Welcome to the 2017 Annual Meeting of the Consortium of Multiple Sclerosis Centers. Included in this handout you will find credit information, learning objectives, and disclosure of financial relationships for faculty, planners, and reviewers.

### **ACCREDITATION/CREDIT DESIGNATION STATEMENTS**

In order to successfully complete this knowledge-based continuing education activity, the participant must register for the activity, attend the educational sessions, and complete the online evaluation and claim for credit. Detailed instructions are available at the CMSC Registration Desk and will be emailed to you after the meeting.

This live activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Consortium of Multiple Sclerosis Centers (CMSC), Nurse Practitioner Alternatives (NPA), and The France Foundation.

#### **PHYSICIANS**



MULTIPLE SCLEROSIS CENTERS The Consortium of Multiple Sclerosis Centers (CMSC) is accredited by the ACCME to provide continuing medical education for physicians.

The CMSC designates this live activity for a maximum of 21.25 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### PAs

The American Academy of Physician Assistants (AAPA) accepts certificates of participation for education activities certified for *AMA PRA Category 1 Credit(s)*<sup>TM</sup> from organizations accredited by ACCME.

#### **NURSES**



NPA Nurse Practitioner Alternatives (NPA) is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This activity is jointly provided by NPA, CMSC, and The France Foundation.

NPA designates this live activity for a maximum of 21.25 Continuing Nursing Education Credits.

Laurie Scudder, DNP, NP, has served as Nurse Planner for this activity. She has declared no relevant financial relationships with business and industry.

Code: CMSC052417

#### **PHARMACISTS**

The France Foundation is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education and will award up to 21.25 contact hours (2.13 CEUs) to pharmacists who (1) complete the activity and (2) submit a passing posttest (> 70%) and evaluation form via www.ff-ce.org. There is no fee to participate in this activity. This is a knowledge-based educational activity. The sessions offering ACPE credit are designated in a supplemental registration handout with a Universal Activity Number (UAN) and hours of credit, which is available at the CMSC Registration Desk. Your CE credits will be submitted electronically to the CPE Monitor. CE providers must upload participant information within 60 days from the date the participant completed the live activity. To ensure your credit fulfillment, you must submit your posttest, evaluation and credit request via <a href="www.ff-ce.org">www.ff-ce.org</a> NO LATER THAN July 10, 2017. Credit requests made more than 60 days after the activity WILL BE REJECTED BY CPE Monitor, and are beyond our control. For more information about CPE Monitor, visit <a href="http://www.nabp.net/programs/cpe-monitor/cpe-monitor-service/">http://www.nabp.net/programs/cpe-monitor/cpe-monitor-service/</a>.

#### **SOCIAL WORKERS**

This program is approved by the National Association of Social Workers (Approval #886535345-9404) for 20 continuing education contact hours.

#### **PSYCHOLOGISTS**

The Consortium of Multiple Sclerosis Centers is approved by the American Psychological Association to sponsor continuing education for psychologists. The Consortium of Multiple Sclerosis Centers maintains responsibility for this program and its content.

CMSC offers 45 total contact hours of continuing education in psychology over the course of this program. Because many accredited sessions are offered simultaneously, APA affiliated attendees may claim a maximum of 16.25 CE credits for their participation.

### **OCCUPATIONAL THERAPISTS**



The Consortium of Multiple Sclerosis Centers is approved by the American Occupational Therapy Association, Inc. (AOTA) as a provider of continuing occupational therapy education. The Consortium of Multiple Sclerosis Centers maintains responsibility for this program and its content.

CMSC offers more than 63 total contact hours of continuing education in Occupational Therapy over the course of this program. Because many accredited sessions are offered simultaneously, AOTA affiliated attendees may claim a maximum of 1.8 AOTA CEU's (18 contact hours) for this activity.

#### **CERTIFICATE OF PARTICIPATION**

A Certificate of Attendance will be given upon completion of course requirements enabling you to register your credit with the appropriate licensing boards or associations. You may apply for other accreditations using the procedure established by the specific organization.

#### COMMERCIAL SUPPORT ACKNOWLEDGEMENT

This live activity is supported in part by educational grants received from the following commercial entities:

- AbbVie Inc.
- Biogen
- Celgene Corporation

- Mylan, Inc.
- Teva Pharmaceuticals

### **TARGET AUDIENCE**

The target audience for the annual meeting includes all healthcare professionals, pharmacists, researchers, and advocates who are involved in multiple sclerosis care and research.

#### TRACK LEARNING OBJECTIVES

The CMSC Continuing Education Committee has identified educational gaps in nine content areas and has solicited educational sessions in each of these tracks. In addition to overall objectives, learning objectives specific to each of those tracks were developed.

### **Basic Science/Environmental Factors (SC)**

- Review the diagnostic criteria, phenotypes, and variants of MS to promote accurate diagnosis, initiation of appropriate therapy and monitoring of outcomes.
- Identify the roles and interactions of genetics and epigenetics, the microbiome, environmental factors, age, comorbidities, and risk behaviors as factors contributing to pathogenesis and the course of MS.

### Psychosocial: Cognition, Depression (CG)

- Appropriately integrate tools and strategies into patient assessment that improve the ability to differentiate between cognitive problems, depression, and related psychosocial issues.
- ldentify professional and community resources that support the work of the mental health team in providing comprehensive care to patients with MS.
- Incorporate information obtained through appropriate assessments into therapeutic plans of care for each identified area of concern.

## Comprehensive Care (CC)

- Examine the various models of care in MS and the roles and responsibilities of the team members in order to adapt the most appropriate model for a given practice setting.
- Integrate the complex processes that support the provision of comprehensive care in MS into effective practices and centers providing evidence-based MS care.

#### Disease Management (DX)

- Integrate information about the mechanisms underlying MS relapses, progression, and gray and white matter pathology as the basis for monitoring and treating the disease.
- > Summarize methods to monitor treatment outcomes including patient self-report, automated self-assessment, new clinician reported outcomes, imaging and biomarkers to optimize their utilization in clinical practice and research.

# TRACK LEARNING OBJECTIVES (Cont'd)

#### Nursing (RN)

- Analyze and integrate the conceptual framework under which MS nurses construct individualized interventions and monitor outcomes in the care of patients with MS.
- Evaluate current nursing practice in MS as compared to models of care utilized in a variety of settings in North America and internationally.
- Incorporate specific and evidence-based nursing skills into the development of plans for individualized care of patients and families affected by MS.

### Rehabilitation (RH)

- Integrate rehabilitative strategies into the multidisciplinary management of the sequelae of MS which promote improvements and optimize patients' function and quality of life.
- > Identify MS-specific screening techniques that facilitate individualized and targeted rehabilitation services.

#### Symptomatic Management (SX)

- Analyze common symptoms of MS and their appropriate pharmacologic and non-pharmacologic interventions in order to develop strategies designed to produce disease control and maximize function.
- Identify assessment techniques to isolate those factors that affect the manifestation of the complex symptomatology of MS and differentiate between acute and chronic MS symptoms.

### Skills Development (SK)

- > Critically examine how the expert patient, news media, and social media affect the relationships between patients with MS, healthcare professionals, and researchers.
- > Incorporate acquired information into professional practice skills that enhance comprehensive MS care and better serve patients, families, and colleagues.

## Research (RS)

- > Synthesize emerging data on treatment strategies, such as early treatment, switching therapies, treating to achieve No Evidence of Disease Activity (NEDA), personalized treatment, and post-marketing monitoring of safety and efficacy in order to promote continuing insights into disease pathology, course, and management.
- Review the design and outcomes of clinical trials in relapsing and progressive MS and disseminate this information to prepare clinicians to evaluate trial quality and, where appropriate, integrate findings into clinical practice.

## SESSIONS, CREDIT TYPES AND NUMBER OF CREDITS OFFERED

# Wednesday, May 24th

## John F. Kurtzke Memorial Lecture: MS Comprehensive Care-A Team Sport

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 0.75

#### **Clinical Course 1**

## MJ for MS?—An MS Health Professional's Guide to Cannabis-Part 1

Credit types: ACPE, APA, CME, CNE, NASW; Amount: 1.5

#### **Clincial Course 2**

## Review of Pharmacology Concepts Part 1: The Evoluation of Disease Modifying Therapies

Credit types: ACPE, CME, CNE; Amount: 1.5

#### **Clinical Course 3**

#### **Models of Rehabilitation Care**

Credit type: AOTA; Contact Hours: 1.5

### **Clinical Course 4**

### **Behavioral Medicine: Lifeline for MS**

Credit types: ACPE, APA, CME, CNE, NASW; Amount: 1.5

## **Clinical Courses 5**

### The Foundation of MS Nursing: Building your Practice-Part I

Credit type: CNE; Amount: 1.5

#### **Clinical Course 6**

## CMSC MRI Guidelines: A 2017 Update Credit types: CME, CNE; Amount: 1.5

#### **Clinical Course 7**

### **How to Perform the EDSS**

Credit types: CME, CNE; Amount: 1.5

### **Clinical Course 8**

### **Basic Immunology for the Non-Immunologist**

Credit types: ACPE, APA, CME, CNE; Amount: 1.5

### **Clinical Course 9**

## MJ for MS?—An MS Health Professional's Guide to Cannabis-Part 2

Credit types: ACPE, CME, CNE, NASW; Amount: 1.5

## **Clinical Course 10**

## **Review of Pharmacology Concepts Part 2: Beyond the DMTs**

Credit types: ACPE, CME, CNE; Amount: 1.5

#### **Clinical Course 11**

## Translating the Latest Motor Learning Evidence into Practice

Credit type: AOTA; Contact hours: 1.5

# Wednesday, May 24th (Cont'd)

**Clinical Course 12** 

There's an App for That: Novel Ways to Manage Symptoms of MS

Credit types: APA, CME, CNE, NASW; Amount: 1.5

**Clinical Course 13** 

The Foundation of MS Nursing: Building your Practice-Part 2

Credit type: CNE; Amount: 1.5

**Clinical Course 14** 

CMSC MRI Guidelines: A 2017 Update Credit types: CME, CNE; Amount: 1.5

**Clinical Course 15** 

**How to Perform the EDSS** 

Credit types: CME, CNE; Amount: 1.5

**Clinical Course 16** 

**Advanced Immunology for the Non-Immunologist** 

Credit types: ACPE, CME, CNE; Amount: 1.5

Meet the Professor Dinner: What is New in MS Treatment-The Benefits in Everyday Clinical Practice

Type of credit offered: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 1.0

Thursday, May 25th

Presidential Lecture: New McDonald Criteria

Credit types: ACPE, CME, CNE; Amount: 0.75

Fundamentals of MS Care: A Case-based Approach to Disease Management 2017 - Part 1

Credit types: ACPE, AOTA, CME, CNE, NASW; Amount: 2.75

Current Topics and Trends in MS Rehabilitation - Part 1

Credit types: AOTA, CME, NASW; Amount: 2.75

Core Concepts for the MS Nurse: International Case Based Perspectives

Credit types: ACPE, CNE; Amount: 2.5

Symposium 1

**CNS Repair and Ways to Measure It** 

Credit types: ACPE, CME, CNE; Amount: 2.5

Symposium 2

**Unique Wellness Approaches to Progressive MS** 

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Symposium 3

**Debates over Controversies in MS** 

Credit types: CME, CNE; Amount: 2.5

# Thursday, May 25th (Cont'd)

Symposium 4

Cognition in MS: Update on Assessment, Neuropathology and Rehabilitation

Credit types: AOTA, APA, CME, CNE, NASW; Amount: 2.5

Fundamentals of MS Care: A Case-based Approach to Disease Management 2017 - Part 2

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Current Topics and Trends in MS Rehabilitation - Part 2

Credit types: AOTA, APA, CME, NASW; Amount: 2.5

Symposium 5

Role of T Cells and B Cells in MS Pathogenesis-Part 1

Credit types: ACPE, CME, CNE; Amount: 2.5

Symposium 6 Pediatric MS

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Symposium 7

Use of Lipid Metabolism Blockers and Modifiers for the Treatment of MS: A Paradigm Shift

Credit types: ACPE, CME, CNE; Amount: 2.5

Symposium 8

**Update on Gender Issues in MS** 

Credit types: ACPE, APA, CME, CNE, NASW; Amount: 2.5

Symposium 9

Interdisciplinary Approach to Managing Sexuality Issues in Patients with MS

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Symposium 10

**Building Opportunities and Connecting Women MS Neurologists** 

Credit types: CME, CNE; Amount: 2.5

Friday, May 26th

John Whitaker Memorial Lecture: How Research on Pediatric MS Can Inform Thoughts on MS Pathogenesis

Credit types: ACPE, CME, CNE; Amount: .75

**Whitaker Track** 

Credit types: CME, CNE; Amount: 2.75

Fundamentals of MS Care: A Case-based Approach to Symptom Management 2017 – Part 3

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.75

Current Topics and Trends in MS Rehabilitation – Part 3

Credit types: AOTA, CME, NASW; Amount: 2.75

Symposium 11

Function of Myeloid Cells in CNS Inflammation with a Focus on Microglia Cells and CNS-invading Macrophages During MS

Credit types: CME, CNE; Amount: 2.5

# Friday, May 26th (Cont'd)

Symposium 12

A New Paradigm of MS Care: Optimizing Health through the Integration of Lifestyle, Alternative, and Conventional

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Symposium 13

Depression & Suicide in MS: What We Know and What We Can Do About It

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Symposium 14

Symposium 15

Effective Management Strategies for Complex Symptoms of MS Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.5

Role of T Cells and B Cells in MS Pathogenesis - Part 2

Credit types: ACPE, CME, CNE; Amount: 2.75

Fundamentals of MS Care: A Case-based Approach to Symptom Management 2017 - Part 4

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.75

Platform Presentations: Psychosocial: Cognition, Depression Credit types: AOTA, APA, CME, CNE, NASW; Amount: 2.0

Credit types: ACPE, AOTA, CME, CNE; Amount: 2.0

**Platform Presentations: Rehabilitation Interventions** 

Credit types: AOTA, CME; Amount: 2.0

Platform Presentations: Comprehensive Care in MS and Symptom Management

Platform Presentations: Disease Management, Imaging and Therapeutics

Credit types: ACPE, AOTA, CME, CNE; Amount: 2.0

## **WORKSHOPS**

Workshop 1

**Using Digital Tools to Enhance MS Care** 

Credit types: ACPE, AOTA, CME, CNE, NASW; Amount: 1.5

Workshop 2

**Empowering Patients by Making Them Part of the Engineering Team** 

Credit types: AOTA, APA, CME, CNE, NASW; Amount: 1.5

Workshop 3

Treating Individuals and Providing Population Based Care Using Large Data

Credit types: CME, CNE; Amount: 1.5

Workshop 4

**Evaluating Potential Clinical Trials: What to Know** 

Credit types: ACPE, CME, CNE; Amount: 1.5

# Friday, May 26th (Cont'd)

Workshop 5

The Collaborative Approach to MS Care

Credit types: ACPE, AOTA, CME, CNE, NASW; Amount: 1.5

Workshop 6

**Scales and Measures in MS** 

Credit types: AOTA, APA, CME, CNE, NASW; Amount: 1.5

Workshop 7

**Neuromyelitis Optica Spectrum Disorders** 

Credit types: ACPE, CME, CNE; Amount: 1.5

Workshop 8

What Have We Learned from Registries?

Credit types: CME, CNE; Amount: 1.5

Workshop 9

Wellness in MS: Methodology for Clinical Studies

Credit types: AOTA, APA, CME, CNE, NASW; Amount: 1.5

Saturday, May 27th

Donald Paty Memorial Lecture: Induction or Aggressive Treatment for Multiple Sclerosis-Is it Right for Most, Some or No Patients?

Credit types: ACPE, CME, CNE, NASW; Amount: .75

Current Topics and Trends in MS Rehabilitation - Part 4

Credit types: AOTA, CME, NASW; Amount: 2.75

Symposium 16

Microbiome

Credit types: CME, CNE; Amount: 2.75

Symposium 17

**Comorbidities in Multiple Sclerosis** 

Credit types: ACPE, AOTA, APA, CME, CNE, NASW; Amount: 2.75

Symposium 18

BEAT-MS: Who, What, Why, When and Where?

Credit types: ACPE, CME, CNE; Amount: 2.75

Symposium 19

**Informal Caregiving: From Theory to Practice** 

Credit types: AOTA, APA, CME, CNE, NASW; Amount: 2.75

Symposium 20

**DMT Treatment Decisions in MS: Sorting out the Data** 

Credit types: ACPE, CME, CNE, NASW; Amount: 2.5

#### DISCLOSURE OF FINANCIAL RELATIONSHIPS

It is the policy of CMSC, NPA, and The France Foundation to ensure balance, independence, objectivity, and scientific rigor in all educational activities. All faculty, planning committee members, content reviewers, and staff participating in this activity have disclosed any relevant financial relationships they or their significant other have within the previous 12 months with manufacturers of any commercial products/devices and/or providers of commercial services included in this educational activity. The intent of this disclosure is not to prevent a person with a relevant financial relationship from participating in the activity, but rather to provide participants with information on which they can base their own judgments. All presentations were reviewed by an independent clinician with no relevant financial relationships for the purpose of resolution of any identified conflict of interest and a determination of evidence-base and fair balance.

#### DISCLOSURE OF UNLABELED USE

CMSC, NPA, and The France Foundation require faculty to disclose to the attendees when products or procedures being discussed are off-label, unlabeled, experimental, and/or investigational (not FDA approved); and any limitations on the information that is presented, such as data that are preliminary or that represent ongoing research, interim analyses, and/or unsupported opinion. Faculty in this activity may discuss information about pharmaceutical agents that is outside of US Food and Drug Administration approved labeling. This information is intended solely for continuing medical education and is not intended to promote off-label use of these medications. If you have questions, contact the medical affairs department of the manufacturer for the most recent prescribing information.

### **DISCLAIMER**

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their own professional development. The information presented in this activity is not meant to serve as a guideline for patient management. Any procedures, medications, or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patient's conditions and possible contraindications and/or dangers in use, review of any applicable manufacturer's product information, and comparison with recommendations of other authorities.

### CONTINUING EDUCATION COMMITTEE, PLANNERS, REVIEWERS AND STAFF DISCLOSURES

Jacquelyn Bainbridge, PharmD, FCCP has disclosed the following relevant financial relationship(s): Contracted Research: Supernus Pharmaceuticals.

Patricia Bobryk, MHS, PT, MSCS, ATP has disclosed no relevant financial relationships.

Marty Buonato has disclosed no relevant financial relationships.

Lisa DeSantis, JD has disclosed no relevant financial relationships.

Constance B. Easterling, RN, MSN, ARNP, MSCN has disclosed the following relevant financial relationship(s): Consulting Fee: Bayer Healthcare Pharmaceuticals; Speakers Bureau: Genentech, Acorda Therapeutics, EMD Serono, Genzyme, a Sanofi Company, Questcor Pharmaceuticals, Mallinckrodt Pharmaceuticals, Teva Pharmaceuticals.

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Colleen Harris, MN, NP, MSCN, MSCS has disclosed the following relevant financial relationship(s): Consulting Fee: Biogen, Sanofi Genzyme, Roche, Novartis.

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Deborah Miller, PhD, LISW, MSAA has disclosed no relevant financial relationships.

Amy Perrin Ross, APN, MSN, CNRN, MSCN has disclosed the following relevant financial relationship(s): Consulting Fee: Biogen, Teva, EMD Serono, Novartis, Genzyme, Genentech, Celgene, Mallinckrodt, Acorda.

Michael K. Racke, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Coherus, Eisai, Cipla; Contracted Research: Genentech, Novartis, Actelion, Immune Tolerance Network; Honoraria as Editor-in-Chief of Journal of Neuroimmunology.

Susan Ratti has disclosed no relevant financial relationships.

Laurie Scudder, DNP, NP has disclosed no relevant financial relationships.

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Tina Trott has disclosed no relevant financial relationships.

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Mitchell T. Wallin, MD, MPH has disclosed no relevant financial relationships.

Jeffrey Wilken, PhD has disclosed the following relevant financial relationship(s): Consulting Fee: Sanofi Genzyme; Contracted Research: Sanofi Genzyme, Biogen, Novartis.

#### SCIENTIFIC ABSTRACT REVIEW COMMITTEE DISCLOSURES

Maria Victoria Ali, MSCN, NP has disclosed no relevant financial relationships.

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Kathleen Czuba, SLP has disclosed no relevant financial relationships.

Robert Fallis, MD, MSCS has disclosed no relevant financial relationships.

Cindy Gackle, OTR/L, MSCS has disclosed no relevant financial relationships.

Myla D. Goldman, MD, Msc has disclosed the following relevant financial relationship(s): Consulting Fee: EMD Serono, Novartis, Sanofi Genzyme.

Ajay Gupta, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Bayer Healthcare Pharmaceuticals; Speakers Bureau: Bayer Healthcare Pharmaceuticals, Biogen, Mallinckrodt, Sanofi Genzyme.

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Amy Perrin Ross, APN, MSN, CNRN, MSCN has disclosed the following relevant financial relationship(s): Consulting Fee: Biogen, Teva, EMD Serono, Novartis, Genzyme, Genentech, Celgene, Mallinckrodt, Acorda.

Cynthia Sullivan, PhD has disclosed the following relevant financial relationship(s): Contracted Research: Sanofi Genzyme.

Gloria von Geldern, MD has disclosed no relevant financial relationships.

Jeffrey Wilken, PhD has disclosed the following relevant financial relationship(s): Consulting Fee: Sanofi Genzyme; Contracted Research: Sanofi Genzyme, Biogen, Novartis.

Annette Wundes, MD has disclosed no relevant financial relationships.

## **FACULTY DISCLOSURES**

Stephanie Agrella, MSN, APRN, ANP-BC, MSCN has disclosed the following relevant financial relationship(s): Consulting Fee: Sanofi Genzyme, Genentech, Biogen; Speakers Bureau: Teva Pharmaceuticals, Sanofi Genzyme, Novartis, EMD Serono, Biogen, Acorda Therapeutics.

Jack Antel, MD has disclosed no relevant financial relationships.

Jacquelyn Bainbridge, PharmD, FCCP has disclosed the following relevant financial relationship(s): Contracted Research: Supernus Pharmaceuticals.

Brenda Banwell, MD, FAAP, FRCPC has disclosed the following relevant financial relationship(s): Consulting Fee: Novartis.

Sergio Baranzini, PhD has disclosed the following relevant financial relationship(s): Speakers Bureau: EMD Serono, Sanofi Genzyme.

Burkhard Becher, PhD has disclosed no relevant financial relationships.

Ralph Benedict, PhD has disclosed the following relevant financial relationship(s): Royalty: Psychological Assessment Resources; Consulting Fee: Abbvie, Biogen, Genzyme, a Sanofi Company, Novartis, Roche, Sanofi Aventis, Teva

Pharmaceuticals; Speakers Bureau: EMD Serono; Contracted Research: Acorda Therapeutics, Biogen, Mallinckrodt Pharmaceuticals, Genzyme, a Sanofi Company.

Susan Bennett, PT, DPT has disclosed the following relevant financial relationship(s): Speakers Bureau: Acorda Therapeutics.

Bonnie Blain, RN, MSCN has disclosed the following relevant financial relationship(s): Consulting Fee: Genzyme, a Sanofi Company, Novartis, EMD Serono.

Valerie Block, PT, DPTSc has disclosed no relevant financial relationships.

Patricia Bobryk, MHS, PT, MSCS, ATP has disclosed no relevant financial relationships.

Aaron Boster, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Biogen, Genentech, Medtronic Inc., Novartis, Sanofi Genzyme, Teva Pharmaceuticals; Speakers Bureau: Biogen, Genentech, Medtronic Inc., Novartis, Sanofi Genzyme, Teva Pharmaceuticals.

Dennis Bourdette, MD has disclosed no relevant financial relationships.

Riley Bove, MD has disclosed no relevant financial relationships.

James Bowen, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Acorda Therapeutics, Biogen, EMD Serono, Genzyme, a Sanofi Company, Genentech, Novartis, Roche, Teva Pharmaceuticals; Speakers Bureau: Acorda Therapeutics, Biogen, EMD Serono, Genentech, Novartis, Teva Pharmaceuticals; Contracted Research: Acorda Therapeutics, Biogen, Genentech, Novartis, Roche, Sanofi Aventis, Glaxo Smith Kline; Ownership Interest: (Spouse/Partner) Amgen.

Allen Bowling, MD, PhD has disclosed the following relevant financial relationship(s): Consulting Fee: Biogen, EMD Serono, Genentech, Genzyme, a Sanofi Company, Teva Pharmaceuticals; Speakers Bureau: Acorda Therapeutics, Biogen, EMD Serono, Genentech, Genzyme, a Sanofi Company, Mallinckrodt Pharmaceuticals, Teva Pharmaceuticals; Contracted Research: Biogen, EMD Serono, Genentech, Mallinckrodt Pharmaceuticals.

David Brandes, MS, MD, FAAN, MSCS has disclosed no relevant financial relationships.

Brenda Brelje, RN, MSCN has disclosed the following relevant financial relationship(s): Consulting Fee: Sanofi Genzyme, Genentech; Speakers Bureau: Novartis, Sanofi Genzyme.

Lacey Bromley, PT, DPT, NCS, MSCS has disclosed the following relevant financial relationship(s): Speakers Bureau: Acorda Therapeutics.

Therese Burke, RN, CNC, MSCN has disclosed no relevant financial relationships.

Gabe Byars, OTR/L has disclosed no relevant financial relationships.

Michelle Cameron, MD, PT, MCR has disclosed no relevant financial relationships.

Tracy Carrasco, OT/L, MSCS, CLT has disclosed no relevant financial relationships.

Lucille Carriere, PhD has disclosed no relevant financial relationships.

Jonah Chan, PhD has disclosed the following relevant financial relationship(s): Consulting Fee: Inception Sciences.

Tanuja Chitnis, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Bayer Healthcare Pharmaceuticals, Novartis; Contracted Research: Verily, EMD Serono.

Amrish Chourasia, PhD has disclosed no relevant financial relationships.

Jeffrey Cohen, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Adamas, Merck, Mallinckrodt Pharmaceuticals, Novartis, Receptos; Other: Editor, Mult Scler J - ETC.

Marco Colonna, MD has disclosed no relevant financial relationships.

Giancarlo Comi, MD has disclosed no relevant financial relationships.

Angelique Corthals, PhD has disclosed no relevant financial relationships.

Kathleen Costello, MS, ANP-BC, MSCN has disclosed no relevant financial relationships.

Laura Cox, PhD has disclosed no relevant financial relationships.

Patricia Coyle, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Acorda Therapeutics, Biogen, Bayer Healthcare Pharmaceuticals, Genentech, Genzyme, a Sanofi Company, Mallinckrodt Pharmaceuticals, Novartis, Roche, Sanofi Genzyme, Teva Pharmaceuticals; Contracted Research: Novartis, Genentech, Opexa, Actelion.

Anne Cross, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Abbvie, Bayer Healthcare Pharmaceuticals, Biogen, EMD Serono, Genentech, Genzyme, a Sanofi Company, Novartis, Roche, Teva Pharmaceuticals; Contracted Research: Genentech.

William Culpepper, PhD, MA has disclosed no relevant financial relationships.

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Morgan Faeder, MD, PhD has disclosed no relevant financial relationships.

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Scott Zamvil, MD, PhD has disclosed the following relevant financial relationship(s): Consulting Fee: Biogen, EMD Serono, Novartis, Sanofi Genzyme, Teva Pharmaceuticals, Roche/Genentech; Contracted Research: Biogen, Celgene; Other: Serves on Data Safety Monitoring Boards; Lilly, BioMS, Teva Pharmaceuticals, Opexa Therapeutics.

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Caroline Altaras, BS has disclosed no relevant financial relationships.

James D. Bowen, MD has disclosed the following relevant financial relationship(s): Consulting Fee: Acorda Therapeutics, Biogen, EMD Serono, Genzyme, a Sanofi Company, Genentech, GlaxoSmithKline, Novartis Pharmaceuticals, Teva Neuroscience; Grant/Research Support: Acorda Therapeutics, Alexion, Allergan, Biogen, EMD Serono, Genzyme, a Sanofi Company, Genentech, GlaxoSmithKline, Novartis Pharmaceuticals, Opexa, Osmotica, Roche, sanofi-aventis U.S. LLC, Xenoport; Honoraria: Acorda Therapeutics, Biogen, EMD Serono, Genentech, GlaxoSmithKline, Novartis Pharmaceuticals, Pfizer Inc., Teva Neuroscience.

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Ana T. Todd, PhD, RN has disclosed no relevant financial relationships.

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