

# **Sophia Edwards-Bennett M.D., Ph.D. DABR**

(646)408-7092

[mydoctoreb@gmail.com](mailto:mydoctoreb@gmail.com)

## **Education**

### **Johns Hopkins Proton Therapy Center, Washington, DC**

Johns Hopkins Proton Therapy Certificate  
April 2024

### **Yale School of Management New Haven, CT**

Women's Leadership Program  
April 2024 - September 2024

### **Yale School of Management New Haven, CT**

Healthcare Care Executive Management Program  
February 2024 - May 2024

### **Harvard Medical School, Boston, MA**

Post-Graduate Training Program; Cancer Research and Therapeutics  
October 2018 – October 2019

### **Memorial Sloan Kettering Cancer Center, New York, NY**

Department of Radiation Oncology Residency,  
Radiation Oncology Residency  
July 2006-June 2010

### **St. Vincent Hospital, Manhattan, NY**

Department of Medicine Internship, Transitional Year  
July 2005-June 2006

### **Weill Medical College of Cornell University, New York, NY**

Doctor of Medicine with Honors in Research  
June 2005

### **Georgia State University, Atlanta, GA Ph.D., Bioorganic Chemistry**

April 1995—May 1999

### **University of the West Indies, Mona, Jamaica**

Bachelor of Science, Chemistry-Biochemistry  
1994

## **Professional History**

### **Professional History -Clinical Radiation Oncologist and MyDoctorEB LLC Consultant Services**

#### **SSM Health-Monroe Clinic Cancer Center**

##### ***MyDoctorEB LLC Consultant Services***

September 2021- present

#### **Baycare-Bardmoor Cancer Center**

##### ***MyDoctorEB LLC Consultant Services***

February 2021-August 2021

**MD Anderson Affiliate, Howard Community Network- Indianapolis**  
November 2020 – February 2021

**SSM Health-Monroe Clinic, Cancer Center  
New Radiation Oncology Center-open April 2020**  
Sole Purpose for Consultant Services -Launching and Practice Building, Media Interviews,  
Community Engagements  
April 2020 – October 2020

**MD Anderson Network Hospital, Lourdes  
Cancer Center, Binghamton, New York**  
May 2019 – August 2019

**Avera Cancer Centers  
Sioux Falls, Aberdeen, Mitchell & Pierre, South Dakota**  
August 2018 – February 2020

**Cyberknife Centers of Tampa Bay, Florida, SBRT Consultant**  
April 2019- February 2021

**National Cancer Treatment Center of Jamaica  
Senior Radiation Oncology Consultant**  
Jamaican Government-National Health Fund Contractual Agreement for the Expert Training of Radiation Staff  
and Start-up Pilot Practice Employing and Directing the Utilization of 3DCRT and IMRT Treatment Planning,  
Implementation and Execution of such Radiation Techniques for the newly-acquired - Rapid ARCLINAC.  
**Remote and on-site** Attending Radiation Oncologist/Consultant  
**Remote consultation services** including comprehensive review of medical-oncology records, radiation  
treatment recommendations, target and organs-at risk volume contouring, radiation treatment planning and  
plan evaluation.  
October 2017- January 2019

**21<sup>st</sup> Century Oncology (now Genesis Care)**  
Attending Radiation Oncologist  
Cancer Disparities Research Coordinator 4708 Oleander Drive, Myrtle Beach SC 29577  
April 2012- September 2017

**21<sup>st</sup> Century Oncology International Program Senior Radiation  
Oncology/Consultant**  
**Comprehensive Review of Oncologic-Diagnostic Records**  
**Formulation of Radiation Treatment Recommendations for International Patients**  
August 2014-September 2017

**Moffitt Cancer Center**  
Assistant Member, Department of Radiation Oncology  
August 2010-March 2012

## **Licensure and Certification**

New York Board of Medicine	April 2019 - present
South Carolina Board of Medicine	April 2012 - June 2019
Wisconsin Board of Medicine	2018 - present
Indiana Board of Medicine	2018 - present
South Dakota Board of Medicine	2018 - present
Florida Board of Medicine	2010 - present
Board Certified in Radiation Oncology	May 2011
American Board of Radiology	

## Awards

Marquis Who Who -Cancer Education; Star Treatment 2023  
Tampa Magazine Top Doc Edition 2020 Tampa Style Magazine 2020  
Tampa's Doctor of the Year 2019-2020  
Tampa Top Docs 2019-2020  
American Health Council, Best Doctors in America  
America's *Best in Medicine 2020 Awardee*  
Worldwide Who's Who **Lifetime Achievement Award** 2018-2019  
Strathmore Worldwide **Who's Who Female Professional of the Year Award** 2018 & 2019  
"Vitals *Patients Choice*" by Vitals.com "Top Doctors" 2017  
"Vitals *On-time Physician Award*", *Least waiting room time for patients* 2017  
"Top Doctor Award Florida and South Carolina" by International Association of Radiologists 2017  
**Leading Physicians of the World Award**, Top Radiation Oncologist 2015, 2016 & 2017  
**ASTRO Cancer Imaging and Radiation Therapy Symposium Travel Award** 2011  
Center for Equal Health, **Career Catalyst Award** 2010  
Performance Improvement **Award for Commitment to Improving Patient Care, MSKCC** 2009  
**Dean William Mecklenburg Polk Research Award** 2005  
**Dr. Florence Chu Oncology Scholarship Award** 2002

## Clinical Research Experience/Grants

### ***ASPIRE Grant -in collaboration with Arnold School of Public Health, 2014-2016.***

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|------------|--|
| 2014-2017  | <b>Carolina Regional Cancer Center in Collaboration with the Arnold School of Public Health.</b> Survey Study ascertaining knowledge about the role of radiation in the treatment among women with breast cancer.  |
| 2013-2017  | <b>Carolina Regional Cancer Center.</b> Determining differences in cosmetic outcomes between minority and non-minority women after BCT employing the BCCT core program.  |
| 2010-2012  | <b>Department of Radiation Oncology, Moffitt Cancer Center.</b> Determining the extent of knowledge about the role of radiation in the treatment of breast cancer among minority women to develop a radiation education minority series (REMS).  |
| 2009       | <b>Department of Radiation Oncology, Memorial Sloan Kettering Cancer Center in collaboration with the Ralph Lauren Comprehensive Cancer:</b> Determining treatment outcomes, adverse prognostic factors, utilization of adjuvant treatment in a large cohort of minority women with breast cancer treated at the Ralph Lauren Cancer Center. |
| 2008- 2009 | <b>Department of Radiation Oncology, Memorial Sloan Kettering Cancer Center:</b> Determining differences in cosmetic outcomes in minority women, after adjuvant hypofractionated radiation therapy following breast conservation therapy.  |
| 2007-2008  | <b>Multidisciplinary Diversity Cancer Research Team, Memorial Sloan Kettering Cancer Center.</b> Investigation of factors that decrease treatment disparities in minority women with breast cancer. The Utilization of Adjuvant Radiation Therapy and Outcomes in Black Women after Breast Conservation: The MSKCC Experience                |
| 2002-2006  | <b>Department of Radiation Oncology, Memorial Sloan Kettering Cancer Center.</b> A retrospective study of 126 patients with local extensive and advanced stage Hodgkin's disease treated with Stanford V chemotherapy regimen and radiation therapy.   |

## **Basic Science Research Experience**

- 2000-2001 **Postdoctoral Associate- University of Florida and Veterans Affairs Medical Center.** Investigation of the effects of cigarette smoking and hypoxia on nitric oxide production in pulmonary artery endothelial cells. Identification of the cytoskeletal regulators of nitric oxide production in lung endothelial cells.
- 1999-2000 **Postdoctoral Associate-University of Florida** in affiliation with **USDA, ARS.** Synthesis of *S. invicta*-produced alkaloids. Bait assays of *S. invicta* (fire ant)- produced pheromones and alkaloids.
- 1998-1999 **Graduate Research - Georgia State University,** Atlanta, GA. Synthesis and analysis of anthraquinones for DNA abasic site recognition and cleavage.
- 1996-1998 **Graduate Research - Georgia State University,** Atlanta, GA. Synthesis of anthraquinone DNA threading intercalators and potential DNA cutters. Kinetic and equilibrium binding studies of anthraquinones to DNA.
- 1995-1996 **Graduate Research - Georgia State University,** Atlanta, GA. Synthesis of porphyrin derivatives and investigation of porphyrin-DNA interactions. Molecular modeling studies of picket-fence porphyrin-DNA interactions.

## **Publications**

Cancer Control in the Caribbean Island Countries and Territories: some progress but the journey continues. Spence, D., Stanway S, Andall-Brereton G., Dyer R., **Edwards-Bennett S** et al. *Lancet Oncol*, 2019, 20;(9):503— 521.

### **NCCN-CAOH Harmonized Risk-Stratified Guidelines for Cancer Treatment in the Caribbean Regions September 2018**

Role of Internal Mammary Node Radiation as a Part of Modern Breast Cancer Radiation Therapy: A Systemic Review Verma V, Vicini F, Wobb J, **Edwards-Bennett S**, Shah C. *IJROBP*, 2016, 12;95(4):617- 631

The Unsung Edge of Diversity in Medicine: Through the Lens of an Oncologist, **Sophia Edwards-Bennett**, The Waiting Room Magazine, Find a Top Doc, May 2017, 36-37.

Adjuvant Breast Radiation Options Available after Breast Conservation Surgery. **SM Edwards- Bennett.** *J S C Med Assoc.* 2015 Dec;113(4):28

Private practice and academia--six degrees of separation. **SM Edwards-Bennett.** *J S C Med Assoc.* 2013 Dec;109(4):130-1

The choice of IMRT for early-stage right breast cancer. **SM Edwards-Bennett**, SF Andrews, PM Francke and FA Vicini. *J Clin Oncol* 31, 2013 (suppl 26;). Systemic therapy for bone metastases. Loftus LS, **Edwards-Bennett S**, Sokol GH, *Cancer Control* 2012, 19 (2): 14553.

Receipt of Adjuvant Breast Cancer Therapy in Minority Women: The Type of Treatment Center Matters. **Sophia M. Edwards-Bennett**, *Cancer* 2011, 118 (3):864.

Cause for Concern: The state of affairs of adjuvant breast radiation among minority women with breast cancer. **Sophia M. Edwards-Bennett.** *JNMA*, 2011, 103 (8).

Extranodal MALT Lymphoma of the Right Triceps Muscle following Influenza Vaccine Injection: A Rare Case with an Interesting Presentation. **S. M. Edwards-Bennett**, D. Straus, E. A. Athanasian, and J. Yahalom, *ISRN Hematology*, Volume 2011.

Controversies on Cosmetic Outcomes in Black women after Breast Conservation Therapy: Hyperperception or Hyperpigmentation?" **Sophia M. Edwards-Bennett** and Carol Brown. *Clinical, Cosmetic and Investigational Dermatology*, 2011, 4:15-17.

'Racial disparities in breast cancer mortality "Sophia **M. Edwards-Bennett**. *Cancer Epidemiology, Biomarkers and Prevention, Cancer Epidemiol Biomarkers Prev.* 2011; 20 (5):1046"Patterns of Utilization of Adjuvant Radiation Therapy and Outcomes in Black Women after Breast Conservation at a Large Multidisciplinary Cancer Center", **Sophia Edwards-Bennett**, Lindsay M. Jacks, Beryl McCormick, Michelle Azu, Alice Ho, Simon Powell and Carol Brown. *IJROBP*, 2011, 15;80(4):1102-8.

Optimization of Adjuvant Radiation in Breast Conservation Therapy: Can we minimize without compromise? **Sophia Edwards-Bennett**, Candace Correa, and Eleanor Harris. *Int. J. Breast Cancer*, 2011:2011:321304.

"Stanford V Program for Locally Extensive and Advanced Hodgkin Lymphoma: The Memorial Sloan- Kettering Cancer Center Experience", **Sophia M. Edwards-Bennett**, Lindsay M. Jacks, Craig H. Moskowitz, Elisa J. Wu, Zhigang Zhang, Ariela Noy, Carol S. Portlock, David J. Straus, Andrew D. Zelenetz, and Joachim Yahalom. *Annals of Oncology*, 2010, 21 (3), 574-81.

"Regulation of endothelial nitric oxide synthase by the actin cytoskeleton". Am Su Y, **Edwards- Bennett S**, Bubb MR, Block ER. *J Physiol Cell Physiol.* 2003 284(6):C1542-9.

"Cleavage of Abasic Sites in DNA by Intercalator-Amines" V. Steullet, **S. Edwards-Bennett** and D. W. Dixon (1999) *Journal of Bioorganic and Medicinal Chemistry*, 11, 2531-2540.

## **Abstracts/Presentations**

NEWLIFE Virtual Exposition, Feb 6-7, 2021

A Novel Approach to Cancer Treatment: **Sophia Edwards-Bennett MD PhD**

*Clinical Chairman, CAOH Conference 2019, Cartagena, Colombia*

*Cyberknife Stereotactic Radiation Therapy- Precision Without Incision: **Sophia Edwards- Bennett MD PhD, Freeman, Debra MD, July 2019***

CANS (Caribbean Association of Neurosciences Symposium,

Cyberknife: Virtual Surgery without the Knife—Coined the X--Ray Beam of Life, The Evolution, Expansion and Paradigm Shift of Its Radiotherapeutic Anatomical Applications **Sophia Edwards-Bennett MD PhD**, Mark Pomper MD, David Huang, MD and James Schwade MD FACR FACRO FASTRO. February 24, 2019

NCCN-CAOH Tailored Guidelines for Cancer Treatment in the Caribbean Region Adaptations in the Treatment of Non-Small Cell Lung Cancer in the Caribbean Region

May 12, 2018; **S. M. Edwards-Bennett**, Chairman-Lung Cancer Committee, September 2018

Utilization of a Novel Adaptive Dose Recalculation Tool in the Delivery of High-Dose Radiation for Intermediate-to High-Risk Prostate Cancer. **S.M. Edwards-Bennett**, A.J. Herbert, S.M. Key, S.F. Andrews, P.M. Francke, R.A. Barton, J.D. Swist, C.B. Hodges, R.L. Walls, W. Root, S.L. Mahan, C.A. Mantz. September 2014.

Is there Justification for the Utilization of IMRT in the Treatment of Early-Stage Right Breast Cancer? **SM Edwards-Bennett**, SL Mahan, B M Walls, J D Swist, SF Andrews, PM Francke and FA Vicini. The choice of IMRT for early-stage right breast cancer. **SM Edwards-Bennett**, SF Andrews, PM Francke and FA Vicini. *J Clin Oncol* 31, 2013 (suppl 26; abstr 81)

Is there Justification for the Utilization of IMRT in the Treatment of Early-Stage Right Breast Cancer? **SM Edwards-Bennett**, SF Andrews, PM Francke, CB Hodges, B M Walls, J D Swist and FA Vicini. *ASTRO/NCI/AAPM Joint Conference*, 2013

External Genitalia and Vaginal Sparing by Employing Tomotherapy in Female Anorectal Cancer Patients. **SM Edwards-Bennett**, S F Andrews, S Mahan, J D Swist, CB Hodges, A DeMattei and PM Francke. ASTRO/NCI/AAPM Joint Conference, 2013.

The predictive value of <sup>18</sup>F-FDG PET for outcomes in unfavorable risk HD treated with the Stanford V regimen. **Sophia Edwards-Bennett MD., PhD**, Heiko Schoder MD, Meier Hsu MS, Zhigang Zhang PhD, David Straus and Joachim Yahalom MD. ASTRO Cancer Imaging and Radiation Therapy Symposium 2011.

PMRT Employing IMRT versus 3CDRT in the treatment locally advanced right breast cancer. Are there anatomical surrogate markers for potential candidates for IMRT. **Sophia Edwards- Bennett**, Candace Correa, Weiqi Li and Eleanor Harris. ASTRO 2011.

Racial disparities in endometrial cancer at a multidisciplinary cancer center, Robinson N, Diaz J, **Edwards-Bennett S Gynecologic Oncology**, 2010, 116 (3), S89-S89.

“Patterns of Utilization of Adjuvant Radiation Therapy and Outcomes in Black Women after Breast Conservation at a Large Multidisciplinary Cancer Center”, **Sophia Edwards-Bennett**, Lindsay M. Jacks, Beryl McCormick, Michelle Azu, Alice Ho, Simon Powell and Carol Brown. International Journal of Radiation Oncology Biology and Physics, (2009), 75 (3), S214-214.

“A Non-Stanford Mature Experience with Stanford V ± RT Regimen for Locally Extensive and Advanced Hodgkin's Lymphoma (HL)” **S. M. Edwards-Bennett**, C. Moskowitz, J. Jacobs, A. Zelenetz, J. Yahalom, International Journal of Radiation Oncology Biology and Physics (2007), 69 (3), S18-19.

“Stanford V and radiotherapy for advanced and locally extensive Hodgkin's disease (HD): The Memorial Sloan Kettering Cancer Center (MSKCC) experience.” J.Yahalom, **S Edwards- Bennett**, J. Jacobs, C.H. Moskowitz, E.J. Wu, M. Cotler, S.M. Horwitz, A. Noy, O.A. O'Connor, C.S. Portlock, D.J.Straus, A.D. Zelenetz (2003) *Blood*, 102, 402A.

“Anthraquinone and Naphthalene-diimide Threading Intercalators: Effect of size on DNA Binding” D. W. Dixon, V. Steullet and **S. Edwards-Bennett** (1999) *Journal of Inorganic Biochemistry*, 74, 115.

“Threading Intercalators: Effect of side chain structures on DNA interaction for anthraquinones and naphthalene diimides.” D. W. Dixon, V. Steullet and **S. Edwards-Bennett** (2000) *Biochemistry*, **39**, 1573.

“Cleavage of DNA abasic sites by amines and intercalator-amines.” D. W. Dixon, V. Steullet, **S. Edwards-Bennett** and J. L. Gonzalez-Roman (2000) *Biochemistry*, 39, 1576.

### **21st Century Oncology (Now GenesisCare) International Program Presentations** **(Medical and Non-Medical Audiences)**

Definitive Radiation Therapy: IMRT/IGRT in the Treatment of Prostate Cancer, **Sophia Edwards-Bennett MD PhD.**, Jamaica Urological Society Symposium, February 23, 2014.

Stereotactic body Radiation Therapy: Precise, targeted and shorter treatment course for prostate cancer – **Sophia Edwards-Bennett, MD PhD**, Caribbean Urological Association Annual Conference, November 7, 2014.

Radiotherapeutic Treatment Options for Castrate Resistant Prostate Cancer with Osseous Metastasis, **Sophia Edwards-Bennett MD PhD**, Jamaica Urological Society Annual Conference February 22, 2015.

Radiotherapeutics in Prostate Cancer - “It's not where we're from-It's where we're going: The Evolution of Radiotherapeutic Interventions in the treatment of Prostate Cancer.” **Sophia Edwards Bennett-MD, PHD**, Jamaica Cancer Society Prostate Cancer Medical Conference. September 27, 2015.

Breast Cancer in the 21st Century: The Basics and Updates and Updates, **Sophia Edwards-Bennett MD PhD**, Breast Friends-Antigua Breast Cancer Seminar Breast Cancer Control: Not Beyond Us. October 23, 2015.

The Evolution of Radiotherapeutic Techniques in the Treatment of Breast Cancer, **Sophia Edwards- Bennett MD PhD**, Breast Friends Antigua Breast Cancer Seminar Breast Cancer Control: Not Beyond Us, October 23, 2015.

Truths and Myths of Prostate Cancer, **Sophia Edwards Bennett-MD, PHD**, Barbados Cancer Support Services, February 18, 2016.

Radiation Therapy for Orbital and Intraocular Lymphomas. **Sophia Edwards-Bennett MD PhD**, Latest Updates in Ophthalmology Subspecialty Conference, February 19, 2016.

Breast Cancer Basics: Screening, Treatment and Follow up: **Sophia Edwards-Bennett MD PhD**, Cancer in General Practice: Update for Practitioners Seminar, University of the West Indies, Barbados, February 20, 2016.

The Role of Radiation Therapy in the Treatment of Genitourinary Malignancies and Organ Preservation, **Sophia Edwards-Bennett MD PhD**, Jamaica Urological Society Symposium, March 6, 2016.

“The Follow-up Care After Cancer Treatment” **Sophia Edwards-Bennett MD PhD**, Cancer Support Services Annual Cancer Survivorship Conference, July 2, 2016.

“Dealing with Cancer Recurrence” **Sophia Edwards-Bennett MD PHD**, Cancer Support Services Annual Cancer Survivorship Conference July 2, 2016.

Stereotactic Body Radiation Therapy (SBRT) for Low-Risk Prostate Cancer: A Single Center’s Experience-**Sophia Edwards Bennett MD PhD**, Barbara Roe, S, A. Andrews DO, Jamaica Urological Society Symposium P. Francke MD, March 5, 2017.

Radiotherapeutic Approaches for the Treatment of Brain Metastases: When and Why? **Sophia Edwards-Bennett,MD,PHD**, Caribbean Neurosciences Symposium January 27, 2017.

It’s Not a Sprint, It’s a Marathon, **Sophia Edwards-Bennett, MD, PhD**, 21st Century Oncology, Cancer Support Services Annual Cancer Survivorship Conference, Barbados, 2017.

‘Brief Overview for Follow-up After Cancer Treatment’

“Survive Alive” **Sophia Edwards-Bennett, MD, PhD**, Cancer Support Services Annual Cancer Survivorship Conference, Barbados, 2017.

### **Journal Reviewer**

2012-2018  
Cancer Investigations  
Journal of SCMA

### **Professional Memberships:**

American College of Radiation Oncology (ACRO) Membership Committee, 2014-present  
American Society for Therapeutic Radiology and Oncology (ASTRO) 2014- present  
American Medical Association (AMA) 2011-Present

### **References Upon Request**