

New Publications

Nonprescription Drugs for the Breastfeeding Mother

By Frank J Nice RPh DPA CPHP. Published by Hale Publishing, Amarillo, TX, 2007. ISBN 978-0-9772268-8-7. Paperbound, xv + 96 pp. (21.5 × 14 cm), \$19.95. www.ibreastfeeding.com

Therapeutic Area: This book covers the subject of nonprescription drugs during lactation.

Audience: The text is directed toward healthcare professionals and breast-feeding mothers.

Purpose: This is a quick reference guide regarding the relative safety of commonly used over-the-counter (OTC) medications and supplements.

Content: The book primarily comprises tables listing more than 1400 nonprescription drugs and supplements. The tables are organized by indication (eg, analgesics, cold and allergy). Included in each table is a list of commonly used OTC medications, ingredients for combination products, and a Y (indicating usually safe to take when breast-feeding) or an N (avoid if at all possible while breast-feeding). Additionally, Hale Risk Categories are included, ranging from L1 (safest) to L5 (contraindicated) for each product. The last section in the book provides general guidelines for herbal use during breast-feeding, including a table listing contraindicated herbal products, with suggested herbal alternatives.

Usability: The products included in the book were based on the 2000 *Physician's Desk Reference for Nonprescription Drugs*; the list was updated and/or revised with products listed in the 2003 and 2007 versions. The author also included additional commonly used nonprescription drugs. While the preface states that the tables were reviewed by other experienced clinicians in the field, the sources used to determine the safety categories are not explicitly named. Hale's Lactation Risk Categories are included. While this appears to be a potentially helpful guide, similar references of this caliber are slightly less expensive.

Highlights: This reference guide, which is very easy to use, provides information regarding the relative safety of combination products.

Limitations: The book does not provide any references to support the recommendations provided.

Comparison with Other Related Books: Books such as *Drugs in Pregnancy and Lactation: A Reference Guide to Fetal and Neonatal Risk and Medications and Mothers' Milk* are much more comprehensive drug and lactation references. At a slightly higher cost (approximately \$10), Dr. Hale's book provides clinicians with a much more comprehensive review of the relative risks of both prescription and nonprescription drugs in lactation.

Reviewer's Summary: While *Nonprescription Drugs for the Breastfeeding Mother* does provide very easy-to-use tables, clinicians will need a more comprehensive reference to make educated decisions regarding the use of nonprescription drugs or supplements during lactation. Therefore, this book will likely serve as a companion reference for most clinicians. However, it may be a useful resource in a busy community pharmacy practice setting or for the breast-feeding mother to use when a healthcare provider is unavailable.

Reviewer: Tawny L Bettinger PharmD BCPP, Pharmacy Site Manager, Seton Shoal Creek Hospital, Austin, TX, and Adjunct Assistant Professor, College of Pharmacy, The University of Texas at Austin, Austin, TX

Pharmaceutical Dosage Forms and Drug Delivery Series: Pharmacy Education Series Volume: 24

By Ram I Mahato PhD. Published by CRC Press, an imprint of Taylor & Francis Group, Boca Raton, FL, 2007. ISBN 978-0-8493-9285-6. Clothbound, xxxi + 300 pp. (24.5 × 16 cm), \$79.95. www.crcpress.com

Therapeutic Area: This textbook is designed as an introduction to basic principles of pharmaceuticals, dosage form design, and drug delivery.

Format: This clothbound book contains 22 chapters and an index. Each chapter includes learning ob-

jectives, an introduction, review questions, and a bibliography.

Audience: The material is designed for use by undergraduate pharmacy students in an integrated pharmaceuticals course.

Purpose: There are numerous texts that cover various aspects of the discipline of pharmaceuticals but no single source covers all aspects of modern pharmaceuticals pertinent to the PharmD student. This text provides a single source of information covering basic physicochemical properties, pharmaceutical principles, biopharmaceutics, dosage form design, and drug delivery. Additionally, the authors discuss properties of biomolecules and biotechnology-based dosage forms. No information regarding compounded dosage forms is included.

Content: The introductory chapter provides a general overview of drug discovery and development, while the second chapter gives an unfocused overview of formulations and parameters that affect solubility, with an emphasis on pH-partition theory. Chapter 3 summarizes physicochemical and physiological parameters that affect drug availability; this chapter mixes discussions on Fick's Law, Noyes-Whitney, and mechanisms for drug absorption. The next 6 chapters focus on physical pharmacy topics including complexation, protein binding, chemical kinetics, degradation, interfacial phenomena, rheology, dispersion systems, surfactants, and micelles. The text then switches gears, with 7 chapters dedicated to discussions of various dosage forms, including suspensions, emulsions, solutions, tablets, capsules, injectables, and semisolid dosage forms. Chapter 17 discusses miscellaneous dosage forms such as suppositories, implants, inserts, aerosols, and transdermal patches. Polymers and their characteristics are reviewed in Chapter 18; this information provides a foundation for the discussion of drug delivery systems in Chapter 19. Chapters 20 and 21 are dedicated to discussions of biomolecules and biotechnology-dosage forms. The final chapter provides the answers to the review questions found in Chapters 1–21. In addition to learning objectives, review questions, and bibliographies, each chapter contains graphs, tables, and some figures. Equations, variables, and some example problems are also included.

Usability: This book is too superficial to be used as the sole text for teaching pharmaceuticals to PharmD students. The inclusion of topics on biomolecules and biotechnology may be an improvement over other texts, but lack of information regarding compounding and inadequate information regarding sterile products severely limit the usefulness of this book. Not only would instructors need to provide supplemental information, but students would be frustrated with the book's disorganization, lack of practice problems, vocabulary misuse, and errors (noted further in the Limitations section).

Highlights: The chapters on characteristics of peptides, proteins, and biomolecules and their unique formulation issues are important features. There is also a good discussion of polymers and drug delivery systems.

Limitations: The purpose of the book and the proposed topics are great, but the concept was not well implemented; the learning objectives, the topics covered in the chapter, and the review questions are not consistent with each other. For example, answers for some review questions are not found in the chapter. Many topics are covered too superficially or are not put into a useful context. There are several lists that inappropriately mix physiological and physicochemical parameters. Simple and technical terms are used incorrectly or introduced without definition. Numerous errors and inappropriate abbreviations were noted. Equations and calculations are introduced without sufficient examples or practice problems. More figures, pictures, and practice problems should have been included.

Comparison with Other Related Books or Products: Although this text contains some added topics beneficial for today's pharmacy students, the weaknesses outweigh the benefits. *Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems* with supplementation is still a better option.

Reviewer's Summary: Although there are unique chapters that touch on newer technologies and biotechnology, I do not recommend this text for pharmacy students. The disorganization, lack of depth, errors, and insufficient sample problems are inadequate for both student and faculty.

Reviewer: Kathy D Webster PharmD PhD, Assistant Dean, Chair of Pharmaceutical Sciences and Professor, Feik School of Pharmacy, University of Incarnate Word, San Antonio, TX

Suppositories

By Loyd V Allen Jr PhD, with contributions by Dennis B Worthen PhD and Bill Mink BSc. Published by Pharmaceutical Press, an imprint of RPS Publishing, London, UK, 2008. ISBN 978-0-85369-646-9. Cloth-bound, ix + 245 pp. (25.5 × 19.5 cm), \$170 .
www.pharmpress.com

Therapeutic Area: This text is a comprehensive review of suppositories as a formulation and a dosage form.

Format: *Suppositories* is a hardcover text that includes tables, figures, drawings, and pictures in an easily read font style.

Audience: The author considers this reference book essential to "...those involved in formulation, development, manufacture, and testing of suppositories." An obvious market is, therefore, any person involved

in the manufacture of this dosage form; compounding pharmacists, pharmacy school faculty, and some hospital pharmacists will also use it as a reference. Libraries with pharmacy/pharmaceutical science reference texts should have it in their inventory. It is unlikely that this text would be required for pharmacy students.

Purpose: This book is intended to be a single, up-to-date reference on suppositories and would be expected to be available in pharmacy school libraries and offices of pharmaceuticals faculty and industry scientists.

Content: Arranged in a logical manner, this text consists of 12 chapters and 4 appendices. A short introductory chapter is followed by a brief history of the suppository, with interesting sketches of early equipment used. Different suppository bases are described next, followed by chapters on suppository biopharmaceutical factors and formulation considerations. Two tables summarize biopharmaceutical and pharmacokinetic data dealing with suppositories, and a review of a number of drugs administered as suppositories and formulations is provided, with extensive referencing. This material may serve as a good reference but may not have much practical use due to the specificity of the drugs and formulations reviewed. A brief review of manufacturing processes is followed by a very good description of the extemporaneous compounding of suppositories. A chapter on quality control of suppositories is well written, with excellent drawings and pictures of equipment utilized. The topics of packaging and labeling, as well as stability and storage, are adequately covered. A chapter on clinical considerations contains a section on contemporary studies of clinical effectiveness, with a survey of literature reports arranged by drug name. Although this section illustrates the breadth of use of suppository formulations and the different levels of treatment success, it has limited practical usefulness. Appendices to the book include a glossary of terms, a number of compounding formulas, samples of manufacturing formulas, and a calculations review of density factors and examples used to calculate the amount of base and active ingredient used in preparing suppositories. This latter appendix on calculations should have been incorporated into the body of the text, probably in the compound suppository chapter.

Usability: References for most items in the book were restricted to the past 25 years and are extensive and current. The book is not inexpensive but would seem to be in the range of similar specialty references, especially considering that the intended audience is professionals in the field and would probably not include students.

Highlights: This comprehensive volume on suppositories is well written and easily understood. The introduction and history chapters are pleasant reads for even the casual consumer. The publisher has laid

out the text in clearly defined topic areas in each chapter, the artwork is very credible, and the type font and style make it readable. It will be my single resource to answer any question regarding suppositories.

Limitations: The specificity of the topic may limit the usefulness of the book to populations other than the stated target groups. In other words, it is unlikely that the user base would expand to pharmacy or nursing students, for example.

Comparison with Other Related Books or Products: Many texts or official compendia contain information about the suppository, yet it is my opinion that no other text exists that brings all of the information together as this book does. It does appear that it will fill a niche for scientists and professionals who work in or have interest in this specific area.

Reviewer's Summary: *Suppositories* is a reference for pharmaceuticals and industrial pharmacy professors, to be used in lectures and presentations, and for industry personnel working in this field, as was the stated intent of the author. It is likely that libraries associated with pharmacy schools will be asked to make the book available in the reference section. In summary, this book is well written, easy to read, and covers the subject quite well. Although likely to be attractive to the intended audience, it will probably be utilized little by pharmacy students or general pharmacy practitioners.

Reviewer: Robert B Greenwood RPh PhD, Professor of Pharmaceutical Sciences, Director of the Bachelor's and Master's Programs in Pharmaceutical Sciences, School of Pharmacy, Campbell University, Buies Creek, NC.

BOOKS RECEIVED

Drug Information Handbook: A Comprehensive Resource for All Clinicians and Healthcare Professionals, 17th Edition. Edited by Charles F Lacy RPh MS PharmD FCSHP, Lora L Armstrong RPh PharmD BCPS, Morton P Goldman RPh PharmD BCPS FCCP, and Leonard L Lance RPh BSPHarm. Published by Lexi-Comp, Hudson, OH, 2008. ISBN 978-1-59195-236-7. Paperbound, 1938 pp. (23 × 15.5 cm), \$59.95. www.lexi.com

Drugs in Pregnancy and Lactation: A Reference Guide to Fetal and Neonatal Risk, 8th Edition. By Gerald G Briggs BPharm FCCP, Roger K Freeman MD, and Sumner J Yaffe MD. Published by Lippincott Williams & Wilkins, a Wolters Kluwer business, Philadelphia, PA, 2008. ISBN 978-0-7817-7876-3. Clothbound, xxiv + 2117 pp. (26 × 18.5 cm), \$129. www.LWW.com

Essentials of Cultural Competence in Pharmacy Practice. Edited by Kimberly Vess Halbur EdD,

and Duane A Halbur PhD. Published by the American Pharmacists Association, Washington, DC, 2008. ISBN 978-1-58212-113-0. Paperbound, xiv + 341 pp. (23 × 15 cm), \$35.95. www.pharmacist.com

Mood Disorders: A Practical Guide, 2nd Edition.

By S Nassir Ghaemi MD MPH. Published by Lippincott Williams & Wilkins, A Wolters Kluwer business, Philadelphia, PA, 2008. ISBN 978-0-7817-6763-7. Paperbound, viii + 348 pp. (198 × 11.5 cm), \$42.95. www.LWW.com

Pharmacology for Pharmacy Technicians. By Kathy Moscou RPh MPH, and Karen R Snipe CPhT MEd. Published by Mosby Inc., an affiliate of Elsevier Inc., St Louis, MO, 2009. ISBN 978-0-323-04720-3. Paperbound, xiv + 759 pp. (27.5 × 21.5 cm), \$62.95, CD-ROM included. www.elsevierhealth.com

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Intracoronary Vasodilators

ANSWER SHEET
Issue: July/August 2008
407-000-08-053-H01-P
1.5 hour (0.15 CEUs)
Expires: 8/31/11

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5	4	3 2 1
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Safety of PPIs in the Elderly

ANSWER SHEET
Issue: July/August 2008
407-000-08-054-H01-P
1.0 hour (0.1 CEUs)
Expires: 8/31/11

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DEFINITELY USEFUL	SOMEWHAT USEFUL	OF NO USE
5	4	3 2 1
 4. Overall, rate the quality of this test.

EXCELLENT	SATISFACTORY	POOR
5	4	3 2 1
- Any additional comments/suggestions?

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