

CURRICULUM VITAE

Paul D. Harker-Murray MD, PhD

Professor

Department of Pediatrics

Division of Hematology and Oncology - Pediatrics

OFFICE ADDRESS:

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

EDUCATION:

09/1989 - 05/1993 BS-Psychology, University of Michigan, Ann Arbor, MI
05/1993 - 05/2001 MD, Mayo Medical School, Mayo Clinic & Foundation, Rochester, MN
05/1993 - 05/2001 PhD, Mayo Graduate School, Mayo Clinic & Foundation, Rochester, MN
2013 - 2014 Faculty Scholar Program in Quality & Safety, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

06/2001 - 06/2004 Internship and Residency in Pediatrics, Pediatrics, University of Minnesota, Children's Hospital Minneapolis, 2450 Riverside Avenue, Minneapolis, MN 55454
07/2004 - 09/2007 Postdoctoral Fellowship, Pediatrics, Hematology/Oncology/BMT, University of Minnesota, 2450 Riverside Avenue, 6th Floor, Minneapolis, MN 55454

FACULTY APPOINTMENTS:

11/01/2001 - 07/15/2013 Assistant Professor, Pediatrics, Hematology/Oncology/BMT, University of Texas, Southwestern Medical Center in Dallas, 1801 Inwood Road, Dallas, TX 75235
08/2013 - 06/2016 Assistant Professor, Pediatrics, Hematology/Oncology/BMT, Medical College of Wisconsin, 8701 Watertown Plank Road, MFRC 3018, Milwaukee, WI 53226
07/2016 - Present Associate Professor, Pediatrics, Hematology/Oncology/BMT, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

2010 - 2013 Education Coordinator for Hematology, Oncology, Bone Marrow Transplant, Children's Medical Center, 1935 Medical Center Drive, Dallas, TX 75235
2015 - Present Director of Resident Education for Hematology, Pediatrics, Hematology/Oncology/Bone Marrow Transplant, Children's Hospital of Wisconsin, 9000 W Wisconsin Avenue, Milwaukee, WI 53226

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

2014 - Present Hospital Acquired Condition (HAC) leader. Invited position., Children's Hospital of Wisconsin, Milwaukee, WI
2014 - Present Value champion: Oversee all quality improvement initiatives, Hematology, Oncology, Bone Marrow Transplantation, Pediatrics, Milwaukee, WI
2014 - 2015 Leader: Clinical Documentation Improvement group of Operational and Financial Stewardship core team, Children's Hospital of Wisconsin, Milwaukee, WI
2014 - 2015 Operational and Financial Stewardship core team, Invited Member, Children's Hospital of Wisconsin, Milwaukee, WI
2017 - Present Epic Provider Clinical Documentation Improvement, Children's Hospital of Wisconsin, Milwaukee, WI 53226
2018 - Present Medical Director, Pediatrics, Hematology/Oncology/BMT Clinical Trials Office

2018 - Present EPIC Provider Cabinet Group Ad Hoc committee to make decisions regarding updates to the electronic medical record that affect multiple areas of care, Children's Hospital of Wisconsin
 2021 - Present CHW Medical Staff Section Chief for Hematology, Oncology and Bone Marrow Transplant, elected position, Hematology, Oncology and Bone Marrow Transplant, Children's Hospital Wisconsin
 2023 - Present Neuro-Oncology Program Director
 2023 - Present Oncology Program Director, Interim

RESEARCH ADMINISTRATIVE APPOINTMENTS:

2016 - Present Institutional Principle Investigator for all Children's Oncology Group (COG) Clinical trials, Pediatrics, Hematology, Oncology, Bone Marrow Transplantation, Medical College of Wisconsin, Milwaukee, WI

HOSPITAL STAFF PRIVILEGES:

12/04/2007 - 07/15/2013 Pediatrics, Hematology/Oncology/BMT, Children's Medical Center, 1935 Medical Center Drive, Dallas, TX 75235
 12/04/2007 - 07/15/2013 Pediatrics, Hematology/Oncology/BMT, St. Paul University Hospital - UT Southwestern Medical Center, 5323 Harry Hines Blvd, Dallas, TX 75235
 12/04/2007 - 07/15/2013 Pediatrics, Hematology/Oncology/BMT, Parkland Health & Hospital System, 5201 Harry Hines Blvd, Dallas, TX 75235
 08/01/2013 - 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>
Pediatric Hematology/Oncology	2009	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Medicine and Surgery	61047-20	07/09/2013	10/31/2021

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 Mobile App Challenge Winner
 2018 MCW Cancer Center Outstanding Achievement Award in Pediatric Clinical Research, Medical College of Wisconsin Cancer Center
 2018 Winner – Pediatric Resident Summer Olympics (month long time-based exercise challenge)
 2020 Winner – Pediatric Resident Summer Olympics (month long time-based exercise challenge)

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

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

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship

2014 - 2018 Young Investigator abstracts

2015 Clinical Research Associates

2022 - Present Editorial Board of Adolescent and Young Adult Oncology (specialty section of Frontiers in Adolescent Medicine).

2023 - Present Editorial Board of Frontiers in Immunology, Issue Cancer Immunity and Immunotherapy

Journal Review

2013 - 2019 Journal of Pediatric Hematology and Oncology (2013, 2014, 2015, 2017, 2018, 2019 x7)

2014 Leukemia and Lymphoma

2015 - 2018 Pediatric Blood and Cancer (2015, 2016 x2, 2018 x2)

2017 Journal of Pulmonary Medicine

2020 Pediatric Research

2020 Blood

2020 Journal of the National Comprehensive Cancer Network

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2012 - Present Member, Children's Oncology Group Hodgkin Lymphoma Committee, Children's Oncology Group

2012 - Present Member, Children's Oncology Group Hodgkin Lymphoma Steering 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

2014 - Present Member, Children's Oncology Group Langerhans Cell Histiocytosis Subcommittee of the Non-Hodgkin lymphoma committee, Children's Oncology Group

2014 - Present One of 12 pediatric oncologist selected from a national pool, Epic Pediatric Oncology Steering Board

2015 - Present Course Co-chair, Board Review, American Society of Pediatric Hematology and Oncology

2016 - Present Member, Solution for Patient Safety (SPS) Hematology and Oncology CLABSI Reduction Workgroup, National collaboration among >30 Children's Hospitals

2016 - Present Invited by Daniel Hayes, MD, FASCO, President-Elect of ASCO to serve as member, Cancer Education Committee, Pediatric Oncology Track, American Society of Clinical Oncology (ASCO)

2016 - Present Appointed Member, Study Committee ANHL1522, Children's Oncology Group

2017 - 2020 Elected Position, American Society of Pediatric Hematology and Oncology Nominating Committee, American Society of Pediatric Hematology and Oncology

2017 - Present liaison from the ASPHO Review Course Committee, American Society of Pediatric Hematology and Oncology (ASPHO) Education Committee, American Society of Pediatric Hematology and Oncology (ASPHO)

2017 - Present Chairperson, Epic Pediatric Oncology Steering Board, nominated and elected by colleagues on the steering board 2017. Lead team to develop improved functionality of EPIC

2017 - Present Chairperson, Epic Pediatric Oncology Steering Board, EPIC

2020 Participant, Accreditation Subcommittee reaccreditation meetings to ensure ASPHO complies with ACCME guidelines, American Society of Pediatrics Hematology and Oncology (ASPHO)

2021 - Present Vice Chair, Children's Oncology Group lymphoblastic lymphoma subcommittee

2022 - Present Lead for development of up-front clinical trials in Pediatric, Adolescent and Young Adult Hodgkin Lymphoma through the Children's Oncology Group

2023 - Present Acting Director, Pediatric Neuro-Oncology Program, Medical College of Wisconsin

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:

AHOD1721: Risk-adapted, response-based, Phase II open-label trial of nivolumab + brentuximab vedotin for children, adolescents, and young adults

Source:	with relapsed/refractory (R/R) CD30 + classic Hodgkin lymphoma who have failed first-line therapy, followed by brentuximab + bendamustine for participants with a suboptimal response. Children's Oncology Group and with international collaboration with EuroNET
Role:	Trial concept, design, and Principal Investigator
PI:	Paul Harker-Murray
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 Glycophosphamide in Recurrent or Refractory Pediatric Solid Tumors.
Source:	South Plains Oncology Consortium (SPOC)
Role:	Protocol Chairperson/Principle Investigator
Dates:	2012 - Present
Title:	ALTE11C1 - Longitudinal Assessment of Ovarian Reserve in Adolescents with Lymphoma
Source:	Children's Oncology Group
Role:	Institutional Principle Investigator
Dates:	2014 - Present
Title:	ACCL0922 - A Phase II Placebo-Controlled Trial of Modafinil to Improve Neurocognitive Deficits in Children Treated for a Primary Brain Tumor
Source:	Children's Oncology Group
Role:	Institutional Principle Investigator
Dates:	2014 - Present
Title:	Phase II Brentuximab Vedotin or Crizotinib with Chemotherapy for Newly Diagnosed ALCL
Source:	Children's Oncology Group
Role:	Institutional Principle Investigator
Dates:	2014 - Present
Title:	COG-APEC14B1. The project everychild protocol: a registry, eligibility screening, biology and outcome study

Source:	Children's Oncology Group
Role:	Institutional Principle Investigator
Dates:	2016 - Present
Title:	ACCL1333/CV185155: A Phase III Randomized, Open Label, Multi-center Study of the Safety and Efficacy of Apixaban for Thromboembolism Prevention versus No Systemic Anticoagulant Prophylaxis during Induction Chemotherapy in Children with Newly Diagnosed Acute Lymphoblastic Leukemia (ALL) or Lymphoma (T or B cell) Treated with Pegylated Asparaginase
Source:	Children's Oncology Group
Role:	Institutional Principle Investigator
Dates:	2016 - Present
Title:	Reduced Burden of Oncologic Therapy in Advanced B-cell Lymphoma (REBOOT ABLY) in Children, Adolescents and Young Adults with CD20+ Mature B-Cell Lymphoma Protocol Type: Treatment
Role:	Institutional Principle Investigator
Dates:	2016 - Present
Title:	AOST1421 A Phase II Study of Human-Mouse Chimeric Anti-Disialoganglioside Monoclonal Antibody ch14.18 (Dinutuximab, NSC# 764038, IND# 4308) in Combination with Sargramostim (GM-CSF) in Patients with Recurrent Osteosarcoma
Source:	Children's Oncology Group
Role:	Institutional Principle Investigator
Dates:	2016 - 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:	05/1991 - 09/1991
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:	09/1991
Title:	Ramipril prevents hypersensitivity to phenylephrine in aorta from streptozotocin-induced diabetic rats.
Source:	University of Michigan, Physiology Department
Role:	Laboratory Research
Dates:	05/1992 - 09/1992
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:	09/1992 - 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 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 6 to 12 years).
Source:	Strakan Pharmaceuticals Ltd
Role:	Institutional Primary Investigator
PI:	Primary Investigator
Dates:	2012 - 2013
Title:	Methylalntrexone 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
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
Dates:	2014 - Present

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Pesenter: 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
- 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
- Harker-Murray, Paul, "Adherence of Published Diabetes Mellitus Practice Guidelines to Methodological Standards of Guideline Development, University of Minnesota, Pediatric Endocrinology, Minneapolis, MN, 2002
- Harker-Murray, Paul, "Vaccine Safety", University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2003
- 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
- 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
- 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
- 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
- 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
- Harker-Murray, Paul, "Hemoglobin Electrophoresis in the Diagnosis of Thalassemia", Residents and Medical Students Lectures, University of Minnesota, Minneapolis, MN, 2004
- Harker-Murray, Paul, "Neonatal Thrombocytopenia", Resident and Medical Student Lectures, University of Minnesota, Minneapolis, MN, 2004
- Harker-Murray, Paul, "Immune Reconstitution Following Bone Marrow Transplantation", Residents and Medical Students Lectures, University of Minnesota, Minneapolis, MN, 2004
- 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
- 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
- Harker-Murray, Paul, "Nasopharyngeal Carcinoma in Pediatric Patients", Pediatric Cancer and Blood Diseases Conference, University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2006
- Harker-Murray, Paul, "Metastatic Rhabdomyosarcoma", Pediatric Cancer and Blood Disease Conference, University of Minnesota, Department of Pediatrics, Minneapolis, MN, 2007
- 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
- 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
- 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, 02/2010
- Harker-Murray, PH, Cord Blood Banking - Provider Responsibilities, UT Southwestern Maternal Fetal Medicine Lecture Series, UT Southwestern, 04/2011
- Harker-Murray, PH, Umbilical Cord Blood Banking: a "safeguard for the future?", UT Southwestern Medical Center Pediatric Grand Rounds, Dallas, TX, 04/2012
- 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
- Harker-Murray, PH, Hemophagocytic Lymphohistiocytosis, Multidisciplinary Case Conference, Children's Medical Center, Dallas, TX, 12/2012

Harker-Murray, PH, Fibrodysplasia Ossificans Progressiva, Multidisciplinary Case Conferences, Children's Medical Center, Dallas, TX, 01/2013

Harker-Murray, PH, Common Symptoms and Intern Calls in Oncology - Preparation for Internship, Medical Student Elective, Dallas, TX, 03/2013

Harker-Murray, PH, Pediatric Oncology: Introducing a family to childhood cancer, Dallas Chapter of the American Academy of Professional Coders, Dallas, TX, 03/2013

Toxic Epidermal Necrolysis in a child with Burkitt lymphoma, Multidisciplinary tumor board, Medical College of Wisconsin, Milwaukee, WI, 04/2014

Therapeutic options for low risk Wilms tumor, Multidisciplinary tumor board presentation, Medical College of Wisconsin, Milwaukee, WI, 05/2014

Checkpoint Inhibitors: Targetable pathways in pediatric Hodgkin and non-Hodgkin lymphomas, Multidisciplinary tumor board presentation, Medical College of Wisconsin, Milwaukee, WI, 08/2015

Checkpoint Inhibitors: Targetable pathways in pediatric Hodgkin and Non-Hodgkin lymphomas, Multidisciplinary Tumor Board Presentation, Medical College of Wisconsin, 08/2015

High risk Hodgkin Lymphoma in the Brentuximab Era, Multidisciplinary tumor board presentation, Medical College of Wisconsin, Milwaukee, WI, 09/2015

Methylaltraxone for opioid induced constipation, Multidisciplinary tumor board presentation, Medical College of Wisconsin, Milwaukee, WI, 09/2015

Evaluation of Treatment Response in Pediatric Hodgkin Lymphoma., Multidisciplinary tumor board presentation, Medical College of WI, 05/2017

34. An International Trial for Relapsed Pediatric Hodgkin Lymphoma, Department of Pediatrics Grand Rounds, Children's Wisconsin, 05/2021

Development of An International Trial for Relapsed Pediatric Hodgkin Lymphoma, Connect to Purpose, 2023

33. Development of a clinical trial for relapsed Hodgkin lymphoma, Discovery and Developmental Research Forum, Medical College of Wisconsin

Development of a clinical trial for relapsed Hodgkin lymphoma, Discovery and Developmental Research Forum, Medical College of WI

Regional

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

National

Harker-Murray, PH, Practical and Ethical Dilemmas in Cord Banking, 41st Kenneth C. Haltalin Pediatrics for the Practitioner Annual Seminar, 04/2009

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, 09/2009

Harker-Murray, PH, Review Course: Lymphoma, American Society of Pediatric Hematology and Oncology, 02/2011

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

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, 03/2012

Hodgkin and non-Hodgkin Lymphoma, American Society of Pediatric Hematology and Oncology Pediatric Hematology and Oncology Board Review Course, Virtual, 01/2021

International

Relapsed Hodgkin Lymphoma in Children: "How do we best stratify intensity of retrieval therapy?", Children's Oncology Group bi-annual meeting, 2013

Brentuximab vedotin and bendamustine for relapsed pediatric Hodgkin lymphoma, Children's Oncology Group bi-annual meeting. Fall, 2014

Relapsed Hodgkin Lymphoma in Children: Proposal for a risk-stratified, response-based trial, Children's Oncology Group bi-annual meeting. Spring, 2014

Nivolumab Followed by Chemotherapy for Relapsed Hodgkin Lymphoma in Children: Proposal for a risk-stratified, response-based trial., Children's Oncology Group bi-annual meeting. Fall, 2015

Incorporation of a PD-1 inhibitor into a clinical trial for Relapsed Hodgkin Lymphoma in Children: Proposal for a risk-stratified, response-based trial., Children's Oncology Group bi-annual meeting. Spring, 2015
Relapsed Hodgkin Lymphoma in Children: Proposal for a collaborative risk-stratified, response-based trial with COG and EuroNet., Children's Oncology Group B-Annual Meeting, 2016
Recent Advances in Pediatric and AYA Lymphomas. Children's Oncology Group / American Society of Pediatric Hematology and Oncology Continuing Medical Education program, COG annual meeting., 2020

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

Lymphoma., American Society of Pediatric Hematology and Oncology Pediatric Hematology and Oncology Board Review Course, 02/2011
Hodgkin and Non-Hodgkin Lymphoma., American Society of Pediatric Hematology and Oncology Pediatric Hematology and Oncology Board Review Course, 02/2013
Lymphoma, American Society of Pediatric Hematology and Oncology Board Review Course, 02/2015
Lymphoma, American Society of Pediatric Hematology and Oncology Board Review Course, 02/2017
Lymphoma, American Society of Pediatric Hematology and Oncology Pediatric Hematology and Oncology Board Review Course, 02/2019
Lymphoma, American Society of Pediatric Hematology and Oncology Pediatric Hematology and Oncology Board Review Course, 02/2019
Clinical Conundrums in Relapsed Hodgkin Lymphoma: Presentation and interactive discussion on Relapsed Hodgkin Lymphoma at the American Society of Pediatric Hematology and Oncology Annual Meeting, 05/2019
Lymphoma, American Society of Pediatric Hematology and Oncology Pediatric Hematology and Oncology Board Review Course, 02/2021
Clinical Conundrums in Pediatric Non-Hodgkin Lymphoma: Presentation and interactive discussion on Relapsed non-Hodgkin Lymphoma, The American Society of Pediatric Hematology and Oncology Annual Meeting, 05/2023
How We Do It®: Novel Biologic Strategies Reshaping Treatment Decision-Making in Pediatric to Adult Hodgkin Lymphoma. Invited speaker, ACCME accredited symposium on pediatric and adult Hodgkin Lymphoma, Fairmount Chicago, Millennium Park, 09/08/2023
How We Do It®: Novel Biologic Strategies Reshaping Treatment Decision-Making in Pediatric to Adult Hodgkin Lymphoma, Invited speaker at ACCME accredited symposium on pediatric and adult Hodgkin Lymphoma, Fairmont Chicago, Millennium Park, 09/08/2023
How We Do It®: Novel Biologic Strategies Reshaping Treatment Decision-Making in Pediatric to Adult Hodgkin Lymphoma., Invited speaker at ACCME accredited symposium on pediatric and adult Hodgkin Lymphoma, Virtual Webinar, 11/16/2023
Children's Oncology Group Young Investigator Summer meeting. Interactive presentation on networking and involvement within COG

COMMITTEE SERVICE:

Medical College of Wisconsin

2008 - 2013 Member, Pediatric Residency Admissions Committee, Pediatrics, UT Southwestern
2010 - 2013 Officer, Billing Compliance, University of Texas Southwestern
2011 - 2013 Member, Fellowship Admissions Committee, Hematology/Oncology/BMT, Pediatrics, UT Southwestern
2012 - 2013 Committee Member, Epic Implementation Committee, Pediatrics, University of Texas Southwestern
2012 - 2013 Member, Continuing Medical Education Committee, Pediatrics, University of Texas Southwestern
2012 - 2013 Member, Chemotherapy Task Force, Pediatrics, University of Texas Southwestern
2012 - 2013 Oversight Physician, Clinical Research Office for the Center for Cancer and Blood Disorders, University of Texas Southwestern
2012 - 2013 Physician Champion, Beacon Committee, Pediatrics, University of Texas Southwestern
2013 - Present Member, MACC Fund Design Core Team, Hematology/Oncology/BMT, Pediatrics,

Medical College of Wisconsin

2013 - Present Member, Epic and Beacon Implementation, 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, Pediatric Intern Selection Committee, Hematology/Oncology/BMT, 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 Chair, Hematology/Oncology/BMT Committee on Quality and Patient Safety, Hematology/Oncology/BMT, Pediatrics, Children's Hospital of Wisconsin

2013 - Present Member, HOT Services Partnership Council, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin

2014 Member, The Clinical Research Seed Grant Review Committee, Medical College of Wisconsin

2014 - Present Member, Pediatric Hematology/Oncology Fellowship Admission Committee, Medical College of Wisconsin

2014 - Present Invited Member, Clinical Competency Committee for Pediatric Hematology Fellows, Medical College of Wisconsin

2020 - Present Present Invited Reviewer, Pilot Grant Applications, Cancer Center, Medical College of Wisconsin Cancer Center

2020 - Present Invited position for prioritization and management of quality improvement initiative, Present Oncology Operations Council, Clinical Leadership Team

2020 - Present Present Invited Reviewer, Pilot Grant Applications, Cancer Center, Medical College of Wisconsin

2023 - Present MCW Freedom of Expression Committee

2023 - Present Member, MCW Dept. of Pediatrics Diversity, Equity, and Inclusion Council

Hospital

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

2013 - Present Member, Documentation Standards - Problem List Sub-committee, Hematology/Oncology/BMT, Pediatrics, Children's Hospital of Wisconsin

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, Leukemia and Lymphoma Committee, Children's Hospital of Wisconsin

2014 - Present Member, Developmental Therapeutics committee, Children's Hospital of Wisconsin

2014 - Present Member, Catheter Line Associated Blood stream Infection (CLABSI) Safety Improvement Team, Children's Hospital of Wisconsin

2014 - Present Member, CLABSI subgroup of Solution for Patient Safety (SPS)

2014 - Present Member, Supportive Care & Cancer Control committee, Children's Hospital of Wisconsin

2014 - Present Member, Pharmacy & Therapeutics Committee, Children's Hospital of Wisconsin

2015 - Present Member, Septicemia Core Team, Children's Hospital of Wisconsin

2017 - Present Invited member, Clinical-Translational Science Review Committee, Children's Wisconsin

2017 - Present Analytics of Strategic Plan for Children's Hospital of Wisconsin for US News and World Report for 2017, 2018, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin

2017 - Present Invited Member, Clinical-Translational Science Review Committee - Standing committees to review all Cancer Center pilot grants, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin

2017 - Present Analytics of Strategic Plan for Children's Wisconsin for US News and World Report for 2017, 2018, 2019

2020 - 2022 Streamline scheduling workflow between oncology, interventional radiology, general surgery, Central Venous Access Device Workgroup Meeting

2021 - Present Invited to participate in group of providers to consult on challenging diagnostic cases, Nelson's Service

04/2022 - Present Member, AYA Working Group- in collaboration with Oncology Program at Froedtert Hospital

09/2022 - Present Member, System Mortality Review Team
11/2023 - Present Culture Ambassador, MACC Fund Center Shared Culture Initiative

MEDICAL COLLEGE TEACHING ACTIVITIES:

Resident and Fellow Education

2013 - Present Ongoing Lectures to Residents and Fellows
2013 - Present Ongoing Didactic Sessions for Residents and Fellows: Controlling Severe Pain In Hospitalized Children
2013 - Present Ongoing Didactic Sessions for Residents and Fellows: Lymphoma and lymphadenopathy
2013 - Present Ongoing Didactic Sessions for Residents and Fellows: Hodgkin and Non-Hodgkin lymphoma
2013 - Present Ongoing Didactic Sessions for Residents and Fellows: E&M Coding in Pediatric Oncology.

EXTRAMURAL TEACHING:

Community/Lay Public

1999 - 2001 Individual English Composition Tutor
1999 - 2001 Rochester Public Library, Homework Assistance Study Table
2011 - 2013 West Mesquite High School, Mentor for GT Mentorship Program
2018 - 2019 Mentor for Elements of Health and Medical Insight Student
2019 - 2020 Facilitated discussion on the development of an international clinical trial for relapsed pediatric Hodgkin lymphoma for Student-Centered Pipeline to Advance Research in Cancer Careers (SPARCC) program
2019 - Present Student Centered Pipeline to Advance Research in Cancer Careers (SPARCC) program. Annual didactic sessions and facilitated discussions on the development of an international clinical trial for relapsed pediatric Hodgkin Lymphoma.
2019 - Present Student-Centered Pipeline to Advance Research in Cancer Careers (SPARCC) program. Annual didactic sessions and Facilitated discussions on the development of an international clinical trial for relapsed pediatric Hodgkin lymphoma
2023 I hosted a college student apprentice (Reshi Mereddy) multiple clinic days over the summer.
2023 In collaboration with The Office of Student Inclusion and Diversity at Marquette University High School, I hosted an Apprenticeship in Medicine (AIM) participant (Vuk Jovanovic) within my clinic over the summer
2023 In collaboration with the Student-Centered Pipeline to Advance Research in Cancer Careers (SPARCC) program I hosted multiple student research apprentices in my leukemia and lymphoma clinic over the summer
2023 In collaboration with the Student Centered Pipeline to Advance Research in Cancer Careers (SPARCC) program I hosted multiple student research apprentices in my leukemia and lymphoma clinic over the summer
2023 I hosted a college student apprentice (Reshi Mereddy) multiple clinic days over the summer

Medical Student Education

2007 University of Minnesota Medical School, Group Instructor, Blood Course
2013 Dallas TX, Common Symptoms and Intern Calls in Oncology - Preparation for Internship, Medical Student Elective
2020 - Present The Mednet. Recruited as nationally recognized expert in pediatric Hodgkin and Non-Hodgkin Lymphoma and Leukemia to answer questions and improve knowledge sharing between physicians to improve patient care

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 University of Texas Southwestern, Ongoing Didactic Sessions for Residents and Fellows:

Introduction to Chemotherapy, Immunotherapy and Immunosuppression
 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:
 Emergencies in Pediatric Oncology
 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 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:
 Anatomic Approach to Bone Marrow Biopsies
 2008 - 2013 UTSW, Didactic Session for Residents and Fellows: Pain Management in Oncology Patients
 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)

Continuing Medical Education

04/2009 41st Kenneth C. Haltalin Pediatrics for the Practitioner Annual Seminar, Practical and Ethical
 Dilemmas in Cord Banking
 09/2009 The Southwest Center for Pediatric Environmental Health and Lake Country AHEC Conference
 on Children's Environmental Health, Paris, TX, Pediatric Cancer - An Overview
 11/2011 Children's Medical Center in conjunction with UTSW Department of Pediatrics, Dallas, TX,
 Practical Pediatric Hematology-Oncology 2011: Lymphadenopathy and Lymphoma
 11/2013 Children's Hospital of Wisconsin, Hodgkin Lymphoma in children. Oncology nursing lecture
 series lead by the leukemia and lymphoma group
 03/2014 Children's Hospital of Wisconsin, Anaplastic Large Cell Lymphoma. Oncology nursing lecture
 series lead by the leukemia and lymphoma group
 05/2014 Children's Hospital of Wisconsin, Pediatric Hodgkin lymphoma. Oncology nursing education
 series
 05/2014 Children's Hospital of Wisconsin, Emergencies caused by lymphoma: Oncology nursing
 education series
 07/2015 Children's Hospital of Wisconsin, Controlling Severe Pain In Hospitalized Children: Didactic
 session for recently hired oncology nurses
 07/2015 Children's Hospital of Wisconsin, Pediatric Hodgkin and non-Hodgkin lymphoma: Didactic
 session for recently hired oncology nurses
 07/2015 Children's Hospital of Wisconsin, Emergencies in Oncology: Didactic session for recently hired
 oncology nurses.

Graduate Student Education

1996 - 2000 Mayo Graduate School, Dept. of Immunology, Immunology Tutor

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

Medical Students

Aaron Domak, Medical College of Wisconsin, 2013 - 2014 Clinical Apprenticeship Course Preceptor:
 Mentor
 Medical College of Wisconsin, 2014 - 2015 Advisor, for medical student Hemal Patel, Clinical Advising
 Program
 Alexandra Lynch, Medical College of Wisconsin, 2014 - 2015 Clinical Apprenticeship Course Preceptor:
 Mentor
 Ashley Quinn, Medical College of Wisconsin, 2014 - Present Advisor for medical students in the Clinical
 Pathways in Quality Improvement and Patient Safety
 Victor Redmon, Medical College of Wisconsin, 2014 - Present Advisor for medical students in the Clinical

Pathways in Quality Improvement and Patient Safety
Sarah Kelm, Medical College of Wisconsin, 2015 - 2016 Present Clinical Apprenticeship Course
Preceptor: Mentor
Rachael Henning, Medical College of Wisconsin, 2015 - Present Advisor for medical students in the
Clinical Pathways in Quality Improvement and Patient Safety

Clinical/Research Fellows

Nathan Schloemer, Medical College of Wisconsin, 2013 - 2016 Mentor - Scholarly Activities Oversight
Melissa Acquazzino, Medical College of Wisconsin, 2014 - 2016 Pediatric Hematology/Oncology Fellow
Emily Olson, Medical College of Wisconsin, 2014 - 2015 Pediatric Hematology/Oncology Fellow
Nikki Sing, Medical College of Wisconsin, 2016 - 2019 Pediatric Cardiology Fellow
Leonid Melnikov, Medical College of Wisconsin, 2020 - 2022 Pediatric Hematology/Oncology Fellow
Alejandra Escobar Vasco, Medical College of Wisconsin, 2021 - 2024 Pediatric Hematology/Oncology
Fellow
Nicole Liberio, Medical College of Wisconsin, 2021 - 2023 Pediatric Hematology/Oncology Fellow

Residents

Lindsay Hoogenboom, MD, Medical College of Wisconsin, 2015 - 2018 Advisor
Michol Holloway, Kathryn Krauss, Jessica Lake, Brilliant Nimmer, Elizabeth Kurowski., Medical College
of Wisconsin, 2015 - 2016 Mentor for resident quality improvement project: Improving Resident
Preparedness and Comfort in the HOT Unit.
Rebecca Volmy, MD, Medical College of Wisconsin, 2023 - Present Advisor to Pediatric Resident

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Residents

University of Texas, Southwestern Medical Center, Dallas, 2010 - 2011 Pediatric Residency Advocacy
Project Mentor
University of Texas, Southwestern Medical Center, Dallas, 2011 - 2013 Mentor, Pediatric Residency
Program

Faculty

Christine Moore Smith, MD Associate Professor, Vanderbilt, 2020 - Present Interest in Hodgkin
lymphoma, non-Hodgkin lymphoma, quality improvement. Have incorporated her into the COG
Hodgkin lymphoma committee, provide individual mentorship
Charles Philips, MD. Assistant Professor, CHOP, 2021 - Present interest in informatics and non-Hodgkin
lymphoma, non-Hodgkin Lymphoma, have incorporated him into COG NHL committee, EPIC
Pediatric Oncology Steering Board
Jenny Belsky, DO. Dr. Assistant Professor, Lead of the Pediatric Lymphoma Team at Riley Hospital for
Children, 2022 - Present Mentorship on program development, clinical research, the development of
international clinical trial in pediatric Hodgkin lymphoma, and am her referee for K08 Award grant

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Resident

2010 - 2013 Developed and implemented comprehensive inpatient and outpatient education program for
pediatric residents on the hematology and oncology service. Included recurring didactic sessions,
teaching file
2015 - Present Developed and implement comprehensive inpatient education program for pediatric
residents on hematology, oncology and bone marrow transplant

Clinical Programs

2013 Developed a comprehensive plan to improve efficiency and accuracy in documentation in EPIC that
complied with provider E&M billing and coding and hospital APR-DRG based billing.

2023 - Present Member, Langerhans Cell Histiocytosis (LCH) Working Group, North American Consortium for Histiocytosis (NACHO)

COMMUNITY SERVICE ACTIVITIES:

- 1999 - 2001 Individual English Composition Tutor
- 1999 - 2001 Rochester Public Library, Homework Assistance Study Table
- 2011 - 2013 West Mesquite High School, Mentor for GT Mentorship Program
- 2018 - 2019 Mentor for Megan Stoffield, Elements of Health and Medicine Insight course, Pewaukee, WI
- 2019 - 2020 Mentor for Jayden Schultz, Elements of Health and Medicine Insight course, Pewaukee, WI
- 2019 - Present Centered Pipeline to Advance Research in Cancer Careers (SPARCC) program. Annual didactic sessions and Facilitated discussions on the development of an international clinical trial for relapsed pediatric Hodgkin lymphoma
- 2023 - Present Volunteer, Guest House, Milwaukee, WI

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. Allogeneic 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. Erker C, **Harker-Murray P**, Burke M., Emerging Immunotherapy in Pediatric Lymphoma, *Future Oncol*. 2016 Jan;12(2):257-70
 25. Erker C, **Harker-Murray P**, Talano J., Usual and Unusual Manifestations of Familial Hemophagocytic Lymphohistiocytosis and Langerhans Cell Histiocytosis, *Pediatric Clinics of North America* 2017 Feb; 64 (1): 91–109
 26. Erker C, Huppler A, Walsh T, McCormick M, Southwood J, and **Harker-Murray P.**, Management of Invasive *Conidiobolus* Infection During Therapy for Acute Lymphoblastic Leukemia, *J Pediatr Hematol Oncol*. 2017
 27. Esbenshade AJ, Pierson CR, Thompson AL, Reed D, Gupta A, Levy A, Kahalley LS, **Harker-Murray P**, Schore R, Muscal JA, Embry L, Maloney K, Horton T, Zweidler-Mckay P, Dhall G., Long-term evidence that a pediatric oncology mentorship program for young investigators is feasible and beneficial in the cooperative group setting: A report from the Children's Oncology Group. *Pediatr Blood Cancer*. 2018 Mar;65(3).
 28. Adam J. Esbenshade, Lisa S. Kahalley, Reto Baertschiger, Roshni Dasgupta, Kelly C. Goldsmith, Paul C. Nathan, Paul Harker-Murray, Carrie L. Kitko, Edward Anders Kolb, Erin S. Murphy, Jodi A. Muscal, Christopher R. Pierson, Damon Reed, Reuven Schore, Yoram Unguru, Rajkumar Venkatramani, Birte Wistinghausen, Girish Dhall, Mentors' perspectives on the successes and challenges of mentoring in the COG Young Investigator mentorship program: A report from the Children's Oncology Group, *Pediatr Blood Cancer*. 2019;e27920. <https://doi.org/10.1002/pbc.27920>
 29. Jing Qi; Sachin S. Kumbhar, MD; Paul D. Harker-Murray, MD; Richard L. Tower, MD; Yonggang Lu, PhD; Nghia (Jack) N. Vo, MD. Clinical utilization of PET/MRI in pediatric patients with lymphoma: A single center experience. Submitted to *Cancer Imaging*
 30. Goldman S, Barth M, Shiramizu B, Shi Q, Hochberg J, Klejmont L, Harrison L, Basso J, Chu Y, Islam H, Gerard P, Agsalda-Garcia M, Shieh T, Oesterheld J, Heym K, Kirov I, Drachtman R, **Harker-Murray P**, Perkins S, Miles RR, Cairo M. A dose substitution of anthracycline intensity with dose-dense

- rituximab in children and adolescents with good-risk mature B-cell lymphoma. *Leukemia* 2021 Oct;35(10):2994-2997
31. Paul Harker-Murray, MD, PhD¹; Christine Mauz-Körholz, MD; Thierry Leblanc, MD; Maurizio Mascarin, MD; Gérard Michel, MD; Stacy Cooper, MD; Auke Beishuizen, MD, PhD; Kasey J. Leger, MD, MSc; Loredana Amoroso, MD; Salvatore Buffardi, MD; Charlotte Rigaud, MD; Markus Puhlmann; Stephen Francis, MSc; Mariana Sacchi, MD; Peter D. Cole, MD; Richard A. Drachtman, MD; Kara M. Kelly, MD; Stephen Daw, MD. Response-Adapted Therapy with Nivolumab and Brentuximab Vedotin for Children, Adolescents, and Young with Standard-Risk Relapsed or Refractory Hodgkin Lymphoma (Submitted) 2021
 32. Mentors' perspectives on the successes and challenges of mentoring in the COG Young Investigator mentorship program: A report from the Children's Oncology Group Adam J. Esbenshade, Lisa S. Kahalley, Reto Baertschiger, Roshni Dasgupta, Kelly C. Goldsmith, Paul C. Nathan, Paul Harker-Murray, Carrie L. Kitko, Edward Anders Kolb, Erin S. Murphy, Jodi A. Muscal, Christopher R. Pierson, Damon Reed, Reuven Schore, Yoram Unguru, Rajkumar Venkatramani, Birte Wistinghausen, Girish Dhall. *Pediatr Blood Cancer*. 2019;e27920. [https://doi.org/ 10.1002/pbc.27920](https://doi.org/10.1002/pbc.27920)
 33. Jing Qi; Sachin S. Kumbhar, MD; Paul D. Harker-Murray, MD; Richard L. Tower, MD; Yonggang Lu, PhD; Nghia (Jack) N. Vo, MD. Clinical utilization of PET/MRI in pediatric patients with lymphoma: A single center experience. (Submitted to Cancer Imaging) 2021
 34. Paul Harker-Murray, MD, PhD, Lauren Pommert, MD, MS, Matthew J Barth, MD. Novel Therapies Potentially Available for Pediatric B-NHL. *Journal of the National Comprehensive Cancer Network Journal of the National Comprehensive Cancer Network (JNCCN)* 18(8):1125-1134 2021
 35. Jing Qi, MD; Pooja D. Thakrar; Paul D. Harker-Murray, MD; Richard L. Tower, MD; Nghia (Jack) N. Vo, MD; Sachin S. Kumbhar, MD. Preliminary experience with 30-minute PET/MRI for evaluation of pediatric lymphoma (Submitted to Pediatric Radiology) 2021
 36. David T. Teachey MD, Meenakshi Devidas PhD, Brent L Wood MD, PhD, Zhiguo Chen MS, Robert J Hayashi MD, Michelle L. Hermiston, MD PhD, Robert D Annett PhD, J. Hunter Archer BS, Barbara L Asselin MD, Keith J August MD MS, Steve Y Cho MD, Kimberly P. Dunsmore MD, Brian T. Fisher DO MSCE, Jason L. Freedman MD, Paul J. Galaray MD, Paul Harker-Murray MD PhD, Terzah M Horton MD PhD, Alok I Jaju MD, Allison Lam BCPS, Yoav H. Messinger MD, Rodney R. Miles MD PhD, Maki Okada RN, Samir I Patel MD, Eric S. Schafer MD MHS, Tal Schechter-Finkelstein MD, Kristin A. Shimano MD, Neelam Singh PhD, Amii C. Steele PhD, Maria L. Sulis MD, Sarah L Vargas PhD, Stuart S. Winter MD, Charlotte Wood CCRP, Patrick Zweider-McKay MD PhD, Catherine M. Bollard MD MBChB, Mignon L. Loh MD, Stephen P. Hunger MD and Elizabeth A. Raetz MD Children's Oncology Group Trial AALL: A Phase Clinical Trial Testing Bortezomib in Newly Diagnosed T-cell Acute Lymphoblastic Leukemia and Lymphoma (Submitted) 2021
 37. Olivia M.T. Davies, MD; John M. Astle, MD, PhD; Paul D. Harker-Murray, MD, PhD; Karolyn A. Wanat, MD; Valerie M. Carlberg, MD. Cutaneous Presentation of ALK+ Anaplastic Large Cell Lymphoma in a 12-year-old Male with Regional Nodal Involvement (Submitted to Pediatric Dermatology, 2021)
 38. Amanda Scheuerman DO; Paul Harker-Murray MD, PhD; Lauren Pommert MD MS. Posterior Reversible Encephalopathy Syndrome in the Setting of Asparaginase-Associated Pancreatitis in Two Pediatric Patients with Acute Leukemia (*J Pediatr Hematol Oncol.*) 2021 • This is a mentored publication
 39. Goldman S, Barth M, Shiramizu B, Shi Q, Hochberg J, Klejmont L, Harrison L, Basso J, Chu Y, Islam H, Gerard P, Agsalda-Garcia M, Shieh T, Oesterheld J, Heym K, Kirov I, Drachtman R, **Harker-Murray P**, Perkins S, Miles RR, Cairo M. A dose substitution of anthracycline intensity with dose-dense rituximab in children and adolescents with good-risk mature B-cell lymphoma. *Leukemia* 2021 Oct;35(10):2994-2997
 40. Amanda Scheuerman DO; Paul Harker-Murray MD, PhD; Lauren Pommert MD MS. Posterior Reversible Encephalopathy Syndrome in the Setting of Asparaginase-Associated Pancreatitis in Two Pediatric Patients with Acute Leukemia (*J Pediatr Hematol Oncol* 2022;44:e709–e712) • This is a mentored publication
 41. Paul Harker-Murray, MD, PhD¹; Christine Mauz-Körholz, MD; Thierry Leblanc, MD; Maurizio Mascarin, MD; Gérard Michel, MD; Stacy Cooper, MD; Auke Beishuizen, MD, PhD; Kasey J. Leger, MD, MSc; Loredana Amoroso, MD; Salvatore Buffardi, MD; Charlotte Rigaud, MD; Markus Puhlmann; Stephen Francis, MSc; Mariana Sacchi, MD; Peter D. Cole, MD; Richard A. Drachtman, MD; Kara M. Kelly, MD; Stephen Daw, MD. Response-Adapted Therapy with Nivolumab and Brentuximab Vedotin for Children, Adolescents, and Young with Standard-Risk Relapsed or Refractory Hodgkin Lymphoma (Submitted)

42. Jing Qi, MD; Pooja D. Thakrar; Paul D. Harker-Murray, MD; Richard L. Tower, MD; Nghia (Jack) N. Vo, MD; Sachin S. Kumbhar, MD. Preliminary experience with 30-minute PET/MRI for evaluation of pediatric lymphoma (Submitted to Pediatric Radiology)
43. David T. Teachey MD, Meenakshi Devidas PhD, Brent L Wood MD, PhD, Zhiguo Chen MS, Robert J Hayashi MD, Michelle L. Hermiston, MD PhD, Robert D Annett PhD, J. Hunter Archer BS, Barbara L Asselin MD, Keith J August MD MS, Steve Y Cho MD, Kimberly P. Dunsmore MD, Brian T. Fisher DO MSCE, Jason L. Freedman MD, Paul J. Galardy MD, Paul Harker-Murray MD PhD, Terzah M Horton MD PhD, Alok I Jaju MD, Allison Lam BCPS, Yoav H. Messinger MD, Rodney R. Miles MD PhD, Maki Okada RN, Samir I Patel MD, Eric S. Schafer MD MHS, Tal Schechter-Finkelstein MD, Kristin A. Shimano MD, Neelam Singh PhD, Amii C. Steele PhD, Maria L. Sulis MD, Sarah L Vargas PhD, Stuart S. Winter MD, Charlotte Wood CCRP, Patrick Zweider-McKay MD PhD, Catherine M. Bollard MD MBChB, Mignon L. Loh MD, Stephen P. Hunger MD and Elizabeth A. Raetz MD Children's Oncology Group Trial AALL: A Phase Clinical Trial Testing Bortezomib in Newly Diagnosed T-cell Acute Lymphoblastic Leukemia and Lymphoma (Journal of Clinical Oncology, In Press)
44. Olivia M.T. Davies, MD; John M. Astle, MD, PhD; Paul D. Harker-Murray, MD, PhD; Karolyn A. Wanat, MD; Valerie M. Carlberg, MD. A 12-year-old male with localized, pink, tender papules (Pediatric Dermatology Vol 40, No 2, March/April 2023, Pages 367-368)
45. Scheuermann, Amanda DO; Moskop, Amy MD; Hopp, Amanda MD; Bone, Kathleen PhD; Drendel, Holli M. PhD; Talano, Julie MD; Harker-Murray, Paul MD, PhD; Astle, John MD, PhD Pediatric Donor Cell Acute Lymphoblastic Leukemia Following Bone Marrow Transplant for GATA2 Mutation. Journal of Pediatric Hematology and Oncology (March 2022)
46. Amanda L. Scheuermann; Paul D. Harker Murray; Scott K. Van Why; Amanda M. Hopp; Kara E. Young; John J. Dillon; Christian Hanna. Nephrogenic Systemic Fibrosis with a Group II Gadolinium-Based Contrast Agent in a Pediatric Patient with Leukemia and Acute Kidney Injury (Accepted in Pediatric Nephrology, 2021) • This is a mentored publication
47. Lauren J. Miller, MJ; Vasiliki Leventaki, MD, Paul D. Harker-Murray, MD, PhD; Holli M. Drendel, PhD; Kathleen M. Bone, PhD A complex KMT2A:AFF3 fusion resulting from a three-way chromosomal rearrangement in pediatric B lymphoblastic leukemia (Cancer Genetics, In Press, 2021) • This is a mentored publication
48. Paul Harker-Murray, MD, PhD1; Christine Mauz-Körholz, MD; Thierry Leblanc, MD; Maurizio Mascarin, MD; Gérard Michel, MD; Stacy Cooper, MD; Auke Beishuizen, MD, PhD; Kasey J. Leger, MD, MSc; Loredana Amoroso, MD; Salvatore Buffardi, MD; Charlotte Rigaud, MD; Markus Puhlmann; Stephen Francis, MSc; Mariana Sacchi, MD; Peter D. Cole, MD; Richard A. Drachtman, MD; Kara M. Kelly, MD; Stephen Daw, MD. Response-Adapted Therapy with Nivolumab and Brentuximab Vedotin for Children, Adolescents, and Young with Standard-Risk Relapsed or Refractory Hodgkin Lymphoma (Blood. 2023 Apr 27;141(17):2075-2084)
49. Christopher Forlenza, Jaclyn Rosenzweig, Audrey Mauguen, Ilia Buhtoiarov, Branko Cuglievan, Hema Dave, , Rebecca Deyell, Jamie Flerlage, Anna Franklin, Jennifer Krajewski, Kasey Leger, Lianna Marks, Robin Norris, Martha Pacheco, Faye Willen, Adam Yan, Paul Harker-Murray, Lisa Giulino-Roth. Brentuximab Vedotin Following Autologous Transplantation in Pediatric Patients with Relapsed/Refractory Hodgkin Lymphoma (Blood Adv 2023 Mar 10, online ahead of print)
50. Jennifer A. Belsky DO, MS a b, Jamie Shoag MD, MPH c, Paul D. Harker-Murray MD, PhD d, Justine M. Kahn MD, MS. Advances in Pediatric Hodgkin Lymphoma with an Eye on Disparities and Vulnerable Populations. Advances in Oncology Volume 3, Issue 1, May 2023, Pages 67-76
51. Radiotherapy Use in Refractory and Relapsed Pediatric Hodgkin Lymphoma: A Report from the Children's Oncology Group (International Journal of Radiation Oncology, Biology, Physics, In Press)
52. Sharon M. Castellino, Lisa Giulino-Roth, Paul Harker-Murray, Justine Kahn, Christopher Forlenza, Steve Cho, Brad Hoppe, Susan K. Parsons, Kara M. Kelly on behalf of the COG Hodgkin Lymphoma Committee. Children's Oncology Group's 2023 Blueprint for Research: Hodgkin Lymphoma. Pediatr Blood Cancer. 2023;e30580.

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.
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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
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17. Jeanne Braby, MSN, RN, CCRN; Rainer Gedeit, M.D.; Vijendar Karody, M.D.; Paul Harker-Murray, M.D., PhD Reduction of Central Line Associated Bloodstream Infections Using Standard Bundles Varies by Patient Population. Children's Hospital of Wisconsin Pediatric Nursing Conferenc, November 2, 2016. Brookfield, WI
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25. Kara M. Kelly, Stephen Daw, Christine Mauz-Körholz, Maurizio Mascarin, Gerard Michel, Stacy Cooper, Auke Beishuizen, Kasey J. Leger, Alberto Garaventa, Salvatore Buffardi, Laurence Brugières, Peter D. Cole, Paul Harker-Murray, Richard A. Drachtman, Thomas Manley, Stephen Francis, Mariana Sacchi, Thierry Leblanc. Response-Adapted Treatment with Nivolumab and Brentuximab Vedotin in Young Patients With Relapsed/Refractory Classical Hodgkin Lymphoma: CheckMate 744 Subgroup Analyses. 15th Annual International Conference on Malignant Lymphoma (ICML), 2019 (Oral Presentation)
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 30. P. Harker-Murray, Q. Pei, C. Forlenza, R. Drachtman, P. Cole, K. Kelly A New Model for Stratification of Treatment Intensity in Relapsed Pediatric Hodgkin Lymphoma. . Poster presentation: 4th International Symposium on Childhood, Adolescent and Young Adult Hodgkin Lymphoma
 31. Peter D. Cole, MD; Christine Mauz-Körholz, MD, Maurizio Mascarin, MD; Gérard Michel, MD; Stacy Cooper, MD; Auke Beishuizen, MD, PhD; Kasey J. Leger, MD, MSc; Loredana Amoroso, MD; Salvatore Buffardi, MD; Charlotte Rigaud, MD; Markus Puhlmann; Stephen Francis, MSc; Mariana Sacchi, MD; Richard A. Drachtman, MD; Paul Harker-Murray, MD, PhD; Thierry Leblanc, MD; Stephen Daw, MD; Kara K. Kelly, MD. Nivolumab and brentuximab vedotin (BV)-based, response?adapted treatment in children, adolescents, and young adults (CAYA) with standard-risk relapsed/refractory classical Hodgkin lymphoma (R/R cHL): Primary analysis. American Society of Clinical Oncology Annual Meeting 2020
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38. Christine Mauz-Körholz, Peter D. Cole, Maurizio Mascarin, Gérard Michel, Stacy Cooper, Auke Beishuizen, Kasey J. Leger, Loredana Amoroso, Salvatore Buffardi, Charlotte Rigaud, Markus Puhlmann, Stephen Francis, Mariana Sacchi, Richard A. Drachtman, Paul Harker-Murray, Thierry Leblanc, Stephen Daw, Kara M. Kelly. Nivolumab (nivo) and brentuximab vedotin (BV)-based, response-adapted treatment in children, adolescents, and young adults (CAYA) with standard-risk relapsed/refractory classical Hodgkin lymphoma (R/R cHL): Primary analysis of the R2 cohort of the phase 2 CheckMate 744 study Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie (DGHO) 2020
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55. Teachey DT, Devidas M, Wood BL, Chen Z, Hayashi RJ, Annett R, Asselin B, August K, Cho S, Dunsmore K, Fisher BT, Freedman JL, Galardy PJ, **Harker-Murray P**, Hermiston M, Horton T, Jaju AI, Lam A, Messinger YH, Miles RR, Okada N, Patel SI, Rao KW, Schafer ES, Schechter-Finkelstein T, Shimano KA, Singh N, Steele AC, Sulis ML, Vargas SL, Winter S, Wood C, Zweidler-McKay PA, Bollard CM, Loh ML*, Hunger SP*, and Raetz EA*. Children's Oncology Group (COG) Trial AALL1231: Cranial Radiation Can Be Eliminated in Most Children with T-cell Acute Lymphoblastic Leukemia (T-ALL) and Bortezomib Potentially Improves Survival in Children with T-cell Lymphoblastic Lymphoma (T-LL). American Society of Hematology 2020 Annual Meeting.
 56. Jessica Hochberg, Stan Goldman, Matthew Barth, Qiuhu Shi, Liana Klejmont, Lauren Harrison, Jackie Basso, Yaya Chu, Humayun Islam, Perry Gerard, Javier Oesterheld, Kenneth Heym, Ivan Kirov, Richard Drachtman, Paul Harker-Murray, Sherrie Perkins, Rodney Miles, Bruce Shiramizu, and Mitchell Cairo. Final Report of Reduced Anthracycline Dose Intensity with the Addition of Dose Dense Rituximab in Children, Adolescents and Young Adults with de Novo Good Risk Mature B-cell Lymphoma. American Society of Hematology 2020 Annual Meeting.
 57. Miller, LJ; Scheuermann, A; Harker-Murray, P. Glutamine Supplementation and the Prevention of Mucositis and Infection During Chemotherapy: A quality improvement project.
 58. Paul Harker-Murray, MD, PhD, Brent L Wood, MD, PhD, Meenakshi Devidas, PhD, Zhinguo Chen, MS4, Tal Schechter-Finkelstein, MD, Robert J Hayashi, MD, Keith J August, MD, MS, Kimberly P Dunsmore, MD, Michelle L Hermiston, MD, PhD, Terzah Horton, MD, PhD, Yoav H Messinger, MD, Eric S Schafer, MD, MHS, Maria L Sulis, MD, Sarah L Vargas, PhD, Stuart S Winter, MD, Charlotte Wood, CCRP, Catherine M Bollard, MD, MBChB, Mignon L Loh, MD, Steve P Hunger, MD, Elizabeth A Raetz, MD, David T Teachey, MD, Intensification of chemotherapy using a modified BFM backbone for children, adolescents and young adults with T-cell acute lymphoblastic leukemia (T-ALL) and T-cell lymphoblastic lymphoma (T-LL) identifies highly chemorefractory patients who benefit from allogeneic hematopoietic stem cell transplantation, American Society of Hematology 2021 Annual Meeting (Abstract 3487)
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