. In 1955, Nikolai Mikhailovich founded and headed the first department of thoracic surgery in the country for the advanced training of doctors, from which the department of anesthesiology later separated. In 1983, the cardiovascular surgery clinic of the Kyiv Research Institute of Tuberculosis and Thoracic Surgery was reorganized into the Kiev Research Institute of Cardiovascular Surgery of the Ministry of Health of the Ukrainian SSR. Amosov, who had held the post of deputy director since 1968, became the director of the newly formed institute and worked in this position until 1989 [39].

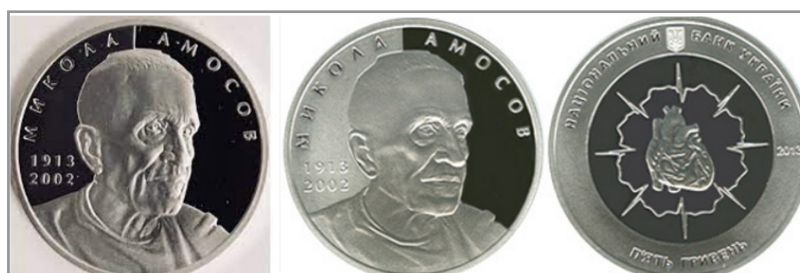


Figure 8: Numismatic Collection Dedicated to the Memory of Nikolai Mikhailovich Amosov

In Figure 9, the obverse and reverse show a commemorative coin of Ukraine, with a face value of 2 hryvnia (2018), made of nickel silver, dedicated to the memory of the famous scientist-surgeon, doctor of medical sciences, professor, academician of the National Academy of Sciences of Ukraine, one of the founders of the Ukrainian surgical school - Alexander Alekseevich Shalimov and, in connection with the 100th anniversary (1918-2006), from the day of birth [40]. On the obverse of this

commemorative coin, in profile, turned to the right, is a portrait of this scientist and doctor, as well as his biographical data. On the reverse of this coin, a hand is depicted with a surgical scalpel, raised and directed upward and upward. Next to this image, there is a quote (in Ukrainian) from this scientist and surgeon: "Learn throughout your life, work without considering yourself the smartest, and don't give up in case of failure."



Figure 9: Commemorative Coin of Ukraine Dedicated to the Famous Surgeon and medical scientist, Shalimov Alexander Alekseevich

Further, in Figure 10, a commemorative, double-sided round, bronze medal (1971) is presented, minted at the Leningrad Mint, and dedicated to Academician Alexander Nikolaevich Bakulev (1890-1967). He is a famous Soviet scientist-surgeon, one of the founders of cardiovascular surgery in the USSR, Doctor of Medical Sciences, Professor, President of the USSR Academy of Medical Sciences. Academician of the USSR Academy

of Sciences. Honored Scientist of the RSFSR (1946). In the 1950s, Bakulev became a true pioneer of cardiovascular surgery, he developed and applied innovative methods of treatment (in particular, cardiac catheterization, angiocardiology, closed commis-surotomy), and also organized the Institute of Thoracic Surgery (1955). [41, 42].



Figure 10: Commemorative Medal Dedicated to Academician A.N. Bakulev

And, in conclusion of this research article, the author presents brief biographical data and, on the obverse and reverse, a commemorative, double-sided, round medal dedicated to the famous Soviet and Russian scientist and surgeon, V.N. Shevkunenko

(1872-1952). He was engaged in the development of issues of topographic anatomy and the substantiation of surgical techniques of new directions in surgery (neurosurgery, urology) [43-45].



Figure 11: Commemorative Medal Dedicated to the Surgeon V.N. Shevkunenko, Famous in the USSR and Russia

This completes another author's thematic research article devoted to the reflection in numismatics, surgery and surgeons. The author is preparing for publication another new article, based on the materials of his new research, the reflection of different areas of surgery, in traumatology, resuscitation and intensive care, in the reflection of different means of collecting

Conclusions

1. This article presents the results of the conducted research concerning the study of the prevalence and reflection of information about surgery, and a number of famous surgeons, both in their countries and around the world, in the reflection of such a popular means of collecting as numismatics, on commemorative medals and coins.
2. Reflection in the means of collecting the history of medicine is a very relevant and popular means of presenting information, both for different groups of medical workers, and for all collectors who are passionate about collecting data on medicine and its history.
3. The author of this research article managed to fully confirm his working hypothesis, put forward by him at the very beginning of the study, that there is a fairly large number of various numismatic materials dedicated to surgery and famous surgeons.
4. The author's use of black-and-white and color screenshot copies of commemorative medals and coins as illustrations to the text in this research article richly and appropriately adorned this article.
5. In total, this article presents 36 screenshot copies of numismatic materials, including: commemorative table medals - 31 copies; 5 copies of commemorative coins made of different metals and their alloys, as well as - different countries of the world, and different years of their issue, dedicated to surgery and famous surgeons.

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