

Section 1: Chronic Kidney Disease

1. *Chronic Kidney Disease: Definitions, Epidemiology, Cost, and Outcomes*
2. *Measurement and Estimation of Kidney Function*
3. *Diabetic Kidney Disease*
4. *Hypertensive Kidney Disease*
5. *Chronic Kidney Disease in the Elderly*
6. *The Pediatric Patient with Chronic Kidney Disease*
7. *Genetic Causes of Chronic Kidney Disease*

Section 2: Complications and Management of Chronic Kidney Disease

8. *The Role of the Chronic Kidney Disease Clinic and Multidisciplinary Team Care*
9. *Anemia in Chronic Kidney Disease*
10. *Mineral Bone Disorders in Chronic Kidney Disease*
11. *Vitamin D Disorders in Chronic Kidney Disease*
12. *Cardiovascular Disease in Chronic Kidney Disease*
13. *Nutrition, Metabolism and Hormonal Function in Chronic Kidney Disease*
14. *Inflammation in Chronic Kidney Disease*
15. *Sleep Disorders in Chronic Kidney Disease*
16. *Depression and Neurocognitive Function in Chronic Kidney Disease*
17. *Medication Management in Chronic Kidney Disease*
18. *The Pathophysiology of Uremia*
19. *Timing and Initiation and Modality Options for Renal Replacement Therapy*
20. *Ethical Challenges and the Role of Palliative Care in Kidney Disease*

Section 3: Dialysis

21. *Dialysis and End Stage Kidney Disease: Epidemiology, Cost, and Outcomes*
22. *Principles of Hemodialysis*
23. *Vascular Access*
24. *Hemodialysis Adequacy*
25. *Hemodialysis-Associated Infections*
26. *Acute Complications Associated with Hemodialysis*
27. *Frequent Hemodialysis: Physiological, Epidemiological, and Practical Aspects*
28. *Home Hemodialysis*
29. *Peritoneal Physiology*
30. *The Utilization and Outcomes of Peritoneal Dialysis*

31. *Peritoneal Dialysis Solutions, Prescription and Adequacy*

32. *Peritoneal Dialysis-Related Infections*

33. *Noninfectious Complications of Peritoneal Dialysis*

Section 4: Transplantation

34. *Transplant epidemiology, costs and outcomes*

35. *Transplantation Immunobiology*

36. *Evaluation of Donors and Recipients*

37. *Surgical Management of the Renal Transplant Recipient*

38. *Immunosuppressive Therapy*

39. *Diagnosis and Therapy of Graft Dysfunction*

40. *Infection in Renal Transplant Recipients*

41. *Noninfectious Complications after Kidney Transplantation*

42. *Recurrent and De Novo Renal Diseases after Kidney Transplantation*

43. *Pediatric Renal Transplantation*

44. *Chronic Kidney Disease in the Kidney Transplant Recipient*

Section 5: Acute Kidney Injury

45. *Acute Kidney Injury: Epidemiology, Costs and Outcomes*

46. *Metabolic and Nutritional Complications of Acute Kidney Injury*

47. *Acute Kidney Injury Diagnostics and Biomarkers*

48. *Pharmacological Interventions in Acute Kidney Injury*

49. *Dialytic Management for Acute Renal Failure*

50. *Extracorporeal Treatment of Poisonings*