

Synopsis of Nephrology

has been compiled for the postgraduate trainees in nephrology, MD residents, fellows in nephrology and internal medicine, and practising nephrologists. Information included in the book has been sourced from various guidelines like KDIGO clinical practical guideline, Nice guidelines, European best practice guideline and Medscape, Uptodate, pubmed, etc. and also from the author's own experience as a teacher, examiner and practising doctor in the field of nephrology.

Almost all aspects of clinical nephrology have been covered in the book. The content of the book, covered in 21 chapters, includes the following topics.

- Basics of urine examination
- Urinary tract infections
- Diabetic Kidney disease
- Transplantation
- Radiology and imaging in clinical nephrology
- Glomerular diseases
- AKI
- CKD
- Dialysis

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Dr Alam is President of Bangladesh Renal Association, Vice President of Society of Organ Transplantation, Bangladesh, and President of Association of Physicians of Bangladesh. He is fellow of the American Society of Nephrology and member of ISN South Asian Regional Board.

Dr Alam is one of the editors of *Bangladesh Renal Journal*. Besides this title, he has written two books *Kidney Niye Joto Kotha* and *Manual of Clinical Nephrology*, contributed chapters in different books, and has to his credit over 50 papers published in various reputed national and international journals. He has attended many international congresses, CME programs, expert committee meetings and workshops.

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Alam



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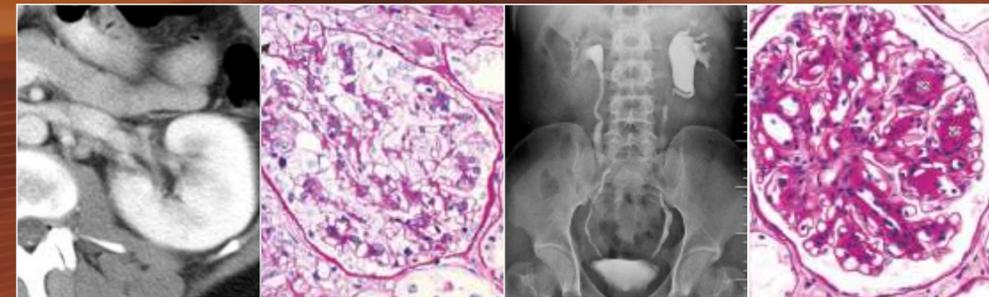


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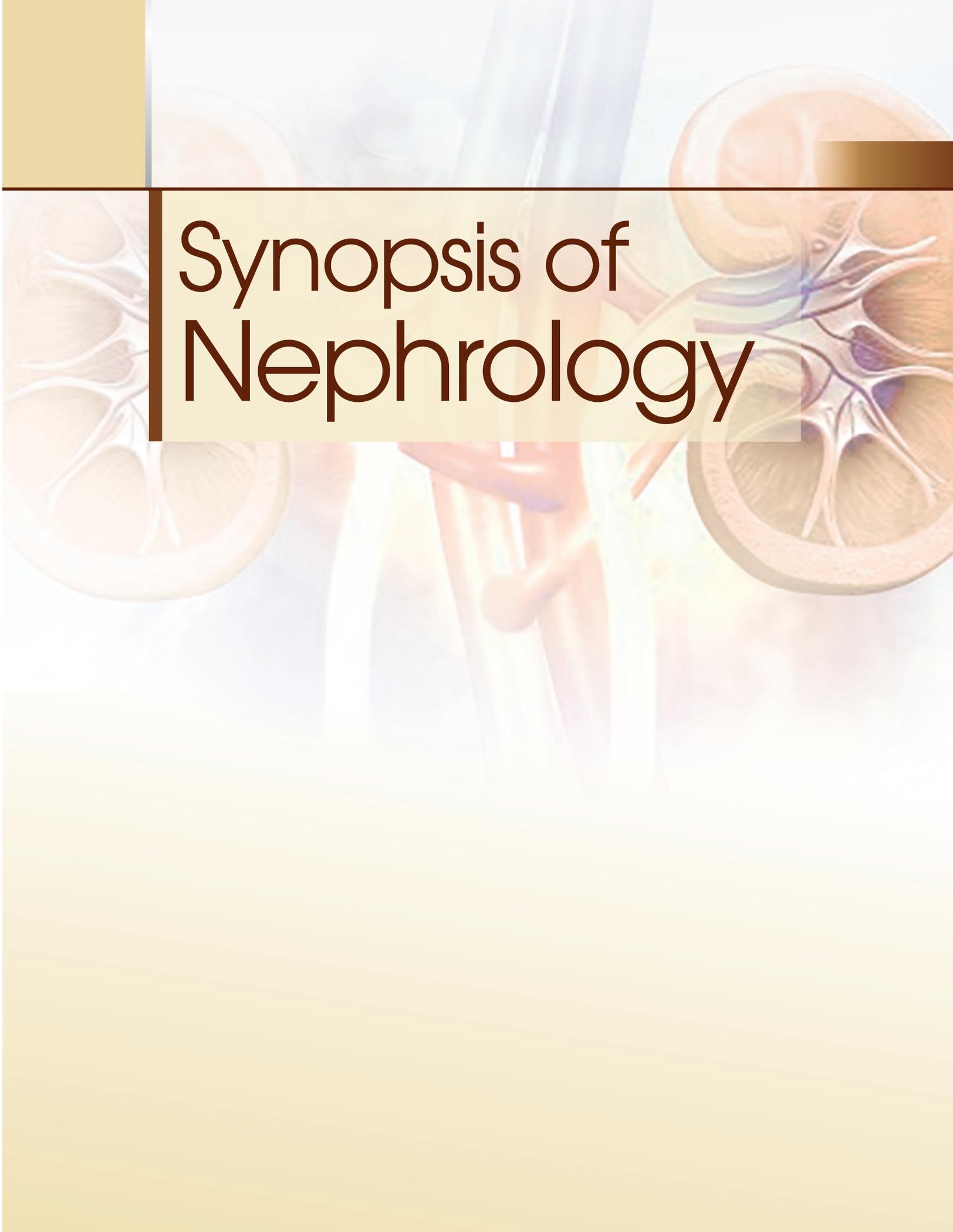
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Muhammad Rafiqul Alam



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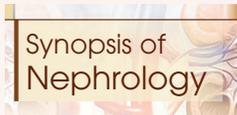


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to

*my parents,
for their patience in my upbringing*

*my teachers and mentors,
for shaping my academic career*

*my wife, daughters, sons-in-law,
grandson and granddaughters,
for undying support*

*my sisters and brothers,
for unlimited affection*

*my colleagues,
for constant source of inspiration*

*my patients,
for their trust in me*

Foreword

Internal medicine comprises many subspecialties of which nephrology is very important one. I feel proud and privileged that this discipline was started by me in Bangladesh with the blessing of the then Director of Institute of Post Graduate Medicine & Research (IPGM&R) Prof N Islam. Today nephrology in Bangladesh is an established discipline. There are Masters Degree (MD) and Fellowship (FCPS) courses in nephrology. More and more young doctors are showing their interest in nephrology.

With these perspectives, the book *Synopsis of Nephrology* compiled by Prof. Dr Muhammad Rafiqul Alam is very welcome. Almost all the important issues in clinical nephrology are covered in this book.

I hope that the MD residents, postgraduate fellows and trainees in nephrology, and internal medicine will be benefitted by the book.

I wish the book all success.



Prof Matiur Rahman

Founder of Nephrology Discipline in Bangladesh

Foreword

Nephrology is a rapidly advancing specialty of medicine. We need more and more books in this field. Especially I feel encouraged when our university teachers are taking this hardship in compiling book in specialty subjects.

This book *Synopsis of Nephrology* is laid down in 21 chapters. It provides practical, scholarly, and evidence-based coverage over the full spectrum of clinical nephrology, written by Dr Muhammad Rafiqul Alam. This is an authoritative and comprehensive textbook combining the clinical aspects of renal disease essential to daily clinical practice with extensive information about the underlying basic science and current evidence available. Each section of the book has been critically and comprehensively edited. The chapters are well organized and I hope the postgraduate trainees, residents and fellows in nephrology will understand it and they will be benefited by the book.

I wish all success of this book.



Prof Kanak Kanti Barua

Vice-Chancellor
Bangabandhu Sheikh Mujib Medical University
Bangladesh

Preface

In this era of Internet, people are reluctant to read multivolume big books. This book is compiled in a concise form for residents of nephrology, postgraduate doctors and renal physicians.

Review of the basic science that supports clinical nephrology and comprehensive selection of the most important bibliographical sources in nephrology help to prepare for ratification or recertification. Highlights of the book include expanded sections and chapter on global perspective and ethical considerations, uniform terminology and nomenclature in line with emerging consensus, high-quality photographs as well as carefully chosen figures, algorithms, and tables to illustrate essential concepts, distinctions of clinical presentation and technique, and decision making provide a visual understanding and better acceptance of critical information.

There are 21 chapters in the book *Synopsis of Nephrology* which will meet the demand of the doctors interested in renal medicine. All chapters have been comprehensively supplemented by the latest clinical information including recent clinical trials, and well accepted different scientific platforms to keep you up-to-date with the rapid advances of care and research worldwide.

The eBook experience allows you to search all of the text, figures, and bibliography from the book on a variety of devices.

I am very grateful to KM Haque, for his wonderful help in preparing the manuscript. I am also grateful to Dr Md A Jalil, Mr Hasan and others, for their valuable support.

If there are any errors in this edition shall gladly rectify these in the next edition.



Muhammad Rafiqul Alam

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