



## MG31104 | URINARY SYSTEM

Anatomical model of the urinary system section, representing the pelvis, urinary bladder, urethra, inferior vena cava with tributaries, abdominal aorta with branches, ureters, and kidneys with adrenal glands. Shows internal details of the kidneys, including cortex, medulla, pyramids with papillae, and blood vessels, mounted on a base.

### **Applications:**

Ideal for the study of the internal anatomy of the urinary system, assisting in classes and presentations in offices and classrooms. Indicated for teaching and research in anatomy, physiology, and pathophysiology.

### **Technical Characteristics:**

- \* Detailed representation in colors;
- \* High-precision natural molding;
- \* Manufactured from stable synthetic material and resin approved in toxicological tests;
- \* Precise replicas;
- \* Hand-painted;
- \* Includes an information card with related structures;
- \* Mounted on a polymer base.

### **3D Technology and Augmented Reality:**

Our anatomical models offer a visual complement through information cards that activate 3D models viewable in augmented reality (AR). This interactive platform aids learning, allowing for comparative analysis of anatomical structures and offering resources for continuing education in anatomy, physiology, and pathophysiology.

### **Technical Specifications:**

- \* Scale: Life size
- \* Material: Synthetic resin

### **Main Structures:**

**Urethra:** Muscular tube that conducts urine from the urinary bladder to the outside of the body. In men, it also transports semen.



**Prostate:** Gland located below the urinary bladder in men, surrounding the urethra. Produces seminal fluid that makes up semen.

**Urinary bladder:** Hollow muscular organ that stores urine produced by the kidneys before urination.

**Kidney:** Paired bean-shaped organ located in the posterior region of the abdomen. Filters blood, producing urine and regulating blood pressure, among other functions.

**Renal artery:** Blood vessel that carries oxygenated blood from the heart to the kidney.

**Renal vein:** Blood vessel that carries deoxygenated blood from the kidney to the heart.

**Diaphragm:** Muscle that separates the thoracic and abdominal cavities, important in respiration. (Included in the section, but not detailed in the input text.)

**Abdominal aorta:** Portion of the aorta that runs through the abdomen, distributing blood to the abdominal organs, including the kidneys.

**Inferior vena cava:** Main vein that carries deoxygenated blood from the lower extremities and abdominal organs to the heart.

**Adrenal gland:** Endocrine gland located on top of the kidney, which produces hormones such as adrenaline and cortisol.

Other structures can be verified directly on the physical piece or on the interactive 3D model.

#### **About the Anatomical Models:**

They are developed with resin replication technology, offering an alternative for teaching and research. They present the main morphological characteristics with a good cost-benefit ratio, good resistance, hand painting, and numbering for precise identification of structures.

Request a demonstration or contact us for more information!

#### **List of all visible structures:**

- Urethra
- Prostate
- Urinary bladder
- Kidney
- Renal artery
- Renal vein



- Diaphragm
- Abdominal aorta
- Inferior vena cava
- Adrenal gland
- Renal cortex
- Renal pelvis
- Major calyces
- Minor calyces
- Renal sinus
- Renal pyramid
- Renal column
- Renal medulla