



## Stephanie Melissa Smith

Assistant Professor of Pediatrics (Hematology/Oncology)

Pediatrics - Hematology & Oncology

### CLINICAL OFFICE (PRIMARY)

- **Bass Cancer Center for Childhood Cancer and Blood Diseases**

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### Bio

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#### BIO

I am an assistant professor in pediatric oncology with a focus on cancer survivorship and community-engaged research. I completed fellowship in pediatric hematology/oncology at Stanford and residency in internal medicine–pediatrics (med–peds) at CHOP and Penn. My clinical practice includes pediatric oncology with a focus on solid tumors and cancer survivorship, including care of adult survivors of childhood cancer. My academic interests include cancer survivorship, health equity, and patient-family-clinician communication. My training in public health, internal medicine–pediatrics, and pediatric oncology gives me a unique perspective on the challenges facing childhood cancer survivors as they age and transition from treatment to survivorship and from pediatric to adult focused care.

I lead the CoCOS (Collaborative Community Optimizing Survivorship) Lab, a team that leverages community-engaged research to improve health outcomes and reduce health disparities among childhood cancer survivors and their families. Central to this work is our community–academic partnership with Jacob’s Heart Children’s Cancer Support Services (<https://www.jacobsheart.org/>), a nonprofit community-based organization supporting families of children with cancer in a 4-county, predominantly rural, low-income, and majority Hispanic/Latino region in the Salinas Valley (region includes Santa Cruz, Monterey, San Benito, and south Santa Clara counties). Our research is inspired by design thinking (a method of creative problem solving) and guided by community-based participatory research principles with bidirectional trust and collaboration at every level.

Our active grant-supported research projects involve rigorous qualitative methods and apply human-centered design principles to develop new programs (interventions, toolkits) that will be pilot tested and refined based on multi-stakeholder (community/academic) input, with the overall goal of improving childhood cancer survivors’ long-term health and engagement in recommended survivorship care.

#### CLINICAL FOCUS

- Pediatric Hematology-Oncology
- Pediatric oncology
- Cancer survivorship

- Targeted therapy in Ph+ leukemias
- Adolescent/Young Adult (AYA) transitions in care
- Health equity and advocacy
- Community-Based Participatory Research

### **ACADEMIC APPOINTMENTS**

- Assistant Professor - University Medical Line, Pediatrics - Hematology & Oncology
- Member, Maternal & Child Health Research Institute (MCHRI)

### **PROFESSIONAL EDUCATION**

- Residency: University of Pennsylvania Internal Medicine and Pediatric Combined Residency (2017) PA
- Board Certification: Pediatric Hematology-Oncology, American Board of Pediatrics (2021)
- Fellowship: Stanford University Pediatric Hematology Oncology Fellowship (2020) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)
- Board Certification: Pediatrics, American Board of Pediatrics (2017)
- Medical Education: Stanford University School of Medicine (2013) CA
- MPH, Yale University School of Public Health , Social/Behavioral Science (2008)
- BS, Yale University , Biology (2007)

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

I am involved with clinical research related to cancer survivorship, with a particular focus on late effects of childhood cancer treatments and community partnerships to improve health equity for adolescent/young adult cancer survivors in under-resourced settings.

Areas of focus include:

Late effects of novel therapies:

This research relates to the use of BCR-ABL tyrosine kinase inhibitors for chronic myeloid leukemia (CML) and Ph+ acute lymphoblastic leukemia (ALL), as little is known about the long-term and late effects of these therapies in young people. I lead the New Agents task force for the Children's Oncology Group Long-Term Follow-Up Guidelines.

Community-engaged research to improve health equity for childhood and AYA cancer survivors:

Central to this work is our community-academic partnership with Jacob's Heart Children's Cancer Support Services, a nonprofit community-based organization serving families of children with cancer in a low-income, rural region in California. Our research applies principles of community-based participatory research and human-centered design to understand the key issues facing AYA cancer survivors and to collaboratively develop multi-level pragmatic interventions to improve health equity and access to survivorship care for AYA cancer survivors in communities with socioeconomic disadvantages.

Collaboration between oncology-survivorship-primary care:

In collaboration with a multidisciplinary team, I contributed to the development of an online continuing medical education cancer survivorship course for primary care physicians and other healthcare providers, which is available here: <https://mededucation.stanford.edu/courses/health-after-cancer/>

We partnered with young adult cancer survivors to adapt the course for cancer survivors and caregivers in the form of the Health After Cancer Podcast: <https://healthaftercancer.stanford.edu/>

## CLINICAL TRIALS

- Pharmacogenomic Analysis in Pediatric Acute Lymphoblastic Leukemia, Not Recruiting

## Teaching

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## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Hem/Onc (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Impact of a Cancer Survivorship Continuing Medical Education Course on Learners' Attitudes and Intention to Change Practice.** *Journal of cancer education : the official journal of the American Association for Cancer Education*  
Jackson, K. K., Alberto, J., Kim, J., Smith, S. M., Schapira, L.  
2024
- **Social support dynamics within parent-AYA cancer survivor dyads in a rural, socioeconomically disadvantaged, majority Hispanic/Latino region.**  
Lewinsohn, R. M., Benedict, C., Smith, M., Boynton, H., Schapira, L., Smith, S. M.  
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Developing "The Health After Cancer Podcast" to amplify cancer survivors' voices through digital storytelling.** *Patient education and counseling*  
Billman, E., Steele, N., Servino, K., Bumgardner, D., Walker, K., Smith, S. M., Schapira, L.  
2024; 123: 108194
- **Cancer Survivorship at Stanford Cancer Institute.** *Journal of cancer survivorship : research and practice*  
Smith, S. M., Steele, N., Kim, J., Yurkiewicz, I. R., Benedict, C., Trivedi, R., Heathcote, L. C., Simon, P. J., Bugos, K., Clayton, A., Palesh, O., Schapira, L.  
2024
- **A qualitative study of childhood cancer families' post-treatment needs and the impact of a community-based organization in a rural, socioeconomically disadvantaged, majority Hispanic/Latino region.** *Pediatric blood & cancer*  
Smith, S. M., Teer, A., Tolamatl Ariceaga, E., Billman, E., Benedict, C., Goyal, A., Pang, E. M., Pecos-Duarte, C., Lewinsohn, R., Smith, M., Boynton, H., Montes, S., Rivera, et al  
2023: e30798
- **Cancer center-based follow-up among pediatric and adolescent/young adult cancer survivors: the role of a community-based organization and the social determinants of health.** *Journal of cancer survivorship : research and practice*  
Pang, E. M., Saynina, O., Schapira, L., Wise, P. H., Boynton, H., Smith, M., Chamberlain, L. J., Smith, S. M.  
2023
- **Crucial Role of Effective Communication in Recruiting Immigrant Patients Into Cancer Clinical Trials.** *JCO oncology practice*  
Schapira, L., Smith, S. M.  
2023: OP2300522
- **Implementation of a Pilot Clinic for Pediatric to Adult Cancer Survivorship Transitions.** *Journal of adolescent and young adult oncology*  
Jin, A. H., Simon, P. J., Clayton, A., Benedict, C., Liedtke, M., Muffly, L., Schapira, L., Smith, S. M.  
2023
- **Racism and health among cancer survivors.** *Cancer*  
Smith, S. M., Schapira, L.  
2023
- **When Breasts Become a Liability-Discussing Risk-Reducing Mastectomy With Individuals Following Chest Irradiation for Childhood Cancer.** *JAMA oncology*  
Smith, S. M., May, D. G., Link, M. P.  
2023
- **HEALTH AFTER CANCER: A CONTINUING MEDICAL EDUCATION COURSE TO PREPARE CLINICIANS TO CARE FOR CANCER SURVIVORS**

Jackson, K., Alberto, J., Smith, S. M., Schapira, L., Kim, J.  
SPRINGER.2023: S712

- **Predictors of cancer center-based follow-up among pediatric and adolescent/young adult cancer survivors**  
Pang, E., Smith, S. M., Saynina, O., Schapira, L., Chamberlain, L. J.  
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Leveraging a community-academic partnership to evaluate the needs of Latinx AYA cancer survivors**  
Smith, S. M., Teer, A., Ariceaga, E., Billman, E., Goyal, A., Benedict, C., Pecos-Duarte, C., Smith, M., Montes, S., Luna, E., Ramirez, D., Boynton, H., Schapira, et al  
LIPPINCOTT WILLIAMS & WILKINS.2023
- **International Survey of Pediatric Oncologists' Beliefs and Communication Practices Regarding Symptom Self-Monitoring by Childhood Cancer Survivors.** *JCO oncology practice*  
Webster, S. N., Spunt, S. L., Cunningham, S. J., Wakefield, C. E., Smith, S. M., Alberts, N. M., Palesh, O., Simons, L. E., Heathcote, L. C.  
2023: OP2200630
- **Understanding unmet needs of adult survivors of childhood cancer in California's Salinas Valley: A community-academic partnership to develop programs for families after cancer treatment**  
Smith, S. M., Pecos-Duarte, C., Ariceaga, E., Billman, E., Teer, A., Benedict, C., Smith, M., Montes, S., Rivera, E., Ramirez, D., Boynton, H., Schapira, L.  
AMER ASSOC CANCER RESEARCH.2023: 144-145
- **Perspectives of Childhood Cancer Survivors as Young Adults: a Qualitative Study of Illness Education Resources and Unmet Information Needs.** *Journal of cancer education : the official journal of the American Association for Cancer Education*  
Billman, E., Smith, S. M., Jain, S. L.  
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
- **Standard Cytogenetic Risk Stratification Is Not Predictive of CD19 CAR Outcomes and Impact of Disease Burden Varies between Cytogenetic Risk Groups**  
Molina, J. C., Chinnabhandar, V., Fabrizio, V. A., Kunicki, M., Pacenta, H., Rossoff, J., Stefanski, H. E., Talano, J., Moskop, A., Verneris, M. R., Myers, G., Karras, N., Baggott, et al  
AMER SOC HEMATOLOGY.2022: 10386-10388
- **The Impact of Telehealth Adoption During COVID-19 Pandemic on Patterns of Pediatric Subspecialty Care Utilization** *ACADEMIC PEDIATRICS*  
Cahan, E. M., Maturi, J., Bailey, P., Fernandes, S., Addala, A., Kibrom, S., Krissberg, J. R., Smith, S. M., Shah, S., Wang, E., Saynina, O., Wise, P. H., Chamberlain, et al  
2022; 22 (8): 1375-1383
- **Male-Specific Late Effects in Adult Hematopoietic Cell Transplantation Recipients: A Systematic Review from the Late Effects and Quality of Life Working Committee of the Center for International Blood and Marrow Transplant Research and Transplant Complications Working Party of the European Society of Blood and Marrow Transplantation** *TRANSPLANTATION AND CELLULAR THERAPY*  
Phelan, R., Im, A., Hunter, R. L., Inamoto, Y., Lupo-Stanghellini, M., Rovo, A., Badawy, S. M., Burns, L., Eissa, H., Murthy, H. S., Prasad, P., Sharma, A., Suelzer, et al  
2022; 28 (6)
- **Male-specific late effects in adult hematopoietic cell transplantation recipients: a systematic review from the Late Effects and Quality of Life Working Committee of the Center for International Blood and Marrow Transplant Research and Transplant Complications Working Party of the European Society of Blood and Marrow Transplantation.** *Bone marrow transplantation*  
Phelan, R., Im, A., Hunter, R. L., Inamoto, Y., Lupo-Stanghellini, M. T., Rovo, A., Badawy, S. M., Burns, L., Eissa, H., Murthy, H. S., Prasad, P., Sharma, A., Suelzer, et al  
2022
- **The Impact of Telehealth Adoption During COVID-19 Pandemic on Patterns of Pediatric Subspecialty Care Utilization.** *Academic pediatrics*  
Cahan, E. M., Maturi, J., Bailey, P., Fernandes, S., Addala, A., Kibrom, S., Krissberg, J. R., Smith, S. M., Shah, S., Wang, E., Saynina, O., Wise, P. H., Chamberlain, et al  
2022

- **Educational innovation to integrate cancer survivorship in primary care: course evaluation and learner outcomes.** *Journal of cancer survivorship : research and practice*  
Alberto, J., Smith, S. M., Kim, J., Schapira, L.  
1800
- **Physician risk perceptions and surveillance practices for tyrosine kinase inhibitor long-term effects in pediatric CML.** *Pediatric hematology and oncology*  
Smith, S. M., Zhang, S., Sundaram, V., Roth, M., Andolina, J. R., Schapira, L., Sakamoto, K. M., Kolb, E. A., Hijjiya, N., Chaudhury, S.  
1800: 1-15
- **Comparison of the Transcriptomic Signatures in Pediatric and Adult CML.** *Cancers*  
Youn, M., Smith, S. M., Lee, A. G., Chae, H., Spiteri, E., Erdmann, J., Galperin, I., Jones, L. M., Donato, M., Abidi, P., Bittencourt, H., Lacayo, N., Dahl, et al  
1800; 13 (24)
- **Gene Expression Analysis of CML Patients across the Age Spectrum**  
Youn, M., Smith, S. M., Lee, A., Chae, H., Spiteri, E., Erdmann, J., Galperin, I., Murphy, L. C., Donato, M., Abidi, P., Bittencourt, H., Lacayo, N. J., Dahl, et al  
AMER SOC HEMATOLOGY.2021
- **Psychosocial impacts of the COVID-19 pandemic on young adult cancer survivors and parents of children with cancer.**  
Smith, S. M., Kumar, D., Benedict, C., Heathcote, L. C., Aftandilian, C., Bondy, M., Schapira, L.  
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Implementation of a clinic to facilitate the transition from pediatric to adult cancer survivorship care.**  
Smith, S. M., Jin, A., Simon, P., Clayton, A., Benedict, C., Liedtke, M., Muffly, L. S., Schapira, L.  
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Patterns of surveillance for late effects of BCR-ABL tyrosine kinase inhibitors in survivors of pediatric Philadelphia chromosome positive leukemias.** *BMC cancer*  
Smith, S. M., Sabnis, H. S., Lewis, R. W., Effinger, K. E., Bergsagel, J., Patterson, B., Mertens, A., Sakamoto, K. M., Schapira, L., Castellino, S. M.  
2021; 21 (1): 474
- **Chronic Myelogenous Leukemia in Childhood.** *Current oncology reports*  
Smith, S. M., Hijjiya, N., Sakamoto, K. M.  
2021; 23 (4): 40
- **Health After Cancer: An Innovative Continuing Medical Education Course Integrating Cancer Survivorship Into Primary Care.** *Academic medicine : journal of the Association of American Medical Colleges*  
Smith, S. M., Williams, P., Kim, J., Alberto, J., Schapira, L.  
2021
- **Male-specific late effects in adult hematopoietic cell transplantation recipients: a systematic review from the Late Effects and Quality of Life Working Committee of the Center for International Blood and Marrow Transplant Research and Transplant Complications Working Party of the European Society of Blood and Marrow Transplantation.** *Transplantation and cellular therapy*  
Phelan, R., Im, A., Hunter, R. L., Inamoto, Y., Lupo-Stanghellini, M. T., Rovo, A., Badawy, S. M., Burns, L., Eissa, H., Murthy, H. S., Prasad, P., Sharma, A., Suelzer, et al  
2021
- **Screening practices for late effects in pediatric patients on tyrosine kinase inhibitors.**  
Smith, S. M., Sabnis, H. S., Lewis, R., Effinger, K., Bergsagel, D., Patterson, B., Mertens, A. C., Sakamoto, K., Schapira, L., Castellino, S. M.  
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Minding the Gap for Survivors of Childhood Cancer.** *JAMA oncology*  
Smith, S. M., Link, M. P., Effinger, K. E.  
2020
- **Barriers and facilitators of risk-based health care for adult survivors of childhood cancer: A report from the Childhood Cancer Survivor Study.** *Cancer*  
Ford, J. S., Tonorezos, E. S., Mertens, A. C., Hudson, M. M., Casillas, J., Foster, B. M., Moskowitz, C. S., Smith, S. M., Chou, J. F., Buchanan, G., Robison, L. L., Oeffinger, K. C.  
2019
- **Creating a Culture of Wellness in Residency.** *Academic medicine : journal of the Association of American Medical Colleges*  
Edmondson, E. K., Kumar, A. A., Smith, S. M.

2018

- **Effect of Population Socioeconomic and Health System Factors on Medical Care of Childhood Cancer Survivors: A Report from the Childhood Cancer Survivor Study** *JOURNAL OF ADOLESCENT AND YOUNG ADULT ONCOLOGY*  
Caplin, D. A., Smith, K. R., Ness, K. K., Hanson, H. A., Smith, S. M., Nathan, P. C., Hudson, M. M., Leisenring, W. M., Robison, L. L., Oeffinger, K. C.  
2017; 6 (1): 74-82
- **Exercise intensity in cancer survivors: A matter of the heart** *Cardio-Oncology*  
Smith, S. M., Carver, J. R.  
2017; 3
- **Web Exclusives. Annals Story Slam - A Long Stay.** *Annals of internal medicine*  
Smith, S. n.  
2017; 167 (12): S51
- **Health Care Utilization, Lifestyle, and Emotional Factors and Mammography Practices in the Childhood Cancer Survivor Study** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*  
Rosenberg, S. M., Moskowitz, C. S., Ford, J. S., Henderson, T. O., Frazier, A. L., Diller, L. R., Hudson, M. M., Stanton, A. L., Chou, J. F., Smith, S., Leisenring, W. M., Mertens, A. C., Cox, et al  
2015; 24 (11): 1699-1706
- **Reduced cardiorespiratory fitness in adult survivors of childhood acute lymphoblastic leukemia** *PEDIATRIC BLOOD & CANCER*  
Tonorezos, E. S., Snell, P. G., Moskowitz, C. S., Eshelman-Kent, D. A., Liu, J. E., Chou, J. F., Smith, S. M., Dunn, A. L., Church, T. S., Oeffinger, K. C.  
2013; 60 (8): 1358-1364
- **Acute Cardiovascular Toxicity of Low-Dose Intrathecal Ziconotide.** *Pain medicine (Malden, Mass.)*  
Heifets, B. D., Smith, S. M., Leong, M. S.  
2013
- **A feasibility study to evaluate breast cancer patients' knowledge of their diagnosis and treatment** *PATIENT EDUCATION AND COUNSELING*  
Smith, S. M., Balise, R. R., Norton, C., Chen, M. M., Flesher, A. N., Guardino, A. E.  
2012; 89 (2): 321-329
- **Increasing Rates of Breast Cancer and Cardiac Surveillance Among High-Risk Survivors of Childhood Hodgkin Lymphoma Following a Mailed, One-Page Survivorship Care Plan** *PEDIATRIC BLOOD & CANCER*  
Oeffinger, K. C., Hudson, M. M., Mertens, A. C., Smith, S. M., Mitby, P. A., Eshelman-Kent, D. A., Ford, J. S., Jones, J. K., Kamani, S., Robison, L. L.  
2011; 56 (5): 818-824
- **Inconsistent mammography perceptions and practices among women at risk of breast cancer following a pediatric malignancy: a report from the Childhood Cancer Survivor Study** *CANCER CAUSES & CONTROL*  
Smith, S. M., Ford, J. S., Rakowski, W., Moskowitz, C. S., Diller, L., Hudson, M. M., Mertens, A. C., Stanton, A. L., Henderson, T. O., Leisenring, W. M., Robison, L. L., Oeffinger, K. C.  
2010; 21 (10): 1585-1595
- **Long-term Survivors of Childhood Ewing Sarcoma: Report From the Childhood Cancer Survivor Study** *JOURNAL OF THE NATIONAL CANCER INSTITUTE*  
Ginsberg, J. P., Goodman, P., Leisenring, W., Ness, K. K., Meyers, P. A., Wolden, S. L., Smith, S. M., Stovall, M., Hammond, S., Robison, L. L., Oeffinger, K. C.  
2010; 102 (16): 1272-1283
- **Systematic Review: Surveillance for Breast Cancer in Women Treated With Chest Radiation for Childhood, Adolescent, or Young Adult Cancer** *ANNALS OF INTERNAL MEDICINE*  
Henderson, T. O., Amsterdam, A., Bhatia, S., Hudson, M. M., Meadows, A. T., Neglia, J. P., Diller, L. R., Constine, L. S., Smith, R. A., Mahoney, M. C., Morris, E. A., Montgomery, L. L., Landier, et al  
2010; 152 (7): 444-W154
- **Knowledge of Hepatitis C Virus Screening in Long-Term Pediatric Cancer Survivors A Report From the Childhood Cancer Survivor Study** *CANCER*  
Lansdale, M., Castellino, S., Marina, N., Goodman, P., Hudson, M. M., Mertens, A. C., Smith, S. M., Leisenring, W., Robison, L. L., Oeffinger, K. C.  
2010; 116 (4): 974-982
- **Stathmin and Tubulin Expression and Survival of Ovarian Cancer Patients Receiving Platinum Treatment With and Without Paclitaxel** *CANCER*  
Su, D., Smith, S. M., Preti, M., Schwartz, P., Rutherford, T. J., Menato, G., Danese, S., Ma, S., Yu, H., Katsaros, D.

2009; 115 (11): 2453-63

- **Peptide concentrations and mRNA expression of IGF-I, IGF-II and IGFBP-3 in breast cancer and their associations with disease characteristics** *BREAST CANCER RESEARCH AND TREATMENT*

Mu, L., Katsaros, D., Wiley, A., Lu, L., de la Longrais, I. A., Smith, S., Khubchandani, S., Sochirca, O., Arisio, R., Yu, H.

2009; 115 (1): 151-162

- **Breast Cancer Surveillance Practices Among Women Previously Treated With Chest Radiation for a Childhood Cancer** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*

Oeffinger, K. C., Ford, J. S., Moskowitz, C. S., Diller, L. R., Hudson, M. M., Chou, J. F., Smith, S. M., Mertens, A. C., Henderson, T. O., Friedman, D. L., Leisenring, W. M., Robison, L. L.

2009; 301 (4): 404-414

- **ERCC1 genotype and phenotype in epithelial ovarian cancer identify patients likely to benefit from paclitaxel treatment in addition to platinum-based therapy** *JOURNAL OF CLINICAL ONCOLOGY*

Smith, S., Su, D., de la Longrais, I. A., Schwartz, P., Puopolo, M., Rutherford, T. J., Mor, G., Yu, H., Katsaros, D.

2007; 25 (33): 5172-5179

- **Genetic polymorphisms and treatment response in advanced non-small cell lung cancer** *LUNG CANCER*

Su, D., Ma, S., Liu, P., Jiang, Z., Lv, W., Zhang, Y., Deng, Q., Smith, S., Yu, H.

2007; 56 (2): 281-288

## PRESENTATIONS

- Continuation of tyrosine kinase inhibitors after chemotherapy in Ph+ acute lymphoblastic leukemia - American Society of Pediatric Hematology/Oncology Annual Meeting, May 2019