

Date of Preparation: 07/01/2021

Mitchel Williams, M.D.

Office Address: 3950 Beaubien Blvd, 2nd Floor Neurology. Detroit, MI 48201
Office Telephone: (313) 832-9620
Office Fax Number: (313) 745-0955
E-mail Address: miwillia@med.wayne.edu

EDUCATION

DATES

Harper Hospital - Wayne State University Multiple Sclerosis Center, Detroit, MI, July 2013.	Feb 2013 to July 2013
MS/Neuroimmunology Mini-fellowship	
Children's Hospital of Michigan - Wayne State University, Detroit, MI, July 2013.	Aug 2010 - July 2013
Child Neurology	
Children's Hospital of Michigan - Wayne State University, Detroit, MI, July 2010.	July 2008 - July 2010
Pediatrics	
Wayne State University School of Medicine, Detroit, MI, June 2008.	Aug 2004- June 2008
Medicine (M.D.)	
University of Windsor, Windsor, Ontario, June 2003	Sept 1999 to June 2003
BSc in Honors Biology and Psychology with thesis - graduated with distinction	

FACULTY APPOINTMENTS

Assistant Professor, Pediatrics and Neurology - University Pediatricians	Sept 2013 to present
Assistant Professor, Pediatrics and Neurology - Wayne State University School of Medicine, Clinical Tract	April 2014 to present
Assistant Professor, Pediatrics and Neurology – Central Michigan University School of Medicine	June 2019 to present

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

Assistant Professor, Pediatrics and Neurology - Children's Hospital of Michigan	Sept 2013 to present
Associate Program Director Pediatric Neurology Residency Program - Children's Hospital of Michigan	July 2015 to Jan 2017

Program Director Pediatric Neurology Residency Program - Children's Hospital of Michigan Jan 2017 - present

Medical Director Children's Hospital of Michigan Concussion Clinic Dec 2016 - present

MAJOR PROFESSIONAL SOCIETIES

American Medical Association Member	2004 - 2012
American Academy of Neurology Member	2008 - Present
Child Neurology Society Member	2010 - Present
International Child Neurology Association Member	2012 - Present

BOARD CERTIFICATION

Board Certified in Neurology with special qualification in Child Neurology	Recertification in 2023
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HONORS/AWARDS

Research Paper Winner of the 2006 American College of Physicians (ACP) National Medical Student Abstract Competition in Philadelphia, PA
 2013 Outstanding Junior Member Award presented at the 42nd Annual Child Neurology Society Meeting, November 1st, 2013 in Austin, TX
 2014 Pediatric Neurology Trainee Publication Award Presented at Child Neurology Society Annual Meeting, October 7th, 2015 in Washington, DC
 Hour Detroit Top Doctors 2019, 2020, 2021
 Wayne State University School of Medicine Faculty Teaching Award 2019

EDITORIAL/REVIEWER ROLES

Associate Editor *Journal of Pediatric Epilepsy*
 Reviewer for *Journal of Pediatric Neurology*
 Reviewer for *Journal of Neurology, Neurosurgery, and Psychiatry*
 Reviewer for *Pediatric Neurology*
 Reviewer for *PLOS One*
 Reviewer for *Journal of Child Neurology*
 Reviewer for *Child Neurology - Open*

SERVICE

Wayne State University

Children's Hospital of Michigan
Pediatrics & Neurology

Sept 2013 to
present

UPG or other physician practice plan
University Pediatricians

Sept 2013 to
present

Affiliate medical organizations

Detroit Medical Center (DMC), Children's Hospital of Michigan (CHM)

Community

Wellness & Epilepsy Conference - Pediatric Epilepsy Discussion Panel	Nov 16, 2013
Interview and story in "Pediatric Experts & Innovations Winter 2014" titled "Pediatric Neuroimmunologist Studies Multiple Sclerosis (MS) in Children"	January, 2014
Interview in "Metro Parent Magazine" October 2015 titled "Seizures and Kids: What Parents Need to Know"	October, 2015
Highlight in story in "Metro Parent Magazine" October 2015 titled "Seizure Treatment Success Story"	October, 2015
Interview in "Pediatric Experts & Innovations Fall 2015" titled "The Wild West: Pediatric Neuroimmunologist Explores a New Frontier in Medicine"	December, 2015
Story in "Pediatric Experts & Innovations Fall 2015" titled "11-year-old Girl Seizure Free with Immunoglobulin Therapy"	December, 2015
Learn & Share Conference Call on "Epilepsy and the Immune System" through the Epilepsy Foundation of Michigan	April 6, 2016
Interview in "Metro Parent Magazine" August 2016 titled "The Children's Hospital of Michigan Concussion Clinic"	August 29, 2016
DMC Children's Hospital of Michigan - Kids Health-E Update "Is your Child at risk of developing PANDAS?"	January, 2017
Story in "Pediatric Experts & Innovations 2017" titled "Warren Girl Makes Dramatic Recovery After Life-Threatening Bout With ADEM"	May, 2017
Presentation to the Troy Soccer Club: Identifying and treating sport related concussions	May 22nd, 2017
Radio interview on WJR "Spin on golf" discussion on concussion in children	June 4th, 2017
Radio interview with Fox Sports Network regarding the Children's Hospital of Michigan concussion program and management in children	November 4th, 2017
Case Management Symposium - Management of Pediatric Concussion	May 17 th , 2018

TEACHING

Wayne State University

Teaching at Wayne State University

Medical students - in-service teaching (2013 to present)

Residents/Fellows - in-service teaching (2013 to present)

COMMITTEES/BOARDS/COUNCILS

Program Education Committee (PEC) Member (2014 to present) - committee is responsible for planning, developing, implementing and evaluating educational activities of the Child Neurology Program.

Stiripentol Data Safety Monitoring Committee (2014 to 2020) - committee is responsible for the data collection and safety monitoring of Neurology patients with Dravet Syndrome initiated under our site-specific IND for Stiripentol through the FDA.

EMR Governance Council (2015 to 2017) - council is responsible for guiding EMR development and utilization to make it be more user friendly for physicians while maintaining patient safety and compliance.

MRI Sedation Reduction Committee (2015 to 2017) - committee is responsible for developing goals and action plans to reduce the need for MRI sedations.

Neurology Division Chief Search Committee (2016) - committee is responsible for candidate search, interviews and selection of permanent Division Chief for Child Neurology.

Ambulatory Excellence Committee (2017-2018) - committee is responsible for reviewing and discussing ambulatory efficiencies including threats and opportunities.

CHM Sedation Committee (June 2018 – present) – committee is responsible for identifying and monitoring sedation related issues at Children Hospital of Michigan.

MRI Scheduling Pilot Committee (November 2018 – July 2019) – Committee is responsible for improving and streamlining the scheduling process for MRI at CHM and standardizing the new process for all referring departments.

Mentorship/Trainees

1. Rajkumar Agarwal, MD - Child Neurology Resident/Chief Resident
2. Cresha Davis, MD - Child Neurology Resident
3. Mohammed Ilyas, MD - Child Neurology Resident/Neurophysiology (EEG) Fellow
4. Young Lee, MD - Child Neurology Resident/Chief Resident
5. Patel Rhiddheben, MD - Child Neurology Resident
6. Heather Little, DO - Child Neurology Resident
7. Salman Rashid, MD - Child Neurology Resident/Chief Resident
8. Meghan Harper-Shankie, MD - Child Neurology Resident
9. Muhammad Ubaidulhaq, MD - Child Neurology Resident

10. Carla Bryant, MD - Child Neurology Resident
11. Keisuke Ueda, MD - Child Neurology Resident/Chief Resident
12. Kallol Set, MD - Child Neurology Resident/Chief Resident
13. Kabello Thusang, MD - Child Neurology Resident
14. Asri Yuliati, MD - Child Neurology Resident
15. Dinesh Lulla, MD - Child Neurology Resident/Chief Resident
16. Madhav Bandatmakur, MD - Child Neurology Resident/Chief Resident
17. Azara Singh, MD - Child Neurology Resident
18. Purabi Sonowal, MD - Child Neurology Resident
19. Prahbu Patil, MD - Child Neurology Resident
20. Anila Kanna, MD - Child Neurology Resident
21. Afra Can, MD - Child Neurology Resident
22. Ramit Singla, MD - Child Neurology Resident
23. Tuhina Govil, MD - Child Neurology Resident

Visiting Professor/Lecturer

1. St. Joseph Mercy Pediatric Grand Rounds Speaker. *Pediatric Concussion Management: The Current State*. Williams, MT. June 3rd, 2021.
2. Wayne State University Genetic Counseling Graduate Program - Invited speaker, Wayne State University, MI. Practical Applications in Genetic Counseling – *The Neurological Evaluation*. Williams MT. February 10th, 2021
3. Wayne State University Pediatric Nurse Practitioner Lecture Series Invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. February 2nd, 2021.
4. Wayne State University Pediatric Psychology Graduate Program. *Medical Overview of Concussion*. Williams MT. November 12th, 2020.
5. Wayne State University Pediatric Psychology Graduate Program. *Medical Overview of Concussion*. Williams MT. March 4th, 2020.
6. Children's Hospital of Michigan, Pediatric Emergency Department Grand Rounds Speaker, Detroit MI. *Approach to the Pediatric Patient with Ataxia in the Acute Setting*. Williams MT. January 22nd, 2020.
7. Wayne State University Pediatric Nurse Practitioner Lecture Series Invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. January 21st, 2020.
8. Children's Hospital of Michigan, Pediatric Review Series, Detroit MI. *Approach to the Pediatric Patient with Ataxia*. Williams, MT. October 2019.
9. Wayne State University Genetic Counseling Graduate Program - Invited speaker, Wayne State University, MI. Practical Applications in Genetic Counseling – *The Neurological Evaluation*. Williams MT. March 6th, 2019.

10. Wayne State University Pediatric Nurse Practitioner Lecture Series Invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. January 29th, 2019.
11. Pediatric Grand Rounds Invited Speaker Children's Hospital of Michigan, Detroit MI. *Child Neurology in 2018: New Diseases; Novel Therapies*. Sivaswamy L, Figueroa M, Williams MT. October 26th, 2018.
12. Wayne State University Pediatric Psychology Graduate Program. *Medical Overview of Concussion*. Williams MT. October 24th, 2018.
13. McClaren Hospital Pediatric Grand Rounds Speaker, Macomb MI. *Pediatric concussion Management*. Williams, MT. October 12th, 2018.
14. Wayne State University Pediatric Nurse Practitioner Lecture Series Invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. February 13th, 2018.
15. Wayne State University Genetic Counseling Graduate Program - Invited speaker, Wayne State University, MI. Practical Applications in Genetic Counseling – *The Neurological Evaluation*. Williams MT. February 7th, 2018.
16. Children's Hospital of Michigan, Surgical fellowship Trauma lecture series invited speaker. *Mild Traumatic Brain Injuries and Management*. Williams MT. December 13th, 2017.
17. Clinic Days 2017 at Marriot Conference Center, Troy MI. *Update on concussion management*. Williams, MT. May 12th, 2017.
18. Wayne State University Genetic Counseling Graduate Program - Invited speaker, Wayne State University, MI. Practical Applications in Genetic Counseling – *The Neurological Evaluation*. Williams MT. March 8th, 2017.
19. Wayne State University Pediatric Nurse Practitioner Lecture Series invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. February 28th, 2017.
20. Child Neurology Lecture Series Children's Hospital of Michigan, Detroit MI. *Acquired Demyelinating Disorders*. Williams, MT. February 2nd, 2017.
21. Children's Hospital of Michigan, Pediatric Review Series, Detroit MI. *Demyelinating Disorders*. Williams, MT. October 2016.
22. Child Neurology Lecture Series Children's Hospital of Michigan, Detroit MI. *Concussion*. Williams, MT. May 19th, 2016.
23. Wayne State University Pediatric Nurse Practitioner Lecture Series invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. April 12th, 2016.
24. Wayne State University School of Medicine Neuropathophysiology Course Series. *Neurodevelopment & Developmental Delay*. Williams MT. March 30th, 2016.

25. Wayne State University Genetic Counseling Graduate Program - Invited speaker, Wayne State University, MI. Practical Applications in Genetic Counseling – *The Neurological Evaluation*. Williams MT. February 10th, 2016.
26. Neurology Grand Rounds Invited Speaker Harper Hospital/Wayne State University School of Medicine, Detroit MI. *Childhood Autoimmune Epilepsies: The Tip of the Iceberg*. Williams MT. May 2015.
27. Children's Hospital of Michigan, Pediatric Review Series, Detroit MI. *Intracranial Pressure*. Williams, MT. April 29th, 2015.
28. Wayne State University Pediatric Nurse Practitioner Lecture Series invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. April 2015
29. Wayne State University School of Medicine Neuropathophysiology Course Series. Neurodevelopment & Developmental Delay. Williams MT. March 30th, 2015
30. Child Neurology Lecture Series Children's Hospital of Michigan, Detroit MI. *Autoimmune causes of Pediatric Epilepsy*. Williams, MT. July 2014
31. Pediatric Grand Rounds Invited Speaker Children's Hospital of Michigan, Detroit MI. *Pediatric Autoimmune Encephalitis*. Williams, MT. May 16th, 2014
32. Wayne State University Pediatric Nurse Practitioner Lecture Series invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. 2014
33. Wayne State University School of Medicine Neuropathophysiology Course Series. Neurodevelopment. Williams MT. April 1st, 2014
34. Wayne State University Neurology Faculty Lecture Series. *Non-epileptic Paroxysmal Childhood Disorders*. Williams MT. 2013
35. Children's Hospital of Michigan, Pediatric Review Series. *Pediatric Ataxia & Movement Disorders*. Williams MT. 2013
36. Wayne State University Pediatric Nurse Practitioner Lecture Series invited speaker, Wayne State University, MI. *Acute Care: Pediatric Neurology*. Williams MT. 2013
37. Wayne State University Pediatric Nurse Practitioner Lecture Series invited speaker, Wayne State University, MI. *Pediatric Neurological Emergencies*. Williams MT. 2012
38. A.C.R.E.S. – Acute Care Resident Education Series, Children's Hospital of Michigan, MI. *Cardiogenic shock*. Williams MT. 2009

DATES

GRANTS, CONTRACTS, AND OTHER FUNDING

Previously funded Grants, Contracts and Clinical Trials

Comparative Analysis of Absolute Pitch Perception in Humans, Rats and Zebra Finches 07/01/03-06/30/04

Natural Sciences & Engineering Research Council of Canada Grant:
Comparison of absolute pitch abilities between two mammalian species, rats and humans, and the song bird, the zebra finch.
Role: Co-Investigator

Absolute Pitch Abilities of Rattus Norvegicus 07/01/02-06/30/03

Natural Sciences & Engineering Research Council of Canada Grant:
Examination of the absolute pitch abilities in mammalian species: Rattus Norvegicus.
Role: Co-Investigator

Multi-site, prospective, randomized, double-blind, placebo-controlled, parallel-group, interventional study to evaluate the efficacy, safety, and tolerability of clobazam as adjunctive therapy in pediatric patients aged ≥ 1 to ≤ 16 years with Dravet Syndrome 02/13/14-09/16/15
(Lundbeck 14362B) Williams (Local PI for multi-center phase III trial)

Multi-site, prospective, open-label, long-term, flexible dose, interventional study to evaluate the safety and tolerability of clobazam as adjunctive therapy in pediatric patients aged ≥ 1 to ≤ 16 years with Dravet Syndrome 02/13/14-09/16/15
(Novartis CRAD001M2304) Williams (Local PI for multi-center trial)

A Placebo-controlled Study of Efficacy & Safety of 2 Trough-ranges of Everolimus as Adjunctive Therapy in Patients With Tuberous Sclerosis Complex (TSC) & Refractory Partial-onset Seizures (EXIST-3) 05/30/14 - 05/2015

(Novartis FTY720D2311 - Core phase) Williams (Local PI for multi-center trial) 12/09/13-08/30/17

A two-year, double-blind, randomized, multicenter, active-controlled study to evaluate the safety and efficacy of fingolimod administered orally once daily versus interferon β -1a i.m. once weekly in pediatric patients with multiple sclerosis.

CLINICAL TRIAL ACTIVITIES

(Sarepta Therapeutics 45658-301) Williams (Local PI for multi-center phase III trial) 07/22/2015-07/10/2019

An Open-Label, Multi-Center, 48-week study with a concurrent untreated control arm to evaluate the efficacy and safety of Eteplirsen in Duchenne Muscular Dystrophy

(Novartis FTY720D2311- Extension Phase) Williams (Local PI for multi-center trial)

11/16/2016-
05/31/2023

A two-year, double-blind, randomized, multicenter, active-controlled study to evaluate the safety and efficacy of fingolimod administered orally once daily versus interferon β -1a i.m. once weekly in pediatric patients with multiple sclerosis - 5 year extension phase.

PUBLICATIONS

1. Govil-Dalela T, Datta I, **Williams M**. Refractory NMDA-receptor encephalitis in a teenager: A novel use of Bortezomib. *J Neuroimmunol*. 2021 Jun 15;355:577565. doi: 10.1016/j.jneuroim.2021.577565. Epub 2021 Mar 31. PMID: 33813318.
2. **Williams, M.T** and Tutag Lehr, V. Neuropharmacology. In J.V. Aranda & J.N. van de Anker (Eds), *Yaffe and Aranda's Neonatal and Pediatric Pharmacology: Therapeutic Principles in Practice 5th Edition*, 2020. Philadelphia: Wolters Kluwer. *Co- author, responsible for content of the work, editing and proofing the chapter.*
3. **Williams, M.T.** and Sivaswamy, L., 2020. Quality of Life in Multiple Sclerosis. *Pediatric Neurology Briefs*, 34, p.14. DOI: <http://doi.org/10.15844/pedneurbriefs-34-14>.
4. Govil T, **Williams MT**. Antibody-Associated Autoimmune Encephalitis and Epilepsies in Children. *J Pediatr Epilepsy* Jun 2018; 07(02): 040-044.
5. Smith J, **Williams MT**, Misra VK. Psychiatric disease in an adolescent as a harbinger of cerebral X-linked adrenoleukodystrophy. *Pract Neurol*. 2017 Nov 24.
6. Memon A, Rashid S, **Williams MT**. A unique case of neurological manifestation of hemolytic uremic syndrome which responded to the treatment with intravenous magnesium sulfate. *Int J Case Rep Images* 2017;8(5):326–330.
7. **Williams MT**, Tapos DO, Juhász C. Use of the 2010 McDonald Criteria Can Facilitate Early Diagnosis of Pediatric Multiple Sclerosis in a Predominantly African-American Cohort. *Child Neurology*, 2014 Dec;51(6):826-30. *Senior author, responsible for the scientific content of the work, writing, editing and proofing the entire manuscript.*

8. Kumar A, **Williams MT** & Chugani, HT. Evaluation of Basal Ganglia and Thalamic Inflammation in Children with Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcus and Tourette's Syndrome: A Positron Emission Tomography Study using 11C-[R]-PK11195. J Child Neurol, 2014 Aug. *Contributing author, responsible for portion of the scientific content of the work and editing manuscript.*
9. Book review: Oxford Handbook of Developmental Behavioral Neuroscience, Mark Blumberg, John Freeman, Scott Robinson (Eds.), Oxford University Press, New York NY, 2010. J Neurol Sci., 337 (2014) p.245 doi 10.1016/j.jns.2013.12.002
10. Book review: Adolescent Brain Development: Implications for Behavior. Michelle Jetha, Sidney Segalowitz. Academic Press, Oxford, UK, 2012. J Neurol Sci. 337 (2014) p.245 doi 10.1016/j.jns.2013.12.001
11. **Williams MT**, Jiang H. Diffuse cerebral petechial hemorrhage in an 8-year-old girl with MRSA pneumonia and sepsis. Neurology January 21, 2014 82:282. *Senior author, responsible for the scientific content of the work, writing, editing and proofing the entire paper.*
12. Weisman RG, **Williams MT**, Cohen JS, Njegovan MJ & Sturdy CB. The comparative psychology of absolute pitch. In E.A. Wasserman & T.R. Zentall (Eds), *Comparative Cognition: Experimental Explorations of Animal Intelligence*. New York: Oxford. 2006. *Contributing author, responsible for portion of the scientific content of the work, editing and proofing the chapter.*
13. Weisman RG, Njegovan MJ, **Williams MT**, Cohen JS & Sturdy CB. A behavior analysis of absolute pitch perception. Behav Processes, 2004 Jun 30;66(3):289-307. *Contributing author, responsible for data collection and analysis, editing and proofing the manuscript.*

PRESENTATIONS

1. Podium Presentation: Proceedings of the 10th Annual International Conference on Comparative Cognition, Melbourne, FL 2003. Sorting absolute pitches: Are humans special? **Williams MT**, Weisman RG & Cohen JS.
2. Podium Presentation: Psychonomic Society 44th Annual Meeting , Vancouver, B.C 2003. A comparative analysis of the absolute pitch abilities of mammals and songbirds. Weisman RG, **Williams MT**, Cohen JS, Njegovan, MJ & Sturdy CB.
3. Podium Presentation: 8th International Conference on Music Perception and Cognition, Northwestern University, IL 2004. The comparative psychology of absolute pitch. Weisman, R.G., **Williams MT**, Cohen JS, Njegovan MJ & Sturdy CB.

4. Podium Presentation: Annual Session of the American College of Physicians, Philadelphia, PA 2006. Abnormal Asymmetry of the Arcuate Fasciculus in Autistic Children: A Diffusion Tensor MR Tractography Study. **Williams MT**, Eluvathingal TJ & Chugani HT.
5. Podium Presentation: 5th International Meeting for Autism Research (IMFAR), Montreal, ON 2006. Abnormal asymmetry in the arcuate fasciculus of autistic children: A dti study. **Williams MT**, Eluvathingal TJ, Behen ME, Chugani DC & Chugani HT.
6. Podium Presentation: 9th Annual MSU/WSU Pediatric Research Day, Michigan State University, MI 2010. Assessment of the value of emergent magnetic resonance imaging in the pediatric population with neurological signs and symptoms. **Williams MT** & Sivaswamy LR.
7. Poster: 38th Annual North American Neuro-Ophthalmology Society Meeting, San Antonio, TX 2012. Occult Giant Cell Arteritis: Overcoming Hurdles to Diagnosis. **Williams MT**, Mears KA, Basha MM, Tomsak RL.
8. Poster: 2nd Annual DMC GME QuESST Research Day, Detroit MI 2013. Behaviors, Barriers and the Status quo: Resource Utilization in an Ambulatory Specialty Clinic and Future Directions. **Williams MT**.
9. Poster: 42nd Annual Child Neurology Society Meeting, Austin TX 2013. PET imaging of neuroinflammation in pediatric MS: A pilot study. Kumar A, Juhász C, Tapos D, **Williams MT** & Chugani HT.
10. Poster: 42nd Annual Child Neurology Society Meeting, Austin TX 2013. Use of the 2010 McDonald Criteria Can Facilitate Early Diagnosis of Pediatric Multiple Sclerosis. **Williams MT**, Juhász C & Tapos D.
11. Poster: American Academy of Neurology Meeting, Philadelphia PA April 2014. A Unique Presentation of Pediatric Stroke Attributed to Intrathecal Methotrexate. Ilyas M & **Williams MT**.
12. Poster: 13th International Child Neurology Congress, Iguazu Falls, Brazil May 2014. Evaluation of neuroinflammation in pediatric multiple sclerosis patients. Kumar A, Juhász C, Tapos D, **Williams MT** & Chugani HT.
13. Podium Presentation: SNMMI Annual Meeting, St. Louis, MO, June 9th, 2014. Basal ganglia inflammation in children with neuropsychiatric symptoms. Kumar A, **Williams MT**, Muzik O & Chugani HT
14. Poster: American Academy of Neurology Meeting, Washington, DC April 2015. Hemolytic Uremic Syndrome (HUS) with Reversible Cerebral Vasospasm and Splenic Lesion Responsive to the High-dose Intravenous Magnesium Sulfate (MgSO₄). Memon A, Rashid S & **Williams MT**.

