# **B-GREAT MILESTONES**

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#### WELCOME MESSAGE

The <u>B</u>reast Cancer <u>G</u>enetics <u>R</u>esearch and <u>E</u>ducation for <u>A</u>frican American Women <u>T</u>eam (B-GREAT) was formed as an academic-community partnership to develop strategies to reduce breast cancer health disparities in inherited cancer testing in the Black community. In our 9<sup>th</sup> year, we continue to contribute to expanding knowledge about hereditary breast cancer, as we strive to empower those at risk to make the most informed decisions regarding their health care options. Please visit our website for more information: <u>bgreatinitiative.inheritedcancer.net</u>.

Through this newsletter, we want to give you updates on our studies among young breast cancer survivors, bring awareness to racial inequalities in healthcare, and welcome new members passionate about breast cancer genomics and health disparities research to our team.

We hope you and your family are staying safe in these challenging times and thank you for your continued support of our research efforts. These types of efforts remain critical as we strive to educate and inform the African American community about the role of inherited breast cancer genes that "run in families."

FL

Sincerely,

**B-GREAT Co-Founders** 

Jugo Palus

Tuya Pal, MD, FACMG Vanderbilt-Ingram Cancer Center

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#### FOLLOW US TO STAY INFORMED



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**ABOUT THE BEST STUDY** 

To date, over 650 Black women diagnosed at or below age 50 with breast cancer are participating in our BEST study. This study is focused on young Black women with breast cancer, recruited through the Tennessee and Florida state cancer registries. Through this study, we continue to offer opportunities for genetic counseling, education, and testing. Continued recruitment into the BEST study and collaboration with other similar efforts will further help to expand our knowledge about biological and non-biological factors among young Black women diagnosed with breast cancer to contribute to the development of effective strategies to improve health outcomes.

### **BENITA: WHAT PARTICIPANTS TAUGHT OUR TEAM**

In the last year, we completed two more projects using data from the BENITA (Behavioral and EmotioNal Impact of Testing in African Americans) study! In this study, 360 young Black breast cancer survivors from Florida received genetic testing to see if they had a mutation in the Breast Cancer (BRCA) genes. They completed surveys before and after they had genetic testing. This year, we used the data from the BENITA study to answer two important questions about breast cancer survivorship among Black women:

- 1. Do Black women experience any positive changes after a breast cancer diagnosis?<sup>1</sup>
- 2. Women who received genetic testing prior to 2013 are eligible for "update" genetic testing, which tests for mutations in other genes (besides the BRCA genes) that may increase risk for breast cancer. Are Black breast cancer survivors interested in "update" genetic testing?<sup>2</sup>

The infographic below tells you what we found out about these important questions!



<sup>1</sup>Conley et al. 2020 Jul. Patterns and covariates of benefit finding in young Black breast cancer survivors: A longitudinal, observational study. Psychooncology. PMID: 32323400. <sup>2</sup>Conley et al. 2020 Apr. Acceptability and outcomes of multigene panel testing among young Black breast cancer survivors. Breast J. PMID: 32319712.

#### GENES THAT RAISE BREAST CANCER RISKS AMONG BLACK WOMEN

A study among Black women with and without breast cancer, including our research participants, showed that mutations in inherited breast cancer genes were identified in 10% of women with estrogen receptor (ER)-negative breast cancer, 5% of women with ER-positive breast cancer, and 2% of women without a cancer diagnosis. The highest breast cancer risks were seen among those with BRCA1, BRCA2, and PALB2 mutations. These findings of inherited cancer genes among Black women are similar to those previously seen in White women and highlight the importance of identifying these women and offering them both genetic counseling and testing.

Palmer et al. 2020 May. Contribution of germline predisposition gene mutations to breast cancer risk in African American women, J Natl Cancer Inst. PMID: 32427313.



Black women with:

~10% with ER- breast cancer ~5% with ER+ breast cancer

#### **RACIAL INEQUALITIES IN HEALTHCARE**

It is important to talk about racial inequalities in healthcare as they affect the care received among Black patients. Through our research efforts focused on inherited cancers, we strive to study inequities and consider strategies to make healthcare more equitable.

Our study among a diverse group of young women with breast cancer showed that Black women had lower rates of genetic testing compared to White women.<sup>1</sup> Another study among ovarian cancer patients showed similar findings.<sup>2</sup>

Additionally, the American Association for Cancer Research (AACR) recently published a Cancer Disparities Progress Report, stating "... our limited knowledge of cancer biology in racial and ethnic minorities, including their inherited cancer predisposition and the genomic underpinnings of cancer initiation and progression, diminishes the potential of precision medicine in these populations."<sup>3</sup> We highlighted some specific information about inherited cancers that was included in this timely report through our social media efforts, which we have included in the colored panels below.



We strive to develop strategies such that ALL populations, regardless of race and ethnicity, benefit from genetic testing. To raise awareness about the importance of genetic testing for inherited cancers across diverse populations, we have grown our social media efforts by regularly sharing updates on treatment advances, cancer risks, and inherited cancer screening guidelines. We encourage you to follow us on your preferred platform (Instagram, Facebook, Twitter, and/or LinkedIn) to stay informed.



<sup>1</sup>Cragun, et al. 2017 Jul. Cancer. PMID: 28182268. <sup>2</sup>Manrriquez, et al. 2018 Apr. Gynecol Oncol. PMID: 29605055. <sup>3</sup>American Association for Cancer Research. AACR Cancer Disparities Progress Report 2020. Available at: https://cancerprogressreport.aacr.org/wp-content/uploads/sites/2/2020/09/AACR\_CDPR\_2020.pdf

#### **INTRODUCING SONYA REID, MD, MPH**

We are thrilled to announce that Dr. Sonya Reid has joined the Vanderbilt faculty, where she is a practicing medical oncologist in the breast cancer program. Dr. Reid's research interests include breast cancer genomics and health disparities, with a focus on population health, which includes working on projects focused on the delivery of cancer genetic services alongside Dr. Tuya Pal. Dr. Reid has had a longstanding interest in disparities research, stemming in part from her upbringing in her home country of Jamaica. We are proud to welcome Dr. Reid to the Vanderbilt faculty and look forward to continuing to work closely with her.

Check out below a recent article Dr. Reid wrote about disparities in genetic counseling!

#### DISPARITIES IN BRCA COUNSELING AMONG YOUNG BREAST CANCER SURVIVORS

A study among young Black, Hispanic, and Non-Hispanic White breast cancer survivors in Florida, including our research participants, showed that few young Black women with breast cancer see a genetic counselor, AND those with insurance are LESS likely to see a genetic counselor. For more information, read the full article at: https://www.nature.com/articles/s41436-020-0762-0

Reid, et al. 2020 Feb. Disparities in BRCA counseling across providers in a diverse population of young breast cancer survivors. Genet Med. PMID: 32066870.



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Surprisingly, those with insurance are LESS likely to see a genetic counselor

