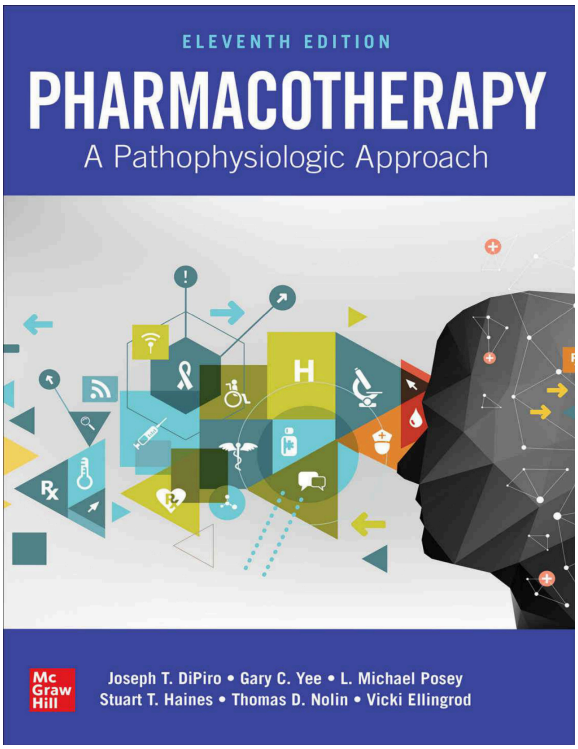

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or scan the QR code to access the digital study portal.

readers are advised to check the product information sheet included in the package of each drug they plan to administer to be certain that the information contained in this work is accurate and that changes have not been made in the recommended dose or in the contraindications for administration. This recommendation is of particular importance in connection with new or infrequently used drugs.

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Dedication

To our patients and students, who have challenged and inspired us and given meaning to all our endeavors.

To practitioners who continue to improve patient health outcomes and thereby serve as role models for their colleagues and students while clinging tenaciously to the highest standards of practice.

To our mentors, whose vision provided educational and training programs that encouraged our professional growth and challenged us to be innovators in our patient care, research, and education.

To our faculty colleagues for their efforts and support for our mission to provide a comprehensive and challenging educational foundation for the pharmacists of the future.

And finally to our families for the time that they have sacrificed so that this 11th edition would become a reality.

—The Editors

In Memoriam—Brian S. Decker, MD, PharmD, MS

Brian S. Decker (1963-2018), a coauthor of the "Hemodialysis and Peritoneal Dialysis" chapter in *Pharmacotherapy* since its eighth edition in 2012, received his BS in Wildlife Sciences and Pharmacy and PharmD degrees from Purdue University. He received his MD degree from Indiana University School of Medicine in 2003, and he completed a residency in Internal Medicine and Fellowships in Nephrology and Clinical Pharmacology at IU.

In 2007, Brian joined the faculty in the Indiana University School of Medicine in the Divisions of Nephrology and Clinical Pharmacology, and he simultaneously served as an Affiliate Faculty member in the Purdue University College of Pharmacy. During his time as a faculty member, he earned a MS in clinical research. Brian was an avid teacher of nephrology, pharmacology, and pharmacogenomics to trainees from both IU and Purdue.

Brian directed the Nephrology Fellowship Training Program, fostered Nephrology student interest groups, and was an active member of the IU Academy of Teaching Scholars. He was also very active locally and nationally in Nephrology and Pharmacology societies and in the local community.

Brian's knowledge of pharmacy and medicine was evident through his ability to further our understanding of nephrology. His unique perspective was apparent in his contribution to the Hemodialysis and Peritoneal Dialysis chapter where he provided key treatment details in a manner that was understandable and clinically relevant. As his coauthors, we will miss his knowledge, clinical experience, and perspective.

Kevin M. Sowinski, PharmD, FCCP
Mariann D. Churchwell, PharmD, FCCP

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