



# MEDICINAL CHEMISTRY



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/lipid solubility
  - Route of administration
  - Ability to interact with the specific biological target
  - Mechanism (mode or method) of action
  - Route of metabolism and elimination
  - Duration of action
  - Suitability for specific therapeutic situations
  - Tendency to cause adverse effects or drug interactions
- Three concepts that should always be considered when examining a drug molecule:
  - Every atom within the structure belongs to some functional group.
  - Within a drug molecule, some functional groups may be more "important" than others. The opposite may be true for a different drug molecule.
  - Adding functional groups can enhance activity, increase absorption, decrease adverse effects, and provide other therapeutic benefits.
- Three major chemical properties that need to be analyzed for every functional group:
  - Electronic effects:** The components that comprise the overall electronic effect of a functional group are induction and resonance.
    - Measured by a functional group's ability to donate its electrons to adjacent atoms or functional groups.
  - Solubility effects:** Overall solubility is a composite sum of all the functional groups found as part of a drug molecule.
    - Steric effects:** Each functional group has a finite size and steric 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 evaluating the overall pharmacodynamic and pharmacokinetic properties of any given drug molecule.

### ELECTRONEGATIVITY: KEY POINTS

- F, O, Cl, and N are the most electronegative elements.
- O will always attract electrons to it, unless it is attached to a F.
- All the halogens (F, Cl, Br, and I) as well as O and N will attract electrons away from C.
- C will slightly attract electrons away from H (inductive effect).
- The difference in electronegativity causes a dipole.

### Solubility

- Overall water and/or lipid solubility of a drug molecule affects its route(s) of administration, distribution within the body, metabolism, duration of action, and route(s) of elimination.

- Terms to know:
  - Hydrophobicity (a.k.a. lipophilicity):** How water-dissolving (i.e., oil-dissolving) a drug molecule is.
  - Hydrophilicity (a.k.a. lipophobicity):** How water-dissolving (i.e., oil-dissolving) a drug molecule 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 hydrophilic groups.
  - The two major properties that contribute to water solubility:
    - Whether the group is or can be ionized
      - Either positive (+) or negative (-)
    - EN: 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

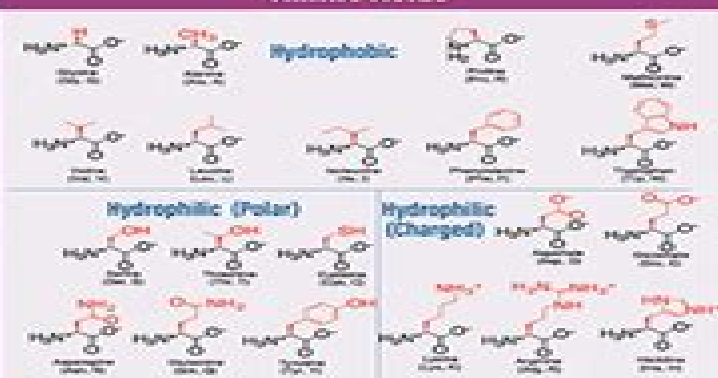
- The addition of a sterically bulky functional group can:
  - Increase selectivity for its biological target
  - Enhance binding interactions with its biological target
  - Cause favorable alterations in the rate of metabolism
- The acidic/basic nature of a drug molecule influences its chemical, pharmaceutical, and therapeutic properties.
- If a functional group can be ionized 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 noncovalent bonds.
- Drug molecules can interact with plasma proteins (usually via electrostatics).
  - This sequesters them from metabolic/elimination pathways and extends the duration of action.
- The human serum albumin 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 can occur.
  - This could greatly affect the half-life of the drug, particularly when the drug is 90% plasma protein bound.

- Drug molecules that are highly ionized 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 molecules:
  - 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

Functional Group	Acid or Base?	pH, Range
Carboxylic acid	Acidic	2.5-5
2-hydroxyethyl	Acidic	4.5-6.5
Sulfonamide	Acidic	5-10
N-sulfonamide	Acidic	5-6
Tetrazole	Acidic	4.5-6
Phenol	Acidic	7-10
Sulfonic acid	Acidic	0-2
Phosphonic acid and phosphonates	Acidic	1.5-2.5 (first phosphate) 6.5-7.5 (second phosphate) 2-3 (third phosphate) 7-8 (fourth phosphate)
Alkaline structure	Basic	9-11 (after protonation)
Aniline	Basic	2-5 (after protonation)
Tetrazine	Basic	3-4 (after protonation)
Hydrazine	Basic	7.5-8.5 (after protonation)
Amidine	Basic	10-11 (after protonation)
Guanidine	Basic	12-13 (after protonation)
Organic containing amine	Basic	8-9 (after protonation)

## Amino Acids



## pH & pK<sub>a</sub>

### pH

- $\text{pH} = -\log[\text{H}^+]$ 
  - Refers to the solution, not a functional group
  - Indicates how many "free"  $\text{H}^+$ 's there are in the solution
- EN: pH of 0.1M  $\text{H}^+$
- $\text{pH} = -\log(0.1) = -(-1) = 1$
- EN: pH of 0.0001 M  $\text{H}^+$
- $\text{pH} = -\log(0.0001) = -(-4) = 4$

### Acid Strength (pK<sub>a</sub>)

- Property of functional groups
- Affected by steric and electronic effects
- Can be used to compare the relative acidity of functional groups
  - Rule 1: Lower  $\text{pK}_a$  value = stronger acid (wants to lose the  $\text{H}^+$ )
  - Rule 2: Higher  $\text{pK}_a$  value = stronger conjugate base/weak acid (wants to gain the  $\text{H}^+$ )



- Low  $\text{pK}_a$ : Reaction is to the right
- High  $\text{pK}_a$ : Reaction is to the left
- $\text{pK}_a = -\log(K_a)$
- $K_a = \frac{[\text{H}^+][\text{A}^-]}{[\text{HA}]}$
- Henderson-Hasselbalch equation:
 
$$\text{pH} = \text{pK}_a + \log \left( \frac{[\text{Unprotonated form}]}{[\text{Protonated form}]} \right)$$
- Used to calculate the:
  - pH change in buffered solutions
  - pH change in the molar ratio of salt to acid concentrations needed to prepare a buffer solution at a certain pH
  - Percent ionization of a functional group at a certain solution pH

EN: Flurbiprofen's functional group has a  $\text{pK}_a$  of 4.5, so it must be carboxylic acid. Will it be primary protonated or unprotonated if it is in the urine at pH 5.0?

$$\text{pH} = \text{pK}_a + \log \left( \frac{[\text{Unprotonated form}]}{[\text{Protonated form}]} \right)$$

$$5.0 = 4.5 + \log \left( \frac{[\text{Unprotonated form}]}{[\text{Protonated form}]} \right)$$

$$1.4 = \log \left( \frac{[\text{Unprotonated form}]}{[\text{Protonated form}]} \right)$$

$$23.1 = \left( \frac{[\text{Unprotonated form}]}{[\text{Protonated form}]} \right)$$

Answer: More unprotonated

- The protonation state affects:
  - The charge of a functional group (+ or -)

# Medicinal Chemistry Study Guide

**Anna P. Ciulla,Georganne K.  
Buescher,Joan H. Youse**



## **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 quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780872893795 This item is printed on demand

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assessment opportunities allow students to perform quick comprehension checks including pre tests post tests and key term assessments      Organic Chemistry Fundamentals Study Guide Speedy Publishing, 2014-11-26 In order to fully understand any subject the fundamentals must be understood and kept in the back of the mind Organic Chemistry is one of the most difficult subjects a college student can take especially if they are not a Chemistry major A lot goes into the fundamentals of the subject That is why an Organic Chemistry Fundamentals book can be so helpful to a student When studying the material if the student discovers they do not understand something they can reference the book and continue with studying in no time at all Having a reference book is the key to success in an Organic Chemistry class      **Study Guide for Today's Medical Assistant - E-Book** Kathy Bonewit-West, Sue Hunt, Edith Applegate, 2014-07-30 Use this study tool to master the content from your Today's Medical Assistant Clinical Administrative Procedures 2nd Edition textbook Corresponding to the chapters in the textbook by Kathy Bonewit West Sue Hunt and Edith Applegate this study guide helps you understand and apply the material with practical exercises activities flashcards checklists review questions and more Chapter assignment tables at the beginning of chapters guide you through textbook and study guide assignments and make it easy to track your progress Laboratory assignment tables list the procedures in each chapter including study guide page number references and indicate the procedures shown on the DVDs A pretest and posttest in each chapter measure your understanding with 10 true false questions Key term assessments include exercises to help in reviewing and mastering new vocabulary Evaluation of Learning questions let you assess your understanding evaluate progress and prepare for the certification examination Critical thinking activities let you apply your knowledge to real life situations Practice for Competency sections offer extra practice on clinical skills presented in the book Evaluation of Competency checklists evaluate your performance versus stated objectives and updated CAAHEP performance standards Updated content includes exercises for topics such as electronic medical records advanced directives HIPAA emergency preparedness ICD 10 coding documentation medical office technology medical asepsis vital signs pediatrics colonoscopy IV therapy and CLIA waived tests New activities provide practice for the Today's Medical Assistant textbook's newest and most up to date content New Emergency Protective Practices for the Medical Office chapter includes procedures critical thinking questions and other activities to help you understand emergency preparedness New Wheelchair Transfer Procedure and Evaluation of Competency checklist includes a step by step guide to this important procedure New video evaluation worksheets on the Evolve companion website reinforce the procedures demonstrated on the textbook DVDs New practicum and externship activities on Evolve provide practice with real world scenarios      *Medical Laboratory Technician Certification Study Guide 2025-2026* Lucas Blade Hebert, Master Laboratory Science Ace Your Certification Ready to excel in your MLT or MLS certification exam This comprehensive review guide provides everything you need to succeed from fundamental concepts to advanced clinical applications 700 Practice Questions Test your knowledge across all laboratory disciplines with detailed explanations that reinforce learning 26 Complete Chapters Master Hematology

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Kronenberger, 2020-04-20 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 Clinical Medical Assisting the exercises and activities align with the American Association of Medical Assistants AAMA curriculum standards The Study Guide aligns to the textbook and includes exercises that reinforce the knowledge and skills required of all Medical Assistants

*Basic Concepts in Medicinal Chemistry* Marc Harrold, Robin Zavod, 2013-01-18 Medicinal chemistry is a complex topic Written in an easy to follow and conversational style Basic Concepts in Medicinal Chemistry focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions The book emphasizes functional group analysis and the basics of drug structure evaluation In a systematic fashion learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility absorption acid base character binding interactions and stereochemical orientation Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group Key features include Discussions on the roles and characteristics of organic functional groups including the identification of acidic and basic functional groups How to solve problems involving pH pKa and ionization salts and solubility drug binding interactions stereochemistry and drug metabolism Numerous examples and expanded discussions for complex concepts Therapeutic examples that link the importance of medicinal chemistry to pharmacy and healthcare practice An overview of structure activity relationships SARs and concepts that govern drug design Review questions and practice problems at the end of each chapter that allow readers to test their understanding with the answers provided in an appendix Whether you are just starting your education toward a career in a healthcare field or need to brush up on your organic chemistry concepts this book is here to help you navigate medicinal chemistry About the Authors Marc W Harrold BS Pharm PhD is Professor of Medicinal Chemistry at the Mylan School of Pharmacy Duquesne University Pittsburgh PA Professor Harrold is the 2011 winner of the Omicron Delta Kappa Teacher of the Year award at Duquesne University He is also the two time winner of the TOPS Teacher of the Pharmacy School award at the Mylan School of Pharmacy Robin M Zavod PhD is Associate Professor for Pharmaceutical Sciences at the Chicago College of Pharmacy Midwestern University Downers Grove IL where she was awarded the 2012 Outstanding Faculty of the Year award Professor

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 required of all Medical Assistants **Nurse-Medical/Surgical Specialty Review and Study Guide** Leopold 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 in 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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**Study Guide and Procedure Checklist Manual for Kinn's The Clinical Medical Assistant - E-Book** Brigitte Niedzwiecki, Julie Pepper, 2022-09-06 Designed to support the trusted content in Kinn's The Clinical Medical Assistant 15th Edition this study guide is an essential review and practice companion to reinforce key concepts encourage critical thinking and help you apply medical assisting content This robust companion guide offers a wide range of activities to strengthen your understanding of common clinical skills including certification preparation questions a review of medical terminology and anatomy and application exercises Trusted for more than 65 years as a key part of the journey from classroom to career it also features competency checklists to accurately measure your progress and performance from day one until you land your first job as a medical assistant Comprehensive coverage of all clinical procedures complies with accreditation requirements Approximately 135 step by step procedure checklists enable you to assess and track your performance for every procedure included in the textbook Chapter by chapter correlation with the textbook allows you to easily follow core textbook competencies Matching and acronym activities reinforce your understanding of medical terminology anatomy and physiology and chapter vocabulary Short answer and fill in the blank exercises strengthen your comprehension of key concepts Multiple choice questions help you prepare for classroom and board exams Workplace application exercises promote critical thinking and job readiness before you enter practice Internet exercises offer ideas for expanded and project based learning NEW Content aligns to 2022 medical assisting educational

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 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 **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

Publishing

This book delves into Medicinal Chemistry Study Guide. Medicinal Chemistry Study Guide is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Medicinal Chemistry Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Medicinal Chemistry Study Guide
- Chapter 2: Essential Elements of Medicinal Chemistry Study Guide
- Chapter 3: Medicinal Chemistry Study Guide in Everyday Life
- Chapter 4: Medicinal Chemistry Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Medicinal Chemistry Study Guide. The first chapter will explore what Medicinal Chemistry Study Guide is, why Medicinal Chemistry Study Guide is vital, and how to effectively learn about Medicinal Chemistry Study Guide.

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5. In chapter 4, the author will scrutinize the relevance of Medicinal Chemistry Study Guide in specific contexts. The fourth chapter will explore how Medicinal Chemistry Study Guide is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Medicinal Chemistry Study Guide. This chapter will summarize the key points that have been discussed throughout the book.

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