

# CENTRAL NERVOUS SYSTEM III PANEL

---

## Series Editors:

**John E. Murphy, Pharm.D., FCCP, FASHP**  
*Professor of Pharmacy Practice and Science*  
*Associate Dean for Academic Affairs and Assessment*  
University of Arizona College of Pharmacy  
Tucson, Arizona

**Mary Wun-Len Lee, Pharm.D., FCCP, BCPS**  
*Vice President and Chief Academic Officer*  
Pharmacy and Optometry Education  
Midwestern University  
*Professor of Pharmacy Practice*  
Midwestern University  
Chicago College of Pharmacy  
Downers Grove, Illinois

## Faculty Panel Chair

Timothy E. Welty, Pharm.D., FCCP, BCPS  
*Professor and Chair*  
*Department of Clinical Sciences*  
College of Pharmacy and Health Sciences  
Drake University  
Des Moines, Iowa

## NEUROREHABILITATION

### Authors

Dehuti A. Pandya, Pharm.D., BCPS  
*Clinical Specialist III, Brain Injury,*  
*Stroke and Spinal Cord Program*  
Department of Pharmacy  
TIRR Memorial Hermann  
Houston, Texas

Christine E. Huls, Pharm.D., BCPS  
*Clinical Pharmacist II Internal Medicine*  
*Pharmacy Residency Coordinator*  
Department of Pharmacy  
*Research Pharmacist*  
Department of Pharmacy - Pharmacy  
Research Services  
CHI St Luke's Health Baylor St Luke's Medical Center  
Houston, Texas

## Reviewers

Michele Y. Splinter, Pharm.D., FCCP, BCPS  
*Associate Professor*  
Department of Pharmacy: Clinical  
and Administrative Sciences  
University of Oklahoma Health Sciences  
Center, College of Pharmacy  
Oklahoma City, Oklahoma

Jolie Jantz, Pharm.D., BCPS  
*Clinical Assistant Professor*  
Department of Pharmacy Practice  
Idaho State University  
Coeur d'Alene, Idaho

## MULTIPLE SCLEROSIS

### Author

Shilpa Anil Kinikar, Pharm.D., BCPS  
*Clinical Pharmacy Specialist*  
Department of Neurology  
Kaiser Permanente Colorado  
Denver, Colorado

## Reviewers

Douglas R. Allington, Pharm.D., BCPS  
*Professor*  
Department of Pharmacy Practice  
University of Montana, Skaggs School of Pharmacy  
Missoula, Montana

Michael P. Rivey, MS, BCPS, FASHP, CPP  
*Professor*  
*Chair of Pharmacy Practice*  
Department of Pharmacy Practice  
University of Montana, Skaggs School of Pharmacy  
Missoula, Montana

## MOVEMENT DISORDERS

### Authors

Robin N. Hieber, Pharm.D., BCPP  
*Clinical Pharmacy Specialist, Mental Health*  
Department of Pharmacy  
Captain James A. Lovell Federal Health Care Center  
North Chicago, Illinois

Jacquelyn E. Canning, Pharm.D., BCPP  
*Assistant Professor*  
Department of Pharmacy Practice  
Albany College of Pharmacy and Health Sciences  
Albany, New York

### **Reviewers**

Marketa Marvanova, Pharm.D., Ph.D., BCPP, CGP  
*Chair*  
*Associate Professor of Pharmacy Practice*  
Pharmacy Practice Department  
North Dakota State University,  
College of Health Professions  
Fargo, North Dakota  
*Adjunct Associate Professor of Neurology*  
Department of Neurology  
Northwestern University Feinberg School of Medicine  
Chicago, Illinois

Eric Magnan, Pharm.D., BCPS  
*Clinical Pharmacist*  
Pharmacy Department  
Henry Ford Hospital  
Detroit, Michigan

Kyle Melin, Pharm.D., BCPS  
*Assistant Professor of Pharmacy Practice*  
School of Pharmacy  
Medical Sciences Campus -University of Puerto Rico  
San Juan, Puerto Rico

The American College of Clinical Pharmacy and the authors thank the following individuals for their careful review of the Central Nervous System III chapters:

Mary Wun-Len Lee, Pharm.D., FCCP, BCPS  
*Vice President and Chief Academic Officer*  
Pharmacy and Optometry Education  
Midwestern University  
*Professor of Pharmacy Practice*  
Midwestern University  
Chicago College of Pharmacy  
Downers Grove, Illinois

Marianne McCollum, Ph.D., BSPHarm, BCPS  
*Assistant Dean for Assessment*  
School of Pharmacy  
Rueckert-Hartman College for Health Professions  
Regis University  
Denver, Colorado

Jeffrey T. Sherer, Pharm.D., MPH, BCPS  
*Clinical Associate Professor*  
Department of Clinical Sciences and Administration  
University of Houston College of Pharmacy  
Houston, Texas

# DISCLOSURE OF POTENTIAL CONFLICTS OF INTEREST



**Consultancies:** Sara Dugan (Ohio Colleges of Medicine Government Resource Center); Shilpa Kinikar (Colorado Medicaid State Board Pharmacy and Therapeutics Committee); Eric Magnan (ACCP CODE Committee); Christopher Oswald (Idaho Society of Health-System Pharmacists); Stephen R. Saklad (Jazz, College of Psychiatric and Neurologic Pharmacists, College of Psychiatric and Neurologic Pharmacists Foundation)

**Stock Ownership:** Peter D. Anderson (Abbott, McKesson)

## **Royalties:**

**Grants:** Sara Dugan (Ohio Medicaid, Margaret Clark Morgan Foundation); Stephen R. Saklad (Cyberonics, Johnson & Johnson Pharmaceutical Research and Development); Amy B. Werremeyer (District V Board of Pharmacy/National Association of Boards of Pharmacy, American Association of Colleges of Pharmacy)

**Honoraria:** Robin N. Hieber (in 2 MedEd); Jean Y. Nam (Rosalind Franklin University); Megan E. Maroney (Pharmacy Times, Impact Education, LLC); Stephen R. Saklad (Forest, Otsuka, Sunovion); Nora Stelter (McKesson/Health Mart); Robert J. Weber (ASHP); Amy B. Werremeyer (University of Florida)

## **Other:**

**Nothing to disclose:** Douglas R. Allington; Erin M. Timpe Behnen; Michael C. Barros; Jacquelyn E. Canning; Agnes Chou; Justin W. Cole; Lisa T. Costanigro; Karan Dawson; Kristen L. DiDonato; Sandra L. DiScala; McKenzie C. Ferguson; Shauna Garris; Misty L. Gonzalez; Sarah E. Grady; Tamara M. Hammons; Kelli R. Hilvers; Christine E. Huls; Kyle E. Hultgren; Jolie Jantz; Kelly Killius; Davey Legendre; Michelle D. Lese; Donna Lisi; Mei T. Liu; Marketa Marvanova; Kyle Melin; Carol A. Ott; Dehuti A. Pandya; Monica A. Puebla; Julianne Ramirez; Michael P. Rivey; Stephanie N. Schatz; Monica L. Skomo; Michele Y. Splinter; John Tomko; Kathryn R. Tremolet de Villers; Amy M. VandenBerg; Pamela Lada Walker; Richard M. Williams; Michael Z. Wincor

**ROLE OF BPS:** The Board of Pharmacy Specialties (BPS) is an autonomous division of the American Pharmacists Association (APhA). BPS is totally separate and distinct from ACCP. The Board, through its specialty councils, is responsible for specialty examination content, administration, scoring, and all other aspects of its certification programs. PSAP has been approved by BPS for use in BCPS recertification. Information about the BPS recertification process is available at [www.bpsweb.org/recertification/general.cfm](http://www.bpsweb.org/recertification/general.cfm).

Other questions regarding recertification should be directed to:

Board of Pharmacy Specialties  
2215 Constitution Avenue NW  
Washington, DC 20037  
(202) 429-7591  
[www.bpsweb.org](http://www.bpsweb.org)