



## Understanding Kidney Diseases

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Responsibility: Hugh Rayner, Mark Thomas, David Milford

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Subjects (MeSH): Diagnostic Techniques, Urological  
Disease Progression  
Kidney Diseases - diagnosis  
Kidney Diseases - physiopathology  
Renal Replacement Therapy

Abstract: This book provides the essential understanding needed for the assessment of patients with kidney disease. The chapters follow the sequence taken during a clinic consultation and when clerking a patient. At each stage, the principles and concepts underlying aspects of renal medicine that may seem difficult are clearly explained. Understanding Kidney Diseases includes numerous case studies and charts based upon patients' data to help students, residents and fellows develop their knowledge and skill in managing patients.

Contents: 1. Kidney Anatomy and Physiology – 2. Measuring Kidney Function – 3. Plot All the Dots – 4. How Are You Feeling? – 5. Do You Have Any Long-Term Health Conditions? – 6. Are You Pregnant or Planning a Pregnancy? – 7. What Is Your Family History? – 8. What Have You Been Taking? – 9. Height and Weight – 10. Blood Pressure – 11. Test the Urine – 12. Examine the Patient. – 13. Full Blood Count, Urea and Electrolytes, Bicarbonate, Bone Profile – 14. Immunology – 15. Image the Urinary Tract – 16. Should We Do a Kidney Biopsy? – 17. Make a Plan – 18. Renal Replacement Therapy – 19. Epilogue – Multiple Choice Questions – Multiple Choice Question Answers – Index of Case Reports – Index of Histopathology, Radiology and Clinical Images.

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## Understanding Kidney Diseases

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**Author:** Rayner, Hugh C.  
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**Responsibility:** Hugh C. Rayner, Mark E. Thomas, David V. Milford  
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9783030430290 (Print ed.)  
**Subjects (MeSH):** Kidney Diseases - diagnosis  
Kidney Diseases - physiopathology  
**Specialty:** Nephrology  
**Abstract:** This book combines the reference material of a nephrology textbook with the everyday relevance of a clinical handbook. This second edition develops and expands upon the success of the first. All the content has been updated and entirely new chapters on acid-base disorders and stone disease have been added. Understanding Kidney Diseases includes over 60 real-life case studies and is illustrated with over 200 figures. Readers can test their knowledge with a bank of multiple-choice questions and put it into practice by answering questions that patients frequently ask. The book provides all that students, residents and fellows need in order to approach a patient with a kidney problem with confidence.

**Contents:**

1. Kidney Anatomy and Physiology: The Basis of Clinical Nephrology –
2. Measuring Kidney Function: How to Use Laboratory Tests to Measure Glomerular Filtration Rate –
3. Plot All the Dots: How Graphs Reveal the History of Someone's Kidney Disease –
4. Kidney Function in Acute Illness and Acute Kidney Injury –
5. How Are You Feeling? Symptoms of Kidney Disease –
6. Do You Have Any Risk Factors or Long-Term Health Conditions? How Environment, Lifestyle and Other Medical Conditions Are Linked to Kidney Disease –
7. Are You Pregnant or Planning a Pregnancy? How Pregnancy Affects the Kidneys and Vice Versa –
8. What Is Your Family History? The Molecular Genetics of Inherited Kidney Diseases –
9. What Have You Been Taking? Nephrotoxicity from Medications and Other Chemicals –
10. Height and Weight: The Effects of Kidney Disease on Development; Links Between Obesity and Kidney Disease –
11. Blood Pressure: The Interactions Between Hypertension and Kidney Disease –
12. Test the Urine: Understanding Haematuria, Proteinuria and Urinary Infection –
13. Examine the Patient: Physical Signs Related to Kidney Diseases –
14. Full Blood Count: Haematological Changes in Kidney Diseases –
15. Acid, Base and the Kidneys: The Role of the Kidneys in Acid-Base Disorders –
16. Calcium, Phosphate and Bones: How Bone and Mineral Metabolism is Altered in Kidney Disease –
17. Immunology: Serological Tests That Help Diagnose Kidney Diseases –
18. Image the Urinary Tract: Strengths and Weaknesses of Different Radiology Modalities –
19. Should We Do a Kidney Biopsy? Balancing the Diagnostic Benefits Against the Clinical Risks –
20. Kidney Stone Disease: A Link Between Nephrology and Urology –
21. Make a Plan: When and How to Prepare for End-Stage Kidney Disease –
22. Kidney Replacement Therapy: Common Problems in Dialysis and Transplant Patients –

Frequently Asked Questions – Multiple Choice Questions – Answers – Case Reports.

**Format:** e-Book

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