

Matthew Mayer, M.D.

Work Address
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Education

Residency, General Pediatrics Cincinnati Children's Hospital, Cincinnati, Ohio	2005 – 2010
Residency, Physical Medicine and Rehabilitation University of Cincinnati, Cincinnati, Ohio	2005 – 2010
M.D., University of Cincinnati College of Medicine Cincinnati, Ohio	2001 – 2005
B.A. in Biology (magna cum laude), Bryn Athyn College Philadelphia, Pennsylvania	1996 – 2000

Current Position

Staff, Pediatric Physical Medicine and Rehabilitation Director, Pediatric Electromyography Laboratory Children's Hospital Colorado, University of Colorado Aurora, Colorado	2016 – present
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Professional Experience

Staff, Pediatric Physical Medicine and Rehabilitation Children's Mercy Kansas City University of Missouri Kansas City Kansas City, Missouri	2010 – 2016
Director, Fellowship Program Pediatric Physical Medicine and Rehabilitation Children's Mercy Hospital Kansas City, Missouri	2014 – 2016
Director, Electromyography Laboratory Children's Mercy Kansas City Kansas City, Missouri	2010 – 2016

Academic Appointments

Associate Professor Department of Physical Medicine and Rehabilitation University of Colorado Aurora, Colorado	2016 – present
Assistant Professor Department of Pediatrics University of Missouri Kansas City Kansas City, Missouri	2010 – 2016

Clinical Instructor
Department of Physical Medicine and Rehabilitation
University of Kansas
Kansas City, Kansas
2010 – 2016

Additional Training

Graduate, Certificate Program in Pediatric Biomedical Ethics
Center for Biomedical Ethics, Children's Mercy Hospital
Core Faculty: Diane Plantz, John Lantos, Jeremy Garrett, Brian Carter
2012 – 2013

Myology Workshop
Parent Project Muscular Dystrophy and Muscular Dystrophy Association
Ohio State University and Nationwide Children's Hospital, Columbus, OH
2013

Certification and Licensure

Diplomate, American Board of Pediatrics
2009 – present

Diplomate, American Board of PM&R
2011 – present

Colorado State Medical Board
2016 - present

Professional Memberships and Activities

Children's Hospital Colorado Medical Staff
- Hospital Ethics Committee, member 2016 – present
2016 – present

U.S. Paralympics Committee National Classifier
- USA Boccia Classification Committee Member
- Boccia international classification training, Paralympic Boccia
International Sports Federation, Overland Park, Kansas
2013 – present
2015 – present
2013

U.S. Paralympics Committee National Classifier
- Level-1 ski and snowboard national classification training,
Disabled Sports USA, Breckenridge, Colorado
2014 – present

American Association of Neuromuscular & Electrodiagnostic Medicine
- Ethics and Peer Review Committee, member, 2013 – present
- Pediatric Interest Group, member, 2011 – present
2011 – present

Children's Mercy Kansas City Hospital Medical Staff
- Hospital Ethics Committee, member, 2013 – 2016
- Conflict Resolution and Clinical-Setting Mediation Training
for Healthcare, Haavi Morreim, JD, PhD, October 1-2, 2015
2010 – 2016

National Sports Center for the Disabled, volunteer ski instructor
- Snow Creek Ski Area, MO
- Mad River Mountain, OH
- Perfect North Slopes, IN
2007 – 2014

American Academy for Cerebral Palsy and Developmental Medicine
2008 – present

American Academy of Pediatrics
- Council on Children with Disabilities, member
2005 – present

American Academy of Physical Medicine and Rehabilitation 2005 – present

- Pediatric Rehabilitation Council, member
- Self Assessment Exam for Residents and Practitioners Committee, Pediatric Question Writer

Honors and Awards

Golden Apple Award as Fellow Mentor 2016
Children's Mercy Hospital, Kansas City, MO

Bryn Athyn College Distinguished Alumni Award 2015

American Academy of Neuromuscular and Electrodiagnostic Medicine
Electromyography Lab Accreditation, Children's Mercy Kansas City 2015 – 2016
- First pediatric-only lab accredited of 179 accredited labs nation wide

National Health Service Corps Scholarship 2012 – 2014
- Providing care for low income and underserved pediatric patients

Faculty Teacher of the Year Award 2011
Kansas University, Department of PM&R, Kansas City, KS

International Pediatric Externship, University of Kwazulu Natal 2008
Edendale Hospital, Kwazulu Natal, South Africa

Randall Braddom Award 2005
Medical student with outstanding achievement in PM&R
University of Cincinnati College of Medicine, Cincinnati, OH

Indian Health Service Summer Internship 2002
Navajo Nation, Kayenta Health Center

Larry Spaulding Outstanding Male Athlete Award 2000
Bryn Athyn College

International Medical Mission, La Clinica Hombro a Hombro 1999
University of Cincinnati, Department of Family Medicine
Santa Lucia, Honduras

Committee Assignments and Administrative Services

Member, Colorado Children's Hospital Ethics Committee 2016 - present

Board Member, Variety Children's Charity of Greater Kansas City 2015 – 2016
Providing children with developmental disabilities the adaptive equipment and opportunities needed for activity and inclusion.
Kansas City, Missouri

Team Leader, Pediatric PM&R Clinic Quality Improvement Committee 2014 – 2015
Did you get enough information about your condition and treatment?

Classifier, National Veterans Wheelchair Games, Boccia 2014
Philadelphia, PA

Classifier, USA Paralympics National Boccia Competition 2013 - present

Chair, Children's Mercy Multidisciplinary Neuromuscular Committee 2013 – 2016

Member, Children's Mercy Medical Staff Council on Ethics	2013 – 2016
Member, Children's Mercy Anticoagulation Management Council	2012 – 2014
Guest Member, Children's Mercy Medical Staff Council on Ethics	2011 – 2013
Member, Children's Mercy Multidisciplinary Neuromuscular Committee	2010 – 2013
Member, Children's Mercy Inpatient Rehabilitation Committee	2011 – 2014
Volunteer Medical Staff, Mid America Adaptive Games Overland Park, KS	2011
Residency Leadership Council, Cincinnati Children's Hospital Cincinnati, OH	2007 – 2010
Homeless Shelter Staff, Drop-in Shelter, University of Cincinnati Cincinnati, OH	2001 – 2003

Teaching Activities

Instructor, Children's Mercy Center for Biomedical Ethics Certificate Program in Pediatric Biomedical Ethics, Children's Mercy Kansas City	2013 – present
- Ethics of Brain Death and Disorders of Consciousness	
- Ethics of Futility	
- Ethics and Social Media	

Lectures

1. Selective Dorsal Rhizotomy, CMH Fellowship Lecture Series, 9/22/2010
2. Pediatric EMG, KUMC PM&R Resident, 5/12/2011
3. Bowel and bladder management after Spinal Cord Injury, Inpatient Rehabilitation Nursing Lecture Series, 12/5/2011
4. Recovery after Traumatic Brain Injury, Inpatient Rehabilitation Nursing Lecture, 1/20/2012
5. Overview of the Autonomic Nervous System, Inpatient Rehabilitation Nursing Lecture, 2/27/2012
6. Rehabilitation Interventions for Hemiplegia, Inpatient Rehabilitation Nursing Lecture, 3/30/2012
7. Stem Cell Treatments for Spinal Cord Injury, PT/OT Lecture Series and Spinal Cord Injury Workshop, 7/13/2012
8. Overview of Orthotics and Wheelchairs, Pediatric Primary Care Clinic Lecture Series, 4/17/2013
9. Ethical Considerations for Newborns with Spinal Muscular Atrophy,
 - Ethics Course Final Presentation, Children's Mercy Hospital, 5/10/2013
 - Ethics Hospital Rounds, Children's Mercy Hospital, 6/27/2013
10. Motor Neuron Disease and Neuromuscular Junction Disorders, KUMC PM&R Resident Lecture Series, 10/3/2013
11. Overview of Muscle Disease, KUMC PM&R Resident Lecture Series, 10/3/2013
12. Peripheral Nerve Disorders, KUMC Pediatric Resident Lecture Series, 5/7/2014
13. Overview of Muscle Disease and Peripheral Nerve Disorders, KUMC PM&R Resident Lecture Series, 11/20/14
14. Motor Neuron Disease and Neuromuscular Junction Disorders, KUMC PM&R Resident Lecture Series, 2/12/2015
15. My First Teacher, Medical Student Anatomy Class, University of Colorado School of Medicine, 8/26/2016
16. Pediatric EMG, CU PM&R Resident Lecture, 11/16/2016

Invited Review

1. Richard T. Moxley III; Emma Ciafaloni, MD. "Muscular Dystrophy". Textbook of Pediatric Care. Elk Grove Village: American Academy of Pediatrics, 2nd Edition. 2014. (publication pending)
2. Aziz Shaibani, MD. "Gait disorders". Video Atlas of Neuromuscular Disorders. Oxford University Press USA. 2014

Grants and Contract Awards

1. Allergan BOTOX® Study 2013 – 2016
BOTOX® Treatment in Pediatric Upper Limb Spasticity: Double-Blind Study, IRB# 12060333
BOTOX® Treatment in Pediatric Upper Limb Spasticity: Open-Label Study, IRB# 12060335
BOTOX® Treatment In Pediatric Lower Limb Spasticity: Double-Blind Study, IRB# 12050273
BOTOX® Treatment of Pediatric Lower Limb Spasticity: Open-Label Study, IRB# 12060320
Investigators: **Mayer M.**, McLaughlin M., Melanson A., Lierz A., Musick J., Kennedy D.
2. Cardiac Study in Duchenne Muscular Dystrophy. Purpose is to compare efficacy of the angiotensin converting enzyme inhibitor (ACEi) lisinopril with angiotensin II receptor antagonist (ARB) losartan for the cardiomyopathy of Duchenne Muscular Dystrophy (DMD). Subcontract: Study Sponsored by Nationwide Children's Hospital, funded by Muscular Dystrophy Association Incorporated. Investigators: Modrcin A., Bingler, M., Roge, D., Gelatt M., **Mayer M.**, Rinaldi R. 2011– 2013
3. Natural History Study in Duchenne Muscular Dystrophy. Purpose of the study is to correlate the severity of the dystrophin deficient cardiomyopathy with dystrophin gene mutations and skeletal muscle function. Subcontract: Study Sponsored by Nationwide Children's Hospital, funded by Muscular Dystrophy Association Incorporated. Investigators: Modrcin A, Bingler, M., Roge, D., Gelatt M., **Mayer M.**, Rinaldi R. 2012 – 2014
4. Spinal Muscular Atrophy Biomarkers in the Immediate Postnatal Period of Development. NN101. Purpose of the study is to identify biomarkers for disease progression. Subcontract: Study Sponsored by Nationwide Children's Hospital, funded by NeuroNEXT - NIH Network for Excellence in Neuroscience Clinical Trials, National Institute of Neurological Disorders and Strokes. Investigators: Lepichon, J., **Mayer M.** 2014 – 2014

Publications

Peer Reviewed

1. **Mayer M**, Suskauer S, Houtrow A, Watanabe T. Venous thromboembolism prophylaxis in the pediatric population. PM R. 2011. June 3(6):578-585.
2. Rinaldi R, **Mayer M**, Dicharo M. Current Concepts in the Management of Duchenne Muscular Dystrophy. Current Physical Medicine and Rehabilitation Reports. 2013. June 1(2): 65-71.
3. Bos W, Westra A, Pinxten W, **Mayer M**, Lantos J. Risks in a Trial of an Innovative Treatment of Duchenne Muscular Dystrophy. Pediatrics, 2015. Dec 136(6): 1173-1177. DOI: 10.1542/peds.2015-1589 PMID 26553189

4. Abel, N. A., De Sousa, E. A., Govindarajan, R., **Mayer, M. P.** and Simpson, D. A. (2015), Guidelines for ethical behavior relating to clinical practice issues in neuromuscular and electrodiagnostic medicine. *Muscle Nerve*, 2015, Dec 52: 1122–1129. DOI: 10.1002/mus.24910 PMID 26372720
5. Self-Assessment Examination for Residents, Pediatrics, American Academy of Physical Medicine and Rehabilitation, Chicago, Illinois, January 2015
6. Kirpalani D, **Mayer M**, et al. 2015 SAE-P: Current Concepts in Physiatric Pain Management. *PM R* 2015 November;7(11): S326-329.
7. Self-Assessment Examination for Residents, Pediatrics, American Academy of Physical Medicine and Rehabilitation, Chicago, Illinois, January 2016

Abstracts and Presentations

Oral Presentations

National/International Meetings

1. **Mayer M**, “Man-in-the-barrel-syndrome”, Pediatric Rehabilitation Pearls, American Academy of Physical Medicine and Rehabilitation 73rd Annual Assembly, Atlanta, GA, November 2012
2. **Mayer M.**, Ethical Considerations for Newborns with Spinal Muscular Atrophy, Pediatric Rehabilitation Symposium, Cincinnati Children’s Hospital, Cincinnati, OH, December 2013

Posters

National/International Meetings

1. **Mayer M**, Vargus-Adams J. “Functional outcomes in acute transverse myelitis.” Poster presentation, American Academy of Physical Medicine and Rehabilitation 69th Annual Assembly, San Diego, CA, November 2008
2. **Mayer M**, Michaud L. “Diagnostic pitfalls in birth brachial plexopathy: a case series.” Poster presentation, American Academy of Physical Medicine and Rehabilitation 70th Annual Assembly, Austin, TX, October 2009
3. **Mayer M**, McMahon M, Pruitt D. “Venothromboembolism on the inpatient pediatric rehabilitation unit: a national survey.” Poster presentation, American Academy of Physical Medicine and Rehabilitation 71st Annual Assembly, Seattle, WA, November 2010
4. Vardey R, Green M, Hahn M, T Shiquiang, **Mayer M** “Hypothyroidism with Cognitive Response to Levothyroxine Supplementation in Minimally Conscious State: A Case Report.” Poster presentation, American Academy of Physical Medicine and Rehabilitation 73rd Annual Assembly, Atlanta, GA, November 2012.
5. Sinn C., Abraham, L., **Mayer M**. Functional Outcomes in NMDAR Encephalitis in Three Young Females: a case series. Poster presentation, Best Pediatric Poster Award, American Academy of Physical Medicine and Rehabilitation 75th Annual Assembly, San Diego, CA, November 2014. (top poster award)
6. Abraham, L., **Mayer M**. Brachial Plexus Injury in a Throwing Athlete. Poster presentation, American Academy of Physical Medicine and Rehabilitation 75th Annual Assembly, San Diego, CA, November 2014.

7. Khromouchkine, N., **Mayer M.** An Adolescent Diagnosed with Spinal Muscular Atrophy with Respiratory Distress type 1. Poster presentation,
 - American Academy of Physical Medicine and Rehabilitation 75th Annual Assembly, San Diego, CA, November 2014.
 - American Association of Neuromuscular and Electrodiagnostic Medicine, Annual Assembly, Honolulu, HI, October 2015
8. **Mayer M.**, McLaughlin M., Kennedy D. Self Reported Quality of Life for Spinal Muscular Atrophy Type I – Pilot Study. Original research, American Academy of Neuromuscular and Electrodiagnostic Medicine, Honolulu, HI, October, 2015.
9. Luce J, McLaughlin M, **Mayer M.** Leveraging the Electronic Medical Record to Identify Children with Cerebral Palsy Based on Function. Original research
 - Academy of Physical Medicine and Rehabilitation's 77th Annual Assembly, Boston, MA, October 3, 2015.
 - American Congress of Rehabilitation Medicine's 92nd Annual Conference, Dallas TX, October 28-29, 2015. (top poster award)