

2018 CMSC Annual Meeting
May 30-June 2, 2018
Music City Center, Nashville, Tennessee
(as of 2/21/18)

WEDNESDAY, MAY 30, 2018							
Time	Topic/Title		Track	Credit Type	Credit Amt	Chairperson/Speakers	Room
8:00 am – 9:30 am	MS Navigator This activity is provided by the National Multiple Sclerosis Society.						208
10:00 am – 11:30 am	Independently Supported Symposium (#1) The Evolution of Disease-Modifying Therapy and Individualized Management: A 3-Dimensional View of New Directions in Multiple Sclerosis Supported by Genentech, Celgene, and AbbVie Provided by Med Learning Group						Ballroom A
11:30 am – 1:00 pm	Opening Ceremony and Luncheon						Ballroom B&C
12:15 pm – 1:00 pm	John F. Kurtzke Memorial Lecture: Cognition		CG, RS		.75	Stephen Rao, PhD	Ballroom B&C
1:15 pm – 3:15 pm	John Whitaker Research Track Platform Presentations		RS, SC		2.00	Michael K. Racke, MD, Chair	104 A-C
1:15 pm – 1:25 pm	Welcome and Introduction					Michael K. Racke, MD	
1:25 pm – 1:50 pm	Metabolomics Analysis Identifies Abnormal Bile Acid Metabolism in Multiple Sclerosis					Leah Mische, BS	
1:50 pm – 2:15 pm	Variations within a 255,348 Base-Pair Region of Chromosome 1 That Show Association with Serum Prolactin Levels or MS Status					Samantha Jack, MS	
2:15 pm – 2:40 pm	Acute Effects of High-Intensity Interval Exercise on Mood and Enjoyment Outcomes in Multiple Sclerosis					Elizabeth Hubbard, PhD	
2:40 pm – 3:05 pm	Engaging the MS Community on Exercise Services for Those Living in Rural Australia					Yvonne Learmonth, PhD	
3:05 pm – 3:15 pm	Closing Remarks					Michael K. Racke, MD	
	CLINICAL COURSES						
1:15 pm – 3:15 pm	1	Pediatric MS	CC, DX		2.00	Brenda Banwell, MD	202
1:15 pm – 3:15 pm	2	An MS Health Professional's Guide to Marijuana	CC, RS		2.00	Allen Bowling, MD, PhD	207 A-C
1:15 pm – 3:15 pm	3	Real World Risks of Complex Therapies	DX, RS		2.00	Joseph Berger, MD	205

1:15 pm – 3:15 pm	4	Clinical Neuroanatomy of the Brain and Spinal Cord	SC		2.00	Aliza Ben-Zacharia, DrNP, ANP-BC, MSCN Stephen Krieger, MD	209
1:15 pm – 3:15 pm	5	Screening for Cognitive Problems in MS: Traditional and Computerized Measures for Screening	CG		2.00	Jeffrey Wilken, PhD Frederick Foley, PhD	104 D-E
1:15 pm – 3:15 pm	6	MS Infusion Therapies: Inside and Outside of the Infusion Room	RN		2.00	Colleen Harris, MN, NP, MSCN, Chair	106
1:15 pm – 1:30 pm		➤ Overview of Course and Introduction				Colleen Harris, MN, NP, MSCN	
1:30 pm – 2:30 pm		➤ Therapy Selection and Pre – infusion Processes				Denise Bruen	
2:30 pm – 3:00 pm		➤ Inside the Infusion Room				Nancy Bogle	
3:00 pm – 3:15 pm		➤ Case Presentations				Panel	
1:15 pm – 3:15 pm	7	Facilitating Respiratory Enhancement in MS	RH		2.00	Donna Fry, PT, PhD, CHC Marissa Barrera, MS, MPhil, MSCS, CCC-SLP, PhD	208
2:30 pm – 3:15 pm		Exhibitor Reception (exhibitors only)					Halls A&B
3:15 pm – 6:00 pm		Exhibit Hall Open					Halls A&B
3:30 pm – 5:00 pm		Independently Supported Symposium (#2) Navigating the Expanding Sphingosine-1-Phosphate Receptor Modulator Armamentarium for Multiple Sclerosis Management: Greater Opportunities for Patients with MS Supported by Celgene Provided by PVI					Ballroom A
4:00 pm – 6:00 pm		Opening Reception in Exhibit Hall					Halls A&B
6:00 pm – 7:30 pm		International Organization of MS Nurses (IOMSN) Awards Reception					Davidson A&B
6:00 pm – 7:30 pm		MS Coalition Reception					Davidson C
6:00 pm – 7:30 pm		VA MS Centers of Excellence East and West (MSCOE) and VA Special Interest Group (VA SIG) Reception					209
6:00 pm – 7:30 pm		FCMSC Scholars Reception					Omni

THURSDAY, MAY 31, 2018							
Time	Topic/Title	Track	Credit Type	Credit Amt	Chairperson/Speakers	Room	
7:00 am – 8:00 am	Independently Supported Breakfast Symposium (#3) Achieving New Treatment Goals in Multiple Sclerosis Supported by Sanofi Genzyme Provided by Potomac Center for Medical Education					Ballroom A	
7:00 am – 9:00 am	Breakfast in Exhibit Hall					Halls A&B	

8:00 am – 8:45 am		Presidential Lecture: Neurorehabilitation in MS: Past, Present, Future	SC, RH		.75	Alan Thompson, MD, PhD	Ballroom B&C
9:00 am – 12:00 pm		Fundamentals of MS Care: Part I (morning session) A Case-Based Approach to Disease Management 2018	CC, DX		2.75	Constance B. Easterling, RN, MSN, ARNP, MSCN, Moderator	207 A-C
9:00 am – 9:05 am		➤ Welcome and Overview of Program				Constance B. Easterling, RN, MSN, ARNP, MSCN	
9:05 am – 9:45 am		➤ History of Multiple Sclerosis				Thomas J. Murray, MD, FRCP(C), MACP	
9:45 am – 10:25 am		➤ Epidemiology, Immunology, Pathophysiology, Characteristics and Natural History				Bruce Cohen, MD	
10:25 am – 10:40 am		➤ Break					
10:40 am – 11:20 am		➤ Making the Diagnosis: Disease Mimics, Use of Paraclinical Tools, Phenotypes				Derrick Robertson, MD	
11:20 am – 12:00 pm		➤ Primary Progressive MS: Diagnosis, Clinical Course, and Long-term Management				Patricia K. Coyle, MD	
9:00 am – 12:00 pm		Current Topics and Trends in MS Rehabilitation: Part I	RH		2.75	Patricia Bobryk, MHS, PT, MSCS, ATP, Moderator	205
9:00 am – 10:15 am		➤ Differential Diagnosis of Dizziness: Don't Always Blame MS				Susan Bennett, PT, DPT, EdD, NCS, MSCS, Chair Lacey Bromley, PT, DPT, NCS, MSCS	
10:15 am – 10:30 am		➤ Break					
10:30 am – 12:00 pm		➤ Differential Diagnosis of Dizziness: Don't Always Blame MS (cont'd)				Susan Bennett, PT, DPT, EdD, NCS, MSCS Lacey Bromley, PT, DPT, NCS, MSCS	
		SYMPOSIA (build in 15 minute break)					
9:00 am – 12:00 pm	1	DMTs – What Does the Future Hold in MS Treatment?	DX, RS		2.75	Fred D. Lublin, MD, Chair	Ballroom B&C
9:00 am – 9:30 am		➤ Hx of Rx (MRI, BSeron, Safety, Orals, High Efficacy)				Fred D. Lublin, MD	
9:30 am – 10:10 am		➤ Future of Current DMTs – Expanded Use, Peds, New Uses				Andrew D. Goodman, MD	
10:10 am – 10:40 am		➤ MS DMT Pipeline New Approaches				Ilana Katz Sand, MD	
10:40 am – 11:00 am		➤ Break					
11:00 am – 11:30 am		➤ Next Horizons – Regeneration & Repair				Robert P. Lisak, MD, FRCP(E), FAAN, FANA	
11:30 am – 12:00 pm		➤ Panel Discussion				Panel	
9:00 am – 12:00 pm	2	Integrative Medicine and MS	WE		2.75	Allen Bowling, MD, PhD, Chair	209

9:00 am – 9:40 am		➤ Introduction: MS as a Lifestyle Disease, “Pearls” for Clinical Practice, and Research Update				Allen Bowling, MD, PhD	
9:40 am – 10:20 am		➤ Comorbidity and MS—Opportunity Knocks? Insights from Linked Health Administrative and Clinical Data				Helen Tremlett, PhD	
10:20 am – 10:35 am		➤ Break					
10:35 am – 11:15 am		➤ Dietary Modification and Multiple Sclerosis Course				Kathryn Fitzgerald, PhD	
11:15 am – 12:00 pm		➤ Mindfulness in Motion: A Multimodal Intervention Beneficial for Both Patient and Healthcare Provider				Maryanna D. Klatt, PhD	
9:00 am – 12:00 pm	3	Regulation of CNS Inflammation – Part 1	RS, SC		2.75	Francisco Quintana, PhD Ari Waisman, PhD Co-Chairs	202
9:00 am – 9:05 am		➤ Introduction				Francisco Quintana, PhD	
9:05 am – 9:45 am		➤ Regulation of CNS Inflammation				Francisco Quintana, PhD	
9:45 am – 10:30 am		➤ Control of Immunopathology in CNS Autoimmunity				Thomas Korn, MD	
10:30 am – 10:45 am		➤ Break					
10:45 am -11:30 am		➤ Role of Hyper-Activated Neutrophils in Autoimmune Neuroinflammation				Etty Benveniste, PhD	
11:30 am – 12:00 pm		➤ Mechanisms That Regulate the Pathogenic Functions of T Cells				Estelle Bettelli, PhD	
9:00 am – 12:00 pm	4	Voice of the Caregiver: Impact of Caregiver Burden	CG		2.75	Deborah Miller, PhD, LISW, Chair Matthew Sacco, PhD Lucille Carriere, PhD	104 A-B
9:00 am – 12:00 pm	5	Practical Considerations in Relapse Management and Disease Modifying Therapy (DMT) Decision Making	CC		2.75	Stephanie Agrella, RN, MSN, APRN, ANP-BC, MSCN, Chair	208
9:00 am – 9:55 am		➤ Identification and Definition of an Acute MS Relapse vs. Pseudo-relapse				Amy Dix, PA-C, MSCS	
9:55 am – 10:45 am		➤ Relapse Treatment, Determining Need and Other Considerations				Bryan Walker, MSH, PA-C, MSCS	
10:45 am – 11:00 am		➤ Break					
11:00 am – 11:55 am		➤ DMT Options and Decision Making Regarding Switches				Stephanie Agrella, RN, MSN, APRN, ANP-BC, MSCN	
11:55 am – 12:00 pm		➤ Q & A					
9:00 am – 12:00 pm	6	Cognitive Dysfunction and Rehabilitation Techniques	CG		2.75	John DeLuca, PhD Rosalind Kalb, PhD Nancy Chiaravalloti, PhD	104 C-E
12:00 pm – 2:00 pm		Exhibit Hall Open - Luncheon					Halls A&B

12:15 pm – 1:15 pm		Product Theater					Halls A&B
2:00 pm – 4:45 pm		Fundamentals of MS Care: Part I (afternoon session) A Case-Based Approach to Disease Management 2018	CC, DX		2.50	Constance B. Easterling, RN, MSN, ARNP, MSCN, Moderator	207 A-C
2:00 pm – 2:45 pm		➤ RRMS: Current Treatment Options, Considerations in Choosing Treatment, Acute Relapse Management				John Rinker, MD	
2:45 pm – 3:25 pm		➤ Psychological Impact of MS				Anthony Feinstein, PhD	
3:25 pm – 3:35 pm		➤ Break					
3:35 pm – 4:10 pm		➤ Providing Comprehensive Care with the Multidisciplinary Team				Mitzi Williams, MD	
4:10 pm – 4:45 pm		➤ Integrative Medicine in MS				Megan Weigel, DNP, ARNP-C, MSCN	
2:00 pm – 4:45 pm		Current Topics and Trends in MS Rehabilitation: Part II	RH		2.50	Patricia Bobryk, MHS, PT, MSCS, ATP, Moderator	205
2:00 pm – 3:15 pm		➤ Orthotics for the Non Orthotist: How to Recommend the Proper Device				Matt Sutliff PT, DPT, MSCS, Chair	
3:15 pm – 3:30 pm		➤ Break					
3:30 pm – 4:45 pm		➤ Visual Impairments and their Effect on Rehab				Tariq Bhatti, MD Diane B. Whitaker, OD	
		SYMPOSIA (build in 15 minute break)					
2:00 pm – 4:45 pm	7	Complex Symptoms	SX		2.50	Kathleen Costello, MS, ANP-BC, MSCN, Chair	208
2:00 pm – 4:45 pm	8	MRI (brain atrophy/gadolinium)	DX		2.50	David Li, MD, Chair	209
2:00 pm – 4:45 pm	9	Regulation of CNS Inflammation – Part 2	RS, SC		2.50	Francisco Quintana, PhD Ari Waisman, PhD Co-Chairs	202
2:00 pm – 2:10 pm		Introduction				Ari Waisman, PhD	
2:10 pm – 2:45 pm		➤ Cytokine Regulation of CNS Inflammation				Ari Waisman, PhD	
2:45 pm – 3:20 pm		➤ Dysregulated Immune Communication Can Cause Neuroinflammation				Burkhard Becher, PhD	
3:20 pm – 3:35 pm		➤ Break					
3:35 pm 4:10 pm		➤ How Different Effector T Cell Subsets Shape Autoimmunity in the Central Nervous System				Joan Goverman	
4:10 pm – 4:45 pm		➤ Myeloperoxidase as a Therapeutic Target in Multiple Sclerosis				Bonnie Dittel	
2:00 pm – 4:45 pm	10	Immunology	SC		2.50	Scott Newsome, DO, MSCS	104 C-E
2:00 pm – 4:45 pm	11	Relationship Centered Care and Communication	SK		2.50	Matthew Sacco, PhD, Chair	104 A-B
4:30 pm – 7:30 pm		Exhibit Hall Open					Halls A&B

5:00 pm – 6:30 pm	Independently Supported Symposium (#4) Practical Perspectives on Clinical Controversies in MS: A Case Based Approach Supported by EMD Serono Provided by Medscape					Ballroom A
5:00 pm – 6:30 pm	VA MSCoE and VA SIG Business Meeting					105
5:00 pm – 6:30 pm	MS Professionals- in-Training (MS PiT) Meeting					
6:00 pm – 7:30 pm	Dinner in Exhibit Hall					Halls A&B
6:30 pm – 7:30 pm	POSTER SESSION (<i>author must stand by poster from 6:30-7:30 pm</i>)					

FRIDAY, JUNE 1, 2018						
Time	Topic/Title	Track	Credit Type	Credit Amt	Chairperson/Speakers	Room
7:00 am – 8:00 am	Independently Supported Breakfast Symposium (#5) Risk-Benefit Analysis and Personalized Treatment in Multiple Sclerosis Supported by Biogen Provided by Potomac Center for Medical Education					Ballroom A
7:00 am – 9:00 am	Breakfast in Exhibit Hall					Halls A&B
8:00 am – 8:45 am	John Whitaker Memorial Lecture: TBA	SC		.75	Claudia F. Lucchinetti, MD	Ballroom C
9:00 am – 12:00 pm	John Whitaker Research Track Faculty Presentations (<i>build in 15 or 30 min break</i>)	RS, SC		2.50 or 2.75	Michael K. Racke, MD, Chair	Ballroom C
9:00 am – 12:00 pm	Fundamentals of MS Care: Part II Multidisciplinary Approach to Symptom Management	CC, SX		2.75	Beverly Layton, RN, BSN, CCRP, MSCN, Moderator	207 A-C
9:00 am – 9:05 am	➤ Welcome and Overview of Program				Beverly Layton, RN, BSN, CCRP, MSCN	
9:05 am – 9:50 am	➤ Managing Pain and Sensory Symptoms				Marie Moore, MSN, ARNP, MSCN	
9:50 am – 10:30 am	➤ Managing Sleep Disorders				David Brandes, MS, MD, FAAN, MSC	
10:30 am – 10:40 am	➤ Break					
10:40 am – 11:20 am	➤ Managing Symptoms of Elimination				Marie Namey, RN, MS, MSCN	
11:20 am – 12:00 pm	➤ Effects of MS on Menopause, Pregnancy, and Sexual Function				Patricia K. Coyle, MD	
9:00 am – 12:00 pm	Current Topics and Trends in MS Rehabilitation: Part III	RH		2.75	Patricia Bobryk, MHS, PT, MSCS, ATP, Moderator	205

9:00 am – 10:15 am	➤	High Tech and Low Tech Applications for MS Issues - Thinking Outside of the Box				Carolyn Phillips, MEd, ATP, Chair	
10:15 am – 10:30 am	➤	Break					
10:30 am – 12:00 pm	➤	Treatments Focusing on Mind-Body Understanding				Staffan Elgelid, PT, PhD, C-IAYT, GCFP, Chair	
		SYMPOSIA (<i>build in 15 minute break</i>)					
9:00 am – 12:00 pm	12	Comprehensive Care in Advanced MS	CC		2.75	Rachael Stacom, BSN, ANP-BC, MSCN, Chair	208
9:00 am – 9:30 am		➤ Living with Advanced MS: An Approach to Patient-centered Care				Rachael Stacom, Chair	
9:30 am – 10:10 am		➤ Symptom Management Strategies to Relieve Suffering in Advanced MS				Stephen Krieger, MD	
10:10 am – 10:25 am		➤ Break					
10:25 am – 11:00 am		➤ Using Adaptive Equipment and Assistive Technology to Maximize Function in Advanced MS				Elaine Castelluccio, PT, MPT, MSCS	
11:00 am – 11:40 am		➤ How to Empower the Individual with Memory Impairment and Their Care Partners to Maximize Quality of Life				Nettie Harper, CTRS	
11:40 am – 12:00 pm		➤ Q & A				Panel	
9:00 am – 12:00 pm	13	Depression in MS	CG		2.75	Anthony Feinstein, MD, PhD, Chair	209
9:00 am – 9:45 am		➤ Screening and Assessment of Depression in MS				Peter Arnett, PhD	
9:45 am – 10:30 am		➤ The Effects of Depression on Cognitive Function in People with MS				Anthony Feinstein, MD, PhD	
10:30 am – 10:45 am		➤ Break					
10:45 am – 11:30 am		➤ Exercise and Depression in MS: Evidence of Benefits, Modifiers, and Prescription				Robert W. Motl, PhD	
11:30 am – 12:00 pm		➤ Pharmacologic Management of Depression in MS				Aaron Mackie, MD	
9:00 am – 12:00 pm	14	Obesity and MS: Diet and Other Interventions	SC, DX, RH		2.75	Jodie K. Haselkorn, MD, MPH, Vijayshree Yadav, MD	105
9:00 am – 12:00 pm	15	World Epidemiology- What Can We Learn From What is Changing/Not Changing and From Landmark Investigations Across Different Parts of the World	SC		2.75	Alberto Ascherio, MD, Chair	104 C-E
9:00 am – 9:05 am		➤ Introduction				Alberto Ascherio, MD	
9:05 am – 9:45 am		➤ Australia/New Zealand				Robyn Lucas	
9:45 am – 10:25 am		➤ Europe				Maura Pugliatti	
10:25 am – 10:40 am		➤ Break					
10:40 am – 11:20 am		➤ U.S. and Canada				Kassandra Munger, ScD	

11:20 am – 12:00 pm		➤ Open Panel					
9:00 am – 12:00 pm	16	Advocacy	AD		2.75	David Jones, MD, Chair	202
12:00 pm – 2:00 pm		Exhibit Hall Open - Luncheon					Halls A&B
12:15 pm – 1:15 pm		Product Theater					Halls A&B
2:00 pm – 4:00 pm	17	Progressive MS and the International Progressive MS Alliance	SC, DX		2.00	Robert Fox, MD, Chair	202
2:00 pm – 2:05 pm		➤ Introduction				Robert Fox, MD	
2:05 pm – 2:20 pm		➤ Overview				Alan Thompson	
2:20 pm – 2:35 pm		➤ Executive Leadership				Cynthia Zagieboylo	
2:35 pm – 2:50 pm		➤ Patient Perspective				John Strum	
2:50 pm – 3:05 pm		➤ Challenge Awards				Robert Fox, MD	
3:05 pm – 3:50 pm		➤ Collaborative Networks				Doug Arnold, Linda Ottoboni, Francisco Quintana	
3:50 pm – 4:00 pm		➤ Future Strategies				Timothy Coetzee	
2:00 pm – 4:00 pm	18	Stem Cells for MS: An Update	SC		2.00	Mark Freedman, MD, Chair	207 A-C
2:00 pm – 2:05 pm		➤ Introduction				Mark Freedman, MD	
2:05 pm – 2:30 pm		➤ Haematopoietic Stem Cells for Resetting the Immune System Following Immunoablation				Harry Atkins, MD, FRCP(C)	
2:30 pm – 2:55 pm		➤ The Biological Basis for Using Mesenchymal Stem Cells to Treat MS				Antonio Uccelli, MD	
2:55 pm – 3:20 pm		➤ Manufacturing MSC for Human Use: "Not Your Mother's Recipe"				Jacques Galipeau, MD, FRCP(C)	
3:20 pm – 3:45 pm		➤ The Stem Cell Depot				Timothy Caulfield, LLM, FRSC, FCAHS	
3:45 pm – 4:00 pm		➤ Panel Discussion				Panel	
2:00 pm – 4:00 pm	19	Summary of the 7th International Symposium on Gait and Balance in MS: Neuroplasticity and Rehabilitation in MS	RH		2.00	Michelle H. Cameron, MD, PT, MCR Gail Widener, PT, PhD Kathleen Zackowski, PhD, OTR, MSCS	106
2:00 pm – 2:30 pm		➤ Neuroplasticity – The Foundation of Rehabilitation				Michelle H. Cameron, MD, PT, MCR	
2:30 pm – 3:00 pm		➤ Measuring Neuroplasticity – Imaging and Functional Measures				Kathleen Zackowski, PhD, OTR, MSCS	
3:00 pm – 3:45 pm		➤ Clinical Application and Implications of Neuroplasticity in Rehabilitation				Gail Widener, PT, PhD	
3:45 pm – 4:00 pm		➤ Q & A				Panel	
		PLATFORM PRESENTATIONS					
2:00 pm – 4:00 pm		➤ Cognition/Psychosocial	CG		2.00		104 A-B

2:00 pm – 4:00 pm	➤ Disease Modifying Therapy	DX		2.00		209
2:00 pm – 4:00 pm	➤ Rehabilitation	RH		2.00		205
2:00 pm – 4:00 pm	➤ Disease Assessment and Management	CC, DX, SX		2.00		104 C-E
4:15 pm – 5:45 pm	Independently Supported Symposium (#6)					Ballroom A
6:00 pm – 7:00 pm	CMSC Election Results and Awards Reception					202

SATURDAY, JUNE 2, 2018						
Time	Topic/Title	Track	Credit Type	Credit Amt	Chairperson/Speakers	Room
7:00 am – 8:00 am	Independently Supported Breakfast Symposium (#7)					Ballroom A
	ROUNDTABLES (Breakfast served in Roundtables)					
8:00 am – 9:00 am	➤ Physician: Interesting Cases/Curbside Consultations		n/a		Scott D. Newsome, DO, MSCS	207 A-B
8:00 am – 9:00 am	➤ Building Opportunities & Connecting Women MS Healthcare Professionals		n/a		Carrie Hersh, DO, MS	104 C-E
8:00 am – 9:00 am	➤ Nursing		n/a		Aliza Ben-Zacharia, DrNP, ANP-BC, MSCN	202
8:00 am – 9:00 am	➤ Rehabilitation		n/a		IOMSRT to determine lead.	205
8:00 am – 9:00 am	➤ Mental Health		n/a		Frederick Foley, PhD	104 A-B
8:00 am – 9:00 am	➤ International Journal of MS Care		n/a		Francois Bethoux, MD	207 C-D
9:00 am – 11:45 am	Current Topics and Trends in MS Rehabilitation: Part IV	RH		2.50	Patricia Bobryk, MHS, PT, MSCS, ATP, Moderator	205
9:00 am – 10:15 am	➤ Rehab for Persons with Severe MS				Deborah Backus, PT, PHD, FACRM, Chair	
10:15 am – 10:30 am	➤ Break					
10:30 am – 11:45 am	➤ Rehab for Persons with Severe MS (cont'd)				Deborah Backus, PT, PHD, FACRM	
	SYMPOSIA (break from 10:15-10:30)					
9:00 am – 11:45 am	20 Blocking Lipid Metabolism in MS – A New Class of Medications	RS, SC		2.50	John Nieland, PhD, Chair	207 C-D
9:00 am – 9:35 am	➤ New Ways of Looking at MS: A Systemic Disease				John Nieland, PhD	
9:35 am – 10:10 am	➤ Beyond Fats: Predicting Disease Onset and Relapse using Machine Learning Identification of Metabolic Markers				Angelique Corthals, PhD	
10:10 am -10:25 am	➤ Break					
10:25 am – 11:05 am	➤ The Role of Dysregulated Lipid Metabolism in an EAE Model of Mice Mimicking the Inuit CPT1a Mutation				Anne Skottrup Morkholt, PhD	

11:05 am -11:45 am		➤ Is There a Difference for the Role of Lipid Metabolism in Multiple Sclerosis, Parkinson's Disease and Amyotrophic Lateral Sclerosis?				Michael Sloth Trabjerg, MD, PhD student	
9:00 am – 11:45 am	21	The Science and Art of Behavioral Medicine	CG, SK, SX		2.50	Amy Sullivan, PsyD, ABPP, Chair	104 C-E
9:00 am – 9:30 am		➤ Intro and In Vivo Patient Experience				Amy Sullivan, PsyD, ABPP	
9:30 am – 10:00 am		➤ Building the Patient Case				Claire Hara-Cleaver, RN, MSN, ANP, CS	
10:00 am – 10:45 am		➤ Understanding the MS Brain Pathway and Correlation to Depression				Morgan Faeder, MD, PhD	
10:45 am – 11:00 am		➤ Break					
11:00 am – 11:30 am		➤ Pharmacology of Mood Disorders				Morgan Faeder, MD, PhD	
11:30 am – 11:45 am		➤ Skills Building and Practice of Communication				Panel	
		WORKSHOPS					
9:00 am – 10:15 am	1	Primary Care Needs through the Spectrum of MS	CC		1.25	Marijean Buhse, PhD, RN, NP-C, MSCN	202
9:00 am – 9:45 am		➤ Children and Young Adults with MS: Striking a Balance between Medical and Psychosocial Needs				Lauren Krupp, MD	
9:45 am – 10:15 am		➤ Primary Care Needs and Social Implications of MS in the Early and Middle Aged Adult				Patricia Melville, NP, MSCN	
9:00 am – 10:15 am	2	Use of Digital Tools for Patient Self-Management	CC, SK		1.25	Riley Bove, MD	208
9:00 am – 10:15 am	3	Using Big Data: Prevalence and Morbidity Outcomes – Part 1	RS, SK		1.25	Mitchell T. Wallin, MD, MPH, William J. Culpepper, II, PhD, MA	106
9:00 am – 10:15 am	4	Pharmacology – Part 1	DX		1.25	Jacqueline Bainbridge, PharmD, MSCS	209
9:00 am – 10:15 am	5	Pre-conception, Pregnancy and Post-partum Care of MS Patients: Clinical and Research Considerations	CG, RS		1.25	A. Dessa Sadovnick, PhD	207 A&B
9:00 am – 9:05 am		➤ Introduction				A. Dessa Sadovnick, PhD	
9:05 am – 9:25 am		➤ Managing Women with MS: Conception, Gestation, Post-Partum				Maria Houtchens, MD, MMsci	
9:25 am – 9:45 am		➤ Pregnancy & Pregnancy Outcomes for Women with NMOSD				Eric C. Klawiter, MD	
9:45 am – 10:05 am		➤ The Importance of a Disease Specific Registry on Reproduction				A. Dessa Sadovnick, PhD	
10:05 am – 10:15 am		➤ Q & A				Panel	
9:00 am – 10:15 am	6	Evaluating Clinical Trial Participation: What to Know	RS		1.25	Andrew D. Goodman, MD, Chair	104 A-B

9:00 am – 9:20 am		➤ PI Responsibilities				Andrew D. Goodman, MD	
9:20 am – 9:40 am		➤ Time is Money				Cynthia J. Irish, RN, MSN, CCRC	
9:40 am – 10:00 am		➤ Who, When and Where				Megan Hyland, MD	
10:00 am – 10:15 am		➤ Case Study: Putting the Pieces Together				Panel	
		BREAK					
10:30 am – 11:45 am	7	Primary Care Needs through the Spectrum of MS – Continuation of Workshop 1	CC		1.25	Marijean Buhse, PhD, RN, NP-C, MSCN	202
10:30 am – 10:45 am		➤ Primary Care Needs and Social Implications of MS in the Early and Middle Aged Adult (cont'd)				Patricia Melville, NP, MSCN	
10:45 am -11:30 am		➤ Keeping Well Despite MS: The Older Person with MS				Marijean Buhse, PhD, MP-C, MSCN	
11:30 am – 11:45 am		➤ Q & A				Panel	
10:30 am – 11:45 am	8	Monitoring Patients Using Digital Tools – 5 Years in, What Have We Learned?	CC, SK		1.25	Riley Bove, MD	208
10:30 am – 11:45 am	9	Using Big Data: Prevalence and Morbidity Outcomes – Part 2	RS, SK		1.25	Mitchell T. Wallin, MD, MPH, William J. Culpepper, II, PhD, MA	106
10:30 am – 11:45 am	10	Pharmacology – Part 2	SX		1.25	Jacqueline Bainbridge, PharmD, MSCS	209
10:30 am – 11:45 am	11	Suicide in MS – from a Research, Clinical and Personal Perspective	CG		1.25	Rosalind Kalb, PhD, Chair	207 A-B
10:30 am – 10:50 am		➤ Suicide in MS: What the Numbers Tell Us				Rosalind Kalb, PhD	
10:50 am – 11:10 am		➤ Experience in the Clinic: Identifying and Helping Patients at Risk				Mary Allysa Willis, MD	
11:10 am – 11:45 am		➤ Conversation with a Caregiver: When MS-Related Suicide is in the Family				Carol Eastburn	
10:30 am – 11:45 am	12	Advocacy	AD		1.25	David Jones, MD	104 A-B
12:00 pm – 12:45 pm		Luncheon Donald Paty Memorial Lecture: DMT Debates – Stopping, Switching, Re-starting	CC, DX		.75	Patricia K. Coyle, MD	Ballroom C
12:45 pm		Official CMSC Meeting Adjourns					
1:00 pm –		MS Coalition Multiple Sclerosis Summit					

Tracks: <ul style="list-style-type: none"> • Advocacy (AD) • Comprehensive Care (CC) • Disease Management (DX) • Neuroscience/Environmental Factors (SC) 	Credit Types: <ul style="list-style-type: none"> • Physician (CME) • Nurse (CNE) • Pharmacist (CPE) • Social Work (NASW)
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<ul style="list-style-type: none">• Nursing (RN)• Psychosocial: Cognition, Depression (CG)• Rehabilitation (RH)• Research (RS)• Skills Development (SK)• Symptom Management (SX)• Wellness (WE)	<ul style="list-style-type: none">• Psychologist (APA)• Occupational Therapist (AOTA) <p>*All sessions are eligible for Letter of Completion / Certificate of Participation</p>
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