

MEDICINAL CHEM

Medicinal chemistry deals with the design, optimization and development of chemical compounds for use as drugs.

Functional Groups

- Functional groups play a significant role in:
- Water Right notlability
- Route of administration.
- Ability to interact with the specific biological target.
- Mochanism (mode or method) of action
- Route of metabolism and elimination
- Duration of action
- Suitability for specific thempeutic situations
- Tendency to course adverse effects or drug interactions Three concepts that should always be considered when examining a drug molecule:
- I. Every atom within the structure belongs to some functional atoms.
- 2. Within a drug molecule, some functional groups may be more "important" than others. The opposite may be true for a different drug molecule.
- 3. Altering functional groups can enhance activity, increase advorption, decrease adverse effects, and provide other the appearing beauties.
- Three major chemical proporties that need to be analyzed for every functional group;
- 1. Electronic effect: The components that comprise the overall electronic effect of a functional group are induction manufic attenues and continues of
- a. Measured by a functional group's ability to donate its electrons to adjacent atoms or functional groups 2. Solubility effect: Overall solubility is a composite sum of
- all the functional groups found as part of a drug molecule. 3. Storic effects Each functional group has a finite size
 - and storic dimension; this contributes to the overall conformation and thus the 3-D shape of a given drug.
- · The three major chemical properties combined need to be considered when evaluation the overall pharmacodynamic and pharmacokinetic properties of any given-drug molecule.

ELECTRONEGATIVITY: KEY POINTS

- . E.D.CL and Name the most electromagative element O will always attract electrons to it, unless it is attached to a fi-
- . All the halogens (I, O, Br, and I) as well as O and II will attract electrons away
- C will slightly attract electrons away from it (inductive effect).
- . The difference in electronogativity causes a dipole.

Solubility

 Overall water and/or lipid solubility of a drug molecule afflicate its moutor's air administrations distribution within the body, metabolism, duration of action, and route(s) of climintelligent.

- Toronto too Serveror
- Hydrophobicity (a.k.a. lipophilicity): How waterdistilling (i.e., oil-liking) a drug molecule is
- Hydrophilicity (a.k.a. lipophobicity): How waterfilting (i.e., oil-distribute) a drug molocule is
- . The contribution to solubility by a functional group may be increased or decreased depending upon adjacent groups.
- Water soluble functional groups:
 - Enhance water solubility; often referred to as hydrophillie groups.
 - The two major properties that contribute to water solubility:
 - Whether the group is or can be loaded. © Either positive (+) or negative (-)
 - EX: Quaternary amine—no matter what pH the molecule finds itself in, it will always have a + charge.
 - The group's ability to hydrogen bond with water

- Size & Steric Dimension

 The addition of a sterically bulky functional group can:
- Increase selectivity for its biological target
- Enhance blading interactions with its biological target Cause fiscorable alterations in the rate of metabolisms
- The acidio-basic nature of a drug molecule influences its chemical, pharmaceutical, and therapeutic proporties.
- . If a functional group can be isolated at a certain pH, its water solubility will increase.
- While this helps the gastrointestinal (GI) tract dissolve the molecule, the unionized form (without a charge) is better for passage through the lipid membrane.
- Ionization: Equilibrium process that allows for functional groups to form electrostatic interactions with target receptors, transport proteins, enzymes, and other endogenous biological targets.
 - Electrostatic (a.k.a ionic) interactions are the strongest memoryalizati bondo.
- Drug molecules can interact with plasma proteins dustriallly via electrostatics).
 - This sequesters them from metabolic/elimination pathways and extends the duration of action.
- The human serum allbumin is a major transporter of drug molecules but is nonspecific. It generally binds acid drug molecules to a greater extent than basic drug molecules.
 - Albumin also binds hydrophobic compounds more tightly than hydrophilic ones.
- What if you are taking two different drugs and both contain. an acidic functional group?
- Plasma protein displacement interactions one occur.
- This could grounly affect the half-life of the drug, particularly when the drug is 90% plasma protein bound.

- · Drug molecules that are highly looked are more water soluble, so they need less metabolism to be eliminated.
- There are specific transport proteins of certain organic acids within the renal tubules that actively secrete acidic moleemilione.
 - From the plasma to the urine
 - . This decreases the half-life of the drug molecules.
 - From the urine to the plasma.
 - This increases the half-life of the drug molecules.

Acidic & Basic Functional Groups

Executional I	-	-	phi, Name
100	Corbonythe sold	Aridar	2.5-3
iji.	() observations)	Airtidae	45-45
25-	Bullimanuka	Artiflet	5-10
-1280	Mr Studilling Statem	Acides	3-6
	Yetronides	Neidle	4.5-6
000	Should	Acidia	7-10
· · · · ·	Sullines	Neide	0-2
e o f on	- F-0-	Action	1.5-2.5 (Seet plansplane) 6.5-7.5 (second plansplane) 2-3 (Seet plansplane) 7-9 (second plansplane)
1	-	Desir	9-10 (offer performance)
oi.	Anton	t-	2 f (other protections)
and the same of th	Bettern	Bloom	3-4 Cellus promiserant
and the same	Disposition of the last of the	Blanck	7.5-8.5 (allos protessatores)
- T.	Amirbine	Beerle	30-11 (other protosotion)
- , -	Consider	David,	12-13 (other protonultion)
& C	.	State of	1-5 Calles protessations)

Amino Acids







pH & pK

phil - - Acquirt |

- Refers to the solution, not a functional group
- Indicates how many "free" III's there are in the solution
- HEX: plit of 0.1 M H. $p(0) = -\log_2(0, 1) = -(-1) = 1$ EXI pell of 0.0004 MIT p01 = -(1-1) = -(10000.0) = -(-1) = 4

Acid Strength (pK_)

- · Property of functional groups Afflocted by steric and electronic
- Can be used to compare the relative acidity of functional groups Rule Is Lower pK value -stronger acid (wants to lose One 10 h
- Rule 2: Higher pK, value -stronger conjugate base/weakor sould (wants to gain the H)

+ 18" + A" - THAN

- Low pK : Reaction is to the
- High p.K., : Reaction is to the Lord St.

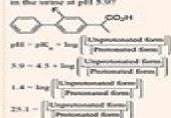
$$pK_{a} = \log(K_{a})$$

$$[pt^{*}][A^{*}]$$

BUA Hersdorson-Hussielbidch ogusti part or part, or long. Unpresented from Proteind from

- Used to calculate the:
- pHI change in buffered solu-Berger.
- pHI change in the motor ratio of salt to acid concentrations needed to prepare a buffler sobuttom at a cortain pill
- Percent ionization of a fenctional group at a certain soluthem pitt

EX: Fluibiposition's functional group. has a pK, of 4.5, so it must be carbooxidis sold. Will it be primary protonated or improtonated iff it is im the suring at pHI 5.97



Autowayer Morey umprotomotod The protonation state affects:

The charge of a functional group (n or -)

Medicinal Chemistry Study Guide

James Adams, Maryn Munley, Nathan
Eisenbeis, Caroline Miller, Jesse Shetler

Medicinal Chemistry Study Guide:

Fundamentals of Medicinal Chemistry and Drug Metabolism M. O. Faruk Khan, Ashok Philip, 2018-06-01 The primary objective of this 4 volume book series is to educate PharmD students on the subject of medicinal chemistry The book set serves as a reference guide to pharmacists on aspects of chemical basis of drug action This first volume of the series is comprised of 8 chapters focusing on basic background information about medicinal chemistry It takes a succinct and conceptual approach to introducing important fundamental concepts required for a clear understanding of various facets of pharmacotherapeutic agents drug metabolism and important biosynthetic pathways that are relevant to drug action Notable topics covered in this first volume include the scope and importance of medicinal chemistry in pharmacy education a comprehensive discussion of the organic functional groups present in drugs and information about four major types of biomolecules proteins carbohydrates lipids nucleic acids and key heterocyclic ring systems. The concepts of acid base chemistry and salt formation and their applications to the drug action and design follow thereafter These include concepts of solubility and lipid water partition coefficient LWPC isosterism stereochemical properties mechanisms of drug action drug receptor interactions critical for pharmacological responses of drugs and much more Students and teachers will be able to integrate the knowledge presented in the book and apply medicinal chemistry concepts to understand the pharmacodynamics and pharmacokinetics of therapeutic agents in the body Studyguide for an Introduction to Medicinal Chemistry by Patrick, Graham L. Cram101 Textbook Reviews, 2013-05 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and guizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780872893795 This item is printed on demand Study Guide for Clinical Procedures for Medical Assistants - E-Book Kathy Bonewit-West, 2022-10-12 Learn how to think critically and perform competently in the clinical setting Correlating to chapters in Clinical Procedures for Medical Assistants 11th Edition this study guide provides additional activities review questions and exercises designed to prepare you to work in a modern medical office Content aligns to the new 2022 medical assisting educational competencies and provides procedure checklists and video evaluations to help you track your mastery of clinical skills This essential companion provides the practice you need to prepare for a successful career in the fast paced world of medical assisting Critical thinking activities with realistic situations help students analyze and apply what they ve learned with games role playing situations crossword puzzles and independent study questions Focus on competency mastery includes worksheets to practice key skills and evaluation forms to assess proficiency Assignment sheets at the beginning of chapters help students stay organized and document their progress NEW 2022 CAAHEP medical assisting competencies throughout represent the latest educational standards NEW Updated content addresses changes in the medical record nutritional guidelines OSHA standards for infection control and prevention emergency preparedness and more REVISED Self

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Zavod also serves on the adjunct faculty for Elmhurst College and the Illinois Institute of Technology She currently serves as Editor in Chief of the journal Currents in Pharmacy Teaching and Learning Study Guide for Jones & Bartlett Learning's Comprehensive Medical Assisting Judy Kronenberger, Julie Ledbetter, 2020-04-21 Master your course with the practice and hands on activities that will help you get ready for the medical office In this new edition of Study Guide for Jones Bartlett Learning s Comprehensive Medical Assisting the exercises and activities align with the most current Medical Assisting Education Review Board MAERB of the American Association of Medical Assistants AAMA curriculum standards The Study Guide is divided into sections that coincide with the textbook and includes exercises that reinforce the knowledge and skills Nurse-Medical/Surgical Specialty Review and Study Guide Leopold required of all Medical Assistants Tran, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing MCAT Complete: Medical College Admission Test Comprehensive Study Guide Physical Sciences; Biological Sciences; Verbal Reasoning James Adams, Maryn Munley, Nathan Eisenbeis, Caroline Miller, Jesse Shetler, 2021-10-12 The MCAT The Medical College Admission Test MCAT is a standardized multiple choice examination designed to assess the examinee's problem solving critical thinking and knowledge of science concepts and principles prerequisite to the study of medicine Scores are reported in Physical Sciences Verbal Reasoning and Biological Sciences Study guide covers AAMC Association of American Medical Colleges content Physical Sciences Biological Sciences Verbal Reasoning Mathematics Concepts The Cell Chromosomes Reproduction Implantation Microorganisms Biochemistry Human Physiology The Heart The Lymphatic System GI Tract Musculoskeletal System Kidney Hormones Nerves Skin Genetics Populations and Evolution Elements Hund s Rule and Radiation The Periodic Table Covalent Bonds Molecular Shapes General Chemistry Kinetic Molecular Theory Phase Change Solutions Oxidation Numbers Entropy Acids and Bases Galvanic and Electrolytic Cells Carbon Stereochemistry Alkanes and Alkenes Hydrogen Bonding Alcohols Phenols Aldehydes and Ketones m Carboxylic Acids Ether Ammonia Amino Acids Carbohydrates Spectroscopy Separation and Distillation Vectors and Simple Motion Forces Circular and Projectile Motion Statics Center of Gravity Work and Energy Power and Momentum Stress and Strain Elasticity and Density Hydrostatic Pressure Fluids in Motion Electricity and Magnetism Plates Capacitors Voltage Batteries Resistors Magnetic Fields Waves and Periodic Motion Sound Waves Doppler Effect Simple Harmonic Motion Optics Mirrors 205 pages Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver, 2022-06-18 Designed to support the trusted content in Kinn's The Medical Assistant 14th Edition this study guide is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure that you learn to master and apply key medical

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competencies NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection EXPANDED Information on physical medicine and rehabilitation EXPANDED Content on specimen collection including wound swab nasal and nasopharyngeal collections Medical Office Manager Specialty Review and Study Guide William Conway, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you guickly master specialty content All guestions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing Medical Canada-Qualifying Pt I Specialty Review and Study Guide Craig McColley, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing Basic Concepts in Medicinal Chemistry ,2001 These tutorials focus on the basic chemical concepts which govern drug action and are meant to serve as a review for the sequence of Biomedical Science Therapeutics courses PHBMS 422 PHBMS 427 These concepts are first introduced in the stand alone Medicinal Chemistry course PHBMS 421 taught in the Fall semester of the PIV year and should not be foreign to those who have completed this course It is the expectation of the author that each student understands and masters these concepts since he she is expected to apply these concepts and understand how they relate to the drugs and drug classes discussed in the BMS T modules India Medical Exam (AIPGMEE) Specialty Review and Study Guide Richard Whitten, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing Part - Study Guide for Kinn's the Medical Assistant Deborah B. Proctor, 2013-08-19 PART Study Guide for Kinn's The Medical Assistant Medical Technology Examination Review and Study Guide Anna P. Ciulla, Georganne K. Buescher, Joan H. Youse, 1988 Medical Canada-Evaluating Exam Specialty Review and Study Guide Thomas Gilman, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls

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