



## Lianna Marks

Clinical Associate Professor, Pediatrics - Hematology & Oncology

### CLINICAL OFFICE (PRIMARY)

- **LPCH Hospital Medicine**

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### Bio

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#### CLINICAL FOCUS

- Pediatric Hematology-Oncology

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Hematology & Oncology
- Member, Maternal & Child Health Research Institute (MCHRI)

#### PROFESSIONAL EDUCATION

- Residency: Children's Hospital of Philadelphia Dept of Pediatrics (2014) PA
- Board Certification: Pediatric Hematology-Oncology, American Board of Pediatrics (2019)
- Fellowship: NY Presbyterian Hospital Columbia Pediatric Hematology and Oncology Fellowship (2017) NY
- Board Certification: Pediatrics, American Board of Pediatrics (2014)
- Medical Education: Indiana University School of Medicine (2011) IN
- BA, Columbia University (2006)

### Research & Scholarship

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#### CLINICAL TRIALS

- A Study to Evaluate Tabelecleucel in Participants With Epstein-barr Virus-associated Diseases, Recruiting
- Study of the Adverse Events and Change in Disease State of Pediatric Participants (and Young Adults Between the Ages of 18-25) With Relapsed/Refractory Aggressive Mature B-cell Neoplasms Receiving Subcutaneous (SC) Injections of Epcoritamab, Not Recruiting
- Tiragolumab and Atezolizumab for the Treatment of Relapsed or Refractory SMARCB1 or SMARCA4 Deficient Tumors, Not Recruiting
- Trastuzumab Deruxtecan for the Treatment of HER2+ Newly Diagnosed or Recurrent Osteosarcoma, Not Recruiting

## Publications

### PUBLICATIONS

- **Clinicopathologic and Molecular Characteristics of Merkel Cell Polyomavirus Positive T-Cell Lymphoproliferative Disorders.** *The American journal of surgical pathology*  
Bulterys, P., Zhou, C. W., Gong, S., Gars, E., Zhang, J., Younes, S., Stone, A., Hirt, C., Marks, L., Su, C., Stehr, H., Lawrence, L., Tan, et al  
2026; 50 (5): 481-500
- **Clinicopathologic and Molecular Characteristics of Merkel Cell Polyomavirus Positive T-cell Lymphoproliferative Disorders**  
Bulterys, P., Zhou, C., Gong, S., Gars, E., Zhang, J., Younes, S., Stone, A., Hirt, C., Marks, L., Su, C., Stehr, H., Lawrence, L., Tan, et al  
ELSEVIER SCIENCE INC.2026
- **Dose-dense chemotherapy enables elimination of RT for majority of low-risk pediatric Hodgkin lymphoma: PHC study HOD08.** *Blood*  
Flerlage, J. E., Feraco, A. M., Zhou, Y., Zheng, Y., Liang, J., Lucas, J. T., Friedmann, A. M., Weinstein, H. J., Yock, T. I., Shulkin, B. L., Kaste, S. C., Marks, L. J., Ehrhardt, et al  
2026
- **Abnormal immunoglobulin expression and B-cell follicle organization in inborn errors of immunity/primary immunodeficiency.** *Virchows Archiv : an international journal of pathology*  
Naor, S., Schiby, G., Adam, E., Somech, R., Molchanov, Y., Barshack, I., Lewis, D. B., Marks, L., Gratzinger, D.  
2025
- **Imaging Updates From the International Harmonization Efforts for Pediatric and Young Adult Hodgkin Lymphoma: A Report From Search for Cayahl**  
Seelisch, J., Mauz-Korholz, C., Kelly, K., McCarten, K., Punnett, A., Dieckmann, K., Marks, L., Drachtman, R., Pabari, R., Lai, H., Palese, M., Beishuizen, A., Kluge, et al  
WILEY.2025: S682-S683
- **Pediatric Relapsed Or Refractory Alk-Negative Anaplastic Large Cell Lymphoma: A Multicenter Case Series**  
Marks, L., Rivers, J., Forlenza, C., Greer, C., Schultz, L.  
WILEY.2025: S336
- **Langerhans Cell Histiocytosis in Cardiofaciocutaneous Syndrome.** *American journal of medical genetics. Part A*  
Keehan, L., Sleightholm, R., Marks, L. J., Stevenson, D. A., Niehaus, A. D.  
2025: e64294
- **Distinct cell state ecosystems for nodular lymphocyte-predominant Hodgkin lymphoma.** *Nature communications*  
Subramanian, A., Su, S., Flerlage, J., Alig, S., Younes, S., Marks, L. J., Pinnix, C., Vega, F., Steiner, R., Kumar, P., Mocikova, H., Sykorova, A., Prochazka, et al  
2025; 16 (1): 8473
- **IMPACT OF EPSTEIN BARR VIRUS (EBV) STATUS OF LESIONS, 2016 WHO HISTOLOGIC GRADE AND TIME OF ONSET ON OUTCOME OF POST-TRANSPLANT LYMPHOPROLIFERATIVE DISORDER (PTLD) IN PEDIATRIC SOLID ORGAN TRANSPLANT (SOT) AND HEMATOPOIETIC STEM CELL TRANSPLANT (HCT) RECIPIENTS: RESULTS OF A PROSPECTIVE/RETROSPECTIVE MULTICENTER STUDY**  
Green, M., Marks, L. J., Agarwal, M., Goss, C. W., Dharnidharka, V. R.  
WILEY.2025
- **METABOLIC-ONLY RESPONSE ASSESSMENT ALLOWS FOR OMISSION OF RESIDUAL NODE RADIATION THERAPY (RNRT) FOR THE MAJORITY OF PATIENTS WITH CLASSICAL HODGKIN LYMPHOMA (cHL) WHILE MAINTAINING EXCELLENT EVENT FREE (EFS) AND OVERALL SURVIVAL (OS): A REPORT FROM THE PEDIATRIC HODGKIN CONSORTIUM'S PHASE 2 STUDY cHOD17 (NCT03755804)**  
Flerlage, J. E., Feraco, A. M., Zhou, Y., Zheng, Y., Lucas, J. T., Dixon, S. B., Blake, J., Wilemon, L., Roberts, B. A., Marks, L. J., Friedmann, A. M., MacDonald, S., Weinstein, et al  
PERGAMON-ELSEVIER SCIENCE LTD.2025
- **IMPACT OF TIME OF ONSET OF PEDIATRIC POST-TRANSPLANT LYMPHOPROLIFERATIVE DISORDER OUTCOMES: RESULTS FROM A PROSPECTIVE/RETROSPECTIVE MULTICENTER STUDY**  
Marks, L. J., Green, M., Agarwal, M., Goss, C. W., Dharnidharka, V. R., PTLD-MSMS Grp  
PERGAMON-ELSEVIER SCIENCE LTD.2025

- **Primary Splenic Nodular Lymphocyte Predominant Hodgkin Lymphoma (NLPHL): First Reported Case in a Young Child.** *Pediatric and developmental pathology : the official journal of the Society for Pediatric Pathology and the Paediatric Pathology Society*  
Vergara, J. S., Marks, L. J., Silva, O.  
2025: 10935266251368431
- **Advances and updates in pediatric anaplastic large cell lymphoma.** *Blood advances*  
Marks, L. J., Lowe, E. J., Kamdar, K. Y.  
2025
- **Metabolic-only response assessment for omission of residual node radiation therapy (RNRT) for patients with classical Hodgkin lymphoma (cHL) and impact on event free (EFS) and overall survival (OS): A report from the Pediatric Hodgkin Consortium's phase 2 study cHOD17 (NCT03755804).**  
Flerlage, J., Feraco, A., Zhou, Y., Zheng, Y., Lucas Jr, J., Rogers-Blake, J., Wilemon, L., Roberts, B. A., Marks, L., Friedmann, A., MacDonald, S. M., Weinstein, H. J., De Alarcon, et al  
LIPPINCOTT WILLIAMS & WILKINS.2025: 10018
- **PTLD - It's Best to Face This Growing Challenge at the Start.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*  
Blosser, C. D., Marks, L. J., Dhamidharka, V. R.  
2025
- **PET Response and Outcome in Low-Risk Nodular Lymphocyte-Predominant Hodgkin Lymphoma: Children's Oncology Group Study AHOD03P1.** *Pediatric blood & cancer*  
Marks, L. J., Wu, Y., McCarten, K. M., Renfro, L. A., Pei, Q., Kelly, K. M., Schwartz, C. L., Castellino, S. M., Appel, B. E.  
2025: e31606
- **Pediatric relapsed/refractory ALK+ anaplastic large cell lymphoma treatment and outcomes in the targeted drug era.** *Blood advances*  
Marks, L. J., Ritter, V., Agrusa, J., Kamdar, K. Y., Rivers, J., Gardner, R. A., Ehrhardt, M. J., Devine, K. J., Phillips, C. A., Reilly, A. F., August, K., Weinstein, J. L., Satwani, et al  
2025
- **The Post-transplant Lymphoproliferative Disorders-Metagenomic Shotgun Microbial Sequencing (PTLD-MSMS) Study Methods and Protocol.** *Transplantation direct*  
Dhamidharka, V. R., Wylie, K. M., Wylie, T. N., Ruzinova, M. B., Goss, C. W., Storch, G. A., Mehta-Shah, N., Byers, D., Walther, L., Jaza, L., Gu, H., Agarwal, M., Green, et al  
2024; 10 (11): e1723
- **Post-Transplant Lymphoproliferative Disorders (Review for Seminars in Nephrology).** *Seminars in nephrology*  
Dhamidharka, V. R., Ruzinova, M. B., Marks, L. J.  
2024: 151503
- **Distinct Hodgkin lymphoma subtypes defined by noninvasive genomic profiling.** *Nature*  
Alig, S. K., Esfahani, M. S., Garofalo, A., Li, M. Y., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M. C., Olsen, M., Telenius, et al  
2023
- **Genomic, Transcriptional, and Immunological Validation of Distinct Molecular Subtypes of Classic Hodgkin Lymphoma through Tissue-Based and Noninvasive Methods**  
Alig, S. K., Esfahani, M., Garofalo, A., Li, M., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M., Olsen, M., Telenius, et al  
AMER SOC HEMATOLOGY.2023
- **Performance of Positron Emission Tomography at Diagnosis and Response Assessment in Low and Intermediate-Risk Nodular Lymphocyte Predominant Hodgkin Lymphoma**  
Marks, L. J., McCarten, K., Pei, Q., Wu, Y., Kelly, K. M., Schwartz, C., Wolden, S., Friedman, D. L., Castellino, S. M., Appel, B.  
AMER SOC HEMATOLOGY.2023
- **Validation of Childhood Hodgkin International Prognostic Score (CHIPS) for Predicting Event-Free Survival in Intermediate and High-Risk Hodgkin Lymphoma**  
Marks, L. J., Zhou, Y., Zheng, Y., Feraco, A., Friedmann, A. M., Weinstein, H. J., Link, M. P., Flerlage, J. E.  
AMER SOC HEMATOLOGY.2023

- **CURRENT STATE OF INTERNATIONAL HARMONIZATION EFFORTS FOR PEDIATRIC AND YOUNG ADULT HODGKIN LYMPHOMA: A REPORT FROM THE SEARCH FOR CAYAH GROUP**  
Seelisch, J., Punnett, A., Kelly, K., Mauz-Koerholz, C., Marks, L., Palese, M., Pabari, R., Dieckmann, K., Lai, H., Drachtman, R., Hoppe, B., McCarten, K., Kluge, et al  
WILEY.2023: S31-S32
- **SUCCESSFUL INAUGURATION OF THE PEDIATRIC PTLD COLLABORATIVE (PPC) PROVIDES AN EXCELLENT PLATFORM FOR PTLD REGISTRY AND PROSPECTIVE STUDIES**  
Afify, Z., Taj, M., Srivatsa, K., Edington, H., Miller, T., Dalal, M., Robles, J., Ford, J., Ehrhardt, M., Ureda, T., Rubinstein, J., McCormack, S., Rivers, et al  
WILEY.2023
- **Disease site number was not prognostic in a low-risk Hodgkin lymphoma combined modality trial: revisiting PHC HOD90.** *Blood advances*  
Feraco, A. M., Zhou, Y., Zheng, Y., Marks, L. J., Friedmann, A. M., Weinstein, H. J., Link, M. P., Flerlage, J. E.  
2023
- **POST-TRANSPLANT LYMPHOPROLIFERATIVE DISEASE IN A PATIENT WITH SCHIMKE IMMUNO-OSSEOUS DYSPLASIA**  
Rao, R., Grimm, P., Lewis, D., Spunt, S., Marks, L.  
WILEY.2023: S75-S76
- **Outcomes in pediatric relapsed/refractory anaplastic large cell lymphoma: A multi-institutional retrospective analysis.**  
Marks, L., Ritter, V., Schultz, L. M., Lowe, E. J., Aftandilian, C., Relapsed ALCL REAL Consortium  
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Outcomes in pediatric relapsed/refractory anaplastic large cell lymphoma: A multi-institutional retrospective analysis**  
Marks, L., Ritter, V., Schultz, L. M., Lowe, E. J., Aftandilian, C., Relapsed ALCL Real Consortium  
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Brentuximab Vedotin Following Autologous Transplantation in Pediatric Patients with Relapsed/Refractory Hodgkin Lymphoma.** *Blood advances*  
Forlenza, C. J., Rosenzweig, J., Mauguen, A., Buhtoiarov, I. N., Cuglievan, B., Dave, H., Deyell, R., Flerlage, J. E., Franklin, A. R., Krajewski, J., Leger, K. J., Marks, L. J., Norris, et al  
2023
- **Cellular and humoral immunotherapy in children, adolescents and young adults with non-Hodgkin lymphoma.** *Best practice & research. Clinical haematology*  
Chu, Y., Gardenswartz, A., Diorio, C., Marks, L. J., Lowe, E., Teachey, D. T., Cairo, M. S.  
2023; 36 (1): 101442
- **Multicenter study of pediatric Epstein-Barr virus-negative monomorphic post solid organ transplant lymphoproliferative disorders.** *Cancer*  
Afify, Z. A., Taj, M. M., Orjuela-Grimm, M., Srivatsa, K., Miller, T. P., Edington, H. J., Dalal, M., Robles, J., Ford, J. B., Ehrhardt, M. J., Ureda, T. J., Rubinstein, J. D., McCormack, et al  
2022
- **Burkitt lymphoma after solid-organ transplant: Treatment and outcomes in the paediatric PTLD collaborative.** *British journal of haematology*  
Afify, Z., Orjuela-Grimm, M., Smith, C. M., Dalal, M., Ford, J. B., Pillai, P., Robles, J. M., Reddy, S., McCormack, S., Ehrhardt, M. J., Ureda, T., Alperstein, W., Edington, et al  
2022
- **Development of clinical pathways to improve multidisciplinary care of high-risk pediatric oncology patients.** *Frontiers in oncology*  
Reschke, A., Richards, R. M., Smith, S. M., Long, A. H., Marks, L. J., Schultz, L., Kamens, J. L., Aftandilian, C., Davis, K. L., Gruber, T., Sakamoto, K. M.  
2022; 12: 1033993
- **Viral cfDNA Profiling Reveals Distinct EBV Subtypes and Stratifies Risk in Hodgkin Lymphomas**  
Garofalo, A., Alig, S. K., Schroers-Martin, J., Shyam, R., Olsen, M., Kurtz, D. M., Rossi, C., Schultz, A., Kathuria, K. R., Liu, C., Spina, V., Flerlage, J. E., Castellino, et al  
AMER SOC HEMATOLOGY.2022: 1318-1319
- **End of Treatment Positron Emission Tomography Response and Outcomes in Post-Transplant Lymphoproliferative Disorder**  
Marks, L. J., Green, M., Agarwal, M., Goss, C., Storch, G., Gratzinger, D., Dharnidharka, V.

AMER SOC HEMATOLOGY.2022: 9559-9560

- **Distinct Molecular Subtypes of Classic Hodgkin Lymphoma Identified By Comprehensive Noninvasive Profiling**  
Alig, S. K., Esfahani, M., Li, M. Y., Adams, R., Garofalo, A., Jin, M. C., Olsen, M., Telenius, A., Sworder, B., Schroers-Martin, J., King, D. A., Rossi, C., Schultz, et al  
AMER SOC HEMATOLOGY.2022: 1295-1296
- **TREATMENT OF POST-TRANSPLANT LYMPHOPROLIFERATIVE DISORDER (PTLD): A MULTI-CENTER PEDIATRIC SERIES**  
Marks, L., Green, M., Storch, G., Gratzinger, D., Gu, H., Goss, C., Dharnidharka, V.  
WILEY.2022
- **Validation of a non-oncogene encoded vulnerability to exportin 1 inhibition in pediatric renal tumors.** *Med (New York, N.Y.)*  
Coutinho, D. F., Mundi, P. S., Marks, L. J., Burke, C., Ortiz, M. V., Diolaiti, D., Bird, L., Vallance, K. L., Ibáñez, G., You, D., Long, M., Rosales, N., Grunn, et al  
2022
- **Targeting of the nuclear export protein XPO1 represents a non-genetically encoded vulnerability in malignant rhabdoid and Wilms tumors**  
Coutinho, D. F., Burke, C., Mundi, P., Ortiz, M. V., Vallance, K. L., Long, M., Rosales, N., Ibanez, G., Marks, L. J., Diolaiti, D., Ndengu, A., You, D., Siddiquee, et al  
AMER ASSOC CANCER RESEARCH.2022
- **Pediatric EBV-negative monomorphic post-solid organ transplant lymphoproliferative disorders [EBV(-)M-PTLD]: Characteristics, treatment, and outcome from 11 pediatric academic centers.**  
Affy, Z. A. M., Taj, M., Srivatsa, K., Miller, T. P., Edington, H., Dalal, M., Robles, J., Ford, J., Ehrhardt, M. J., Ureda, T., Rubinstein, J., McCormack, S., Rivers, et al  
LIPPINCOTT WILLIAMS & WILKINS.2022
- **Early presentation of post-transplant lymphoproliferative disorders (PTLD) or tumor positivity for epstein-barr virus does not confer better patient survival: A multicenter pediatric series**  
Green, M., Marks, L., Storch, G. A., Dharnidharka, V. R., PTLD MSMS Grp  
WILEY.2022
- **Practice patterns for the management of nodular lymphocyte-predominant Hodgkin lymphoma (NLPHL): an international survey by the Global NLPHL One Working Group (GLOW).** *Leukemia & lymphoma*  
Lo, A. C., Major, A., Super, L., Appel, B., Shankar, A., Constine, L. S., Marks, L. J., Kelly, K. M., Metzger, M. L., Buhtoiarov, I. N., Mauz-Korholz, C., Costa, A. R., Binkley, et al  
2022: 1-4
- **Pediatric Aggressive Mature B-Cell Lymphomas, Version 3.2022, NCCN Clinical Practice Guidelines in Oncology.** *Journal of the National Comprehensive Cancer Network : JNCCN*  
Barth, M., Xavier, A. C., Armenian, S., Audino, A. N., Blazin, L., Bloom, D., Chung, J., Davies, K., Ding, H., Ford, J. B., Galardy, P. J., Hanna, R., Hayashi, et al  
2022; 20 (11): 1267-1275
- **Brentuximab Vedotin As Consolidation Therapy Following Autologous Stem Cell Transplantation in Children and Adolescents with Relapsed/Refractory Hodgkin Lymphoma: A Multi-Center Retrospective Analysis**  
Forlenza, C. J., Rosenzweig, J., Mauguen, A., Buhtoiarov, I., Cuglievan, B., Dave, H., Deyell, R. J., Flerlage, J., Franklin, A., Krajewski, J., Leger, K. J., Marks, L., Norris, et al  
AMER SOC HEMATOLOGY.2021
- **Outcome of Post Solid Organ Transplant Burkitt Lymphoma (PSOT-BL): A Report from the Pediatric PTLD Collaborative (PPC)**  
Affy, Z., Orjuela, M., Smith, C., Dalal, M., Ford, J. B., Pillai, P., Robles, J., Reddy, S., McCormack, S., Ehrhardt, M. J., Ureda, T., Edington, H., Miller, et al  
AMER SOC HEMATOLOGY.2021
- **Improving Risk Stratification to Guide Treatment Decisions for Children, Adolescents, and Young Adults With Hodgkin Lymphoma** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*  
Marks, L. J.  
2021; 19 (6): 666-668
- **Expert consensus statements for Waldeyer's ring involvement in pediatric Hodgkin lymphoma: The staging, evaluation, and response criteria harmonization (SEARCH) for childhood, adolescent, and young adult Hodgkin lymphoma (CAYAHL) group.** *Pediatric blood & cancer*

- Seelisch, J. n., De Alarcon, P. A., Flerlage, J. E., Hoppe, B. S., Kaste, S. C., Kelly, K. M., Kurch, L. n., Marks, L. J., Mauz-Koerholz, C. n., McCarten, K. n., Metzger, M. L., Stroevesandt, D. n., Voss, et al  
2020: e28361
- **Pediatric Aggressive Mature B-Cell Lymphomas, Version 2.2020, NCCN Clinical Practice Guidelines in Oncology.** *Journal of the National Comprehensive Cancer Network : JNCCN*  
Davies, K., Barth, M., Armenian, S., Audino, A. N., Barnette, P., Cuglievan, B., Ding, H., Ford, J. B., Galardy, P. J., Gardner, R., Hanna, R., Hayashi, R., Kovach, et al  
2020; 18 (8): 1105–23
  - **Brentuximab Vedotin as Consolidation Therapy After Autologous Stem Cell Transplantation in Children and Adolescents (<18y) With Early Relapse Hodgkin Lymphoma.** *Journal of pediatric hematology/oncology*  
Fernandez, K. S., Mavers, M., Marks, L. J., Agarwal, R.  
2019
  - **Outcomes in intermediate-risk pediatric lymphocyte-predominant Hodgkin lymphoma: A report from the Children's Oncology Group.** *Pediatric blood & cancer*  
Marks, L. J., Pei, Q., Bush, R., Buxton, A., Appel, B., Kelly, K. M., Schwartz, C. L., Friedman, D. L.  
2018; 65 (12): e27375
  - **Pericardial effusion in Hodgkin lymphoma: a report from the Children's Oncology Group AHOD0031 protocol** *BLOOD*  
Marks, L. J., McCarten, K. M., Pei, Q., Friedman, D. L., Schwartz, C. L., Kelly, K. M.  
2018; 132 (11): 1208–11
  - **Stroke Prevalence in Children With Sickle Cell Disease in Sub-Saharan Africa: A Systematic Review and Meta-Analysis.** *Global pediatric health*  
Marks, L. J., Munube, D., Kasirye, P., Mupere, E., Jin, Z., LaRussa, P., Idro, R., Green, N. S.  
2018; 5: 2333794X18774970
  - **Precision Medicine in Children and Young Adults with Hematologic Malignancies and Blood Disorders: The Columbia University Experience** *FRONTIERS IN PEDIATRICS*  
Marks, L. J., Oberg, J. A., Pendrick, D., Sireci, A. N., Glasser, C., Coval, C., Zylber, R. J., Chung, W. K., Pang, J., Turk, A. T., Hsiao, S. J., Mansukhani, M. M., Bender, et al  
2017; 5: 265