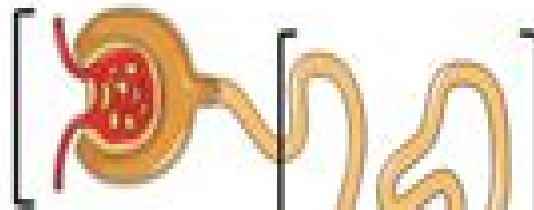


Renal corpuscle

- Generates the glomerular filtrate composed by water, ions, and small molecules



Distal convoluted tubule

- Reabsorbs sodium and chloride

Proximal convoluted tubule

- Reabsorbs sodium, chloride, potassium, water, glucose, amino acids, bicarbonate, calcium and phosphate
- Secretes ammonium and creatinine

Loop of Henle (thin descending limb)

- Reabsorbs water

Loop of Henle (thin ascending limb)

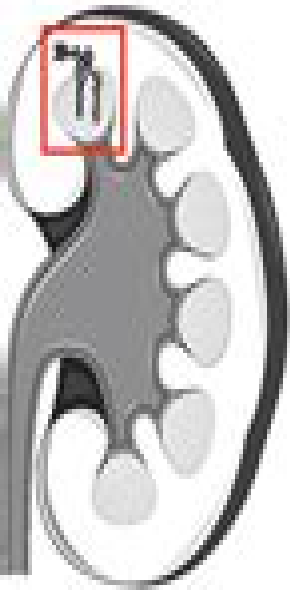
- Reabsorbs sodium and chloride

Loop of Henle (thick ascending limb)

- Reabsorbs ammonium, sodium, chloride

Collecting duct

- Reabsorbs sodium, chloride and water
- Secretes ammonium, hydrogen ions and potassium



Renal Function Physiological And Medical Aspects

**National Institutes of Health (U.S.).
Division of Research Grants**



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Renal Function John W. Bauman, Francis P. Chinard, 1975 *Current Catalog* National Library of Medicine (U.S.), 1979
First multi year cumulation covers six years 1965 70 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965 70 **Renal Function** John W. Baumann, Francis P. Chinard, 1975 **Renal Physiology** Esmail Koushanpour, Wilhelm Kriz, 2013-03-14 The first edition of this book was well received by updated The two of us have made further collaborative efforts to present a better understanding of medical students graduate students and clinicians interested in furthering their understanding of basic the function of the kidney in conjunction with the principles of renal physiology Most of the reviews most recent anatomical findings of the first edition and comments from the various The second edition consists of 13 Chapters and 3 instructors who used the book were very positive Appendices As in the first edition the anatomical and complimentary with regard to the presentation description of the kidney is incorporated into the of the physiological information and the use of the various chapters dealing with kidney functions Most system analysis approach to describe renal function of the anatomical information was written by Wil These positive and encouraging comments over the helm Kriz The physiological information was writ past nine years since the publication of the first ten by Esmail Koushanpour except for Chapter 12 edition gave us the impetus to consider the prepa which was jointly written Chapters 1 through 3 were ration of a second edition **Military Quantitative Physiology: Problems and Concepts in Military Operational Medicine** The Borden Institute, U.S. Army Medical Department, Office of the Surgeon General, Martha K. Lenhart, 2017-07-26 Few human activities demand or deserve as much attention of the citizens of a nation as the array of man made and natural environmental threats faced by the soldiers and other warriors defending the nation those that pose the risk of disease injury combat wounds and even death This book is the Army s first detailing research in computational physiology models and highlighting pivotal research It outlines the extent to which basic and applied biomedical scientists clinicians modelers and others strive to understand the extent of these threats and provide intellectual and materiel options to mitigate these risks This book summarizes major Army research efforts to quantify and model military relevant physiology These chapters highlight the translation of this research into useful predictive tools The tools are of importance to medical planners materiel developers commanders and in many cases every soldier These chapters detail the experimental basis for many of the predictive tools that are currently in use This book is written for military clinicians and medical researchers who may be reasonably expected to explain some of the background as well as those who will extend the research Many people will find this book interesting because it details research on topics that affect everyone in everyday life including how we sleep eat and exercise as well as more specific topics such as the effects of caffeine on performance risks associated with laser pointers and even Army blast models that have influenced safety thresholds for car airbag deployments **Physiology** John Bullock, Joseph Boyle, Michael B. Wang, 2001-01-01 The fourth edition of NMS

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