UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE

Curriculum Vitae

Date: 5/9/2023

Charles Phillips, MD, MSHP, MBMI

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| Address: | Children's Hospital of Philadelphia Department of Biomedical and Health Informatics (DBHi)Department of PediatricsDivision of Oncology 3401 Civic Center Boulevard |
|  | Philadelphia, PA 19104-4399 USA |
| Phone: | 267-496-0161 |
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| Education: |
|  | 2007 |  | BS |  | University of Tennessee at Chattanooga (Biology) |
|  | 20112018 |  | MDMSHP |  | Vanderbilt University School of Medicine (Medicine)Master of Science in Health Policy Research, University of Pennsylvania |
|  | 2019 |  |  |  | Certificate Program in Bioinformatics, University of Pennsylvania |
|  | 2021 |  | MBMI |  | Master of Biomedical Informatics, University of Pennsylvania  |
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| Postgraduate Training and Fellowship Appointments: |
|  | 2011-2014 |  | Internship and Residency, Pediatrics, Vanderbilt University, Monroe Carell Junior Children’s Hospital, Nashville, TN |
|  | 2014-2015 |  | Chief Resident, Pediatrics, Vanderbilt University, Monroe Carell Junior Children’s Hospital, Nashville, TN  |
|  | 2015-2018 |  | Fellow, Pediatric Hematology-Oncology, Children's Hospital of Philadelphia, PA |
|  | 2016-2018 |  | Research Fellow, Pediatric Hospital Epidemiology and Outcomes Training (PHEOT) Program, Children's Hospital of Philadelphia, PA |
|  | 2017-2018 |  | Chief Fellow, Pediatric Hematology-Oncology, Children's Hospital of Philadelphia, PA |

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| Faculty Appointments: |
|  | 2018-2019 |  | Instructor of Clinical Pediatrics, Division of Oncology, Department of Pediatrics, University of Pennsylvania, Philadelphia, PA |
|  | 2019-present |  | Assistant Professor of Clinical Pediatrics, Division of Oncology, Department of Pediatrics, Department of Biomedical and Health Informatics, University of Pennsylvania, Philadelphia, PA |
|  |  |  |  |  |  |
| Other Appointments: |
|  | 2016-2018 |  | Associate Fellow, Leonard Davis Institute of Health Economics, University of Pennsylvania, Philadelphia, PA |
|  | 2016-2019 |  | Senior Fellow, Center for Digital Health, University of Pennsylvania, Philadelphia, PA |
|  | 2017-2020 |  | Data Steward, the Children’s Hospital of Philadelphia, Philadelphia, PA |
|  | 2019-2019 |  | PEDSnet Scientist, PEDSnet: A Pediatric Learning Health System |
|  | 2019-present |  | Associate Director, the Childhood Cancer Health Informatics Program (C2HIP), Division of Oncology, the Children’s Hospital of Philadelphia |
|  | 2022-present |  | Associate Medical Director of Analytics, the Children’s Hospital of Philadelphia |
|  |  |  |  |  |  |
| Specialty Certification: |
|  | 2015 |  | American Board of Pediatrics, Pediatrics |
|  | 2019 |  | American Board of Pediatrics, Pediatric Hematology-Oncology |
|  | 2022 |  | American Board of Preventative Medicine, Clinical Informatics |
|  |  |  |  |  |  |
| Licensure: |
|  | 2014-2015 |  | Tennessee |
|  | 2015-2018 |  | Pennsylvania – Trainee |
|  | 2018-present |  | Pennsylvania |
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| Awards, Honors and Membership in Honorary Societies: |
|  | 2005 |  | Dr. Charles Robert Thomas Scholarship Recipient, Given to the top Biology Pre-professional senior at the University of Tennessee at Chattanooga  |
|  | 2011 |  | David R Freedy Memorial Award, Awarded to a graduating student from Vanderbilt Medical School by his peers “whose character, integrity, and courage provide an inspiration to others.” |
|  | 2013 |  | Housestaff Clinical Teaching Award, Vanderbilt University Medical Center |
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| Memberships in Professional and Scientific Societies and Other Professional Activities: |
|  International: |
|  | 2015-present |  | Children’s Oncology Group  |
|  |  |  |  Non-Hodgkin Lymphoma Committee |
|  |  |  |  Cancer Control Committee  Informatics Committee |
|  | 2018-present |  | Pediatric Cancer Data Commons Consortium Data Dictionary Workgroup |
|  | 2021-present |  | Glo-BNHL, Lead junior investigator for North America for treatment arm A of “A Global Study of Novel Agents in Paediatric and Adolescent Relapsed and Refractory B-cell Non Hodgkin Lymphoma (B-NHL)” |
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|  National: |
|  | 2011-present |  | American Academy of Pediatrics  |
|  | 2017-present |  | Section on Hematology/Oncology American Academy of Pediatrics  |
|  | 2017-present |  | Pennsylvania Medical Society  |
|  | 2019-2020 |  | Member, Radiation Injury Treatment Network (RITN) working group for electronic health record order set development |
|  | 2020-present |  | Member, National Childhood Cancer Registry (NCCR) Meta Data Working Group for hematologic malignancies |
|  | 2022-present |  | Member, Pediatric Oncology Steering Board, Epic Systems |
|  | 2023-present |  | Vice Chair, Informatics, Innovation and Entrepreneurship Special Interest Group, American Society of Pediatric Hematology-Oncology |
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| Editorial Positions: |
|  | 2016 |  | Ad Hoc Reviewer, *JAMA Pediatrics* |
|  | 2018 |  | Ad Hoc Reviewer, *npj Digital Medicine* |
|  | 2019 |  | Ad Hoc Reviewer, *Journal of Internet Medical Research* |
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| Academic and Institutional Committees: |
|  | 2011-2015 |  | Member, Pediatric Resident Advisory Committee, Vanderbilt University School of Medicine |
|  | 2014-2015 |  | Member, Inpatient Communication Quality Improvement Project, Vanderbilt University Medical Center |
|  | 2015-present |  | Member, Hematology/Oncology Fellowship Program Evaluation Committee, Children's Hospital of Philadelphia |
|  | 2016-2019 |  | Team Leader, Oncology Nutrition Quality Improvement Project, Children's Hospital of Philadelphia |
|  | 2017-2018 |  | Member, Leonard Davis Institute Associate Fellows Steering Committee |
|  | 2017-present |  | Member, Division of Oncology Quality Improvement Steering Committee, Children’s Hospital of Philadelphia |
|  | 2019-present |  | Member, Division of Oncology Chemotherapy and Patient Safety Committee, Children’s Hospital of Philadelphia |
|  | 2019-present |  | Member, Clinical Informatics Committee, the Children’s Hospital of Philadelphia |
|  | 2019-present |  | Member, Clinical Decision Support Committee, the Children’s Hospital of Philadelphia |
|  | 2020-present |  | Co-Chair, BMT Nutrition and Supportive Care Committee, Children’s Hospital of Philadelphia |
|  | 2021-present |  | Member, Therapeutic Standards Committee, the Children’s Hospital of Philadelphia  |
|  | 2021-present |  | Member, Clinical Information Technology Advisory Committee (CITAC), the Children’s Hospital of Philadelphia |
|  | 2021-present |  | Member, CGTS Data Ops Steering Committee, Children’s Hospital of Philadelphia |
|  | 2022-present |  | Member, Clinical Data Reporting and Quality (CDRQ) Committee, the Children’s Hospital of Philadelphia |
|  | 2022-present |  | Member, Data Use Policy Committee, Children’s Hospital of Philadelphia |
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| Major Academic and Clinical Teaching Responsibilities: |
|  | 2014-2015 |  | Lead and facilitated 2-4 resident education conferences per week as chief resident, Vanderbilt University Pediatric Residency Program |
|  | 2014-2015 |  | Multiple recurring lectures including: "Radiology in pediatrics",  "Introduction to dysmorphology", "Introduction to pediatric cardiology", "Introduction to pediatric gastroenterology",  "Approach to hyperbilirubinemia in pediatrics", "Pediatric shelf exam review",Third year medical student clerkship, Vanderbilt University School of Medicine |
|  | 2015-present |  | Teaching and supervision of residents and medical students on the oncology services, Children's Hospital of Philadelphia |
|  | 2017 |  | Review of Oncology Topics for General Pediatric Board Examination, Resident Education Board Review Series, Children's Hospital of Philadelphia |
|  | 2018 |  | “NTRK3 in Pediatric Sarcoma”, Division of Oncology Molecular Tumor Board, Children’s Hospital of Philadelphia |
|  | 2018 |  | “Malnutrition in Pediatric Oncology”, Division of Oncology Morbidity and Mortality Tumor Board, Children’s Hospital of Philadelphia |
|  | 2019-present |  | “Resident Orientation”, Inpatient Oncology new resident orientation presentation, Children’s Hospital of Philadelphia; recurring lecture |
|  | 2022-present |  | “Lymphoma”, Inpatient Oncology resident education series, Children’s Hospital of Philadelphia; recurring lecture |
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| Lectures by Invitation (Last 5 years): |
|  | 2018 |  | “Development and implementation of an automated malnutrition screen for pediatric oncology using electronic health record anthropometric data”. Children’s Oncology Group (COG) Fall Meeting. October 2018.  |
|  | 2018 |  | “Quality improvement application: improving supportive care follow up for pediatric oncology.” HPR504-NURS612 Principles and Practice of Quality Improvement, University of Pennsylvania. October 2018. |
|  | 2019 |  | “Implementation of an automated malnutrition screen using electronic health record data: a quality improvement project in pediatric oncology and stem cell transplant.” Nutrition Center and Integrated Health Seminar Series, the Children’s Hospital of Philadelphia. March 2019. |
|  | 2019 |  | “From nourished to malnourished and back again through a Quality Improvement lens: screening for and treatment of malnutrition in pediatric and young adult oncology and stem cell transplant patients.” American Society for Parenteral and Enteral Nutrition (ASPEN) 2019 annual meeting. March 2019.  |
|  | 2020 |  | Introduction to pediatric hematology oncology. Cancer Biology course guest lecturer. University of Tennessee at Chattanooga. March 2020. Cancelled due to Covid 19 pandemic.  |
|  | 2020 |  | “Curating Data and Communicating Quality for Impact in a FAIR World.” Panelist. American Medical Informatics Association (AMIA) 2020 Annual Symposium. November 2020. |
|  | 2021 |  | “Electronic data for pediatric Hematology - oncology: using FAIR principles to maximize value at the local and national level.” Ann and Robert H Lurie Children’s Hospital of Chicago. Division of Hematology-Oncology. February 2021. |
|  | 2021 |  | “Estimating Sterile Injectable Chemotherapy Use for Pediatric Cancer patients in the United States.” Health Policy Research Program Research in Progress series at the University of Pennsylvania. September 2021. |
|  | 2021 |  | “Relapsed Mature B Non-Hodgkin Lymphoma.” Children’s Oncology Group Fall Meeting. September 2021. |
|  | 2022 |  | “Discussion with a Doc: What it takes to become a doctor at a major academic medical center.” University of Tennessee at Chattanooga. September 2022. |
|  | 2022 |  | “Glo BNHL Treatment Arm 1 design and updates.” Children’s Oncology Group Fall Meeting. September 2022. |
|  | 2023 |  | “ICD-O no! Strategies to optimize your institution’s cancer data ecosystem and address poor specificity for EHR data including ICD codes.” ASPHO Informatics, Innovation and Entrepreneurship Special Interest Group webinar series. February 2023.  |
|  | 2023 |  | “Pragmatic Informatics and Electronic Health Record (EHR) ProTips for Pediatric Hematology-Oncology Practitioners.” Speaker and session moderator. ASPHO Conference. May 2023. |
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| Bibliography: |
|  | Research Publications, peer reviewed (print or other media): |
|  |  | 1. Broman, KK., Kensinger, C., **Phillips, C**., Fesseh, B., Fill, M., Borges, N., Mathisen, J., Allen, D., Land, E., and Patel, N. Characterizing the Clamor: An In-Depth Analysis of Inpatient Paging Communication. Academic Medicine. 2016 Jul; 91(7):1015-21. PMID: 26910895 |
|  |  | 2. **Phillips, CA**., Barz Leahy, A., Li, Y., Schapira, M., Bailey, L., and Merchant, R. The relationship between state-level Google online search volume and cancer incidence in the United States: a retrospective study. Journal of Medical Internet Research 2018 Jan; 20(1):e6 DOI: 10.2196/jmir.8870. PMID: 29311051 |
|  |  | 3. **Phillips, CA**., Bailer, J., Foster, E., Dogan, P., Flaherty, P., Baniewicz, D., Smith, E., Reilly, A., and Freedman, J. Implementation of an automated pediatric malnutrition screen using anthropometric measurements in the electronic health record. Journal of the Academy of Nutrition and Dietetics. 2018 Oct; DOI: 10.1016/j.jand.2018.07.014. PMID: 30297315 |
|  |  | 4. **Phillips, CA**., Hunt, A., Salvesen-Quinn, M., Guerra, J., Schapira, MM., Bailey, LC., and Merchant, RM. Health-related Google searches performed by parents of pediatric oncology patients. Pediatric Blood and Cancer. 2019 May. DOI:10.1002/pbc.27795. PMID: 31069926 |
|  |  | 5. **Phillips, CA**., Razzaghi H., Aglio T., McNeil, MJ., Salvesen-Quinn, M., Sopfe, J., Wilkes, JJ., Forrest, CB., and Bailey, LC. Development and evaluation of a computable phenotype to identify pediatric leukemia and lymphoma patients treated with chemotherapy using electronic health record data. Pediatric Blood and Cancer. 2019 Jun. DOI:10.1002/pbc.27876. PMID: 31207054 |
|  |  | 6. **Phillips, CA**., Bailer, J., Foster, E., Dogan, P., Li, Y., Smith, E., Reilly, A., and Freedman, J. Evaluation of an automated pediatric malnutrition screen using anthropometric measurements in the electronic health record: a quality improvement initiative. Journal of Supportive Care in Cancer. 2019 Jul. DOI: 10.1007/s00520-019-04980-1. PMID: 31286235 |
|  |  | 7. **Phillips, CA**., Pollock, BH. Big data for nutrition research in pediatric oncology: current state and framework for advancement. JNCI Monographs. 2019 Sep. DOI: 10.1093/jncimonographs/lgz019. PMID: 31532530 |
|  |  | 8. Liou, A., Van Arnam, J., Pillai, V., Seif, AE., Tasian, SK., and **Phillips, CA**. Transient atypical monocytosis after alpha/beta T cell-depleted haploidentical hematopoietic stem cell transplantation. Pediatric Blood and Cancer. 2019 Dec. DOI:10.1002/pbc.28139. PMID: 31867817  |
|  |  | 9. Ding, Y., Ramakrishna, S., Long, A., **Phillips, CA.**, Montiel-Esparza, R., Diorio, CJ., Bailey, C., Maude, SL., Aplenc, R., Batra, V., Reilly, AF., Rheingold, SR., Lacayo, NJ., Sakamoto, KM., Hunger, SP. Delayed cancer diagnoses and high mortality in children during the COVID-19 pandemic. Pediatric Blood and Cancer. 2020 Jun. DOI: 10.1002/pbc.28427. PMID: 32588960 |
|  |  | 10. Diorio, C., Henrickson, S., Vella, LA., McNerney, K., Chase, J., Burudpakdee, C., Lee, JH., Jasen, C., Balamuth, F., Barrett, DM., Banwell, B., Bernt, K., Blatz, AM., Chiotos, K., Fisher, B., Fitzgerald, J., Gerber, JS., Gollomp, K., Gray, C., Grupp, SA., Harris, R., Kilbaugh, T., Odom John, AR., Lambert, MP., Liebling, E., Paessler, M., Petrosa, W., **Phillips, CA**., Reilly, A., Romberg, N., Seif, AE., Sesok-Pizzini, D., Sullivan, K., Vardaro, J., Behrens, EM., Teachey, DT., Bassiri, H. Multisystem Inflammatory Syndrome in Children and COVID-19 are distinct presentations of SARS-CoV-2. Journal of Clinical Investigation. 2020 Jul. PMID: 32730233 |
|  |  | 11. Tadlock S, **Phillips CA**, Casal ML, Kraus MS, Gelzer AR, Boland MR. Development of an Informatics Algorithm to Link Seasonal Infectious Diseases to Birth-Dependent Diseases Across Species: A Case Study with Osteosarcoma. AMIA Annu Symp Proc. 2021 May 17;2021:585-594. PMID: 34457174; PMCID: PMC8378620. |
|  |  | 12. **Phillips, CA**., Barakat, LP., Pollock, BH., Bailey, LC., Beidas, RS. Implementation science in pediatric oncology: a narrative review and future directions. Pediatric Blood and Cancer. 2022 Jan. DOI: 10.1002/pbc.29579. PMID: 35044081 |
|  |  | 13. Wyatt, KD., Noyd, DH., Wood, NM., **Phillips, CA**., Miller, TP., Rubin, EM., Winestone, LE., Waanders, AJ., Perentesis, JP., Aplenc, R. Data Standards in Pediatric Oncology: Past, Present, and Future. Pediatric Blood and Cancer. 2022 Dec. DOI: 10.1002/pbc.30128 PMID: 36495256  |
|  |  | 14. Anderson, DS., Hanna, R., Azar, ARP., Collier, V., Hankins, P., Loudon, B., Olson, TS., Grupp, SA., **Phillips, CA**., Kadauke, S. Automation of Hematopoietic Cell Transplant Outcomes Reporting Leads to Dramatic Reduction of Errors Reported to Real-World Data Registry. Transplantation and Cellular Therapy. 2023 Jan. DOI: 10.1016/j.jtct.2022.12.026 PMID: 36610491 |
|  |  | 15. Mehta, S., Congdon, M., **Phillips, CA**., Galligan, M., Hannah, C., Muthu, N., Ruiz, J., Stinson, H., Shaw, K., Sutton, RM., Rasooly, I. Opportunities to Improve Diagnosis in Emergency Transfers to the Pediatric Intensive Care Unit. Journal of Hospitalist Medicine. 2023 May. DOI: 10.1002/jhm.13103 PMID: 37143201 |
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|  | Publications, non-peer reviewed (Last 5 years): |
|  |  | 1. **Phillips, Charles**. Fellow’s Corner: An Excellent Teacher. Children’s Doctor. 2018 Feb.  |
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|  | Abstracts (Last 3 years): |
|  |  | 1. Sacks, N., Smith, K., Bailer, J., Squillante, B., McGowan, S., Vicente, C., Wilhelm, D., Gaunt D., Divito, d., Thorpe, J., Freedman, J., and **Phillips, C**. Implementation of a standardized process to increase follow-up with registered dietitian nutritionists (RDN) in a pediatric oncology outpatient clinic post-discharge. ONDPG Symposium 2020. Notes: Poster Presentation |
|  |  | 2. Batugo, A., **Phillips, C.**, Burrows, E., Eckrich, D., Kitzmiller, M., Razzaghi, H., Bailey, C., Using Medical Dosing Across PEDSnet to Respond to Chemotherapy Sterile Injectable Drug Shortages in Pediatric Oncology. Observational Health Data Sciences and Informatics Symposium 2020. Notes: Poster Presentation |
|  |  | 3. Wolfset, N., **Phillips, C.,** Stein, M., Rheingold, S., Heimall, J., Elgarten, C. COVID-19 mRNA Vaccination Appears Safe in Pediatric Patients With A Hypersensitivity Reaction To PEGylated Escherichia Coli L-Asparaginase. American Academy of Allergy, Asthma, and Immunology Annual Meeting. February 2022.  |
|  |  | 4. Kadauke, S., Hanna, R., **Phillips, C.,** Anderson, D., Pashmineh, A., Collier, V., Hankins, P., Loudon, B., Olson, T., and Grupp, S. Automation Greatly Reduces Errors in Engraftment Dates Reported to CIBMTR. Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR. February 2022. Oral presentation.  |
|  |  | 5. Mehta, S., **Phillips, C**., Congdon, M., Galligan, M., Hannah, C., Ruiz, J., Stinson, H., Muthu, N., Sutton, R., and Rasooly, I. Diagnostic Error in Pediatric Emergency Transfers Associated with Increased Mortality and Length of Stay. Society to Improve Diagnosis in Medicine Conference. Oct 2022. Notes: Poster Presentation |
|  |  | 6. Freedman, J., **Phillips, C**., Wray, L., Smith, L., McGuire, R., and Bailer, J. Enteral nutrition post pediatrci hematopoietic stem cell transplant. MASCC/JASCC/ISOO Annual Meeting. Jun 2023. Accepted.  |
|  |  | 7. Montgomery, C., Plisiewicz, A., Zhao, C., Yan, T., **Phillips, C**., Lehmann, K., Sotrm, P., Madsen, P., and Kline, C. Race and age are associated with ICD-10 diagnoses in the post-operative period for pediatric patients with primary brain tumors undergoing neurosurgery. 2023 SNO Pediatric Neuro-Oncology Research Conference. Accepted. |

Grant Support (Last 3 years):

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| --- | --- | --- | --- |
|  | 2016-2018 |  | Institutional T32, Pediatric Hospital Epidemiology and Outcomes Training Grant, The Children’s Hospital of Philadelphia, Project number: 5T32HD060550-07 |
|  |  |  |  |
|  | 2018-2019 |  | Foerderer Fund, Private Foundation Grant, Improving Pediatric Cancer Patients’ Nutritional Outcomes: A Multi-Institutional Approach Using Electronic Health Records, Role: Principal Investigator |
|  |  |  |  |
|  | 2020-2021 |  | Administrative Supplements for the NCI P30 Cancer Center Support Grants to develop the National Childhood Cancer Registry. Role: Co-investigator |