

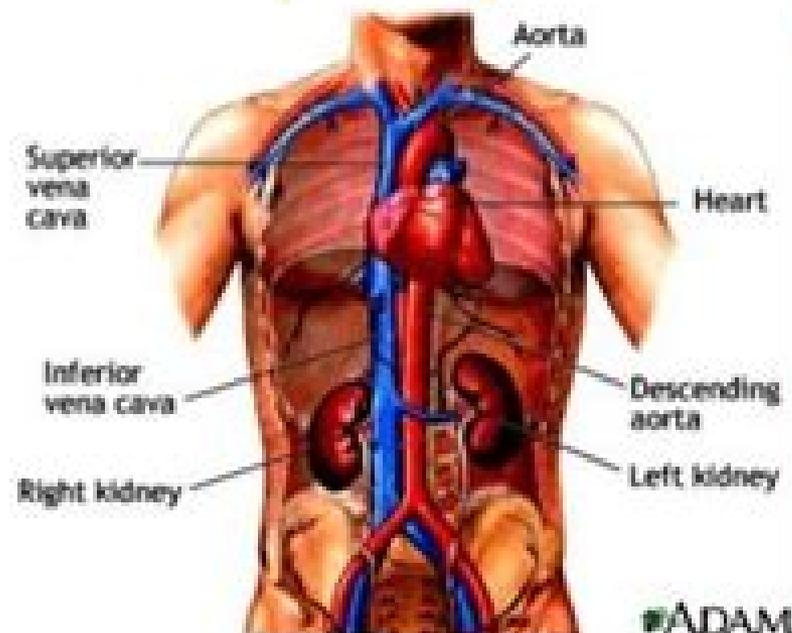
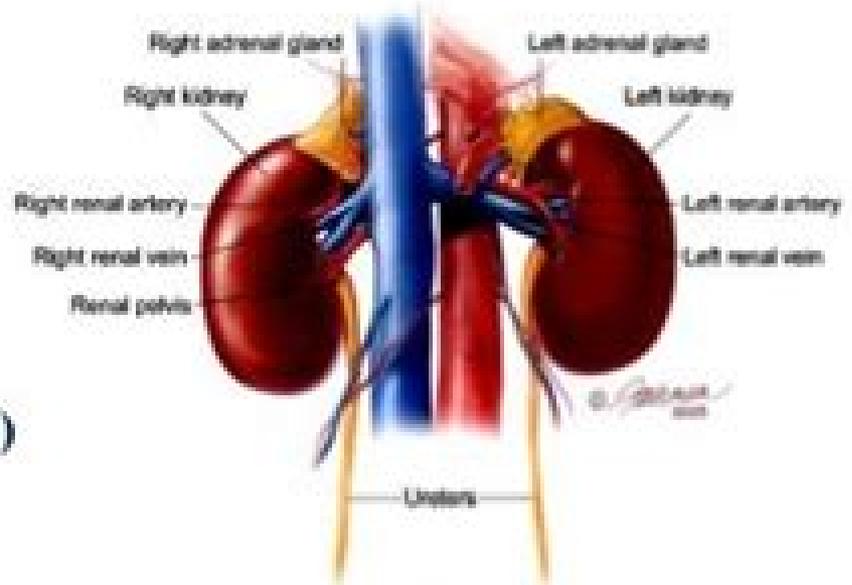
# KIDNEY – STRUCTURE AND FUNCTION

## ○ Roles of the kidney

- Excretion
- homeostasis
- Osmoregulation
- regulation of salts in the body
- regulation of pH
- production of a hormone (EPO)

## ○ Kidney functions

- filtration of blood
- selective reabsorption by
  - active transport
  - passive absorption
- secretion



# Structure And Function Of The Kidney

**Dianne M. Welsh**



## Structure And Function Of The Kidney:

**Structure Function Correlation on Rat Kidney** Walter Pfaller, 2012-12-06 Over the past few decades an exceedingly large number of experimental and clinical investigations have been performed in an attempt to analyze the way in which the kidney functions. The basis for all this work was established during the nineteenth and the early twentieth century by morphologists Bowman 1842 Hyrtl 1863 1872 Heidenhain 1874 Peter 1909 von Mollendorf 1930. All these investigators clearly outlined the extremely heterogeneous assembly of renal tissue and also defined the nephron as the smallest morphological unit. It was further the merit of these anatomists and histologists to preclude quite a number of nephron functions based merely on their careful observations. Contemporary histologists have been able to add little to these observations. Unfortunately with the introduction of physiologic in vivo et situ studies on kidneys the interest in heterogeneity waned. This lack of attention was aggravated by the introduction of the clearance techniques which cannot account for regional differences in the function of the smallest unit the nephron. That anatomic heterogeneity has a functional correlate was strongly suggested by Trueta et al 1947 and vigorously stimulated a number of studies. The development of physiologic microtechniques like micropuncture and microperfusion of single nephrons or the perfusion of isolated nephron portions and electrophysiologic studies enormously expanded our knowledge concerning details regarding nephron and total renal function.

Structure and Function of the Kidney Jean Hamburger, Gabriel Richet, Jean-Pierre Grünfeld, 1971-01-01 Structure and Function of the Body Catherine Parker Anthony, 1972

**The Oxford Medicine: Diseases of the digestive system, kidneys, and ductless glands** Henry A. Christian, James Mackenzie, 1921 *The Oxford Medicine: Diseases of the digestive system, kidneys, and ductless glands* Henry Asbury Christian, 1920 *The American Journal of the Medical Sciences*, 1925 *Structure and Function of the Kidney* Rolf K. H. Kinne, 1989

**Alcohol's Effect on Organ Function** Dianne M. Welsh, 1998-12 Presents a selection of articles on the effect of alcohol use on organ function. Topics include alcohol's effects on liver function, alcohol related pancreatic damage, alcohol and the cardiovascular system, alcohol's contribution to compromised immunity, the hematological complications of alcoholism, the endocrine system and alcohol related hormonal imbalances, impairments of brain and behavior, alcohol's role in gastrointestinal tract disorders, and alcohol's impact on kidney function.

Diagrams American Journal of Physiology, 1924 Vols for 1898 1941 1948 56 include the Society's proceedings primarily abstracts of papers presented at the 10th 53rd annual meetings and the 1948 56 fall meetings

**A Text-book of pathology systematic & practical v.1, 1889** David James Hamilton, 1889 *Brenner and Rector's The Kidney E-Book* Alan S.L. Yu, Glenn M. Chertow, Valerie Luyckx, Philip A. Marsden, Karl Skorecki, Maarten W. Taal, 2019-09-25 Selected for Doody's Core Titles 2024 in Nephrology. Put the world's most well known kidney reference to work in your practice with the 11th Edition of Brenner Rector's *The Kidney*. This two volume masterwork provides expert well illustrated information on everything from basic science and pathophysiology to clinical best practices. Addressing current issues such

as new therapies for cardiorenal syndrome the increased importance of supportive or palliative care in advanced chronic kidney disease increasing live kidney donation in transplants and emerging discoveries in stem cell and kidney regeneration this revised edition prepares you for any clinical challenge you may encounter Extensively updated chapters throughout providing the latest scientific and clinical information from authorities in their respective fields Lifespan coverage of kidney health and disease from pre conception through fetal and infant health childhood adulthood and old age Discussions of today's hot topics including the global increase in acute kidney injury chronic kidney disease of unknown etiology cardiovascular disease and renal disease and global initiatives for alternatives in areas with limited facilities for dialysis or transplant New Key Points that represent either new findings or pearls of information that are not widely known or understood New Clinical Relevance boxes that highlight the information you must know during a patient visit such as pertinent physiology or pathophysiology Hundreds of full color high quality photographs as well as carefully chosen figures algorithms and tables that illustrate essential concepts nuances of clinical presentation and technique and clinical decision making A new editor who is a world renowned expert in global health and nephrology care in underserved populations Dr Valerie A Luyckx from University of Z rich Board review style questions to help you prepare for certification or recertification Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices

**A Text-book of Pathology: Systematic & Practical** D.J. Hamilton,1889 *A guide to the examinations at the Royal college of surgeons of England, revised and enlarged from appendix to the author's Science and practice of surgery* Frederick James Gant,1885 *The Kidney: Structure and Function in Health and Disease* Homer William Smith,1951 The complex function of the kidney in man and other vertebrates would suggest that this organ has an extraordinarily complex structure *Index-catalogue of the Library of the Surgeon General's Office, United States* ,1886 *Alcohol Health and Research World* ,1997 [The Journal of Urology](#) ,1928 [Outlines of the Comparative Physiology and Morphology of Animals](#) Joseph LeConte,1899 **Outlines of the Compative Physiology and Morphology of Animals** Joseph LeConte,1900 **The Journal of the Indiana State Medical Association** Indiana State Medical Association,1916 Includes the association s membership roster and its complete program and annual reports

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