

BIOCHEMISTRY NOTES

Based on YouTube videos by Pass The Dental Boards + some online/book research + DO = THIS IS ALL YOU NEED TO KNOW ABOUT BIOCHEM!

Watch these videos & compare to the notes (not available in full anymore, but they might still help):

<https://www.youtube.com/watch?v=5Uc347uLwQ8&list=PL9C6dUy0e00>

Abbreviations: E = enzyme, [X] = concentration of substance X, e = electrons, MC = most common

There are some really stupid mnemonics, but whatever helps, right? ☹ Please, don't feel offended. Print it out, I added important pictures at the end, it helps if you are reading the notes and having a picture right next to you to compare different processes (for example, Krebs cycle picture with the notes). You have to read the file MULTIPLE times, I don't know how to do magic by remembering things after one read :) I left some space at the end for your own notes, under the pictures.

Keep working hard, you got this!

Paulina

LIPIDS

1. Types

- Fatty acids (FA)
- Triglycerides (TG) = Triacylglycerols (TAG)
- Phospholipids
- Lipoproteins
- Sphingolipids



2. FATTY ACIDS

- 2 essential FA:
 - **Linoleic acid (18:2)**
 - **α -linolenic acid (18:3)**
 - Both can lead to production of: **arachidonic acid (20:4)** → prostaglandins (PG)
- Names:
 - 12C lauric acid
 - 14C myristic acid
 - 16C palmitic acid (palmitate)
 - 18C stearic acid → 18:1 oleic acid (oleate) → 18:2 linoleic acid (linoleate) → 20:4 arachidonic acid
 - 20C arachidic acid (often as a distractor!)
- MNEUMONIC for saturated FA (the ones "18:X" are unsaturated): **Lauri, driving with MyWrist, change to palms to steer, spider attacks!**
 - A girl named Lauri is driving a car with "my wrists" (her wrists), then changes to palms to steer the wheels and all of the sudden a spider attacks = lauric, myristic, palmitic, stearic, arachidic

3. TAG

- Ester linkage; lipase via hydrolysis → FA + glycerol
- Adipose tissue

4. SPHINGOLIPIDS (glycolipids)

- Ceramide: simplest, parent molecule, X = H
- Cerebroside: X = glucose (glycolipid)
- Ganglioside: X = a bunch of sugars (glycolipid)
- Sphingo**myelin**: X = **choline**

Gang of sugars

accumulated in Niemann-Pick; yields sphingosine, choline, FA, phosphoric acid

5. PHOSPHOLIPIDS

- 2 major types
 - **Lecithins = phosphatidylcholine (PC)**
 - **Cephalins = phosphatidylethanolamine (PE)**
- Lecithins: most common (MC) phospholipid in bilayer membranes; yields 1 glycerol, 1 phosphate group, 1 choline, 2 FA
- **Choline:**
 1. Sphingolipid → sphingomyelin
 2. Phospholipid → phosphatidylcholine (PHAT = fat)Both ↑↑↑ in outer leaf membrane
 - Choline has a **lipotropic effect** on fatty liver (helps metabolizing fat by exporting fat from the liver)
 - Choline → **betaine** (metabolite) = important in **methylation**

Lecture Notes Clinical Biochemistry

**Geoffrey Beckett, Peter Rae, Peter
Ashby**



Lecture Notes Clinical Biochemistry:

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Clinical Biochemistry Peter Rae, Mike Crane, Rebecca Pattenden, 2017-07-13 Clinical Biochemistry Lecture Notes presents the fundamental science behind common biochemical investigations used in clinical practice Taking a system based approach it explores the underlying physiological rationale for tests with each test explained within the context of disruption by disease It also explores the value and limitations of biochemical investigations while helping readers to quickly develop the knowledge and skills required to select the appropriate investigations for diagnosis and management and to correctly interpret test results Case studies throughout chapters place the information within a clinical context to further assist readers in the development of test selection and interpretation skills Key features include A comprehensive yet concise overview of the science behind common biochemical investigations Helps readers rapidly acquire a fully integrated practical understanding of biochemical diagnostics Full colour flowcharts and algorithms detailing the rationale for tests the biochemical processes involved and test procedures for quick comprehension and reference More clinical cases demonstrating application to practice Now in its tenth edition this classic introductory reference and revision text is indispensable to medical students and all those who want to quickly acquire a practical understanding of the scientific principles underpinning biochemical tests and a working knowledge of test selection test procedures and the interpretation of results within a clinical context

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Clinical Biochemistry Allan Gaw, 2008-01-01 2014 BMA Medical Book Awards Highly Commended in Basic and Clinical Sciences category This fully revised edition of Clinical Biochemistry offers essential reading for today's medical student and all those who require a concise practical introduction to this subject Topics are clearly presented in a series of double page learning units each covering a particular aspect of clinical biochemistry Four sections provide a core grounding in the subject Introducing clinical biochemistry gives a basic insight in to the workings of a modern hospital laboratory and the interpretation of test results Core biochemistry covers the bulk of routine analyses undertaken and their relevance in a clinical setting Endocrinology covers the thyroid adrenal pituitary and gonadal function testing Specialised investigation provides an overview of less requested yet important analyses Every learning unit has been thoroughly checked and updated to reflect the latest field developments and clinical best practice and all new material is included on Myocardial infarction Gastrointestinal disorders Osteoporosis Proteinuria The diagnosis of diabetes Trace metals Screening tests Paediatrics Covers clinical biochemistry from the point of view of the clinician using the diagnostic service Presents topics in easily accessible two page spreads Includes mini case histories key point boxes flowcharts and summary points Well illustrated with four color drawings and clinical photographs New appendix added of annotated web resources for students to take further many of the topics covered in the book To reflect the difficulties people have sometimes in analyzing hyper and hypokalaemia the existing spread is split into two one spread on hyperkalaemia and another on hypokalaemia The spread on hypertension will be revised and updated to reflect the fact that biochemistry is used as much or more in guiding treatment

as it is in screening for secondary hypertension Spreads on Myocardial Infarction Cancer and Tumour Markers will all substantially revised and updated

Lecture Notes: Clinical Pharmacology and Therapeutics Gerard A. McKay, John L. Reid, Matthew R. Walters, 2010-11-01 Lecture Notes Clinical Pharmacology and Therapeutics provides all the necessary information within one short volume to achieve a thorough understanding of how drugs work their interaction with the body in health and disease and the practical aspects of prescribing drugs appropriately in clinical situations Presented in an easy to use format this eighth edition builds on the clinical relevance for which the title has become well known and features an up to date review of drug use across all major clinical disciplines together with an overview of contemporary medicines regulation and drug development Key features include A section devoted to the practical aspects of prescribing Clinical scenarios and accompanying questions to contextualise information End of chapter summary boxes Numerous figures and tables which help distill the information for revision purposes Whether you need to develop or refresh your knowledge of pharmacology Lecture Notes Clinical Pharmacology and Therapeutics presents need to know information for all those involved in prescribing

Clinical Biochemistry E-Book Allan Gaw, Michael Murphy, Rajeev Srivastava, Robert A. Cowan, Denis St. J. O'Reilly, 2013-06-07 This edition covers all aspects of the subject needed by medical students It is a volume in the Illustrated Colour Text series with the subject matter divided into double page spreads this makes the information very accessible to the reader Full use is made of flow charts and other graphics clinical boxes summary points case histories and clinical photographs The whole orientation of the book is to concentrate on how clinical biochemistry relates to the care of the patient and to ensure that the medical student understands how to interpret laboratory Covers clinical biochemistry from the point of view of the clinician using the diagnostic service Presents topics in easily accessible two page spreads Includes mini case histories key point boxes flowcharts and summary points Well illustrated with four color drawings and clinical photographs New appendix added of annotated web resources for students to take further many of the topics covered in the book To reflect the difficulties people have sometimes in analyzing hyper and hypo kalaemia the existing spread is split into two one spread on hyperkalaemia and another on hypokalaemia The spread on hypertension will be revised and updated to reflect the fact that biochemistry is used as much or more in guiding treatment as it is in screening for secondary hypertension Spreads on Myocardial Infarction Cancer and Tumour Markers will all substantially revised and updated

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