



Pharmaceutical calculation equations

BASIC MATHEMATICS

Temperature Conversion:

$$^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32 \quad ^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

$$\text{K} = ^{\circ}\text{C} + 273.15$$

Roman Numerals:

SS = $\frac{1}{2}$

I or i = 1

V or v = 5

X or x = 10

L or l = 50

C or c = 100

D or d = 500

M or m = 1000

- when the second of two letters has a value equal to or smaller than that of the first, their values are to be added.

- when the second has a value greater than that of the first, the smaller is to be subtracted from the larger.

Proportion:

$$\frac{a}{b} = \frac{c}{d} \rightarrow a \times d = c \times b$$

TORSION BALANCE

The sensitivity requirement (SR) of a torsion

$$\% \text{ Error} = \frac{\text{SR}}{\text{Amount to Weigh}} \times 100\%$$

Minimum Weighable Quantity (MWQ) and Aliquot Method

$$\text{MWQ} = \frac{\text{SR}}{\text{Maximum \% Error}} \times 100\%$$

ALIUOT METHOD

1. Determine the minimum weighable amount for the instrument
2. Weigh the minimum amount (or any multiple) of the substance
3. Mix with a determined amount of the inert substance to obtain a dilution or mixture
4. Weigh an aliquot (sample) of the mixture, which will provide the desired quantity of the substance
5. All weighed quantities must be equal or greater than the minimum weighable amount

$$\frac{\text{Weight of drug in trituration}}{\text{Weight of trituration}} = \frac{\text{Weight of drug in aliquot}}{\text{Weight of aliquot}}$$

DIMENSIONAL ANALYSIS

- This method involves the understanding the ratios of the data and the equivalence between the units in a way that like units will cancel out and only the desired terms will be left.



SYSTEMS OF MEASUREMENT:

Systems of Measurement:

Liter (L) for volume

Gram (g) for weight

Meter (m) for length

Measurement Unit	Equivalent within System	Metric Equivalent
1 gr (gram)		6.5 mg
1 oz (ounce)	437.5 gr	30 g (28.35 g)*
1 lb (pound)	16 oz or 7000 gr	1.3 g

Measurement Unit	Equivalent within System	Metric Equivalent
1 tsp (teaspoonful)		5 mL
1 tbsp (tablespoonful)	3 tsp	15 mL
1 fl oz (fluid ounce)	2 tbsp	30 mL (29.57 mL)*
1 cup	8 fl oz	240 mL
1 pt (pint)	2 cups	480 mL*
1 qt (quart)	2 pt	960 mL
1 gal (gallon)	4 qt	3840 mL

Measurement Unit	Equivalent within System	Metric Equivalent
1 oz (ounce)		30 g
1 lb (pound)	16 oz	454 g
2.2 lb		1 kg

Prefix	Meaning
pico-	one trillionth (basic unit $\times 10^{-12}$, or unit $\times 0.000,000,000,001$)
nano-	one billionth (basic unit $\times 10^{-9}$, or unit $\times 0.000,000,001$)
micro-	one millionth (basic unit $\times 10^{-6}$, or unit $\times 0.000,001$)
milli-	one thousandth (basic unit $\times 10^{-3}$, or unit $\times 0.001$)
centi-	one hundredth (basic unit $\times 10^{-2}$, or unit $\times 0.01$)
deci-	one tenth (basic unit $\times 10^{-1}$, or unit $\times 0.1$)
hecto-	one hundred times (basic unit $\times 10^2$, or unit $\times 100$)
kilo-	one thousand times (basic unit $\times 10^3$, or unit $\times 1000$)

AMINOPHYLLINE TO THEOPHYLLINE CONVERSION

Converting aminophylline to theophylline:

Converting theophylline to aminophylline:

$$\text{aminophylline dose} \times 0.8 = \text{theophylline dose} \quad \frac{\text{theophylline dose}}{0.8} = \text{aminophylline dose}$$

DENSITY AND SPECIFIC GRAVITY

$$\text{Density (g)} = \frac{\text{Mass (m)}}{\text{Volume (v)}}$$

$$\text{Specific gravity (sp g)} = \frac{\text{density of substance (P}_2\text{)}}{\text{density of water (P}_1\text{)}}$$

Pharmacy Technician Math Cheat Sheet

Mary F. Powers, David R. Bright



Pharmacy Technician Math Cheat Sheet:

Math Calculations for Pharmacy Technicians E-Book Elaine Beale, 2017-12-28 Learn to calculate drug dosages safely and accurately Math Calculations for Pharmacy Technicians 3rd Edition helps you master the competencies required by the American Society of Health System Pharmacists ASHP Designed specifically for Pharmacy Technicians this practical worktext simplifies key calculation concepts and lets you work through hundreds of practice problems Coverage includes a review of basic math skills conversions between measurement systems interpreting drug labels and physicians orders and calculating medication dosages based on a patient's age or body weight The worktext format distills complex content into easy to understand concepts and calculations Math Calculations for Pharmacy Technicians helps you develop the competencies you'll need for a successful career as a Pharmacy Technician Hundreds of practice problems throughout covering calculations conversions and measurements Step by step examples to break down complex equations and formulas into simple building blocks UNIQUE Body system icons next to medication names to help students associate different drugs with their respective disorders and body systems Chapter pretests and posttests to help students assess comprehension and areas of strength and improvement Key terms with definitions and in text highlights accompanied by a handy back of book glossary for reference Tech Notes with helpful advice on handling real life situations in the pharmacy Tech Alerts to warn against common pharmacy and medication errors that could impact patient safety Review of Rules at the end of each chapter to summarize key equations and formulas NEW Enhanced coverage of chemotherapy and TPN total parenteral nutrition calculations NEW Appendix with additional exercises in a comprehensive review NEW Drug labels for realistic examples and problems

Math Calculations for Pharmacy Technicians - E-Book Robert M. Fulcher, Eugenia M. Fulcher, 2012-03-16 Written for pharmacy technicians and addressing the competencies developed by the American Society of Health System Pharmacists ASHP Math Calculations for Pharmacy Technicians 2nd Edition helps you learn to calculate drug dosages safely and accurately A practical worktext format covers everything from basic math skills to reading and interpreting labels and physicians orders introducing key calculation and conversion concepts and then providing hundreds of problems so you can practice and master the material Other vital topics include conversions between the various measurement systems reconstituting liquid medications and calculating medications based on a patient's age or body weight Written by experienced pharmacist Robert Fulcher and educator Eugenia Fulcher Math Calculations for Pharmacy Technicians helps you learn calculation skills and develop the competencies needed by pharmacy technicians Learning objectives and definitions of key words begin each chapter Pretests in each chapter allow readers to assess their current knowledge of specific topics Step by step examples make it easy to learn and remember how to do equations and use formulas Hundreds of practice problems provide practice with calculations conversions and measurements Actual drug labels accompany examples and problems for real world experience with the information you will see in pharmacy practice Business Math for Pharmacy

Technicians chapter introduces the calculations needed in retail pharmacy settings Body system icons appear next to medication names to help you associate different drugs with their respective disorders and body systems Points to Remember boxes make it easy to learn and remember key information Review of Rules sections in each chapter summarize the rules and methods for performing equations Chapter reviews provide a quick summary of the key concepts in each chapter Posttests in each chapter allow you to assess how well you have learned the material A comprehensive posttest includes 50 questions that assess your knowledge of all major topics covered in the book Helpful study tools also include an answer key for odd numbered problems and a comprehensive glossary Updated content meets ASHP requirements and features new topics such as powder volume and compounding problems formulas for reducing and enlarging medications and opportunities to write out prescription label directions Tech Note boxes offer helpful advice on real life situations you may encounter in the pharmacy Tech Alert boxes warn against common pharmacy and medication errors that could impact patients safety Additional prescription and practice exercises give you valuable experience with translating physician directions into patient instructions

Math Calculations for Pharmacy Technicians - E-Book Elaine Beale, 2026-04-15 Math Calculations for Pharmacy Technicians 5th Edition helps you master the competencies required by the American Society of Health System Pharmacists ASHP and supports your preparation for all available Pharmacy Technician certification exams Designed specifically for Pharmacy Technicians this practical worktext simplifies key calculation concepts and lets you work through hundreds of practice problems Coverage includes a review of basic math skills conversions between measurement systems interpreting drug labels and physicians orders and calculating medication dosages based on a patient s age or body weight The worktext format distils complex content into easy to understand concepts and calculations Hundreds of practice problems throughout to help you achieve skills mastery and speed with calculations conversions and measurements Step by step examples that follow the written explanation of a calculation to break down complex formulas into more manageable building blocks UNIQUE Body system icons next to medication names to help you learn to associate drugs with their respective disorders and body systems Chapter pretests and posttests help you assess comprehension and areas of strength and improvement Learning features throughout to focus your attention on alerts to prevent medication errors on realistic on the job situations and on review of key concepts UPDATED labels help you stay up to date on current medications ENHANCED questions improve your ability to learn and retain key information and concepts

Pharmacy Calculations for Pharmacy Technicians Bradley J. Wojcik, PharmD, 2018-01-15 Are you a pharmacy technician or pharmacy technician student who wants to learn a few simple methods of solving pharmacy calculations without a bunch of formulas Would you like to raise your hand in Pharmacy Calculations Class after the instructor explains a complicated formula and ask to approach the white board to show the class a much simpler method Do you want to go out on your externship and teach practicing pharmacy technicians how to perform pharmacy calculations Do you want to walk into your Pharmacy Calculations Class on

the first day knowing that you can ace all the tests before the course begins If you answered yes to any of these questions this book is for you The book's first chapter covers the following auxiliary subjects which are important to a well rounded knowledge of pharmacy calculations Rounding Numbers Roman Numerals The Metric System Scientific Notation Significant Figures Percent Error The Apothecary Avoirdupois Household Systems The second chapter will teach you that all the following types of calculations can be performed with one simple method If you can convert 5 g to mg using this method you can solve the most complicated IV flow rate problem Unit Conversions Dosage Calculations IV Flow Rate Calculations Percent Calculations Percent Strength Calculations Ratio Strength Calculations Quantity to Dispense Calculations Milliequivalent Calculations The third chapter covers concentrations and dilutions While there is not one method of solving all these problems you will quickly see that they all have common components Topics covered are Preparing a Solution Using Two Different Strength Solutions Preparing a Solution from a Stock Solution and a Diluent Calculating the Percent Strength of a Mixture Powder Volume Calculations Serial Dilution The book includes plenty of exercises to hone your skills along with a self assessment exercise Finally the book ends with a couple of Pharmacy Calculation Puzzles These puzzles are for those students who want to say to themselves If I can solve these I can solve any possible problem I will encounter

Math Calculations for Pharmacy Technicians Elaine Beale, 2022-04-06 Master the math skills needed to calculate drug dosages safely and accurately Math Calculations for Pharmacy Technicians 4th Edition covers the competencies required by the American Society of Health System Pharmacists ASHP Designed specifically for Pharmacy Technicians the book includes a review of basic math conversions between measurement systems interpretation of drug labels and physicians orders and calculation of medications based on a patient's age body weight or body surface area Two basic methods of calculating drug dosages are described ratio proportion and dimensional analysis Simplifying calculation concepts Elaine Beale's practical worktext breaks down calculations provides examples and contains hundreds of practice problems to help you develop calculation confidence and prepare for a successful career as a Pharmacy Technician More than 1 800 practice problems to help you achieve skills mastery and speed with calculations conversions and measurements Step by step examples that follow the written explanation of a calculation to break down complex formulas into more manageable building blocks UNIQUE Body system icons next to medication names to help you learn to associate drugs with their respective disorders and body systems Chapter pretests and posttests to help you assess your comprehension as well as areas of strength and areas for improvement Learning features including safety alerts to prevent common pharmacy and medication errors tech notes to highlight important concepts and application to realistic on the job situations Key terms including definitions and are accompanied by a back of book glossary for reference NEW Coverage of compounding medications along with newer products such as biologicals used to treat chronic disease or anticoagulants that are alternatives to warfarin and heparin NEW Expanded case based problems with realistic drug labels simulating practice and allowing realistic application NEW

Appendix of top 200 commonly prescribed medications also available online as a printable document for on the job reference

Pharmaceutical Calculations for the Pharmacy Technician Barbara E Lacher, 2020-06-15 Intended for use in an introductory pharmacy technician calculations course this unique book addresses not only calculations that technicians will encounter in retail but also those necessary for compounding IV industry and areas where a pharmacy technician might be called upon more frequently because of the shortage of pharmacy professionals

Math Calculations for Pharmacy Technicians Robert M. Fulcher, Eugenia M. Fulcher, 2012-05 Written for pharmacy technicians and addressing the competencies developed by the American Society of Health System Pharmacists ASHP Math Calculations for Pharmacy Technicians 2nd Edition helps you learn to calculate drug dosages safely and accurately A practical worktext format covers everything from basic math skills to reading and interpreting labels and physicians orders introducing key calculation and conversion concepts and then providing hundreds of problems so you can practice and master the material Other vital topics include conversions between the various measurement systems reconstituting liquid medications and calculating medications based on a patient's age or body weight Written by experienced pharmacist Robert Fulcher and educator Eugenia Fulcher Math Calculations for Pharmacy Technicians helps you learn calculation skills and develop the competencies needed by pharmacy technicians Learning objectives and definitions of key words begin each chapter Pretests in each chapter allow readers to assess their current knowledge of specific topics Step by step examples make it easy to learn and remember how to do equations and use formulas Hundreds of practice problems provide practice with calculations conversions and measurements Actual drug labels accompany examples and problems for real world experience with the information you will see in pharmacy practice Business Math for Pharmacy Technicians chapter introduces the calculations needed in retail pharmacy settings Body system icons appear next to medication names to help you associate different drugs with their respective disorders and body systems Points to Remember boxes make it easy to learn and remember key information Review of Rules sections in each chapter summarize the rules and methods for performing equations Chapter reviews provide a quick summary of the key concepts in each chapter Posttests in each chapter allow you to assess how well you have learned the material A comprehensive posttest includes 50 questions that assess your knowledge of all major topics covered in the book Helpful study tools also include an answer key for odd numbered problems and a comprehensive glossary Updated content meets ASHP requirements and features new topics such as powder volume and compounding problems formulas for reducing and enlarging medications and opportunities to write out prescription label directions Tech Note boxes offer helpful advice on real life situations you may encounter in the pharmacy Tech Alert boxes warn against common pharmacy and medication errors that could impact patients safety Additional prescription and practice exercises give you valuable experience with translating physician directions into patient instructions

Weekly World News , 2000-09-12 Rooted in the creative success of over 30 years of supermarket tabloid publishing the Weekly World News has been the world

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Pharmacy Calculations: An Introduction for Pharmacy Technicians Joy Bellis Sakai,Leanora Kasun,2012-07-01

Pharmacy Calculations An Introduction for Pharmacy Technicians is designed for pharmacy technician students enrolled in a training program technicians preparing for the certification exam and for on site training As the role for pharmacy technicians continues to evolve and expand one thing remains constant The safety of patients is the highest priority for anyone working in pharmacy whether in hospital retail or institutional practices A thorough understanding of pharmacy math ensures accuracy in computations and safety and quality in practice This book offers a complete review of the basic mathematics concepts and skills which provide a foundation for more advanced understanding of pharmacy related topics The guide provides students with the pharmacy basics necessary for correctly interpreting prescriptions and drug orders and for performing dosing calculations that technicians face every day The chapters are broken down into four units and are organized to complement most pharmacy technician training curricula and to support the ASHP model curriculum Review of Mathematics Systems of Measurement Preparing for Problem Solving in Pharmacy Dosing Calculations and Other Pharmacy Problems Key features throughout the book include Chapter objectives Key terms and definitions Examples of problem scenarios or calculations questions and solutions Tech Note provides a highlight of key points within the chapters Numbers at Work illustrates why key concepts are important to know and skills are critical to master Practice problems A test bank Appendices that include the parts of a prescription a glossary of terms conversions and abbreviations tables For additional resources related to this book visit [www ashp org techcalculations](http://www.ashp.org/techcalculations)

Fundamental Formulas for Pharmacy Techs: A Complete and Simple Guide to Every Calculation a Pharmacy Technician Must Make Daily Vanessa Walker Rph,2015-08-25 Written by a Pharmacist with 17 years of experience in the field along with 10 years of experience teaching training and developing Pharmacy Technicians the first book in this series handles one of the more challenging areas of Pharmacy The reader will learn how to apply mathematical principles to solve Calculations problems that range from simple to complex You ll find this to be an quite valuable resource for Pharmacy Technicians [Pharmacy Calculations for Pharmacy Technicians](#)

Bradley Wojcik,2018-01-08 Are you a pharmacy technician or pharmacy technician student who wants to learn a few simple methods of solving pharmacy calculations without a bunch of formulas Would you like to raise your hand in Pharmacy Calculations Class after the instructor explains a complicated formula and ask to approach the white board to show the class a much simpler method Do you want to go out on your externship and teach practicing pharmacy technicians how to perform pharmacy calculations Do you want to walk into your Pharmacy Calculations Class on the first day knowing that you can ace all the tests before the course begins If you answered yes to any of these questions this book is for you The book s first chapter covers the following auxiliary subjects which are important to a well rounded knowledge of pharmacy calculations Rounding Numbers Roman Numerals The Metric System Scientific Notation Significant Figures Percent Error The

Apothecary Avoirdupois Household Systems The second chapter will teach you that all the following types of calculations can be performed with one simple method If you can convert 5 g to mg using this method you can solve the most complicated IV flow rate problem Unit Conversions Dosage Calculations IV Flow Rate Calculations Percent Calculations Percent Strength Calculations Ratio Strength Calculations Quantity to Dispense Calculations Milliequivalent Calculations The third chapter covers concentrations and dilutions While there is not one method of solving all these problems you will quickly see that they all have common components Topics covered are Preparing a Solution Using Two Different Strength Solutions Preparing a Solution from a Stock Solution and a Diluent Calculating the Percent Strength of a Mixture Powder Volume Calculations Serial Dilution The book includes plenty of exercises to hone your skills along with a self assessment exercise Finally the book ends with a couple of Pharmacy Calculation Puzzles These puzzles are for those students who want to say to themselves If I can solve these I can solve any possible problem I will encounter

Essential Math and Calculations for Pharmacy Technicians Indra K. Reddy, Mansoor A. Khan, 2017-09-06 Accurately calculating medication dosages is a critical element in pharmaceutical care that directly affects optimal patient outcomes Unfortunately medication dosage errors happen in pharmacies in hospitals or even at home or in homecare settings everyday In extreme cases even minor dosage errors can have dire consequences Careful calculations are essential to providing optimal medical and pharmaceutical care Essential Math and Calculations for Pharmacy Technicians fills the need for a basic reference that students and professionals can use to help them understand and perform accurate calculations Organized in a natural progression from the basic to the complex the book includes Roman and Arabic Numerals Fractions and decimals Ratios proportions and percentages Systems of measurement including household conversions Interpretation of medication orders Isotonicity pH buffers and reconstitutions Intravenous flow rates Insulin and Heparin products Pediatric dosage Business math Packed with numerous solved examples and practice problems the book presents the math in a step by step style that allows readers to quickly grasp concepts The authors explain the fundamentals simply and clearly and include ample practice problems that help readers become proficient The focus on critical thinking real life problem scenarios and the self test format make Essential Math and Calculations for Pharmacy Technicians an indispensable learning tool

Pharmaceutical Calculations for Pharmacy Technicians Professor Eastern Florida State College Jahangir Moini, 2012-05 Math is a critical element of pharmaceutical care and a sound knowledge of math concepts is key to succeeding as a pharmacy technician PHARMACEUTICAL CALCULATIONS FOR PHARMACY TECHNICIANS A WORKTEXT 2E International Edition provides an effective hands on guide to essential math skills from simple addition and subtraction to formulas used in dosage calculations and basic business math This highly practical reference helps you develop strong math skills to perform accurate calculations with confidence and prevent medication errors In addition to informative content the book includes abundant examples of medication labels medical forms and other images to help you apply your professional skills in real life situations Now

thoroughly updated this edition is more useful than ever providing an invaluable resource for students and professional pharmacy technicians alike Pharmaceutical Calculations for Pharmacy Technicians Jahangir Moini,2006-06 Math is at the heart of pharmaceutical care A sound knowledge of math concepts is critical to the success of the Pharmacy Technician Pharmaceutical Calculations for The Pharmacy Technician focuses on dosage calculations and basic math skills from simple addition and subtraction to formulas used in dosage calculations to business math concepts Accuracy in calculations will guide the Pharmacy Technician in the prevention of medication errors From Doody s Book Review This book is innovative and a perfect learning tool It is one of the first books to acknowledge the importance of a pharmacy technician s job and prepares the student for work in a pharmacy by relating the material to real life experiences It is the first book I have seen to include so many pictures of labels taken directly from manufacturers and forms taken directly from hospitals This is invaluable exposure to what the technicians will see once they are in the working world This book prepares pharmacy technicians for the responsibility of ensuring a safe healthcare environment by avoiding medication errors Reviewed by Lindsay I Varga Temple University School of Pharmacy Weighted Numerical Score 100 *Math Calculations for Pharmacy Technicians* Elaine Beale RPh,2018-02-13 Math for Pharmacy Technicians Lorraine Zentz,2010-08-15 Math for Pharmacy Technicians is an introductory text covering the key math skills needed for Pharmacy Technicians This text is an essential resource for both Pharmacy Technician students and practicing Pharmacy Technicians Presented in a simple and clear manner students will find numerous solved problems and a step by step format that allows for quick comprehension Key features include practice problems with answers written procedures boxes with tips exercises and chapter quizzes to reinforce student learning Instructor Resources PowerPoints and Pre and Post Test Answers Student Resources Companion Website **Pharmacy Technician Certified Board Comprehensive Pharmacy Math** Anne Yen Nguyen,2019-08-08 The Ultimate Pharmacy Math Book is primarily designed to assist students to reinforce and strengthen their skills in pharmacy math in order to pass the nationally Certified Pharmacy Technician Board exam but this may also serve as an excellent refresher guide for new or experience pharmacists Comprised of sixteen short chapters covering all different areas of pharmacy math this textbook provides instruction and information for all the possible pharmacy math questions found on the Certified Pharmacy Technician Board exam The material in this textbook provides a comprehensive review that instructs and covers all aspects of pharmaceutical related mathematical calculations and formulas such as the conversion of medications from adult to children s dosages understanding and utilizing the alligation method to determine ratio and percentage strength for prescriptions determining the IV flow rate calculations for solutions administered over a period of time and appropriate temperature conversion for both Fahrenheit and Celsius In addition to the more direct aspects this comprehensive guide also includes other practical pharmacy related information such as how to recognize a valid DEA number and calculate a health care provider s DEA check digit or calculating the percentage for markup when selling a

prescription drug and monitoring profit for a pharmacy business To supplement their study opportunity students buying this textbook should also plan on attending the corresponding Certified Pharmacy Technician Board preparation classes sponsored by the author see class schedules through our web site at www.ptcbprep.com In these classes our certified instructor s will thoroughly review all material in this textbook as well as providing one on one interaction and answering any questions

Pharmacy Calculation Workbook: 250 Questions to Prepare for the NAPLEX and PTCB Exam Coventry House Publishing,2019-06-11 The Pharmacy Calculation Workbook provides 250 calculation questions to prepare for the demanding NAPLEX and PTCB Exam Master exam topics with intensive practice in the areas you ll find on the test All questions are test level difficulty and focused solely on helping you pass Whether you re challenging the exam for the first time or trying again after an unsuccessful attempt you will learn the critical skills needed to master the exam Included are practice questions for the following topics Calculation Fundamentals Dilutions and Concentrations Density and Specific Gravity Patient Specific Dosing Intravenous Infusions and Flow Rates Compounding Reducing and Enlarging Formulas Expressions of Concentration Electrolyte Solutions Nutrition Support Isotonic and Buffer Solutions Pharmaceutical Conversions

Math for the Pharmacy Technician Lynn M. Egler,Kathryn A. Booth,2010 [Pharmacy Calculations 6th Edition](#) Mary F. Powers,David R. Bright,2020-01-01 Pharmacy Calculations 6e provides pharmacy technician students and professionals with the tools necessary to learn the types of calculations commonly encountered in community and institutional pharmacy The content of Pharmacy Calculations 6e includes material covering the knowledge areas within the Pharmacy Technician Certification Exam PTCE and Exam for Certification of Pharmacy Technicians ExCPT This book is clearly written accurate and easy to understand It can be used in a classroom setting or for independent study to develop a careful and systematic approach to pharmacy calculations and can be used as a study aid for the PTCE and ExCPT exams It aligns with the Fifth Edition of the American Society of Health System Pharmacists ASHP Model Curriculum for Pharmacy Technician Education and Training Programs and the 2020 content outline for the Pharmacy Technician Certification Examination PTCE

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