



## Human Urinary System in Reflection of Phaleristics

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### Abstract

In this research article, its author presented the results of his research, the purpose of which was to search and present phaleristic collection materials in the form of thematic, anatomical badges and brooches, with images of the human urinary system on them - a summary is presented (in the form of copies-screenshots) - 94 copies of anatomical badges, and 11 screenshots of anatomical brooches.

**Keywords:** Human Anatomy; Urinary/Excretory System; Phaleristics; Thematic Badges; Brooches; Screenshots

### Introduction

Among the large number of organs and systems of the human body, the urinary or excretory system occupies its important place. The work and structure of the kidneys, their anatomy and physiology, all departments of this important system, occupy their place of honor in the hierarchy of anatomy and physiology of other organs and systems of the human body. It is no coincidence that in such a section of modern collecting tools as phaleristics, on anatomical thematic badges and brooches, bright, detailed images of the kidneys are given, both in cross-section (in general and in individual parts of the internal structure), ureters, bladder, urethra [1-15]. The content of this research article presents the urinary system, in reflection, in individual parts (from top to bottom) - an anatomical image of the structure of the kidney/kidneys, their appearance, pelvis and ureters, the human bladder, presented on the outer part (obverse), as in anatomical thematic badges, as well as jewelry-made anatomical brooches. In this author's research article, a summary is presented (in the form of copies-screenshots) - 94 copies of anatomical badges, and 11 screenshots of anatomical brooches [2-8,13-15].

### Aim of Study

The purpose of the research carried out by the author, and the writing of an article based on its results and their analysis, is to present the results obtained, the representation in the means of phaleristics, thematic anatomical badges and brooches dedicated to the anatomy of the human urinary/excretory system, in all their diversity.

### Material and Methods

When writing this research article, its author used such research methods as: search, selection and literary-critical analysis, profile, thematic articles, both in medicine and in phaleristics, related by a common theme - structure / anatomy, and the functioning/physiology of the human urinary system, primarily in the reflection of such an important collection tool, on thematic, anatomical badges and brooches. All found illustrative materials for this article were automatically converted into screenshot copies, with mandatory and strict recording of the source of borrowing on the Internet, as on specialized Internet pages and websites, in order to comply with copyright requirements.

### Results and Discussion

At the beginning of this author's research article, in a small collection, anatomical selection, presented in Figure 1, anatomical thematic badges are presented with an anatomical image of the functional unit of the kidneys - the human kidney nephron, 18 copies in total [2-8,13-15].

The following, Figure 2, presents a large selection of anatomical thematic badges, in a total number of 32 copies (of which, 6 badges from Russia, Ukraine and the USSR period), screenshots, with an image on their front side of both one and two kidneys, often along with an image of their vessels and/or nerves, adrenal glands, as well as topographic location in the human body [2-8,13-15].



Figure 1: Schematic structure of the human urinary system and nephron.

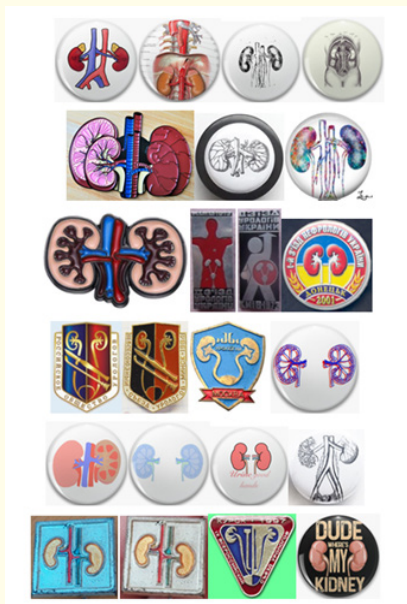


Figure 2: Thematic anatomical selection of badges, depicting two kidneys on them.

Figure 3 presents a thematic, anatomical selection of icons depicting a human kidney, either right or left, often in a sagittal section, depicting its internal structure - calyces, bowls, pelvis, ureters, as well as kidney vessels (veins and artery) [2-8,13-15]. In total, in this figure 3, there are 40 badges [2-8,13-15].

Further, in Figure 4, a small selection of only 4 copies of screenshots of anatomical badges is presented, depicting, first of all, the bladder and ureters coming from the kidneys [2-8,13-15].

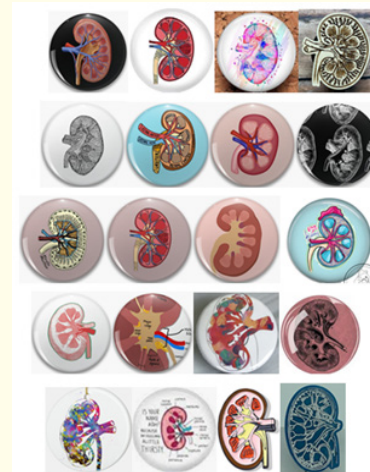
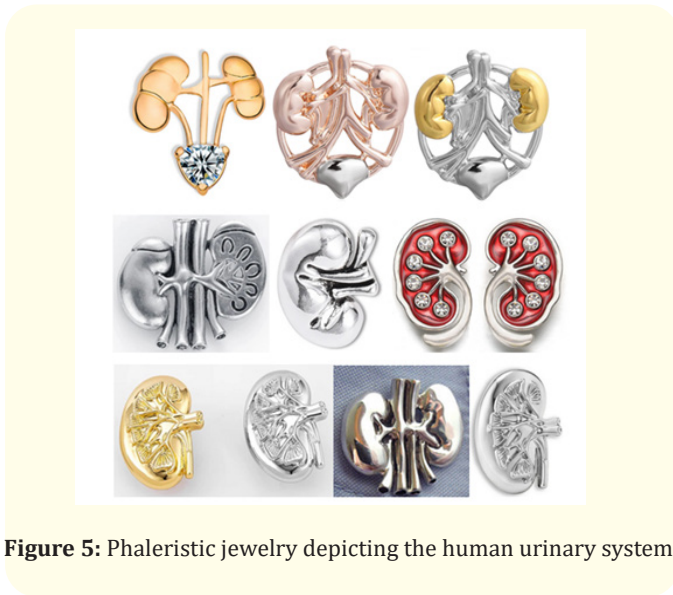


Figure 3: A selection of thematic badges, depicting one kidney.



Figure 4: A selection of thematic icons depicting the bladder and ureters coming from the kidneys.

The story about the reflection of the organs of the urinary system, phaleristics, is completed by a selection of jewelry brooches representing it entirely - kidneys, ureters and bladder, or just one, or 2 kidneys, often in section, made of precious metals (gold and/or silver, and precious stones) – a total of 11 screenshots of copies of these anatomical jewelry [1,9-12].



**Figure 5:** Phaleristic jewelry depicting the human urinary system.

This concludes another original research article devoted to the human urinary system, as reflected in the means of phaleristics - on thematic, anatomical badges and brooches. The author plans to publish a new article about the human sexual and reproductive system, both men and women, reflecting the means of phaleristics.

## Conclusions

- In this research article, its author managed to fully achieve the goal of this research work.
- The author's use, as illustrations in it, of screenshots of a large number of collectible, phaleristic materials, quite brightly, appropriately and creatively, complemented the textual, research materials of this article.
- This research article has significant scientific theoretical and practical value in such areas as collecting (phaleristics), and applied value in the study of many areas of medicine and, in particular, human anatomy, nephrology and urology.

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