



PHARMACOKINETIC CALCULATIONS

DOSING ADMINISTRATION

- **Loading Dose**
 - ✓ Used to quickly achieve a high plasma concentration.
- **Volume of Distribution**
 - ✓ Volume of tissue into which a drug distributes to reach a target concentration.
- **Maintenance Dose**
 - ✓ Dose required to maintain a target plasma concentration.
- **CLEARANCE**
 - ✓ Amount of blood cleared of drug per unit of time.



Loading Dose

$$\text{Loading dose} = \frac{V_d \times TC}{F}$$

DISTRIBUTION X CONCENTRATION

$$\text{Mass (mg)} = \frac{\text{Volume (L)} \times \frac{\text{Mass (mg)}}{\text{Blood (L)}}}{\text{Percentage (\%)}}$$

$$\text{Mass (mg)} = \frac{50\cancel{\text{L}} \times 5\text{ mg}\cancel{\text{L}}}{0.50}$$

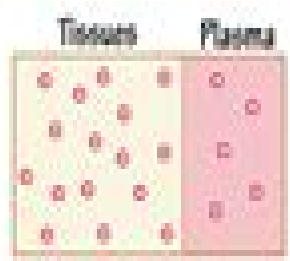
500 mg

Volume of Distribution

$$\text{Dose} = \frac{V_d \times TC}{F}$$

$$\frac{F \times \text{Dose}}{TC} = V_d$$

$$\frac{0.50 \times 500\text{mg}}{5\text{mg/L}} = 50\text{L}$$



- | | |
|--|---|
| <p>↑ V_d</p> <ul style="list-style-type: none"> Small size Lipophilic Tissue protein bound | <p>↓ V_d</p> <ul style="list-style-type: none"> Large size Charged Plasma protein bound |
|--|---|



Maintenance Dose

$$\text{Maintenance dose} = \frac{(CL \times TC)}{F} \times \tau$$

DOSING RATE X DOSING INTERVAL

$$\frac{\text{Mass (mg)}}{\text{Time (h)}} = \frac{\frac{\text{Blood (L)}}{\text{Time (h)}} \times \frac{\text{Mass (mg)}}{\text{Blood (L)}}}{\text{Percentage (\%)}} \times \text{Time (h)}$$

$$\frac{\text{Mass (mg)}}{\text{Time (h)}} = \frac{2\cancel{\text{L}}\text{h} \times 5\text{ mg}\cancel{\text{L}}}{0.50}$$

$$20\text{ mg/h} \times 12\text{h} = 240\text{ mg q 12 hours}$$

Clearance

$$\text{Dose} = \frac{(CL \times TC)}{F} \times \tau$$

$$\frac{\text{Dose}}{\tau \times C} = CL$$

$$\frac{240\text{mg}}{12\text{h} \times 5\text{mg/L}} = 4\text{L/h}$$

Abbreviations

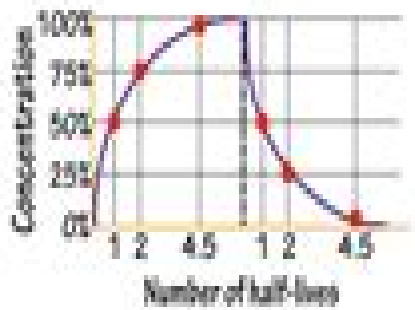
- V_d - Volume of Distribution
- TC - Target Plasma Concentration
- F - Bioavailability
- CL - Clearance
- τ - Dosing Interval

Half-Life

$$T_{1/2} = \frac{0.69 \times V_d}{CL}$$

TIME FOR DRUG TO REDUCE BY 50%

$$8.63\text{h} = \frac{0.69 \times 50\cancel{\text{L}}}{4\cancel{\text{L}}\text{h}}$$



Pharmacology Calculations Workbooks

John England



Pharmacology Calculations Workbooks:

Pharmaceutical Calculations Workbook Judith A. Rees, Ian Smith, 2006 Pharmaceutical Calculations Workbook is the companion self study aid to Introduction to Pharmaceutical Calculations 2nd edn It contains practice calculations with answers similar to those that might be presented in pharmacy examinations and in practice Each chapter contains a variety of exercises for practising calculations using the methods covered in the companion text Tables for completion are included in addition to individual drug or patient specific questions Topics covered include rational numbers systems of units concentrations dilutions formulations doses density displacement volumes and values molecular weights and parenteral solutions This workbook will be invaluable to pharmacy undergraduates and preregistration trainees and pharmacy technicians as well as others who want to practise basic pharmaceutical calculations

Drug Calculation Workbook John England, 2018-10-03 Drug Calculations Workbook provides the reader with further examples of drug calculation problems as described and discussed in the accompanying textbook Basic Drug Calculations John England Amazon Publishing Aimed at all healthcare professionals such as nurses doctors paramedics and perioperative technicians and practitioners the subject matter is highly relevant and addresses the need to practise typical drug calculation problems from the most basic up to problems which might be considered at an intermediate level of difficulty and of a type likely to be encountered on interview drug calculation assessment tests More advanced types of drug calculation such as molar measurements are not addressed here Instead they can be found in my other publication Pass Your Drug Calculation Test John England Amazon Publishing

Workbook for Pharmacology: Principles and Applications Eugenia M. Fulcher, Robert M. Fulcher, Cathy Dubeansky Soto, 2011-10-26 Expanded exercises throughout the book include several new math exercises

The Pharmacy Calculations Workbook Dr. Murali Ramanathan, 2008-09 The Pharmacy Calculations Workbook is a state of the art workbook with hundreds of problems It is unique because prescription based problems are used to develop pharmaceutical and dosing calculations skills It is intended to be useful to pharmacy pharmaceutical sciences pharmacology nursing pharmacy technicians physician assistants and to pre pharmacy and pre med students looking ahead to their professional program It will also be useful to pharmacy graduates as refresher material when preparing for Board exams and licensure The homepage for the The Pharmacy Calculations Workbook is www.pharmacycalculations.org Educators can request a desk copy by emailing Dr Ramanathan at Murali@BuffaloEdu

Dosage Calculations Matt Clark, 2019

Nursing Dosage Calculation Workbook: 24 Categories of Problems from Basic to Advanced! Chase Hassen, Bradley J. Wojcik, 2019-03-10 Are you a nursing student or nurse who has the basics of dosage calculations down and wants to take your abilities to the next level If so this book is for you Although his book is intended to be used as an advanced workbook supplement to Wojcik B Hassen C 2018 Dosage calculations for nursing students Master dosage calculations in 24 hours the safe easy way without formulas ISBN 9781725638839 it will benefit anyone who has a basic knowledge of dosage

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students understanding and instill a sense of confidence as they learn to master these most critical medical skills

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