

chronic kidney disease concept map

chronic kidney disease concept map is an essential tool for understanding the intricate relationships between the causes, symptoms, progression, and management of chronic kidney disease (CKD). This comprehensive article explores the concept map for CKD, breaking down its key components, including pathophysiology, risk factors, clinical manifestations, diagnostic criteria, treatment strategies, and patient education. By visualizing these elements and their connections, healthcare professionals and students gain a clearer, more organized perspective on managing CKD and improving patient outcomes. Whether you are a medical practitioner, student, or someone seeking in-depth knowledge about chronic kidney disease, this article provides a structured, SEO-optimized overview that covers all major topics relevant to chronic kidney disease concept mapping. Continue reading to discover the fundamental aspects, practical applications, and benefits of using a concept map to understand and manage CKD more effectively.

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Understanding Chronic Kidney Disease Concept Map

A chronic kidney disease concept map is a visual representation that organizes and connects the core aspects of CKD, including its etiology, symptoms, progression, and management strategies. Concept maps are powerful educational tools that facilitate comprehension by displaying how different elements interrelate within the disease process. For CKD, this means mapping out factors such as risk contributors, pathophysiological mechanisms,

clinical signs, diagnostic methods, and treatment options. When designed effectively, a CKD concept map enhances both learning and clinical decision-making, making complex medical information accessible and actionable for healthcare providers and students alike.

Key Components of a Chronic Kidney Disease Concept Map

A thorough chronic kidney disease concept map should include several essential components that depict the full scope of the disease. These components are interlinked to illustrate the multidimensional nature of CKD and its impact on patient health. Including these sections in a concept map ensures a holistic understanding of the disease and guides effective patient care.

- Etiology and Risk Factors
- Pathophysiological Processes
- Clinical Manifestations
- Diagnostic Criteria
- Treatment and Management Strategies
- Complications
- Patient Education and Self-Management

Pathophysiology of Chronic Kidney Disease

Progressive Loss of Renal Function

Chronic kidney disease is characterized by a gradual, irreversible loss of kidney function over months or years. The pathophysiological process involves the destruction of nephrons, leading to decreased glomerular filtration rate (GFR) and accumulation of metabolic waste products in the body. As CKD progresses, the kidneys become less able to maintain fluid, electrolyte, and acid-base balance, resulting in complications such as hypertension, anemia, and metabolic acidosis.

Stages of CKD Development

CKD is classified into five stages based on GFR levels, ranging from mild damage in early stages to complete kidney failure in advanced stages. The concept map highlights these stages, helping clinicians determine appropriate interventions and monitoring strategies at each phase of disease progression.

Risk Factors Associated with CKD

Non-Modifiable Risk Factors

Certain risk factors for chronic kidney disease cannot be changed, such as age, genetic predisposition, and family history of kidney disease. These elements are crucial in identifying patients who may be at higher risk and warrant closer monitoring.

Modifiable Risk Factors

Lifestyle-related and medical risk factors play a significant role in CKD development. These include hypertension, diabetes mellitus, obesity, and smoking. Addressing modifiable risk factors through lifestyle changes and medical management can slow disease progression and improve patient outcomes.

- Diabetes mellitus
- Hypertension
- Obesity
- Smoking and substance abuse
- Chronic infections

Clinical Manifestations and Progression

Common Symptoms of CKD

Patients with chronic kidney disease may present with a variety of symptoms, often subtle in the early stages. As disease advances, manifestations become more pronounced due to declining renal function and accumulation of toxins. Recognizing these symptoms early is critical for timely intervention.

- Fatigue and weakness
- Edema (swelling)
- Loss of appetite
- Nausea and vomiting
- Decreased urine output
- Shortness of breath
- Muscle cramps

Progression to End-Stage Renal Disease

Without appropriate management, CKD can progress to end-stage renal disease (ESRD), necessitating dialysis or kidney transplantation. The concept map visually connects how uncontrolled risk factors and inadequate treatment contribute to this progression, emphasizing the importance of early detection and intervention.

Diagnostic Criteria and Investigations

Essential Diagnostic Tools

Accurate diagnosis of chronic kidney disease relies on a combination of clinical evaluation and laboratory investigations. The concept map highlights the diagnostic criteria, including reduced GFR, persistent proteinuria, and imaging studies to assess kidney structure and function.

- Serum creatinine and GFR estimation
- Urinalysis for proteinuria and hematuria
- Blood urea nitrogen (BUN) levels
- Renal ultrasound and imaging
- Electrolyte and acid-base assessment

Staging and Monitoring

Regular monitoring of disease progression is vital for tailoring treatment and preventing complications. The concept map includes staging protocols based on GFR and albuminuria, guiding clinicians in assessing disease severity and planning care.

Treatment Strategies for Chronic Kidney Disease

Medical Management

Treatment of chronic kidney disease focuses on slowing disease progression, managing symptoms, and preventing complications. Medical management includes controlling blood pressure, optimizing blood glucose in diabetic patients, and correcting electrolyte imbalances.

Lifestyle Modifications

Lifestyle changes are integral to CKD management. Recommendations include dietary modifications, increased physical activity, smoking cessation, and weight management. These interventions are mapped out in the concept map, showcasing their role in improving patient outcomes.

- Low-sodium and low-protein diet
- Fluid restriction (when indicated)
- Medication adherence
- Management of comorbid conditions

Renal Replacement Therapy

In advanced stages, renal replacement therapy such as dialysis or kidney transplantation becomes necessary. The concept map includes indications and types of renal replacement therapies, providing a clear overview for clinicians and students.

Patient Education and Self-Management

Empowering Patients

Patient education is a cornerstone of effective CKD management. The concept map emphasizes teaching patients about disease progression, medication adherence, dietary recommendations, and self-monitoring of symptoms. Empowered patients are more likely to engage in self-care and follow prescribed treatment plans, reducing the risk of complications.

Self-Management Strategies

Patients should be instructed on monitoring blood pressure, managing medications, recognizing warning signs of complications, and attending regular follow-ups. The concept map outlines these strategies, supporting patients in taking an active role in their health.

- Monitoring fluid intake and output
- Understanding medication side effects
- Reporting new or worsening symptoms
- Maintaining regular healthcare appointments

Benefits of Using a CKD Concept Map

Utilizing a chronic kidney disease concept map offers numerous benefits for both healthcare professionals and patients. By visually organizing complex information, concept maps improve retention, facilitate clinical reasoning, and support collaborative care. They serve as valuable tools for patient education, medical training, and interdisciplinary communication, ultimately contributing to better CKD management and patient outcomes.

- Enhances understanding of CKD complexity
- Supports clinical decision-making
- Facilitates patient education
- Streamlines interdisciplinary communication
- Improves disease management and monitoring

Trending Questions and Answers about Chronic Kidney Disease Concept Map

Q: What is a chronic kidney disease concept map?

A: A chronic kidney disease concept map is a visual tool that organizes and links the core aspects of CKD, such as risk factors, symptoms, progression, diagnostics, and management strategies, to enhance understanding and clinical decision-making.

Q: How does a concept map help in managing chronic kidney disease?

A: A concept map helps by visually displaying the relationships between CKD components, allowing healthcare providers to identify connections, prioritize interventions, and improve patient education and outcomes.

Q: What are the key elements included in a CKD concept map?

A: Key elements include etiology, risk factors, pathophysiology, clinical manifestations, diagnostic criteria, treatment approaches, complications, and patient education.

Q: Why is patient education important in CKD concept mapping?

A: Patient education is important because it empowers individuals to understand their condition, adhere to treatment plans, recognize symptoms, and actively participate in self-management, reducing the risk of complications.

Q: What are the most common risk factors for developing chronic kidney disease?

A: The most common risk factors include diabetes mellitus, hypertension, obesity, family history, advanced age, and chronic infections.

Q: How is chronic kidney disease diagnosed?

A: CKD is diagnosed through clinical evaluation and laboratory tests such as serum creatinine, estimated GFR, urinalysis, and imaging studies to assess

kidney function and structure.

Q: What treatment options are available for chronic kidney disease?

A: Treatment options include medical management (blood pressure and glucose control), lifestyle modifications (diet, exercise, smoking cessation), and renal replacement therapies (dialysis, transplantation) in advanced stages.

Q: How does CKD progress to end-stage renal disease?

A: CKD progresses to end-stage renal disease when there is a continuous decline in kidney function, often due to uncontrolled risk factors or inadequate treatment, ultimately necessitating dialysis or transplantation.

Q: What are the benefits of using a CKD concept map in healthcare?

A: Benefits include improved understanding of disease complexity, enhanced clinical reasoning, better patient education, streamlined communication among healthcare teams, and optimized CKD management.

Q: Can concept maps be used for patient education in CKD?

A: Yes, concept maps are effective tools for patient education, helping individuals visualize how lifestyle choices, symptoms, and treatments are interconnected, thereby supporting better self-management and adherence.

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Chronic Kidney Disease Concept Map: A

Comprehensive Guide

Chronic kidney disease (CKD) is a complex condition affecting millions worldwide. Understanding its intricacies can be daunting, even for healthcare professionals. This comprehensive guide provides a detailed chronic kidney disease concept map, breaking down the disease's key aspects into a digestible format. We'll explore risk factors, stages, complications, diagnosis, and management, equipping you with a clearer understanding of this significant health challenge. This post will serve as your ultimate resource, offering a visual representation of CKD's interconnected elements, perfect for students, healthcare providers, and anyone seeking to learn more about this prevalent disease.

What is a Chronic Kidney Disease Concept Map?

A chronic kidney disease concept map is a visual tool that illustrates the relationships between different elements of CKD. It's more than just a list; it's a dynamic representation connecting causes, symptoms, stages, complications, and treatment options. Think of it as a mind map specifically designed to unravel the complexity of CKD, making it easier to grasp the big picture. This organized approach aids comprehension and retention, particularly beneficial for learning and teaching purposes.

Understanding the Stages of Chronic Kidney Disease

Chronic kidney disease progresses gradually through five stages, each defined by the glomerular filtration rate (GFR), a measure of kidney function. A concept map would visually represent this progression, highlighting the changes in GFR and associated symptoms at each stage.

Stage 1 (Kidney Damage with Normal or High GFR): Minimal kidney damage, often asymptomatic. The concept map would link this stage to potential underlying causes like diabetes or hypertension.

Stage 2 (Mild Kidney Damage with Mildly Decreased GFR): Some kidney damage is present, with a slightly reduced GFR. The map would show a connection to potential early symptoms such as fatigue.

Stage 3 (Moderate Kidney Damage with Moderately Decreased GFR): Noticeable kidney damage, with a more significant decrease in GFR. The map connects this stage to increased symptoms like swelling and high blood pressure.

Stage 4 (Severe Kidney Damage with Severely Decreased GFR): Significant kidney damage, with severely reduced GFR. The concept map would illustrate a connection to more pronounced symptoms and the potential need for dialysis.

Stage 5 (Kidney Failure): End-stage renal disease (ESRD), requiring dialysis or kidney transplantation. The concept map highlights the dependence on renal replacement therapy at this critical stage.

Risk Factors and Complications: A Visual Interconnection

A comprehensive chronic kidney disease concept map would clearly illustrate the interconnectedness of risk factors and potential complications. Risk factors like diabetes, hypertension, autoimmune diseases, and family history would be connected to the development of CKD. Furthermore, the map would demonstrate how CKD can lead to various complications, including:

Cardiovascular Disease: The strong link between CKD and cardiovascular problems would be visually emphasized, showing how CKD increases the risk of heart attacks, strokes, and heart failure.

Anemia: The map would clearly show how CKD impairs erythropoietin production, leading to anemia.

Bone Disease: The connection between CKD and bone disorders (renal osteodystrophy) would be visually highlighted.

Electrolyte Imbalances: The map would illustrate how CKD affects the regulation of electrolytes like potassium and sodium.

Urinary Tract Infections: The increased susceptibility to UTIs in individuals with CKD would be represented.

Diagnosis and Management: A Holistic Approach

The concept map should also include the diagnostic methods used to identify CKD, such as blood tests (GFR, creatinine), urine tests, and imaging studies. Furthermore, it would visually represent the management strategies, including lifestyle modifications (diet, exercise), medication (to control blood pressure, blood sugar, and other complications), dialysis, and kidney transplantation.

Visualizing Treatment Options

A key element of the concept map would be a visual representation of dialysis techniques (hemodialysis, peritoneal dialysis) and kidney transplantation, showcasing the benefits and drawbacks of each. This visual comparison aids in understanding treatment choices and their associated implications.

Constructing Your Own Chronic Kidney Disease Concept Map

While this post provides a textual overview, creating your own visual chronic kidney disease concept map is highly beneficial. You can utilize mind-mapping software or even draw one by hand. Start with the central concept - "Chronic Kidney Disease" - and branch out to include the various aspects we've discussed: stages, risk factors, complications, diagnosis, and management. Using different colors and symbols can further enhance the visual appeal and improve understanding.

Conclusion

Understanding Chronic Kidney Disease requires grasping its interconnectedness. A chronic kidney disease concept map offers a powerful visual tool to achieve this. By visualizing the relationships between risk factors, stages, complications, diagnosis, and management, you can gain a comprehensive and lasting understanding of this significant health challenge. Remember, early detection and appropriate management are key to slowing the progression of CKD and improving patient outcomes.

FAQs

1. What is the best software for creating a concept map? Several options exist, including MindManager, XMind, FreeMind, and even simple drawing tools like PowerPoint or Google Drawings. The best choice depends on your personal preferences and technical skills.
2. Can I use a concept map for patient education? Absolutely! A simplified concept map can be a very effective tool for explaining CKD to patients and their families, promoting better understanding and adherence to treatment plans.
3. Are there any specific examples of chronic kidney disease concept maps available online? While readily available, pre-made, comprehensive maps are less common. Many resources offer partial maps or information that can be used to build a personal concept map.
4. How often should I review my chronic kidney disease concept map? Regular review, especially after learning new information, strengthens understanding and retention. The frequency depends on your learning style and goals.
5. Can a chronic kidney disease concept map help in research? Yes, it can be used as a tool to organize research findings, identify gaps in knowledge, and illustrate the complex relationships within CKD research.

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transplantation, HIV-associated renal disease, and infection and renal disease, alongside entirely new sections on genetic topics and clinical and physiological aspects of fluid/electrolyte and tubular disorders. The emphasis throughout is on marrying advances in scientific research with clinical management. Richly illustrated throughout in full colour, this is a truly modern and attractive edition which reinforces the Oxford Textbook of Clinical Nephrology's position as an indispensable reference work of consistent quality and reliability. Enriched and refined by careful revision, this new edition continues the tradition of excellence. This print edition of The Oxford Textbook of Clinical Nephrology comes with a year's access to the online version on Oxford Medicine Online. By activating your unique access code, you can read and annotate the full text online, follow links from the references to primary research materials, and view, enlarge and download all the figures and tables. Oxford Medicine Online is mobile optimized for access when and where you need it.

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unmet health needs in many countries. To provide healthcare access with the desirable equity worldwide, the nephrology community needs to discuss this public health issue and take part in decisions for elaboration of public health policies with more justice and equity. This book brings together key current public health problems that affect kidney function and illuminates them in contributions by an international group of nephrologists and general practitioners. The chapters review current knowledge and provide guidelines to manage these conditions and decrease the disease burden. At the end, developments in the digital era and their application to kidney disease treatment are synthesized, and a broader outlook on the future of nephrology is given. Ultimately, the publication aims to gather nephrology and public health expertise from researchers from all over the world, providing a broad vision of issues that must be discussed and overcome to guarantee a better treatment for patients with kidney diseases in the world today.

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chronic kidney disease concept map: Medical-Surgical Nursing - E-Book Donna D. Ignatavicius, M. Linda Workman, 2013-12-27 Using a uniquely collaborative and reader-friendly approach, expert authors Donna D. Ignatavicius and M. Linda Workman cover all the latest trends, evidence-based treatment guidelines, and additional updated information needed for safe clinical practice in medical-surgical nursing. This seventh edition features an expanded emphasis on patient safety and NCLEX® Examination preparation, new ties to the QSEN priorities for patient safety, and a greater alignment with the language and focus of clinical practice. A new chapter on evidence-based practice and a wealth of effective online learning tools help solidify your mastery of medical-surgical nursing. UNIQUE! Collaborative approach presents all medical, surgical, nursing, and other interventions through the lens of the nursing process. Reader-friendly, direct writing style makes this one of the most readable medical-surgical nursing textbooks available. UNIQUE! Cutting-edge focus on the latest trends in nursing practice and nursing education prepares you for both today and tomorrow's nursing practice. UNIQUE! Integrated tools for NCLEX preparation get you ready for your licensure examination. Chapter-opening Learning Outcomes are linked to Self-Assessment Questions for the NCLEX Examination on the Evolve website. Unique chapter-ending Get Ready for the NCLEX Examination! sections include Key Points organized by NCLEX Client Needs Categories. UNIQUE! Focus on nursing concepts helps bridge the gap between the concepts learned in Nursing Fundamentals, and disorders content learned in the medical-surgical nursing course. UNIQUE! Emphasis on clinical decision-making teaches you to apply concepts to true-to-life clinical situations. UNIQUE! Concentration on the core body of

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chronic kidney disease concept map: *Personalized Nutrition in Chronic Kidney Disease, 2nd edition* Lara Caldiroli, Alice Sabatino , Andreana De Mauri, 2024-11-08 Nutritional status is a crucial prognostic factor in chronic kidney disease (CKD) patients. The nutritional approach depends on the stage of renal disease, patients' comorbidities, proteins catabolism, and the presence of malnutrition. The gradual and progressive worsening of kidney function, characterized by a reduced glomerular filtration rate, carries many challenges for both young and elderly patients. Dietetic-Nutritional therapy (DTN) has an important role in the prevention and in the progression of Chronic Kidney Disease. An appropriate nutritional approach contributes to the prevention and control of signs, symptoms, and metabolic complications of CKD such as hyperkalemia, hyperphosphatemia, and metabolic acidosis. It also helps avoid and malnutrition and protein energy wasting (PEW). Several dietary approaches have been proposed but the most successful nutritional regimen is the one tailored on patients' needs. This Research Topic is open for original articles, narrative review, systematic review, and meta-analysis focusing on personalized nutrition in patients with CKD on both conservative and replacement treatments. Suggested topics relating to renal nutrition and chronic kidney disease may include, but are not limited to: • Use of amino acids or keto-analogues supplementation in CKD patients in conservative therapy or in dialysis; • Strategies to improve dietary adherence; • Psychological aspects of nutritional adherence; • Nutritional indications in inflamed CKD patients; • Interaction between diet, microbiota, and comorbidities; • Personalized nutritional counseling; • Strategies to avoid malnutrition and PEW.

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diagnose AKI? How can I protect the kidney in clinical practice? How do I manage patients with AKI? When should I initiate and how do I perform renal replacement therapy (RTT)? Which type of RTT is most appropriate for my patient? Should I give specific nutrients? In addition to providing practical guidelines and treatment algorithms, the book includes calculators for continuous RRT and anticoagulant dosing. The authors are internationally renowned experts in the fields of Intensive Care Medicine and Nephrology and all contributions are written in a clear and concise style and have been peer reviewed. *Acute Nephrology for the Critical Care Physician* will serve as a very useful source for intensivist internists, anesthesiologists and nephrologists involved in the management and treatment of critically ill patients at risk of or affected by AKI.

chronic kidney disease concept map: deWit's Medical-Surgical Nursing E-Book Holly K. Stromberg, 2020-01-09 Get the solid foundation you need to pass the NCLEX-PN® exam and succeed in practice! deWit's Medical-Surgical Nursing: Concepts and Practice, 4th Edition builds on the fundamentals of nursing with complete coverage of adult medical-surgical conditions, including roles, settings, health care trends, and all body systems and their disorders. It provides special attention to care of older adults, those with chronic illnesses, and residents in long-term care settings. Written by nursing educator Holly Stromberg, deWit's Medical-Surgical Nursing makes exam prep easier with NCLEX-PN® review questions, and reflects national LPN/LVN standards with an emphasis on evidence-based practice and patient safety. - Safety alerts emphasize safety precautions to protect patients, family, health care providers, and the public from accidents, spread of disease, and medication-related accidents. - Older Adult Care Points address the unique care issues of gerontologic nursing, and describe assessment and interventions for long-term care patients. - Nursing care plans show plans of care based on patient history, including patient goals and outcomes, with critical thinking questions allowing you to assess your understanding of nursing care concepts. - Assignment Considerations cover task delegation from the RN to the LPN/LVN and from the LPN/LVN to unlicensed assistive personnel, as allowed by each state's nurse practice act. - Get Ready for the NCLEX® Examination! section at the end of each chapter covers key points and includes review questions to help you prepare for class tests and the NCLEX-PN examination. - Focused Assessment boxes show how to collect patient data, including history, physical, and psychosocial assessment. - Home Care Considerations focus on adapting medical-surgical nursing care to the home environment after discharge. - Cultural Considerations promote understanding of various ethnic groups and sensitivity to differing beliefs and practices. - Communication boxes help in developing therapeutic communication skills in realistic patient care situations. - Patient Teaching boxes provide instructions and guidelines for educating patients on post-hospital care. - Legal and Ethical Considerations describe legal issues and ethical dilemmas that may face the practicing nurse. - Think Critically encourages you to synthesize information and apply concepts to practice. - Nutrition Considerations emphasize the role nutrition plays in disease and nursing care. - Medication tables provide quick access to dosages and side effects of commonly used medications. - Key terms include phonetic pronunciations and text page references, making learning easier with terms listed at the beginning of each chapter, appearing in blue at first mention or where defined in the text, and defined in the glossary.

chronic kidney disease concept map: Lewis's Medical-Surgical Nursing E-Book Mariann M. Harding, Jeffrey Kwong, Debra Hagler, Courtney Reinisch, 2022-07-02 **American Journal of Nursing (AJN) Book of the Year Awards, 1st Place in Medical-Surgical Nursing, 2023** **Selected for Doody's Core Titles® 2024 with Essential Purchase designation in Medical/Surgical** Gain the knowledge and skills you need to succeed in medical-surgical nursing with this leading textbook! Lewis's Medical-Surgical Nursing, 12th Edition uses a conversational writing style, a focus on nursing concepts and clinical trends, evidence-based content, and basic pathophysiology review to provide the solid foundation needed in a rapidly changing healthcare environment. Comprehensive chapters cover topics including nursing management and collaboration, health promotion, acute interventions, and ambulatory care. Summary tables and boxes make it easy to find essential information, and a building-block approach makes even the most complex concepts simple to grasp.

In addition to three new chapters, this edition includes a stronger focus on the nursing process, clinical judgment, and preparation for the Next-Generation NCLEX® Examination.

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for tests, exams, and clinical placements with Elsevier's Comprehensive Review for the Canadian PN Examination, 2nd Edition. This is the only CPNRE® and REx-PN® text with accompanying online practice material to provide an exhaustive content review and a wealth of practice questions to help you prepare for PN licensure anywhere in Canada! Thoroughly updated, this edition reflects all current Canadian Council for Practical Nurse Regulators National PN competencies, including those specifically for Ontario and British Columbia. It's a great way to test yourself on all exam competencies, along with your understanding, application, and critical thinking abilities. - Strategic overview of the REx-PN® and CPNRE® exams helps you prepare effectively for your specific Practical Nurse licensure examination. - Client Needs categories are provided in the answers and rationales for all end-of-chapter practice questions and for the REx-PN® practice exams. - Testing of all relevant cognitive levels helps ensure you can understand, apply, and think critically about all the information covered on the REx-PN® and CPNRE® and in clinical practice. - Comprehensive content review covers all the core topic areas tested on the REx-PN® and CPNRE® - Wide variety of practice questions helps you easily assess your own understanding. - The only CPNRE® and REx-PN® review and practice resource which will help you prepare for PN licensure anywhere in Canada! - Thoroughly updated content reflects and tests all current Canadian Council for Practical Nurse Regulators (CCPNR) National PN competencies, including those specifically for Ontario and British Columbia. - NEW! 500+ additional questions in the text and online to help you prepare for PN licensure in any Canadian province or territory! - NEW! More than 1,000 online practice questions, including four full online practice exams (two CPNRE® and two REx-PN®), on the companion Evolve website give you instant performance feedback.

chronic kidney disease concept map: Medical-Surgical Nursing - E-Book Susan C. deWit, Holly K. Stromberg, Carol Dallred, 2016-02-26 Providing a solid foundation in medical-surgical nursing, Susan deWit's Medical-Surgical Nursing: Concepts and Practice, 3rd Edition ensures you have the information you need to pass the NCLEX-PN® Examination and succeed in practice. Part of the popular LPN/LVN Threads series, this uniquely understandable, concise text builds on the fundamentals of nursing, covering roles, settings, and health care trends; all body systems and their disorders; emergency and disaster management; and mental health nursing. With updated content, chapter objectives, and review questions, this new edition relates national LPN/LVN standards to practice with its integration of QSEN competencies, hypertension, diabetes, and hypoglycemia. Concept Maps in the disorders chapters help you visualize difficult material, and illustrate how a disorder's multiple symptoms, treatments, and side effects relate to each other. Get Ready for the NCLEX® Examination! section includes Key Points that summarize chapter objectives, additional resources for further study, review questions for the NCLEX® Examination, and critical thinking questions. Nursing Care Plans with critical thinking questions provide a clinical scenario and demonstrate application of the nursing process with updated NANDA-I nursing diagnoses to individual patient problems. Anatomy and physiology content in each body system overview chapter provides basic information for understanding the body system and its disorders, and appears along with Focused Assessment boxes highlighting the key tasks of data collection for each body system. Assignment Considerations, discussed in Chapter 1 and highlighted in feature boxes, address situations in which the RN delegates tasks to the LPN/LVN, or the LPN/LVN assigns tasks to nurse assistants, per the individual state nurse practice act. Gerontologic nursing presented throughout in the context of specific disorders with Elder Care Points boxes that address the unique medical-surgical care issues that affect older adults. Safety Alert boxes call out specific dangers to patients and teach you to identify and implement safe clinical care. Evidence-based Practice icons highlight current references to research in nursing and medical practice. Patient Teaching boxes provide step-by-step instructions and guidelines for post-hospital care — and prepare you to educate patients on their health condition and recovery. Health Promotion boxes address wellness and disease prevention strategies that you can provide in patient teaching.

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that require specialized knowledge and expertise from both the nephrologist and the oncologist. Written by three pioneers in this growing subspecialty, Onco-Nephrology provides authoritative, definitive coverage of the mechanism and management of these two life-threatening diseases. This unique, single-volume resource covers current protocols and recommends management therapies to arrest kidney failure and allow oncologic treatments to continue and succeed. - Addresses acute and chronic kidney diseases that develop from a variety of cancers. This includes direct kidney injury from the malignancy, paraneoplastic effects of the cancer, and various cancer agents used to treat the malignancy. - Discusses key issues regarding kidney disease in patients with cancer, including conventional chemotherapeutic regimens and new novel therapies (targeted agents and immunotherapies) or the malignancies themselves that may promote kidney injury; patients with chronic kidney disease who acquire cancer unrelated to renal failure; and kidney transplantation, which has been shown to carry an increased risk of cancer. - Contains dedicated chapters for each class of the conventional chemotherapeutic agents, targeted cancer agents, and cancer immunotherapies including the basic science, pathogenic mechanisms of injury, clinical manifestations, and treatment. - Includes special chapters devoted to the individual classes of chemotherapies that relate to kidney disease for quick reference. Discusses increasingly complex problems due to more numerous and specialized anti-cancer drugs, as well as increased survival rates for both cancer and renal failure requiring long-term patient care. - Covers anti-VEGF (antivascular endothelial growth factor) agents and cancer immunotherapies – treatments that are being recognized for adverse kidney effects. - Utilizes a clear, logical format based on the ASN Core Curriculum for Onco-Nephrology, making this reference an excellent tool for board review, as well as a practical resource in daily practice. - Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

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critical care nursing topics. Using the latest, most authoritative research, this evidence-based resource helps you identify priorities to accurately and effectively manage patient care. Updated content spans the areas of medication, patient safety, patient education, nursing diagnosis, and collaborative management to fully prepare you for success in all aspects of critical care nursing. Evidence-based approach offers the most accurate and timely patient care recommendations based on the latest and most authoritative research, meta-analyses, and systematic reviews available. Patient Safety Priorities boxes in each therapeutic management chapter highlight important patient safety considerations. UNIQUE! Nursing Diagnosis Priorities boxes list the most urgent potential nursing diagnoses, with a page reference to the corresponding Nursing Management Plan. Nursing Management Plans provide you with a complete care plan for every Priority Diagnosis that includes the diagnosis, definition, defining characteristics, outcome criteria, nursing interventions, and rationales. Evidence-Based Collaborative Practice boxes summarize evidence-based recommendations for a variety of therapies. Collaborative Management boxes guide you through the management of a wide variety of disorders. Patient Education boxes list the concepts that must be taught to the patient and the family before discharge from the ICU. Concept maps help you understand common critical health conditions, including acute coronary syndrome, acute renal failure, ischemic stroke, and shock. NEW! Case studies with critical thinking questions test your understanding of key concepts and their practical applications. NEW! Priority Medication boxes give you a foundation in the pharmacology used most in critical care. UPDATED! New information on the management of the alcoholic patient and disorders resulting from alcoholism is added to chapter nine.

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