

CURRICULUM VITAE

Paul D. Harker-Murray MD, PhD

**Assistant Professor
Department of Pediatrics
Division of Hematology/Oncology**

OFFICE ADDRESS:

MACC Fund Research Center
8701 Watertown Plank Rd
Milwaukee, WI 53226

EDUCATION:

9/1989 - 5/1993 BS-Psychology, University of Michigan, Ann Arbor, MI
5/1993 - 5/2001 PhD, Mayo Graduate School, Mayo Clinic & Foundation, Rochester, MN
5/1993 - 5/2001 MD, Mayo Medical School, Mayo Clinic & Foundation, Rochester, MN

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

6/2001 - 6/2004 Internship and Residency in Pediatrics, Pediatrics, University of Minnesota, Children's Hospital Minneapolis, 2450 Riverside Avenue, Minneapolis, MN 55454
7/2004 - 9/2007 Postdoctoral Fellowship, Pediatrics, Hematology/Oncology/BMT, University of Minnesota, 2450 Riverside Avenue, 6th Floor, Minneapolis, MN 55454

FACULTY APPOINTMENTS:

11/1/2001 - 7/15/2013 Assistant Professor, Pediatrics, Hematology/Oncology/BMT, University of Texas, Southwestern Medical Center in Dallas, 1801 Inwood Road, Dallas, TX 75235
8/1/2013 - Present Assistant Professor, Pediatrics, Hematology/Oncology/BMT, Medical College of Wisconsin, 8701 Watertown Plank Road, MFRC 3018, Milwaukee, WI 53226

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

2008 - 2013 Pediatric Residency Admissions Committee, Pediatrics, University of Texas, Southwestern Medical Center,
2010 - 2013 Education Coordinator, Pediatrics, Hematology/Oncology , Children's Medical Center, 1935 Medical Center Drive, Dallas, TX 75235
2011 - 2013 Pediatric Hematology-Oncology Fellowship Admissions Committee, Pediatrics, Hematology/Oncology/BMT, University of Texas, Southwestern Medical Center,
2011 - 2013 Billing Compliance Officer, Pediatrics, University of Texas Southwestern, Dallas, TX
2012 - 2013 Oversight Physician, Clinical Research Office for Center for Cancer and Blood Disorders, University of Texas Southwestern, Dallas, TX

HOSPITAL STAFF PRIVILEGES:

12/4/2007 - 7/15/2013 Active, Pediatrics, Hematology/Oncology/BMT, Children's Medical Center, 1935 Medical Center Drive, Dallas, TX 75235
12/4/2007 - 7/15/2013 Active, Pediatrics, Hematology/Oncology/BMT, St. Paul University Hospital - UT Southwestern Medical Center, 5323 Harry Hines Blvd, Dallas, TX 75235
12/4/2007 - 7/15/2013 Active, Pediatrics, Hematology/Oncology/BMT, Parkland Health & Hospital System,

5201 Harry Hines Blvd, Dallas, TX 75235
8/1/2013 - Present Active, Pediatrics, Hematology/Oncology/BMT, Children's Hospital of Wisconsin, 9000
W. Wisconsin Avenue, Wauwatosa, WI 53226

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
General Pediatrics	2004	None
Pediatric Hematology/Oncology	2009	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Medicine and Surgery	61047-20	7/9/2013	10/31/2015

AWARDS AND HONORS:

1992 Gold Key Honor Society, University of Michigan
1992 David Bohr Research Fellowship Award
1999 Outstanding Young Leader Award, Zumbro Valley Medical Society
2000 Keynote Speaker at Gamehaven Council of the BSA Annual Eagle Recognition and Alumni Dinner,
Boy Scouts of America
2000 Lyle Weed, MD Healthy Community Award, Olmstead County Public Health Services
2004 Susan Vincent Outstanding Resident Teaching Award
2010 Excellence in Education Medical Student Clinical Teaching Award, UT Southwestern
2011 Advocacy Mentor Award, UT Southwestern
2013 Dr. George Buchanan Teaching Award for Excellence in Fellow Education
2013 Faculty Teacher of the Year Award, Children's Medical Center Pediatric Residency
2014 - Present Mobile App Challenge Winner

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

American Academy of Pediatrics (Member)
American Society of Clinical Oncology (Member)
Children's Oncology Group (Member)
American Society of Pediatric Hematology and Oncology (Member)
American Society of Hematology (Member)

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2012 - Present Member, Children's Oncology Group Non-Hodgkin Lymphoma Committee, Children's
Oncology Group
2012 - Present Member, Children's Oncology Group Young Investigator Committee, Children's Oncology
Group
2012 - Present Member, Children's Oncology Group Hodgkin Lymphoma Retrieval Subcommittee, Children's
Oncology Group
2012 - Present Member, Children's Oncology Group Hodgkin Lymphoma Committee, Children's Oncology
Group
2014 - Present One of 12 pediatric oncologist selected from a national pool, Epic Pediatric Oncology Steering
Board

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:

Stratification of Treatment Intensity For Relapsed and Refractory Pediatric

	Hodgkin Lymphoma
Source:	Children's Oncology Group Hodgkin Lymphoma Retrieval Subcommittee
Role:	Development of International Clinical Trial
Dates:	2012 - Present
Title:	Use of Computerized Physician Order Entry (CPOE) reduces provider chemotherapy errors in pediatric oncology center
Role:	Institutional Principle Investigator
PI:	Paul Harker-Murray, MD
Dates:	2012 - Present
Title:	Phase 1 Dose-escalating Study of MM-398 (Nanoliposomal Irinotecan) plus Intravenous Cyclophosphamide in Recurrent or Refractory Pediatric Solid Tumors.
Source:	South Plains Oncology Consortium (SPOC)
Role:	Protocol Chairperson/Principle Investigator
Dates:	2012 - Present

Prior

Peer Review

Title:	Research on the effect of Ramipril on vascular activity, changes associated with atherosclerosis-induced diabetes in rabbits
Source:	University of Michigan Physiology Department
Role:	Laboratory Research
Dates:	5/1991 - 9/1991
Title:	Characterization of the role of endothelium in vascular activity in streptozotocin-induced diabetes in rats."
Source:	University of Michigan, Physiology Department
Role:	Laboratory Research
Dates:	9/1991
Title:	Ramipril prevents hypersensitivity to phenylephrine in aorta from streptozotocin-induced diabetic rats.
Source:	University of Michigan, Physiology Department
Role:	Laboratory Research
Dates:	5/1992 - 9/1992
Title:	Comparing the insulin sensitizing agent CS-045 with angiotensin-converting enzyme inhibitor quinapril, on insulin resistance in spontaneously hypertensive rats.
Source:	Grant
Role:	Investigator
Dates:	9/1992 - 12/1992
Title:	Immune effectors of resistance to demyelination and neurologic disease in a viral model of multiple sclerosis.
Source:	Mayo Graduate School, Department of Immunology
Role:	Laboratory Research/Doctoral Thesis
Dates:	1995 - 2000
Title:	Evaluating the methodological quality of clinical practice guidelines for the treatment of patients with diabetes mellitus.
Source:	Mayo Clinic and Foundation Research, Department of Internal Medicine, Division of Endocrinology
Role:	Investigator

Dates:	10/2000
Title:	Developing novel methods of inducing human naive CD4+ T cells to differentiate into CD4+D25+FoxP3+ regulatory T cells and study of in vivo function of human regulatory T cell function.
Source:	Pediatric Hematology/Oncology and Blood and Bone Marrow Transplantation
Role:	Laboratory Research
Dates:	2005 - 2007
Title:	Open Label Bendamustine for Pediatric Patients with Relapsed or Refractory Acute Leukemia: Safety and Efficacy Outcomes.
Source:	Cephalon, Inc
Role:	Institutional Primary Investigator
PI:	Paul Harker-Murray, MD
Dates:	2011 - 2012
Title:	Randomized, Open Label, Multicenter Study to Evaluate the Efficacy and Safety of Decitabine as Epigenetic Priming with Induction Chemotherapy in Pediatric Acute Myelogenous Leukemia (AML) Subjects.
Source:	Eisai
Role:	Institutional Principal Investigator
PI:	Paul Harker-Murray, MD
Dates:	2011 - 2012
Title:	An open-label, cross-over, pharmacokinetic study to assess the safety and pharmacokinetics of transdermal granisetron (SancusoR patch) and IV granisetron in a pediatric oncology population (aged 6 to 12 years).
Source:	Strakan Pharmaceuticals Ltd
Role:	Institutional Primary Investigator
PI:	Primary Investigator
Dates:	2012 - 2013
Title:	An open-label, cross-over, pharmacokinetic study to assess the safety and pharmacokinetics of transdermal granisetron (SancusoR patch) and IV granisetron in a pediatric oncology population (aged 2 to 5 years).
Source:	Strakan Pharmaceuticals Ltd
Role:	Institutional Primary Investigator
PI:	Paul Harker-Murray, MD
Dates:	2012 - 2013
Title:	An open-label, cross-over, pharmacokinetic study to assess the safety and pharmacokinetics of transdermal granisetron (SancusoR patch) and IV granisetron in a pediatric oncology population (aged 13 to 17 years).
Source:	Strakan Pharmaceuticals Ltd
Role:	Institutional Primary Investigator
PI:	Paul Harker-Murray, MD
Dates:	2012 - 2013
Title:	Methylnaltrexone in Pediatric Populations: A Retrospective Chart Review. Supervising fourth year medical student, Stephanie Bezner.
Role:	Institutional Primary Investigator
PI:	Paul Harker-Murray, MD
Dates:	2012 - 2013

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

1. Presenter: Harker-Murray, Paul, Bandyopadhyay, S. et al, "Risk of serious bacterial infection in children with fever without a source in the post-haemophilus influenzae era when antibiotics are reserved for culture-proven bacteremia." Arch Pediatr Adolesc Med 2002; 156(5):512-517, University of Minnesota: Evidence-based Medicine Review, University of Minnesota, 2002
2. Harker-Murray, Paul, "A Brief Approach to Herbal Medical in the United States", University of Minnesota Department of Pediatrics Symposium on Complementary and Alternative Therapies, Minneapolis, MN, 2002
3. Harker-Murray, Paul, "Adherence of Published Diabetes Mellitus Practice Guidelines to Methodological Standards of Guideline Development, University of Minnesota, Pediatric Endocrinology, Minneapolis, MN, 2002
4. Harker-Murray, Paul, "Vaccine Safety", University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2003
5. Harker-Murray, Paul, "Opportunities for Intervention in a Case of Acute Spinal Cord Injury", Hennepin County Medical Center, Department of Emergency Medicine Meeting, Minneapolis, MN, 2003 - Present
6. Harker-Murray, Paul, The Role of Hypertonic Saline in the Treatment of Elevated Intracranial Pressure, Department of Emergency Medicine Meeting at Hennepin County Medicine Center, Minneapolis, MN, 2003
7. Harker-Murray, Paul, "A Critical Review of Intravenous Methylprednisolone in Acute Spinal Cord Injury", Combined Department of Emergency Medicine Meetings - Hennepin County Medical Center and Regions Hospital, St. Paul, MN, 2003
8. Harker-Murray, Paul, "Pathology and Treatment of Acute Graft-Versus-Host Disease", Resident and Medical Staff Lectures, University of Minnesota Department of Pediatrics, Minneapolis, MN, 2004
9. Harker-Murray, Paul, "EBV+T Cell Posttransplant Lymphoproliferative Disorder in Children", "Pediatric Cancer and Blood Diseases Conference, University of Minnesota, Department of Pediatric Hematology and Oncology, Minneapolis, MN, 2004
10. Harker-Murray, Paul, "Hemoglobin Electrophoresis in the Diagnosis of Thalassemia", Residents and Medical Students Lectures, University of Minnesota, Minneapolis, MN, 2004
11. Harker-Murray, Paul, "Neonatal Thrombocytopenia", Resident and Medical Student Lectures, University of Minnesota, Minneapolis, MN, 2004
12. Harker-Murray, Paul, "Immune Reconstitution Following Bone Marrow Transplantation", Residents and Medical Students Lectures, University of Minnesota, Minneapolis, MN, 2004
13. Harker-Murray, Paul, "Poor Hematopoietic Recovery Following Induction Therapy for ALL." "Syndromes of Immunodeficiency and Macrophage Activation.", Pediatric and Blood Cancer Conference, University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2005
14. Harker-Murray, Paul, "Leukemia Immunodeficiency and Macrophage Activation", Clinical Immunology Society's Summer School in Primary Immunodeficiency, Minneapolis, MN, 2005
15. Harker-Murray, Paul, "Meningitis in Bone Marrow Transplant Patients.", Pediatric Cancer and Blood Diseases Conference, University of Minnesota, Department of Pediatric Hematology and Oncology, Minneapolis, MN, 2005
16. Harker-Murray, Paul, "Nasopharyngeal Carcinoma in Pediatric Patients", Pediatric Cancer and Blood Diseases Conference, University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2006
17. Harker-Murray, Paul, "Metastatic Rhabdomyosarcoma", Pediatric Cancer and Blood Disease Conference, University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2007
18. Harker-Murray, Paul, "Hematopoietic Cell Transplantation as Therapy for Pediatric Patients with Relapsed Acute Leukemia with and without CNS Involvement", Multi-Institutional Pediatric Oncology Teleconference", Minneapolis, MN, 2007
19. Harker-Murray, Paul, "Hematopoietic Cell Transplantation as Therapy for Pediatric Patients with Relapsed Acute Leukemia with and without CNS Involvement, 21st Annual Pediatric Research, Education, and Scholarship Symposium, Minneapolis, MN, 2007
20. Harker-Murray, PH, Practical and Ethical Dilemmas in Cord Blood Banking, Practical Pediatric Hematology-Oncology 2008, Children's Medical Center in conjunction with UTSW Department of Pediatrics, Dallas, TX, 10/2008
21. Harker-Murray, PH, Practical and Ethical Dilemmas in Cord Banking, 41st Kenneth C. Haltalin Pediatrics for the Practitioner Annual Seminar, 4/2009
22. Harker-Murray, PH, Pediatric Cancer - An Overview, The Southwest Center for Pediatric Environmental

- Health and Lake Country AHEC Conference on Children's Environmental Health, Paris, TX, 9/2009
23. Harker-Murray, PH, An Ethical Dilemma: A controversy in collecting umbilical cord blood for donation to a public bank, Pediatric Hematology/Oncology Grand Rounds, UT Southwestern, 2/2010
 24. Harker-Murray, PH, Cord Blood Banking - Provider Responsibilities, UT Southwestern Maternal Fetal Medicine Lecture Series, UT Southwestern, 4/2011
 25. Harker-Murray, PH, Practical Pediatric Hematology-Oncology 2011: Lymphadenopathy and Lymphoma, Children's Medical Center in conjunction with UTSW Department of Pediatrics, Dallas, TX, 11/2011
 26. Harker-Murray, PH, Umbilical Cord Blood Banking: a "safeguard for the future?", UT Southwestern Medical Center Pediatric Grand Rounds, Dallas, TX, 4/2012
 27. Harker-Murray, PH, Practical Pediatric Hematology-Oncology 2008: Ethical Risks and Practical Benefits of Cord Blood Banking, Children's Medical Center in conjunction with UTSW Department of Pediatrics, Dallas, TX, 11/2012
 28. Harker-Murray, PH, Hemophagocytic Lymphohistiocytosis, Multidisciplinary Case Conference, Children's Medical Center, Dallas, TX, 12/2012
 29. Harker-Murray, PH, Fibrodysplasia Ossificans Progressiva, Multidisciplinary Case Conferences, Children's Medical Center, Dallas, TX, 1/2013
 30. Harker-Murray, PH, Pediatric Oncology: Introducing a family to childhood cancer, Dallas Chapter of the American Academy of Professional Coders, Dallas, TX, 3/2013
 31. Harker-Murray, PH, Common Symptoms and Intern Calls in Oncology - Preparation for Internship, Medical Student Elective, Dallas, TX, 3/2013
 32. Toxic Epidermal Necrolysis in a child with Burkitt lymphoma, Multidisciplinary tumor board, Medical College of Wisconsin, 4/2014 - Present
 33. Therapeutic options for low risk Wilms tumor, Multidisciplinary tumor board presentation, Medical College of Wisconsin, 5/2014 - Present

National

1. Harker-Murray, PH, Review Course: Lymphoma, American Society of Pediatric Hematology and Oncology, 2/2011
2. Harker-Murray, PH, The Efficacy of Umbilical Cord Stem Cells from Private and Public Cord Blood Banks: Present and Anticipated Future Clinical Utility, American College of Osteopathic Obstetricians and Gynecologists Meeting, Tucson, AZ, 3/2012
3. Harker-Murray, PH, What is happening with umbilical cord sampling and tissue banking, Sierra Providence Health Network 6th Annual Perinatal Symposium, El Paso, TX, 7/2012
4. Harker-Murray, PH, "What do YOU Think, Doctor, Should We Get It?" Antenatal Counseling on Stem Cell Cord Blood Collection, American College of Osteopathic Obstetricians and Gynecologists, Grapevine, TX, 10/2012
5. Harker-Murray, PH, Cord Blood Stem Cells: Current Uses and Anticipated Future Clinical Utility, 6th Annual Children's Medical Center Transfusion & Laboratory Medicine Conference, 2/2013
6. Harker-Murray, PH, Review Course: Lymphoma, American Society of Pediatric Hematology and Oncology, 2/2013

COMMITTEE SERVICE:

Medical College

- 2008 - 2013 Member, Pediatric Residency Admissions Committee, Pediatrics, UT Southwestern
- 2010 - 2013 Physician Champion, Beacon Committee, Pediatrics, University of Texas Southwestern
- 2011 - 2013 Member, Fellowship Admissions Committee, Hematology/Oncology/BMT, Pediatrics, UT Southwestern
- 2012 - 2013 Member, Continuing Medical Education Committee, Pediatrics, University of Texas Southwestern
- 2012 - 2013 Committee Member, Epic Implementation Committee, Pediatrics, University of Texas Southwestern
- 2012 - 2013 Member, Chemotherapy Task Force, Pediatrics, University of Texas Southwestern
- 2013 - Present Participant/Member, Electronic Health Record Committee Sub-Group (to develop recommendations around medical staff documentation standards and problem list use and etiquette), Pediatrics, Medical College of Wisconsin
- 2013 - Present Member, Clinical Documentation Initiative to Improve Medical Communication,

Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin
2013 - Present Member, Pediatric Intern Selection Committee, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin
2013 - Present Member, Faculty Scholar Program in Quality & Safety, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin
2013 - Present Member, HOT Services Partnership Council, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin
2013 - Present Member, Epic and Beacon Implementation, Pediatrics, Medical College of Wisconsin
2013 - Present Member, MACC Fund Design Core Team, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin
2013 - Present Co-chair, Hematology/Oncology/BMT Committee on Quality and Patient Safety, Hematology/Oncology/BMT, Pediatrics, Children's Hospital of Wisconsin
2014 - Present Member, CLABSI subgroup of Solution for Patient Safety (SPS)

Hospital

2013 - Present Member, Documentation Standards - Problem List Sub-committee, Hematology/Oncology/BMT, Pediatrics, Children's Hospital of Wisconsin
2013 - Present Member, Hematology/Oncology/BMT Services Partnership Council (Inpatient and Ambulatory QI and Clinical Practice, Hematology/Oncology/BMT, Pediatrics, Children's Hospital of Wisconsin

MEDICAL COLLEGE TEACHING ACTIVITIES:

Resident and Fellow Education

2013 - Present Ongoing Lectures to Residents and Fellows

EXTRAMURAL TEACHING (e.g. at Marquette, UWM, etc.):

Community/Lay Public

1999 - 2001 Rochester Public Library, Homework Assistance Study Table
1999 - 2001 Individual English Composition Tutor
2011 - 2013 West Mesquite High School, Mentor for GT Mentorship Program

Resident and Fellow Education

1996 - 2000 Mayo Graduate School, Dept of Immunology, Immunology Tutor
2004 Developed comprehensive study-guide for the Pediatric Licensure Examination based on guidelines from the American Academy of Pediatrics and the American Board of Pediatrics
2007 University of Minnesota Medical School, Tutor, Blood Course
2008 - 2013 UTSW, Didactic Session for Residents and Fellows: Pain Management in Oncology Patients
2008 - 2013 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows: Approach to Reading a Peripheral Blood Smear
2008 - 2013 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows: Supportive Care in Pediatric Oncology
2008 - 2013 University of Texas Southwestern, Ongoing and Didactic Sessions for Residents and Fellows: Hodgkin and Non-Hodgkin Lymphoma in Pediatric Oncology.
2008 - 2013 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows: E&M Coding in Pediatric Oncology
2008 - 2013 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows: Introduction to Chemotherapy, Immunotherapy and Immunosuppression
2008 - 2013 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows: Emergencies in Pediatric Oncology
2008 - 2013 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows: Anatomic Approach to Bone Marrow Biopsies
2010 - 2011 University of Texas Southwestern, Pediatric Residency Advocacy Project Mentor
2011 - 2013 University of Texas Southwestern, Pediatric Residency Mentor (oversee academic progress of six residents during training)
2011 - 2013 University of Texas Southwestern, Pediatric Senior Resident Morning Report (small group

case discussion with faculty)

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:
Clinical/Research Fellows

Nathan Schloemer, Medical College of Wisconsin, 2013 - Present Mentor - Scholarly Activities Oversight

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Murray P, Pitt B, Webb RC. Ramipril prevents hypersensitivity to phenylephrine in aorta from streptozotocin-induced diabetic rats. *Diabetologia*. 37(7):664-70, 1994 Jul.
2. Miller DJ, Njenga MK, Murray PD, Leibowitz J, Rodriguez M. A monoclonal natural autoantibody that promotes remyelination suppresses central nervous system inflammation and increases virus expression after Theiler's virus-induced demyelination. *International Immunology* 1996;8(1):131-41.
3. Rodriguez M, Rivera-Quinones C, Murray PD, Njenga MK, Wettstein PJ, Mak T. The role of CD4+ and CD8+ T cells in demyelinating disease following Theiler's virus infection: a model for multiple sclerosis. *Journal of Neurovirology* 1997;3(Suppl 1):S43-S45
4. Lin X, Pease LR, Murray PD, Rodriguez M. Theiler's virus infection of genetically susceptible mice induces central nervous system-infiltrating CTLs with no apparent viral or major myelin antigenic specificity. *Journal of Immunology* 1998;160(11):5661-8.
5. Murray PD, Pavelko KD, Leibowitz J, Lin X, Rodriguez M. CD4(+) and CD8(+) T cells make discrete contributions to demyelination and neurologic disease in a viral model of multiple sclerosis. *Journal of Virology* 1998;72(9):7320-9.
6. Murray PD, McGavern DB, Lin X, Njenga MK, Leibowitz J, Pease LR, Rodriguez M. Perforin-dependent neurologic injury in a viral model of multiple sclerosis. *Journal of Neuroscience* 1998;18(18):7306-14.
7. Murray PD, Njenga MK, McGavern DB, Lin X, Drescher KM, Rodriguez M. Absence of spontaneous central nervous system remyelination in Class II-deficient mice infected with Theiler's Virus. *Journal of Neuropathology & Experimental Neurology* 1999;58(1):78-91.
8. Drescher KM, Murray PD, David CS, Pease LP, Rodriguez M. CNS cell populations are protected from virus-induced pathology by distinct arms of the immune system. *Brain Pathology* 1999;9:21-31.
9. McGavern DB, Murray PD, Rodriguez M. Quantitation of spinal cord demyelination, remyelination, atrophy, and axonal loss in a model of progressive neurologic injury. *Journal of Neuroscience Research* 1999 58:492-504.
10. McGavern DB, Murray PD, Rivera-Quinones C, Schmelzer JD, Low PA, Rodriguez M. Axonal loss results in spinal cord atrophy, electrophysiological abnormalities and neurological deficits following demyelination in a chronic inflammatory model of multiple sclerosis. *Brain* 2000 123:519-531.
11. Drescher KM, Murray PD, David CS, Lin X, Carlino JA, and Rodriguez M. TGF β 2 reduces demyelination, limits virus antigen expression, and enhances apoptosis in a viral model of multiple sclerosis. *Journal of Immunology* 2000 164(6): 3207 - 3213
12. Murray PD, Wei T, Krivacic K, Chernosky A, and Rodriguez M, and Ransohoff RM. Bi-Phasic and regionally-restricted chemokine expression in the central nervous system in a Viral Model of Multiple Sclerosis. *Journal of Neurovirology* 2000(6) Suppl 1 S44-S52
13. Murray PD, Drescher KM, Leibowitz J, and Rodriguez M. Spontaneous oligodendrocyte-mediated remyelination is associated with improved neurologic function in a viral model of multiple sclerosis. *Brain*. 2001. 124(Pt 7):1403-16.
14. Murray PD, McGavern DB, Pease LR, Rodriguez M. Cellular sources and targets of IFN γ -mediated protection against viral demyelination and neurological deficits. *European Journal of Immunology*. 2002. 32:606-615.
15. Sica G, Harker-Murray PD, Montori VM, Smith SA, for the EVIDENS group. Adherence of Published Diabetes Mellitus Practice Guidelines to Methodological Standards of Guideline Development. *Endocrinology and Metabolism Clinics of North America* 2002. 31:819-828.
16. Crow SS, Sullivan VV, Aysola AE, Key NS, Harker-Murray PD, Foker JE, Steiner ME. Postoperative coagulopathy in a pediatric patient after exposure to bovine topical thrombin. *Ann Thorac Surg*. 2007 Apr;83(4):1547-9.
17. Harker-Murray PD*, Lee AB*, Ferrieri P, Schleiss M, Tolar J. *Contributed equally. Bacterial meningitis

- from *Rothia mucilaginosa* in patients with malignancy or undergoing. hematopoietic stem cell transplantation. *Pediatr Blood Cancer*. 2008 Mar;50(3):673-6.
18. Harker-Murray PD, Avis J Thomas, MS, Xianghua Luo, PhD, Michael R Verneris, MD, Kathryn E Dusenbery, MD, Margaret L MacMillan, MD, Jakub Tolar, MD, PhD, K. Scott Baker, MD, MS, John E Wagner, MD and Paul J Orchard, MD. Allogenic Hematopoietic Cell Transplantation in Children with Relapsed Acute Lymphoblastic Leukemia Isolated to the Central Nervous System. *Biol Blood Marrow Transplant* 2008; 14(6): 685-692.
 19. Hippen KL, Harker-Murray PD., Porter SB et al Umbilical cord blood regulatory T-cell expansion and functional effects of tumor necrosis factor receptor family members OX40 and 4-1BB expressed on artificial antigen-presenting cells. *Blood*. 2008;112:2847-2857
 20. Twombly K, Pokala H, Ardura MI, Harker-Murray P, Johnson-Welch SF, Weinberg A, Seikaly M. Intraventricular Rituximab and Systemic Chemotherapy for Treatment of CNS PTLN after Kidney Transplantation *Pediatr Transplant*. 2012; 16: E201–E20
 21. Amy C. Fowler, David Leonard, Tamra Slone, Christian Tellinghuisen, Paul Harker-Murray, Naomi Winick. Average Absolute Neutrophil Count During Maintenance Chemotherapy in Latino versus non-Latino Caucasian Patients with Childhood Acute Lymphoblastic Leukemia (Submitted)
 22. Chris Fraser, Patrick Brown, Gail Megason, Hyo Seop Ahn, Bin Cho, Ivan Kirov, Lawrence Frankel, Richard Aplenc, Debra Bensen-Kennedy, Mihaela Munteanu, Jennifer Weaver, Paul Harker-Murray. Open Label Bendamustine for Pediatric Patients With Relapsed or Refractory Acute Leukemia: Safety and Efficacy Outcomes (In Press) *J Pediatr Hematol Oncol*. 2014 May; 36(4):e212-8
 23. Harker-Murray P, Drachtman R, Hodgson D, Chauvenet A, Kelly K, Cole P, Stratification Treatment Intensity in Relapsed Pediatric Hodgkin Lymphoma, *Pediatric Blood Cancer*. 2013. Epub Journal of Pediatric Blood Cancer 8 Nov. 2013, DOI:10.1002/pbc.24851.
 24. Harker-Murray P, Drachtman RA, Hodgson DC, Chauvenet AR, Kelly KM, Cole PD. Stratification of treatment intensity in relapsed pediatric Hodgkin lymphoma. *Pediatric Blood Cancer*, 2014 April;61(4);579-86. doi: 10.1002/pbc.24851. Epub 2013 Nov 8.

Abstracts

1. Murray PD, Lin X, Njenga MK, Leibowitz J, Pease LR, Rodriguez M. Perforin and Fas-mediated cytotoxic effector function in the development of demyelination and neurologic deficits in a viral model of multiple sclerosis. Platform Presentation: American Association of Neuropathologists Annual Meeting (June 1998), and Poster Presentation: 1998 Southern Minnesota Chapter of the Society for Neuroscience
2. Murray PD, Pavelko K, Leibowitz J, Pease LR, Rodriguez M. CD4+ and CD8+ T cells make discrete contributions to demyelination and neurologic disease in a viral model of multiple sclerosis. Poster Presentation: 1999 Southern Minnesota Chapter of the Society for Neuroscience
3. Murray PD, Drescher KM, Leibowitz J, and Rodriguez M. Extensive Myelin Repair in a Viral Model of Multiple Sclerosis. Poster Presentation: 1999 Experimental Biology (FASEB) April 1999, and Poster Presentation: 1999 Southern Minnesota Chapter of the Society for Neuroscience.
4. Murray PD, McGavern DB, Pease LR, Rodriguez M. Independent production of IFN γ by CD4 + and CD8+ T cells is required for resistance to viral persistence demyelination, and neurologic disease following infection with Theiler's virus. Poster Presentation: June 1999, Gordon Research Conference on Neurovirology
5. Harker-Murray PD, Tolar J Tan Y, MacMillan ML Wagner JE, Orchard PJ. Hematopoietic Cell Transplantation as Therapy for Pediatric Patients with Isolated CNS Relapse. Poster Presentation. 2005 Annual Meeting of the American Society of Hematology. Abstract #2745 appears in *Blood*, Volume 106, issue 11, November 16, 2005
6. Harker-Murray PD, Dayton V, Neglia J, Tolar J Treatment of EBV-associated T cell post-transplant lymphoproliferative disorder with CNS involvement in a pediatric solid-organ transplant patient. 2006 ASCO Annual Meeting, Abstract No 9040.
7. Harker-Murray PD, Verneris MR, Thomas AJ, Luo X, MacMillan ML, Tolar J, Baker KS, Wagner JE, Orchard PJ. Hematopoietic Cell Transplantation as Therapy for Pediatric Patients with Relapsed Acute Lymphoblastic Leukemia with and without CNS Involvement. 2006 ASH Annual Meeting.
8. Pokala H, Weinberg A, Harker-Murray PD. The Management of Post-Transplant Lymphoproliferative Disorder Resembling Primary CNS Lymphoma in a Pediatric Renal Transplant Patient. 2010 ASPHO Annual Meeting
9. Gupta P, Harker-Murray PD, Sunitinib treatment of malignant pheochromocytoma in a pediatric patient. 2010

ASPHO Annual Meeting

10. Chris Fraser, Patrick Brown, Gail Megason, Hyo Seop Ahn, Bin Cho, Ivan Kirov, Lawrence Frankel, Richard Aplenc, Debra Bensen-Kennedy, Mihaela Munteanu, Jennifer Weaver, Paul Harker-Murray. Open Label Bendamustine for Pediatric Patients With Relapsed or Refractory Acute Leukemia: Safety and Efficacy Outcomes (2011 ASPHO Annual Meeting)