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# Acute Kidney Injury After Computed Tomography A Meta Analysis

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Diseases of the Kidney and Urinary Tract

Cardiac CT Imaging, An Issue of Radiologic Clinics of North America, Ebook

An Updated Comprehensive Review

Controversies in Acute Kidney Injury

Pulmonary Embolism, An Issue of Clinics in Chest Medicine E-Book

Managing for Outcome

Acute Renal Failure with Severe Loin Pain and Patchy Renal Ischemia after Anaerobic Exercise

Tietz Textbook of Laboratory Medicine - E-Book

Exercise-Induced Acute Renal Failure

Gastrointestinal Emergencies

ADQI Consensus on AKI Biomarkers and Cardiorenal Syndromes

Part I: "Serum Cystatin C (sCy C)" Part II: Assessment of changes in Cystatin C (CyC) after 48 h post contrast media exposure

Aspects in Continuous Renal Replacement Therapy

Annual Update in Intensive Care and Emergency Medicine 2018

Uremic Toxins

Kidney Disease in the Cardiac Catheterization Laboratory

New Insight into Cerebrovascular Diseases

Meta-Analysis in Context

Concepts in Surgical Critical Care

Pediatric Urology E-Book

Acute Kidney Injury: It's Not Just Acute, and It's Not Just the Kidneys

Core Concepts in Acute Kidney Injury

Comparison Of Urinary Biomarkers For Prediction Of Acute Kidney Injury After

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Acute Kidney Injury - Basic Research and Clinical Practice

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Genitourinary Emergencies, An Issue of Emergency Medicine Clinics of North

America

Oxford Textbook of Clinical Nephrology

Brenner and Rector's The Kidney E-Book  
Approaches to Chronic Kidney Disease  
Continuous Renal Replacement Therapy  
Handbook of Critical Care Nephrology  
Acute Kidney Injury and Regenerative Medicine  
Textbook of Critical Care E-Book  
Diagnostics, Risk Factors, Treatment and Outcomes of Acute Kidney Injury in a New  
Paradigm  
Imaging the ICU Patient or Hospitalized Patient, An Issue of Radiologic Clinics of  
North America, E-Book  
Perioperative Medicine E-Book

*Acute Kidney Injury  
After Computed  
Tomography A Meta  
Analysis*

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**SAWYER LAWRENCE**

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*Diseases of the Kidney and Urinary Tract*  
BoD - Books on Demand  
Continuous Renal Replacement

TherapyOxford University Press  
Karger Medical and Scientific Publishers  
This book is a comprehensive and richly-  
illustrated guide to cardiac CT, its  
current state, applications, and future  
directions. While the first edition of this  
text focused on what was then a novel  
instrument looking for application, this

edition comes at a time where a wealth of guideline-driven, robust, and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology. Accordingly, the focus of the text has shifted from a technology-centric to a more patient-centric appraisal. While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success, much of the benefit derived from cardiac CT today comes from avant-garde technologies enabling enhanced visualization, quantitative imaging, and functional assessment, along with exciting deep learning, and artificial intelligence applications. Cardiac CT is no longer a mere tool for non-invasive coronary artery stenosis

detection in the chest pain diagnostic algorithms; cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification, prediction, and management, diagnosing lesion-specific ischemia, guiding minimally invasive structural heart disease therapy, and planning cardiovascular surgery, among many others. This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT.

[Cardiac CT Imaging, An Issue of Radiologic Clinics of North America, Ebook](#) Karger Medical and Scientific Publishers

"There is a significant shortage of critical care physicians across the US. For this

reason, advanced practice providers (including advanced practice registered nurses and physician assistants) are being utilized more and more to bridge this clinical resource gap. However, APPs are trained as generalists and have limited specialization and exposure to the unique needs of perioperative critically-ill patients. Concepts in Surgical Critical Care is the only single resource designed specifically for APPs caring for this population. Featuring a user-friendly organization designed to quickly find what you're looking for, Concepts in Surgical Critical Care is the ultimate resource regarding the care of critically-ill perioperative patients. It starts with foundational critical care topics across all surgical specialties followed by the specifics within 12 - including the

neurologic system, the cardiovascular system, the respiratory system, the vascular system, etc. The use of checklists, bold and italicized text, key concepts, clinical pearls, focus questions, case studies, simulations, illustrations, tables and figures to display complex topics, practice questions, chapter summaries, and suggested readings for further study aid in mastery of the subject matter"--

*An Updated Comprehensive Review*

Lippincott Williams & Wilkins

Designed specifically for nephrologists and trainees practicing in the ICU,

Handbook of Critical Care Nephrology is a portable critical care reference with a unique and practical nephrology focus.

Full-color illustrations, numerous algorithms, and intuitively arranged

contents make this manual a must-have resource for nephrology in today's ICU.

### **Controversies in Acute Kidney Injury**

Lippincott Williams & Wilkins

Associated with both acute kidney injury (AKI) and cardio-renal syndromes (CRS), new biomarkers represent both a popular area of investigation and a new opportunity for advancement of therapy. This book contains the resolutions of the most recent ADQI conferences on biomarkers in AKI (Dublin) and on cardio-renal syndromes (Venice). The first part answers specific questions about new biomarkers and their use and utility in AKI: What are the most suitable candidate molecules and physiologic measures, how solid and evidence based is the discovery phase? How can we incorporate the new biomarkers in the

AKI conceptual model describing the evolution from susceptibility to insult, decreased GFR and organ death? Even if we have a positive biomarker pattern and we can identify patients at risk or patients with early or even subclinical AKI, how is this information affecting our clinical behavior and practice? The second part is dedicated to the appraisal of the current knowledge about the pathophysiological mechanisms involved in different forms of CRS: it contains contributions on the state-of-the-art knowledge and practice of CRS, particularly focusing on the pathophysiology of the five subtypes. Acute and chronic mechanisms of damage are explored in depth, with particular attention to the primacy of organ involvement and the subsequent

pathways of organ crosstalk. Presenting the most recent research in the field of biomarkers, AKI and CRS, this publication is an important educational tool for advanced investigators and clinical experts, but also for students and fellows.

Pulmonary Embolism, An Issue of Clinics in Chest Medicine E-Book Springer Science & Business Media

The present book contains the Proceedings of a two day Symposium on Uremic Toxins organized at the University of Ghent in Belgium. A series of guest lectures, free communications and posters have been presented. An international audience of 163 scientists from 16 nationalities listened to and discussed extensively a spectrum of topics brought forward by colleagues

and researchers who worked for many years in the field of Uremic Toxins. There is a striking contrast between all the new dialysis strategies available in the work to "clean" the uremic patients and the almost non-progression of our knowledge on uremic toxins in the past decade. In this sense the symposium was felt by all participants as a new start for the research in the biochemical field of the definition of uremia. If the present volume would stimulate new work in this field in order to define uremia, or identify the uremic toxins, the purpose of the organizers would be maximally fulfilled. *Managing for Outcome* Springer Nature Based on the most current evidence and best practices, *Perioperative Medicine: Managing for Outcome*, 2nd Edition, is an easy-to-follow, authoritative guide to

achieving optimal outcomes in perioperative care. Written and edited by recognized authorities in anesthesiology and surgical critical care, this fully updated edition helps you think critically about complex, long-term issues surrounding the care of the surgical patient, providing decision trees that define strategies to enhance the medical outcome of care. Focuses on what anesthesiologists, surgeons, and intensivists need to know in order to improve outcomes through evidence- and outcome-based approaches. Provides practical guidance on potential risks to all major organ systems, the etiology of particular organ dysfunctions, preoperative and intraoperative risk factors, and perioperative protection strategies to minimize potential

complications. Features a consistent chapter format - with even more color-coded algorithms, summary tables, and boxes - that enables you to quickly explore and determine the best management approaches. Includes six all-new chapters: Perioperative Fluid Management; Delirium and POCD; Role of Palliative Care/ICU; Value-Based Care: The UK Model; CFO Perspective on Value; Hospital to Home (Perioperative Transitions of Care) Discusses timely topics such as quality improvement, pay-for-performance, preexisting disease and comorbid conditions in anesthesiology, and the team-based model of care. Features two new editors, surgeon Clifford Ko, MD, and Perioperative Summit leader, Michael (Monty) Mythen, MD.

**Acute Renal Failure with Severe Loin Pain and Patchy Renal Ischemia after Anaerobic Exercise** Elsevier

Health Sciences

Comprehensive, concise, and readable, Textbook of Critical Care, 7th Edition, brings you fully up to date with the effective management of critically ill patients, providing the evidence-based guidance you need to overcome a full range of practice challenges. Drs. Jean-Louis Vincent, Edward Abraham, Frederick A. Moore, Patrick Kochanek, and Mitchell P. Fink are joined by other international experts who offer a multidisciplinary approach to critical care, sharing expertise in anesthesia, surgery, pulmonary medicine, and pediatrics. This highly acclaimed text offers ICU clinicians a new understanding

of the pathophysiology of critical illness and new therapeutic approaches to critical care. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Features a wealth of tables, boxes, algorithms, diagnostic images, and key points that clarify important concepts and streamline complex information for quick reference. coagulation, , telemedicine, extracorporeal membrane oxygenation (ECMO), and more. Offers new coverage of biomarkers, bedside ultrasound, and the management of increasingly complex critically ill patients. Provides new approaches to sepsis, acute kidney injury, and management of acute respiratory distress syndrome (ARDS), and other forms of respiratory failure.

*Tietz Textbook of Laboratory Medicine - E-Book* Springer Nature

This book presents up-to-date information on the clinical-pathophysiological features of acute renal injury and discusses the KDIGO diagnostic criteria, as well as novel experimental findings, including in the area of regenerative medicine. It also highlights the clinical-pathophysiological importance of AKI in clinical settings, including differential diagnoses and management of AKI. In the past, the pathology associated with sudden renal impairment was characterized as acute renal failure (ARF). However, in the 2000s, the joint efforts of specialists in fields including nephrology, intensive care medicine, and cardiovascular medicine led to the introduction of a

novel concept known as acute kidney injury (AKI). As medical care progressed, patients such as high-risk elderly subjects who were not deemed to be candidates for invasive therapy came to be treated in intensive care units (ICUs). As a result, kidney injury as a subset of multiple organ failure was re-considered as AKI, especially in intensive care medicine. AKI was then proposed as a novel disease concept to emphasize the importance of early diagnosis and early intervention to improve prognosis. Presenting novel features, such as the definition of AKI, risk factors and management; biomarkers, such as neutrophil gelatinase-associated lipocalin (NGAL) and L-type fatty acid-binding protein (L-FABP); long-term outcomes of AKI; as well as renal

regeneration using iPS cell, manipulation of embryonic genes, and Xenotransplanted embryonic kidney, this book is of interest to all physicians and researchers in this field around the globe.

### Exercise-Induced Acute Renal Failure

Springer

The mortality from ischemic heart disease has decreased in recent years. The better understanding of risk factors associated with development of coronary artery disease has significantly contributed to this decline. Improvements in medical and interventional therapy have reduced the complications associated with acute myocardial infarction as well as revascularization. After the introduction of imaging modalities, the noninvasive

characterization of regional function, perfusion and metabolism allowed for more sophisticated tissue characterization to identify reversible dysfunction with high diagnostic and prognostic accuracy. We now can legitimately claim that computed tomography angiography (CTA) of the coronary arteries is available. In the evaluation of patients with suspected coronary artery disease, many guidelines today consider CTA an alternative to stress testing. However the nuclear technique most frequently used by cardiologists is myocardial perfusion imaging (MPI). The combination of a nuclear camera with CTA allows for the attainment of coronary anatomic, cardiac function and MPI from one piece of equipment.

Assessing cardiac viability is now fairly routine with these enhancements to cardiac imaging. Traditional coronary angiography presents a variety of limitations related to image acquisition, content, interpretation, and patient safety. Barriers to such improvements include the paucity of clinical outcomes studies related to new imaging technology, the need for physician and staff member training, and the costs associated with acquiring and effectively using these advances in coronary angiography. This issue is full of important information that every cardiologist needs to now.

*Gastrointestinal Emergencies* Elsevier Health Sciences

Part I "Serum Cystatin C (sCy C)" - Serum creatinine level does not increase

in patients with acute kidney injury (AKI), until moderate to severe reduction in glomerular filtration rate (GFR) occurs. Thus its use for estimating GFR in early AKI delays detection of kidney damage and making important therapeutic decisions. Moreover, serum cystatin C is not affected by · Gender, · Age, · Race, · Muscle mass and also does not suffer from lag period for its rise in early AKI. Several healthy subjects were studied and AKI patients over a period of 2 years at one of tertiary care hospital. Serum creatinine and serum cystatin C were studied and analyzed in relevance to early AKI. It was found that 56.2% of patients of AKI group had normal levels of serum creatinine in early phase, while all patients had elevated serum cystatin C at same time. Multiple logistic

regression analysis revealed cystatin C-based GFR reflecting decline in GFR with worsening AKI in better than creatinine-based GFR. An attempt has been made in this Booklet in Part I, to include evidence-based study of serum creatinine and serum cystatin C levels in AKI to establish its relevance in the early period of AKI and possible favorable outcome. Part II Further, in Part II I have endeavored to include the study to assess changes in Cystatin C (CyC) after 48 h post contrast media exposure, and to know whether it was a reliable indicator of acute kidney injury and the validity of a risk scoring tool for contrast-induced acute kidney injury (CI-AKI).

..... Dr. H. K. Saboowala.

*ADQI Consensus on AKI Biomarkers and Cardiorenal Syndromes* Elsevier Health

Sciences

The Annual Update compiles reviews of the most recent developments in experimental and clinical intensive care and emergency medicine research and practice in one comprehensive reference book. The chapters are written by well recognized experts in these fields. The book is addressed to everyone involved in internal medicine, anesthesia, surgery, pediatrics, intensive care and emergency medicine.

**Part I: "Serum Cystatin C (sCy C)"**

**Part II: Assessment of changes in Cystatin C (CyC) after 48 h post**

**contrast media exposure** Elsevier Health Sciences

This issue of Radiologic Clinics of North America focuses on Cardiac CT Imaging, and is edited by Drs. Suhny Abbara and

Prabhakar Rajiah. Articles will include: Calcium scoring for cardiovascular CT: how, when and why?; Coronary CTA: acquisition, interpretation and state of the evidence; TAVR and TCMVR; Cardiac masses; Nonischemic cardiomyopathies; Acute and chronic myocardial infarcts, spectrum of manifestations; Pericardial disease; Relevant Adult Congenital Heart Disease; Congenital aortic disease; Cardiac Valves (excluding TAVR); Acute coronary and acute aortic syndromes; Acquired aortic disease (excluding acute aortic syndromes); Cardiac Trauma; Post Cardiovascular surgery findings; and more!

Aspects in Continuous Renal Replacement Therapy  
 Continuous Renal Replacement Therapy  
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laboratory medicine and clinical pathology! Tietz Textbook of Laboratory Medicine, 7th Edition provides the guidance necessary to select, perform, and evaluate the results of new and established laboratory tests.

Comprehensive coverage includes the latest advances in topics such as clinical chemistry, genetic metabolic disorders, molecular diagnostics, hematology and coagulation, clinical microbiology, transfusion medicine, and clinical immunology. From a team of expert contributors led by Nader Rifai, this reference includes access to wide-ranging online resources on Expert Consult — featuring the comprehensive product with fully searchable text, regular content updates, animations, podcasts, over 1300 clinical case

studies, lecture series, and more. Authoritative, current content helps you perform tests in a cost-effective, timely, and efficient manner; provides expertise in managing clinical laboratory needs; and shows how to be responsive to an ever-changing environment. Current guidelines help you select, perform, and evaluate the results of new and established laboratory tests. Expert, internationally recognized chapter authors present guidelines representing different practices and points of view. Analytical criteria focus on the medical usefulness of laboratory procedures. Use of standard and international units of measure makes this text appropriate for any user, anywhere in the world. Expert Consult provides the entire text as a fully searchable eBook, and includes regular

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**Annual Update in Intensive Care and Emergency Medicine 2018** Elsevier Health Sciences

In the past decade, CRRT has moved from a niche therapy within specific

specialty centers to the standard of care for management of critically ill patients with acute renal failure. Continuous Renal Replacement Therapy provides concise, evidence-based, to-the-point bedside guidance about this treatment modality, offering quick reference answers to clinicians' questions about treatments and situations encountered in daily practice. Organized into sections on Theory; Practice; Special Situations; and Organizational Issues, Continuous Renal Replacement Therapy provides a complete view of CRRT theory and practice. Generous tables summarize and highlight key points, and key studies and trials are listed in each chapter.

**Uremic Toxins** Elsevier Health Sciences Through case presentations and a question and answer format, Clinical

Decisions in Nephrology, Hypertension and Renal Transplantation provides a state of the art, updated reference for the optimal management of patients with diseases of the kidneys, and hypertension. This volume starts with the assessment of the patient, focusing on history and physical examination. Subsequently, cases depicting various clinical syndromes and/or diseases are presented, with questions centering on the appropriate diagnostic and treatment strategy. This sets the stage for a 'Socratic approach' to learning between the attending physician and the house staff or medical student. This is the only book featuring problem-oriented true to life clinical cases in this format to cover nephrology, hypertension and kidney transplantation. Written by

renowned actively practicing clinicians, this unique reference is both comprehensive and concise and will be of great value to hospitalists and internists, as well as students, and interns/residents rotating in nephrology and internal medicine. Clinical practitioners, in the fields of critical care and hypertension specialists would also find this of value.

**Kidney Disease in the Cardiac Catheterization Laboratory** Jones & Bartlett Publishers

A timely update Acute kidney injury (AKI) is a serious and as yet incompletely understood disorder in which sudden impairment of kidney function occurs secondary to one or more of a variety of underlying conditions. This disorder is very common in (elderly) ICU patients

and is associated with very high mortality. Many of those who survive suffer from permanent kidney failure and other long-term morbidities, which may include cardiovascular disease and immune dysfunction. Epidemiologic evidence suggests that AKI is not a single disease, but a syndrome comprised of multiple, often coexisting, etiologies. Being usually part of multiorgan failure syndrome, it calls for multiple organ support therapy. The publication at hand contains sections on prerenal azotemia syndromes, dying of or with AKI, pathophysiology of sepsis-induced acute kidney injury, developments in prevention / treatment / rehabilitation, and renal support. Reporting the latest recommendations from experts, it provides valuable

information for those that are interested in understanding the disorder and its treatment options.

New Insight into Cerebrovascular Diseases Springer Science & Business Media

Background and Goal of Study: Acute kidney injury (AKI) after coronary artery bypass grafting (CABG) is one of the main complication that increases morbidity and mortality. The serum creatinine which is frequently used as a marker of renal function does not reflect the status of kidney function during acute changes. The aim of this study is to assess the correlation between three urinary biomarkers [Microalbumine (MA), Neutrophil gelatinase-associated lipocalin (NGAL), Kidney injury molecule-1(KIM-1)] and AKI in CABG

patients. Materials and Methods: All patients >18 years of age, underwent with cardiopulmonary bypass between February 2016 and July 2016 were enrolled in the prospective study. The primary outcome was AKI, defined as  $\geq 25\%$  decrease in glomerular filtration rate. The GFR was calculated as creatinine clearance rates with 24-hour urine collection. The single urine samples for MA and NGAL were obtained at postoperative 2-h and for KIM-1 at 24-h. Results and Discussion: A total of 70 patients were included in this study. AKI was identified in 18 (25.7%) patients while other 52 patients (74.3%) were classified as non-AKI. The MA and NGAL were significantly higher in AKI patients than in non-AKI patients (median [IQR], MA: 37.87 [15.81-78.94] vs 18.24

[11.04-38.63] [ $\mu\text{g}/\text{ml}$ ],  $p=0.022$ ;  
MA/Cr: 150.77 [65.91-535.08]  $\mu\text{mol}/\text{L}$   
81.18 [41.95-180.26] [ $\mu\text{g}/\text{mg}$ ],  
 $p=0.05$ ; uNGAL 33.35 [7.3-67.58]  $\mu\text{mol}/\text{L}$   
11.50 [6.98-18.13] [ $\text{ng}/\text{ml}$ ],  $p=0.023$ ;  
uNGAL/Cr: 81.66 [47.84-274.95]  $\mu\text{mol}/\text{L}$   
52.95 [31.04-89.53] [ $\text{ng}/\text{mg}$ ],  $p=0.023$ ).  
The 2-h NGAL /Cr values correlated with  
length of stay in hospital ( $p=0.042$ ) and  
2-h MA/ Cr measurements correlated  
with length of ICU stay ( $p=0.02$ ).  
Conclusion(s): Single measurements of  
urine NGAL and MA in 2-h after CABG  
may be useful for predicting the  
occurrence of AKI while, urine  
MA/Cr which was measured in  
postoperative 24-hour was not  
associated with AKI.

Meta-Analysis in Context MDPI

This monograph provides in-depth

information on exercise-induced acute  
renal failure after short-term anaerobic  
exercise, which causes severe pain in  
the loin and patchy renal ischemia with  
no sign of rhabdomyolysis. This  
complete clinical reference book  
includes characteristics of the disease,  
diagnosis, treatment and prognosis, and  
corresponding preventive measures. It  
also includes important information on  
genetics and etiology.

Concepts in Surgical Critical Care

Springer

Chronic kidney disease (CKD) is a major  
global public health problem, affecting  
nearly one in seven adults in the United  
States alone. It is a disease that  
integrates chronic illness at several  
levels, and the progressive condition is  
associated with high rates of co-

morbidity. This text provides a comprehensive, current state-of-the-art review of this field, serving as a valuable resource for primary care providers and non-nephrology clinicians that treat patients with CKD. It is comprised of 24 chapters focused on specific aspects of the disease. The first 2 chapters provide a bit of background on the disease, describing the anatomy and physiology of the kidney as well as the definition and epidemiology of the disease. The following 3 chapters discuss the detection, prevention and progression of the disease. The next 6 chapters describe the relationship of the disease with other conditions and most common co-morbidities such as diabetes and hypertension. The chapters, that follow

focus on the CKD associated complications and the CKD within special populations such as the elderly and minorities as well as dietary restrictions and drug dosing. The book concludes with discussion on preparation for renal replacement therapy and preemptive organ transplantation as an alternative to dialysis in the management of the advanced CKD. Written by experts in the field, *Approach to Chronic Kidney Disease* is a comprehensive guide for clinicians, especially primary care providers including residents and fellows in training, who take care of chronic kidney disease patients. It is also a useful tool for researchers dealing with this challenging field.

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