

Exam 2 – Pathophysiology

Module 3 – Disorders of fluids, electrolytes, and acid-base balances

- Fluids and electrolytes are present in body cells in the tissue spaces between the cells
 - Body fluids transfers gases, nutrients and waste to help generate the electrical activity needed to power body functions
- ❖ **Body fluid distribution:** consists of the intracellular and extracellular compartments
 - **Intracellular compartment contains**
 - Inside the cell
 - 2/3 of the body water in healthy adults
 - **Extracellular compartment contains**
 - Outside the cell
 - Interstitial spaces
 - Between the cells
 - Vascular compartment plasma/blood
 - Transcellular compartment
 - Body fluids ex: lymph, synovial, intestinal, CSF, sweat, urine, pleural, peritoneal, pericardial, and intraocular fluids
- ❖ **Diffusion:** movement of volume moving from high concentration to low concentration
 - Osmotic pressure
- ❖ **Osmosis:** movement of water from a lower concentration into a higher concentration
 - Molecules of a solvent tend to pass through a semipermeable membrane from a less concentrated solution into a more concentrated one, thus equalizing the concentrations on each side of the membrane
- ❖ **Water/fluid movement:** aquaporins are proteins embedded in the cell membrane that regulate the flow of water into/out of the cell
 - **Isotonic solutions**
 - Water moves equally between the cells and the cells stay the same
 - **Hypertonic solutions**
 - Water moves out of the cell, which causes the cell to shrivel
 - **Hypotonic solutions**
 - Water moves into cell that then causes the cell to swell and burst
- ❖ **Capillary/interstitial fluid exchange:** pressure in the capillary that pulled/kept fluid in (capillary COP) and pressure pushing fluid out of the tissue (tissue hydrostatic pressure) would result in more fluid in the capillary
 - Hydrostatic pressure can be thought of as “pushing pressure,” and osmotic pressure can be thought of as “pulling” or sucking pressure
- ❖ **Edema:** accumulation of fluid within the interstitial spaces; palpable swelling produced by an increase in interstitial fluid volume
 - **increase in capillary hydrostatic pressure**
 - decrease in plasma oncotic pressure/colloidal osmotic pressure

Essentials Pathophysiology Study Guide

Bruce Wingerd, Patty Bostwick Taylor



Essentials Pathophysiology Study Guide:

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EBOOK: Essentials of Pharmacology for Nurses Paul Barber, Deborah Robertson, 2015-09-16 This ideal starter text for student nurses makes pharmacology less intimidating by focusing on the knowledge needed at pre registration level in order to practice as a newly qualified nurse Noted for its clear layout and jargon free language this updated edition introduces pharmacology in a friendly informative way The book does not assume previous knowledge of pharmacology or a level of confidence with maths and drugs calculations This new edition has been carefully expanded to include a new chapter introducing drug calculations and measurements as well as more detail on drugs used in chronic conditions as well as more on pharmacology for the older patient and for other specific groups such as children pregnant women or those with minor illness More case scenarios have been added to encourage nurses to apply knowledge to a range of different people with a range of needs The book contains 90 calculations and 100 multiple choice questions to help perfect your skills and assess learning Clinical tip boxes linking pharmacology to the role of the nurse 35 patient scenarios across a range of clinical settings References to key clinical tests and the latest NICE guidelines The book emphasises application of pharmacological principles to all areas of practice including drug action interaction and side effects and is useful to all students of pharmacology whether as part of a 3 year course post qualifying course top up course or standalone module This latest edition of a key textbook on pharmacology for nurses has moved forward from previous editions by becoming stronger by the inclusion of a greater scope of material so maintaining its place as an essential pharmacology book for current and forthcoming nursing students in all clinical practice fields to give them a strong evidence base for their studies and clinical

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general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner

Essential Medicines Management for Mental Health Nurses Deborah

Robertson, 2016-08-16 This text is an accessible and clinically practical guide to medicines management in mental health for all student nurses and professionals Making the topic manageable and understandable at undergraduate nurse level it also encourages a growing understanding beyond this in professional practice too A wide range of mental health conditions are covered along with how medication can be used to manage these conditions how the drugs work and how they should be given Exploring the legal aspects and ethical issues around medication management in mental health it also discusses other concepts such as medicines adherence and the therapeutic alliance The book uses straight forward language to help the reader master the key concepts and how to apply them to clinical practice It features Drug calculations and multiple choice questions to help you assess your learning Key learning points to sum up each chapter Patient case studies across a range of mental health disorders References and suggested reading to help take your knowledge and learning further The book places an emphasis on applying underpinning pharmacological principles to clinical practice and is useful to all nurses who work with patients who have a mental health disorder A knowledge and understanding of medicines and medication management is a fundamental aspect of the role of the mental health nurse The author succeeds in her aim of providing of both a basic knowledge of the subject area and an understanding of how the principles of psychopharmacology and medicines management are applied to clinical practice and the role of the nurse The book has an excellent structure each chapter beginning with clear learning objectives and ending with a summary of key learning points multiple choice questions and a case study where relevant The text is written in an accessible style specific chapters for example chapter 5 Anatomy and physiology of the brain having clear diagrams that facilitate the reader's ability to understand both basic physiology and the principles of neurotransmission etc The role of the therapeutic alliance is helpfully acknowledged when promoting adherence and concordance whilst the key medications prescribed for the specified disorders and the associated psychopharmacology are clearly described I would consider the publication as being essential reading for any undergraduate mental health nurse the text also being a valuable learning resource in the development of curriculum content Mark James Senior Lecturer in Community Mental Health Nursing University of South Wales UK I'm delighted to recommend this new welcome and accessible resource an excellent book with much to offer student and registered mental health nurses and nurse educators in promoting safe and effective practice in medicines management John Butler Senior Lecturer in Mental Health University of Central Lancashire UK This book comprehensively addresses all the major psychotropic drugs a mental health nurse will encounter when undertaking medicines interventions Each mental health diagnosis is explored and the related prescribed medicines covered in depth I would recommend this book for use as a core text book in undergraduate studies registered nurses who want to increase their knowledge base and for non medical prescribing students as a baseline source to learn

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