

**Unit 1 (general systems): course notes & text chapters 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14**  
(NOT Ch. 3) cell, genetics, inflammatory, immune

Exam 1: Unit 1( chap1-14 except chap 3) completion deadline from **Monday, 23 to sunday 1/29/2023**

Learning objectives for this file:

1. Review tissue biology, cellular changes with injury & infection
2. Theories of cancer development
3. Theories of aging
4. Circadian cycles.
5. Immune response- immune cells, cell-mediated & humoral immunity
6. Immunoglobulins, complement
7. Active & passive immunity, blood immune system, CRP
8. Transportation immunology, auto-immune disease
9. Inflammation- cells, cytokines
10. Immediate & delayed inflammatory response
11. Arachidonic acid pathway, eicosanoids, CRP
12. Wound healing- normal, dysfunctional.

## **A. Tissue Biology**

Tissues:

1. Extracellular matrix:

all cells are in contact with extracellular macromolecules. This holds cells in place. The extracellular matrix is an intricate meshwork of fibrous proteins embedded in a watery, gel-like substance composed of complex carbohydrates containing **elastin, fibronectin, and collagen**.

Desmosomes hold cells together by forming bands or belts while polypeptides form proteins.

2. Cytokines:

Chemicals made by cells that affect other cells growth & activity.

Three embryonic tissue types:

- . ectoderm : nerve, eye, skin
- . mesoderm: mesenchymal- muscle and GU
- . endoderm: visceral organs

### **a. Epithelial tissue:**

May be smooth, or have microvilli, and/or cilia.

- . Simple (one layer) or stratified (2+ layers).
- . pseudostratified looks stratified but is one layer

# Advanced Pathophysiology Lecture Notes

□□□□□□ (Japan)



## **Advanced Pathophysiology Lecture Notes:**

*Essential Notes on Pathophysiology for Advance Practice Nurses* Alex Sargsyan,2020 This text is a compilation of lecture notes from pathophysiology courses I have taught over the last ten years The goal of the text is to equip future advanced practice nurses with knowledge of pathophysiology for common diseases and disorders they may encounter in the primary care setting Provided by author

**Distance Education in Nursing, Second Edition** Jeanne Novotny,Robert Henry Davis,2006 Written for every nurse educator from novice to expert by such distinguished contributors as Diane Billings Suzanne Hetzel Campbell and Marilyn Oermann this second edition offers basic introductory information on distance teaching and learning in nursing

Medical Assessment Units John B. Taylor,Michelle Rhodes,2006-02-22 Increasing demands on acute hospital resources together with a reduction in the number of available beds has placed a greater emphasis on the need for rapid and effective assessment of patients in order to determine their need for hospital admission This has led to the widespread emergence of the specialist Medical Assessment Unit MAU This timely book provides an up to date guide to the assessment and immediate management of patients with acute medical conditions It presents a structured approach based on common presenting features and focuses on the first twenty four hours of the patient s stay in hospital In writing this book the editors have been able to draw on their own clinical experiences as a charge nurse in Accident and Emergency nursing and a sister in acute cardiology and respectively

**Orthopedic Therapy of the Shoulder** Martin J. Kelley,William Anthony Clark,1995 This practical reference provides orthopaedic physical and rehabilitation specialists with information on how to evaluate and treat shoulder injuries including rehabilitative techniques and surgical procedures Diagnostic imaging and surgical procedures are covered

*Whitaker's Cumulative Book List* ,1975 *Whitaker's Five-year Cumulative Book List* ,1958

**Cardiology Science and Technology** Dhanjoo N. Ghista,2016-04-27 Cardiology Science and Technology comprehensively deals with the science and biomedical engineering formulations of cardiology As a textbook it addresses the teaching research and clinical aspects of cardiovascular medical engineering and computational cardiology The books consists of two sections The first section deals with left ventricular

Assessing and Managing the Acutely Ill Adult Surgical Patient Fiona McArthur-Rouse,Sylvia Prosser,2008-04-15 Assessing and managing the acutely ill adult surgical patient focuses on major surgical conditions and interventions commonly encountered in District General Hospitals which potentially require intensive monitoring and intervention It emphasizes the importance of thorough assessment and interpretation of clinical data and provides the necessary knowledge to help nurses make sense of their findings and to integrate theory and practice in relation to surgical care Part one addresses principles of surgical care for all patients undergoing surgery including pre operative assessment and preparation the peri operative period and post operative recovery post operative pain management and psychosocial aspects of surgery which underpin the knowledge and rationale for practice Part two considers specific surgical conditions and interventions organised according to surgical specialities



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