

# Acute Renal Failure

Dr R Vlaho (March 2018)

= Abrupt deterioration in renal parenchymal function occurring over hours or days, and often associated with oliguria

**Investigations:** Urine, blood, electrolytes, U&Es, creatinine, blood gases, urea, ALT, AST, GGT, ALP, bilirubin

-Fraction excretion of Na <1%  
-urine osmolality > 500mOsm/L  
-urine Na+ < 20 mmol/L  
-urine SG+ 1.020  
-urinary casts

-Fraction excretion of Na+ 1%  
-urine osmolality < 300  
-urine Na+ > 40  
-urine SG: 1.000-1.020  
-tubular/ granular casts

-Anuria  
-Hyponatraemia  
-elevated post-residual volume

**FeNa+ (urine Na/plasma Na)(UoV/PoV) = 100**

## PRE-RENAL

### Oligomeric

CAUSES

NGUs

### Vascular

Clinical features

\* Hypertension  
\* haemolytic anaemia  
\* haemoglobinuria

macrovascular causes

-Renal artery occlusion  
-AAA

Management

Consider surgery

### Interstitial nephritis

Clinical features

\* Rash  
\* Fever  
\* eosinophilia  
\* eosinophiluria (& urine)

Causes

\* Often drug hypersensitivity reactions  
-Sulphonamides  
-Tumour lysis syndrome (acute hyperuricaemic nephropathy)  
-Penicillins  
-NSAIDs  
-Allopurinol  
-Cephalosporins  
-Ibuprofen

Management

1) Eliminate toxin  
2) Consider steroids: 60mg/day  
3) Biopsy

### Acute tubular necrosis

Clinical features

\* Ischaemia  
\* Nephrotoxicity  
\* granular casts

Causes

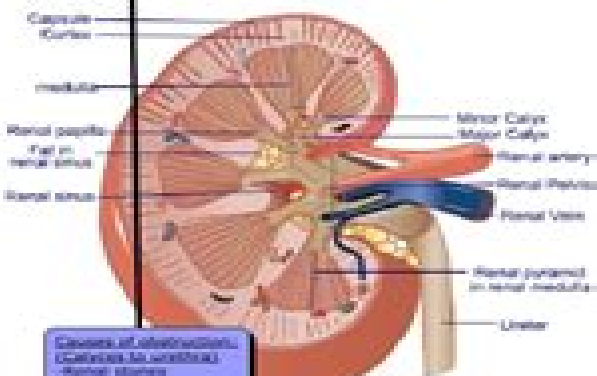
- Ischaemia: shock, burns, MI etc  
- Nephrotoxicity:  
aminoglycosides  
tetracyclines  
Amphotericin B  
NSAIDs  
ACE-I  
Lithium  
-Rhabdomyolysis  
-Hemolytic uraemic syndrome

Management

1) Reverse ischaemia  
2) Supportive care  
3) Stop nephrotoxic  
4) Maintain euvoolemia

## POST-RENAL OBSTRUCTION

### Cut Section of Kidney



**Causes of obstruction:**  
Calculus (in ureter)  
-Renal stones  
-ben  
-Pelvic masses

Management

1) Insert urinary catheter  
2) Examine bladder, masses, prostate  
3) Renal ultra- sound (tract dilatation)  
4) Adjusted CT (uncontrast)  
5) Remove obstruction  
6) Urology consult

= Renal hypoperfusion due to Pre-renal/renal/ post-renal/ vascular/ N/G history & exam

CAUSES

Management

1) IV fluids-monitor CVP, JVP, BP, urinary input/output  
2) daily fluid balance  
3) Blood cultures & treat sepsis  
4) Treat cause

### ALWAYS INSERT COMPLICATIONS & THE PRECIPITATING CAUSE

1) Electrolytes Na, K, Ca, Mg, phosphate & cardiac arrest. AB ECG (Rx: Insulin, glucose & Calcium Gluconate)  
2) Pulmonary oedema, PHOG/CPAP, morphine, Furosemide, O2, nitrate  
3) Bleeding: TransFusion  
4) Toxic levels: Avoid nephrotoxic drugs!  
5) Indications for dialysis: persistent hyperkalaemia, severe metabolic acidosis, refractory pulmonary oedema, uraemic pericarditis/ encephalopathy  
6) Adjust dose of renally excreted drugs

# Acute Renal Failure Concept Map

**Linda D. Urden, Kathleen M.  
Stacy, Mary E. Lough**



## **Acute Renal Failure Concept Map:**

Introduction to Concept Mapping in Nursing Patricia Schmehl, 2014 Introduction To Concept Mapping In Nursing Provides The Foundation For What A Concept Map Is And How To Create A Map That Applies Theory To Practice This Excellent Resource Addresses How Students Will Think About Applying Nursing Theory As It Relates To Concept Mapping This Book Is Unique Because It Focuses On A Broad Application Of Concept Mapping And Ties Concept Mapping Closely To Critical Thinking Skills Furthermore This Book Will Prepare Nursing Students To Learn How To Map Out Care Plans For Patients As They Talk With Patients Key Features Benefits Demonstrates How Students Can Think Through Every Aspect Of Care By Using Compare And Contrast Tactics Critical Thinking Skills And Experiences A Nursing Student May Encounter Includes Thought Provoking Questions To Guide The Reader Through The Text Provides A Section On Nursing Theory Complete With Exercises And Rationales That Include Concept Maps So That Students Can Understand How Theory Is Applied To Practice Written For Students With Various Learning Styles So A Broad Range Of Learning Activities Are Included To Help Readers Understand The Material

**Medical-Surgical Nursing - E-Book** Susan C. deWit, Candice K. Kumagai, 2012-02-24 UNIQUE Best Practices are highlighted to show the latest evidence based research related to interventions Online resources listed at the end of each chapter promote comprehensive patient care based on current national standards and evidence based practices UNIQUE Icons in page margins point to related animations video clips additional content and related resources on the Evolve site

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LPN LVN assigns tasks to unlicensed assistive personnel Focused Assessment boxes include information on history taking and psychosocial assessment physical assessment and guidance on how to collect data information for specific disorders Elder Care Points boxes address the unique medical surgical care issues that affect older adults Legal and Ethical Considerations boxes focus on specific disorder related issues Safety Alert boxes highlight specific dangers to patients related to medications and clinical care Clinical Cues provide guidance and advice related to the application of nursing care Think Critically About boxes encourage you to synthesize information and apply concepts beyond the scope of the chapter 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 Health Promotion boxes address wellness and disease prevention including diet infection control and more Complementary and Alternative Therapies boxes offer information on how nontraditional treatments for medical surgical conditions may be used to complement traditional treatment Cultural Considerations promote understanding and sensitivity to various ethnic groups Nutrition Considerations address the need for holistic care and reflect the increased focus on nutrition in the NCLEX Examination Patient Teaching boxes provide step by step instructions and guidelines for post hospital care Home Care Considerations boxes focus on post discharge adaptations of medical surgical nursing care to the home environment Mental Health Nursing unit includes information on disorders of anxiety and mood eating disorders cognitive disorders thought and personality disorders and substance abuse Disaster Management content includes material focusing on preparation and mitigation to avoid losses and reduce the risk of injury associated with both natural and bioterrorist disasters Nursing Care Plans with Critical Thinking Questions show how a care plan is developed and how to evaluate care of a patient Review questions for the NCLEX PN Examination at the end of each chapter include alternate item format questions and help prepare you for class tests and the NCLEX exam Critical Thinking Activities at the end of chapters include clinical situations and relevant questions allowing you to hone your critical thinking skills UNIQUE Best Practices are highlighted to show the latest evidence based research related to interventions Online resources listed at the end of each chapter promote comprehensive patient care based on current national standards and evidence based practices UNIQUE Icons in page margins point to related animations video clips additional content and related resources on the Evolve site

*Medical-Surgical Nursing E-Book* Holly K. Stromberg, 2021-12-13 Build skills in clinical judgment and prepare for the Next Generation NCLEX PN examination Medical Surgical Nursing Concepts and Practice 5th Edition provides a solid foundation in nursing concepts and skills essential to the LPN LVN role Complete coverage of common adult medical surgical conditions includes all body systems and their disorders addressing patient care in a variety of settings Special attention is given to care of older adults those with chronic illnesses and residents in long term care settings Written by nursing educator Holly Stromberg this text emphasizes evidence based practice and reflects the expanding scope of practice for LPN LVNs What's more it makes exam prep easier with new Next Generation NCLEX

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Safe Patient Care presents 200 sample care maps covering the diseases and disorders you ll encounter most often in clinical practice They ll also help you develop the critical thinking skills you need to plan safe and effective nursing care

*Understanding Pathophysiology - ANZ adaptation* Judy Craft,Christopher Gordon,Sue E. Huether,Kathryn L. McCance,Valentina L. Brashers,2018-09-19 NEW chapter on diabetes to highlight the prevalence of the disease in Australia and New Zealand Expanded obesity chapter to reflect the chronic health complications and comorbidities New concept maps designed to stand out and pull together key chapter concepts and processes Updated Focus on Learning Case Studies and Chapter Review Questions Now includes an eBook with all print purchases *Critical Care Nursing - E-Book* Linda D. Urden,Kathleen M. Stacy,Mary E. Lough,2013-04-26 Praised for its comprehensive coverage and clear organization Critical Care Nursing Diagnosis and Management 7th Edition is the go to critical care nursing text for both practicing nurses and nursing students preparing for clinicals Nine sections highlight the alterations seen in critical care and make it easy to understand the unique challenges of critical care nursing An abundance of learning tools such as Patient Safety Alerts Evidence Based Practice boxes NIC interventions case studies Pharmacologic Management boxes and more give you a better understanding of clinical practice and help you reference vital information quickly and easily Consistent organization within each body system unit allows you to use this book as a one stop resource for your critical care nursing education as well as a reference for the relevant assessment techniques lab values and patient management principles needed by practicing nurses Evidence Based Practice boxes reinforce practice guidelines for both collaborative and nursing care Case studies in each chapter help you internalize and apply chapter content to clinical situations Pharmacologic Management tables offer quick summaries of the drugs most often used in critical care Patient Safety Alerts provide key information for special safety issues to keep safety in the forefront of your mind Nursing Management Plans of Care appendix provides detailed clinically relevant care plans tied to 35 different NANDA nursing diagnoses Highlighted QSEN content makes it easy to identify QSEN competencies as they relate to critical care nursing Internet Resources box provides a list of key websites from leading organizations in critical care Combined chapter on shock sepsis and multiple organ dysfunction syndrome makes understanding similar physiologic processes easier Chapter summaries provide quick study guides by organizing key information in the chapter New 6 second standard ECG strips help you learn to identify wave forms and accurately reflect what you ll use in practice New equipment information and photos accurately depicts what you ll encounter in a modern critical care unit *Priorities in Critical Care Nursing - E-Book* Linda D. Urden,Kathleen M. Stacy,Mary E. Lough,2022-10-27 American Journal of Nursing AJN Book of the Year Awards 2nd Place in Critical Care Emergency Nursing 2023 Selected for Doody s Core Titles 2024 in Critical Care Focus on the most important concepts in progressive and critical care nursing with Priorities in Critical Care Nursing 9th Edition Ideal for students practicing nurses undergoing in service training for progressive and critical care and progressive or critical care nurses reviewing for PCCN or CCRN certification

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Experimental IR Meets Multilinguality, Multimodality, and Interaction Josanne Mothe,Jacques Savoy,Jaap Kamps,Karen Pinel-Sauvagnat,Gareth Jones,Eric San Juan,Linda Capellato,Nicola Ferro,2015-08-31 This book constitutes the refereed proceedings of the 6th International Conference of the CLEF Initiative CLEF 2015 held in Toulouse France in September 2015 The 31 full papers and 20 short papers presented were carefully reviewed and selected from 68 submissions They cover a broad range of issues in the fields of multilingual and multimodal information access evaluation also included are a set of labs and workshops designed to test different aspects of mono and cross language information retrieval systems **The**

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[Nursing Diagnosis Manual](#) Marilynn E Doenges,Mary Frances Moorhouse,Alice C Murr,2016-01-14 Here s the 5th Edition of the resource you ll turn to again and again to select the appropriate diagnosis and to plan individualize and document care for more than 850 diseases and disorders A new streamlined design makes reference easier than ever Only in the Nursing Diagnosis Manual will you find for each diagnosis defining characteristics presented subjectively and objectively sample clinical applications to ensure you have selected the appropriate diagnoses prioritized action interventions with rationales a documentation section and much more *Lippincott Illustrated Reviews: Biochemistry* Emine E Abali,Susan D Cline,David S Franklin,Susan M Viselli,2021-01-21 Praised by faculty and students for more than two decades Lippincott Illustrated Reviews Biochemistry is the long established go to resource for mastering the essentials of biochemistry This best selling text helps students quickly review assimilate and integrate large amounts of critical and complex information with unparalleled illustrations that bring concepts to life Like other titles in the popular Lippincott Illustrated Review Series this text follows an intuitive outline organization and boasts a wealth of study aids that clarify challenging information and strengthen retention and understanding This updated and revised edition emphasizes clinical application and features new exercises questions and accompanying digital resources to ready students for success on exams and beyond

**Medical-surgical Nursing** Joyce M. Black,Jane Hokanson Hawks,2005 Each edition of Medical Surgical Nursing has not only covered new developments in nursing it has actively anticipated trends and advances The 7th edition keeps readers on the cutting edge with the very latest information on nursing practice It presents more detailed coverage of basic anatomy and physiology pathophysiology medical management and nursing care than any other book available Its focus on clinical outcome management emphasizes patient outcomes and makes the

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