

BIOGRAPHICAL SKETCH

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NAME: Masterson, Margaret

eRA COMMONS USER NAME (credential, e.g., agency login): MASTERMA

POSITION TITLE: Associate Professor of Pediatrics

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
College of William and Mary, Virginia	B.S.	06/1978	Biology
Eastern Virginia Medical School, Virginia	M.D.	06/1982	Medicine

A. Personal Statement

I am the Medical Director of the Long-term Information Treatment-Effects Evaluation (LITE) Program at the Rutgers Cancer Institute of New Jersey and have served in this position for fifteen years. I am an expert in the medical late effects from cancer treatment and regularly see adolescent and young adult (AYA) survivors in our LITE Program. I have collaborated with Dr. Devine for the past several years to develop the initial "Managing Your Health" intervention by providing expertise on the medical recommendations for AYA survivors. Together, we created an interactive program to foster self-management skills for young adults as they transition to taking primary responsibility for their healthcare. Due to this work, our LITE Program was recognized for the scalability of its programs and services as part of the 2020 Survivorship Champion's Prize from the Children's Cancer Cause and the Stewart Family Fund. As the Medical Director of our survivorship program and an active member of the Children's Oncology Group, I am knowledgeable of current survivorship late effects guidelines and well prepared to assist in the proposed research project. I will continue to provide expertise regarding survivorship late effects and also provide information regarding clinical workflows to help facilitate the integration of the patient-facing digital tool with electronic medical records and clinical practice. Dr. Devine and I have been working together for the past seven years, and I believe this is an exciting opportunity to help scale a promising intervention for our AYA survivors.

1. Devine KA, Viola A, Levonyan-Radloff K, Mackowski N, Bozzini B, Chandler A, Xu B, Ohman-Strickland P, Mayans S, Farrar-Anton A, Sahler OJZ, **Masterson M**, Manne SL, Arent SM. Feasibility of FitSurvivor: a technology-enhanced group-based fitness intervention for adolescent and young adult survivors of childhood cancer. *Pediatr Blood Cancer*, 2020; e28530. doi: 10.1002/pbc.28530 PMID: [32589339](https://pubmed.ncbi.nlm.nih.gov/32589339/)
2. Stapleton JL, Tatum KL, Devine KA, Stephens S, **Masterson M**, Baig A, Hudson SV, Coups EJ. Skin surveillance behaviors among childhood cancer survivors; *Pediatr Blood Cancer*, 2016, 63, 554-557.

B. Positions and Honors**Positions and Employment**

1982-1983 Pediatric Intern (PL-1), Children's Hospital of the King's Daughters
 1983-1985 PL-2 and PL-3, Hospital of Pittsburgh, PA
 1985-1986 Chief Resident (PL-4), Children's Hospital of Pittsburgh, PA
 1986-1989 Fellow, Pediatric Hematology/Oncology, Children's Hospital Med Ctr, Cincinnati, OH
 1989-1990 Research Scholar/ Instructor in Pediatrics, Children's Hospital Med Ctr, Cincinnati, OH
 1990-1995 Assistant Professor of Pediatrics, Children's Hospital Med Ctr, Cincinnati, OH
 1995-1999 Director, Pediatric Hematology/Oncology, Jersey Shore Medical Center, Neptune NJ
 1995-1999 Assistant Professor of Pediatrics, UMDNJ-RWJMS, New Brunswick, NJ
 1999-2013* Associate Professor of Pediatrics, UMDNJ-RWJMS, New Brunswick, NJ
 2005- Director, Childhood Cancer Survivorship, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

2007-2011 Director, Pediatric Hematology/Oncology, UMDNJ-RWJMS, New Brunswick, NJ
Fellowship Program

*2013- Associate Professor of Pediatrics, Rutgers-RWJMS, New Brunswick, NJ

(as of 7/1/2013 – UMDNJ-Robert Wood Johnson Medical School is now Rutgers-Robert Wood Johnson Medical School)

Other Experience and Professional Memberships

1989 Fellow, American Academy of Pediatrics
1989 Medical-Dental Staff, Children's Hospital Medical Center, Cincinnati
1990 Associate Member, Children's Oncology Group
1992 Member, Cell Kinetics Society
1993 Elected Member, American Society of Hematology
1993 Elected Member, American Society of Pediatric Hematology/Oncology
1994 Member, Children's Cancer Group
1995 Medical-Dental Staff, Jersey Shore Medical Center, Neptune, NJ
1998 Medical-Dental Staff, Riverview Medical Center, Red Bank, NJ
1998 Medical-Dental Staff, Medical Center of Ocean County, Brick, NJ
1999 Medical-Dental Staff, Robert Wood Johnson University Hospital, New Brunswick, NJ
2006 Member, New Jersey Commission for Cancer Research-Childhood Cancer Workgroup
2008 Member, Association of Pediatric Program Directors

Honors

2009-2012 LITE Program Award, Valerie Fund
2007 Sickie Cell Recognition Award, Savion's Sunrays
2006-2008 LITE Program Award, Embrace Kids Foundation
2006 Survivorship Education Award, City of Hope
1991-1992 Cancer Research Award, Eastern Star
1989-1990 National Research Science Award
1986-1988 Clinical Fellowship Award, American Cancer Society

C. Contribution to Science

1. Medical treatment of childhood cancer and late effects in survivorship

As the Medical Director of the Long-term Information Treatment-Effects Evaluation (LITE) Program at the Rutgers Cancer Institute of New Jersey, I am an expert in the medical and psychosocial needs of childhood cancer survivors. I have worked with behavioral scientists to consider how survivors' knowledge, beliefs, attitudes, and psychosocial functioning influences their adherence to medical recommendations and long-term health outcomes. I contributed to the development of the intervention in the proposed project, as well as an intervention to improve physical activity and fitness among AYA survivors of childhood cancer.

- a. Devine KA, Viola A, Levonyan-Radloff K, Mackowski N, Bozzini B, Chandler A, Xu B, Ohman-Strickland P, Mayans S, Farrar-Anton A, Sahler OJZ, **Masterson M**, Manne SL, Arent SM. Feasibility of FitSurvivor: a technology-enhanced group-based fitness intervention for adolescent and young adult survivors of childhood cancer. *Pediatr Blood Cancer*, 2020; e28530. doi: 10.1002/pbc.28530 PMID: [32589339](#)
- b. Drachtman RA, **Masterson M**, SHenkerman A, Vijayanatha V, Cole PD. Long-term outcomes for children with acute lymphoblastic leukemia (ALL) treated on The Cancer Institute of New Jersey ALL trial (CINJALL). *Leuk Lymphoma*. 2016;57:2275-80.
- c. Stapleton JL, Tatum KL, Devine KA, Stephens S, **Masterson M**, Baig A, Hudson SV, Coups EJ. Skin Cancer Surveillance Behaviors Among Childhood Cancer Survivors. *Pediatr Blood Cancer*. 2016;63:554-557.
- d. Stork LC, Matloub Y, Broxson E, La M, Yanofsky R, Sather H, Hutchinson R, Heerema NA, Sorrell AD, **Masterson M**, Bleyer A, Gaynon PS. Oral 6-mercaptopurine versus oral 6-thioguanine and veno-occlusive disease in children with standard-risk acute lymphoblastic leukemia: report of the Children's Oncology Group CCG-1952 clinical trial. *Blood* 2010;115:2740-2748.

2. Medical treatment of blood disorders

Our work has explored hemorrhagic stroke, deep venous thrombosis, and severe bleeding in acute immune thrombocytopenic purpura in pediatric patients through cases studies.

- a. Gurion R, Siu A, Weiss AR, **Masterson M**. Use of Recombinant Factor VIIa in a Pediatric Patient With Initial Presentation of Refractory Acute Immune Thrombocytopenic Purpura and Severe Bleeding. *J Pediatr Pharmacol Ther.* 2012;17:274-80.
- b. Ament AE, Li Z, Sturm AC, Perko JD, Lawson S, **Masterson M**, Quadros EV, Tanner SM. Juvenile cobalamin deficiency in individuals of African ancestry is caused by a founder mutation in the intrinsic factor gene GIF. *Br J Haematol.* 2009;144:622-624.
- c. Wolf M, Cangemi C, Drachtman R, **Masterson M**. Primary hemorrhagic stroke in a 12-year-old female with sickle cell disease and normal transcranial Doppler. *Pediatr Hematol Oncol.* 2008;25:451-456.
- d. Bruins B, **Masterson M**, Drachtman RA, Michaels LA. Deep venous thrombosis in adolescents due to anatomic causes. *Pediatr Blood Cancer.* 2008;51:125-128.

Complete list of published works in MyBibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/51919855/?sort=date&direction=ascending>

D. Research Support

Ongoing Research Support

National Cancer Institute (NCI) Devine (subaward PI) 09/16/21 - 06/15/22
 Contract #75N91021C00053

MYH 2.0: A Digital Experience to Improve Survivorship among AYA Cancer Survivors. MPI with Jeffery McLaughlin from Radiant Digital Technologies LLC;
 Margaret Masterson, MD, Co-Investigator (3.5% effort)

NIH/NCI R21CA222936 Devine (PI) 06/01/18 – 05/31/21 (NCE)

Improving Transition Readiness in Adolescent and Young Adult (AYA) Survivors of Childhood Cancer

The goal of this project is to pilot test a self-management + peer mentoring intervention to improve AYA cancer survivor transition readiness.

Role: Co-Investigator

Completed Research Support

K07CA174728 Devine (PI) 02/14/14 – 01/31/19

A Novel Mobile Health Fitness Program for AYA Childhood Cancer Survivors

This career development award provides training in mobile health technology. The research project develops and evaluates a mobile health fitness program to improve physical activity and fitness in adolescent and young adult cancer survivors.

Role: Advisor

Rutgers Cancer Institute of NJ Devine (PI) 10/01/15 – 04/30/18

CPC Pilot

Peer Mentoring to Promote Follow-Up Care Self-Management for AYA Childhood Cancer Survivors

This pilot project is to develop the content of and evaluate the initial feasibility of a peer-mentoring program to improve self-management of follow-up care of young adult survivors of childhood cancer.

Role: Co-Investigator