Bristol Myers Squibb™ Foundation

Global Cancer Disparities Initiative

The mission of the Bristol Myers Squibb Foundation is to **promote health equity and improve the health outcomes** of populations disproportionately affected by serious diseases by strengthening healthcare worker capacity, integrating medical care and community-based supportive services and mobilizing communities in the fight against disease.

The Foundation's *Global Cancer Disparities Initiative* seeks to strengthen cancer care systems and community supportive services for heavily burdened populations facing a range of pediatric and adult cancers in sub-Saharan Africa, Brazil, China and the United States. Grant making in Brazil and China will commence in the latter part of 2020.

US Partners and Projects

LUNG CANCER

The **American Cancer Society** project called The Lung Cancer Screening Navigation Pilot Program will be working in partnership with three federally qualified health centers (FQHCs) to develop, implement and evaluate a lung cancer screening navigation program to advance evidence-based strategies to increase lung cancer screening rates within primary care systems and increase timely access to specialists after a positive screening result.

The **American Cancer Society's** Comprehensive Lung Cancer Patient Support Program (CLCPSP) will develop, implement and evaluate an innovative approach to survivorship care that includes both telephone-based and in-hospital lung cancer survivorship navigation, a self-management smartphone app developed in partnership with the National Cancer Institute (NCI) and a provider-focused webinar designed to improve care for lung cancer survivors. The program will target eight southeast states, focusing primarily on medically underserved and low socioeconomic status areas.

The **American Lung Association's** Smokefree Public Housing Initiative will take a comprehensive approach to supporting the US Department of Housing and Urban Development (HUD) by helping Public Housing Authorities (PHAs) across 10 states to prepare to implement HUD's new smoke-free public housing rule. ALA will provide technical assistance support that will ensure PHAs finalize and implement the smoke-free housing rule in a manner which maximizes staff and resident compliance, and it will utilize a peer-based system of education and support among PHA resident case managers to link residents to nearby smoking cessation and lung screening programs.

The **Association of Community Cancer Centers (ACCC)** will develop the Optimal Care Coordination Model to engage ACCC members, community health centers, patient advocacy organizations, health system leadership, payers and policymakers to strengthen **lung cancer** systems of care and improve outcomes for Medicaid patients by expanding access to and use of care.

Augusta University's project cancer-Community Awareness Access Research & Education (c-CARE) is a collaboration with faith-based organizations and clinics that will train community health workers to lead lung cancer awareness classes and make screening referrals for African American populations in the Central Savannah River Area.

Avera McKennan will implement a pilot program Increasing Lung Cancer Screening for High Risk Smokers in a Frontier Population and investigate the effectiveness of increasing lung cancer screening among high-risk smokers

in the medically underserved frontier population in western South Dakota, a region which is primarily composed of low-income whites and American Indians living on reservations and in rural communities. This type of education and research of its effectiveness has never been done within this population and will aid in producing evidence-based policy recommendations that are specific to serving this vulnerable group.

The **Institute for Medical Research at the Durham VA** will develop and pilot a comprehensive lung cancer survivorship program that will provide a coordinated approach to management of life after lung cancer and address depression, debility and tobacco use while ensuring appropriate surveillance through an integrated electronic medical record for veterans serviced by the Durham VA.

Jefferson Health, an integrated health system and safety net provider in Philadelphia, will launch a citywide **lung cancer** campaign to change the culture of lung cancer in the city by reducing the stigma, increasing healthcare provider knowledge and cultural competency, improving service flows and connecting individuals at high risk for lung cancer with screening programs focusing on low-income, African American, and recent Asian immigrant populations. As part of a $20 million initiative to improve pulmonary health, Jefferson has already secured an additional $14 million of philanthropic investment from individual donors, foundations and corporations.

The **Levine Cancer Institute** launched the Lung B.A.S.E.S. (Bringing Awareness, Screening & Education to Improve Survivorship) 4 Life project that will pioneer deploying a mobile computerized tomography (CT) scanning unit into communities in North and South Carolina to avail vulnerable populations of the benefits of screening and early detection and to streamline patients with abnormal scans into a comprehensive health network designed to deliver care regardless of where a patient resides.

Lung Cancer Alliance's project The Alabama Lung Cancer Awareness, Screening & Education program (ALCASE) will be composed of three interventions: Community Health Advisors (CHA) awareness, education and community outreach, screening center technical assistance and support, and ancillary interventions and services for those diagnosed in seven counties in the Black Belt region of Alabama.

LUNGevity's Project ACTS (Adherence to CT Screening) is a collaboration between academics, clinicians and a patient advocacy group that aims to increase adherence to follow-up low-dose CT screening for those high-risk individuals who present with lung nodules in their initial scan, or who do not present with nodules in the initial scan but require annual follow-up, by developing a procedure and tool for the screening centers responsible for patient follow-up.

Maine Medical Center is the lead grantee for the Maine Lung Cancer Coalition, the first statewide multi-institutional and multidisciplinary approach to expand access to **lung cancer** prevention, early detection and treatment services for vulnerable, rural, underserved patient populations in the entire state of Maine. The Maine Economic Fund is also providing an additional $200,000 and Maine Medical Center has committed $1.6 million in grant support.

The McGuire Research Institute, Carl T. Hayden Medical Research Foundation, Houston VA Research and Education Foundation, Icahn School of Medicine at Mount Sinai and Vista Expertise Network will collaborate on the VA-PALS (Partnership to increase Access to Lung Screening) Implementation Network. The project will improve veterans' access to lung cancer screening through implementation of the evidence-based International Early Lung Cancer Action Program (I-ELCAP) screening program and protocol at 10 VA medical centers through a process that includes training, oversight and centralized quality assurance from the I-ELCAP team, with the aim of increasing the likelihood of early detection and ultimately reducing the mortality rate of lung cancer among veterans.

Tufts University's project Improving Quality of Life Among Lung Cancer Patients will focus on improving outcomes for lung cancer patients by providing comprehensive and collaborative nutrition counseling with registered dietitians and additionally measure the impact of home-delivered medically tailored meals, applying direct integration into oncology care.

University of Kentucky, the University of Louisville and the Lung Cancer Alliance will collaborate on Kentucky Lung Cancer Education, Awareness, Detection, Survivorship (KY LEADS). The project is a comprehensive, statewide initiative aimed at improving patient outcomes through provider education, prevention and early detection, and survivorship care.

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The **University of Louisville's** LuCa National Training Network will establish the first national effort to educate providers, through intermediary organizations, on lung cancer. The goal of the center is to institute a national education and training epicenter to improve lung cancer care across the continuum of disease, starting with improvements in screening uptake and adherence to guidelines. The center will develop partnerships with national health systems, professional organizations and other groups to widely disseminate best practices and implementation tools.

The **University of South Carolina College of Nursing's** project Advancing Quality Lung Cancer Survivorship in South Carolina will establish a statewide collaboration between cancer advocates and academic institutions called Partners in Quality Lung Cancer Survivorship (PIQ) to test the feasibility and preliminary effects of a Mindfulness-based Stress Reduction (MBSR) intervention called Breathe Easier.

The **West Virginia University Cancer Institute's** program Bridge to Good Living: Thriving Beyond Lung Cancer will implement an innovative program model that includes establishment of a monthly interdisciplinary survivorship care clinics; enhances the current surveillance system for recurrence of the primary and/or secondary cancer(s); monitors and manages physical, psychosocial effects of diagnosis, treatment and after-effects; provides health education about screening recommendations and follow-up, survivorship issues and community resources; assesses patients' attitudes toward smoking cessation; and offers intervention options.

BREAST CANCER

The **Greenwood Leflore Hospital,** located in the Mississippi Delta, will leverage existing community-clinical linkages to improve health outcomes and quality of life for **breast cancer patients.** The team will implement a patient-centered approach to care to facilitate screening for high-risk patients, improved surveillance for metastasis and recurrence, and involve the patient's community in maintaining their health. The project will create a model where breast cancer patients are entering into care with the support of personalized contacts via the community.

PAN-TUMOR

Institute for Medical Research will accelerate the expansion of Tele Oncology throughout the Veterans Health Administration by developing and implementing process standards to expedite the expansion of a model for delivering specialized oncology in a virtual setting, which will enable every veteran with cancer receiving care in the VA to have access to cutting-edge technologies in oncology care and access to clinical trials regardless of their geographic location.

Johns Hopkins Center for American Indian Health will plan and conduct formative research to develop an implementation plan to build sustainable and scalable models to address **cancer health disparities** among American Indian communities, starting with the Navajo Nation and the White Mountain Apache Tribe.

Project ECHO (Extension for Community Healthcare Outcomes) will apply the ECHO™ model for tele mentoring and collaborative care to spread **cancer care knowledge** more quickly and improve the delivery of cancer services among rural and underserved populations in the United States and South Africa by bringing top-quality care to cancer patients where cancer specialists are not readily available.

University of California Davis, in a collaborative partnership with the **Health and Life Organization,** will prospectively identify and follow Asian American, Native Hawaiian and Pacific Islander patients across the cancer continuum to improve cancer prevention and control behaviors for **lung, liver, GI and colorectal, cervical and breast cancer** and to create a New Patient Referral service between an FQHC-lookalike and NCI Comprehensive Cancer Center.

University of California Irvine (UCI) Chao Family Comprehensive Cancer Center will build a formal collaborative network as a hub/spoke model between community organizations, Cal Optima primary and specialty care providers, and UCI's specialists to provide more efficient and effective **cancer care** for low-income MediCal Vietnamese, Korean and Chinese patients in Orange County, California.

University of California San Francisco will create an in-person and virtual-based patient navigation program to enhance the quality of cancer for English, Chinese and Vietnamese patients newly diagnosed with **colorectal, liver or lung cancer** in the Greater San Francisco Bay Area.

University of Hawai'i John A. Burns School of Family Medicine will strengthen telehealth infrastructure, provide **cancer education** and case management through Project ECHO, and train community health workers to improve delivery of cancer services and outcomes for Native Hawaiians and the US-affiliated Pacific Island communities of Guam, American Samoa and the US Commonwealth of the Northern Marina Islands.

University of Illinois Cancer Center will develop and implement the UI CAAN (Cancer Screening, Access, Awareness and Navigation) Project, a community-focused cancer education, prevention, screening and navigation program aimed at addressing the elevated burden of **colorectal and cervical cancer** in marginalized communities such as low-income, racial and ethnic minority, LGBTQ and differently abled populations in Chicago.

Yale Cancer Center, an NCI-designated Comprehensive Cancer Center, will address healthcare disparities in cancer care and support on the Cancer Disparities Firewall project, a multilevel intervention that focuses on patient- and system-level factors that contribute to cancer disparities in New Haven County, targeting **lung, breast, colorectal and prostate cancer.** Yale school of Public Health is a funding and collaborating partner and is contributing $116,734.

Sub-Saharan Africa Partners and Projects

MULTINATIONAL LUNG CANCER CONTROL PROGRAM (MLCCP):
The goal of the MLCCP is to improve access to early diagnostic services for lung cancer by addressing the barriers of cancer care through working with communities and the Ministries of Health in the identified regions in the four countries (Kenya, Tanzania, Eswatini and South Africa, Lesotho and Ethiopia) with a potential for scale-up. The participating partners and projects are:

Academic Model Providing Access to Healthcare/Moi Teaching and Referral Hospital aims to improve understanding of lung cancer pathways and access to early diagnostic services for lung cancer by addressing the barriers of cancer care through working with communities and the Ministries of Health in the identified regions with a potential for scale-up. This is the first country in the MLCCP network.

University of Kwazulu-Natal, Department of Health/Addington Regional Hospital aims to improve early diagnosis of lung cancer by establishing outreach screening services and establishing a lung cancer diagnostic and care center at a regional cancer care center in KwaZulu-Natal, South Africa.

University Research Co./Eswatini Ministry of Health aims to strengthen the capacity of the Swaziland National Cancer Registry initiative on lung cancer surveillance and to assist the Swaziland Ministry of Health to address barriers to care and improve early diagnostic services aimed at supporting evidence-based cancer registry coordination and establishing the epidemiologic burden of lung cancer to improve lung cancer surveillance.

Catholic Univeristy of Health and Allied Sciences/Bugando Medical Centre aims to improve understanding of lung cancer pathways and access to early diagnostic services for lung cancer by addressing the barriers of cancer care through working with communities and the Ministries of Health in the identified regions with a potential for scale-up. The multinational study covers specific regions in Kenya, Tanzania, Swaziland and South Africa. However, this proposal is mainly focused on how Tanzania will execute specific aspects of the study. This is the fourth country in the MLCCP network.

Mathiwos Wondu-YeEthiopia Cancer Society aims to improve early screening, diagnosis, treatment and survival of lung cancer in four regions in Ethiopia (Amhara, Addis Ababa, Oromia and Afar) through training of healthcare providers at regional and district hospitals and awareness campaigns within communities.

National University of Lesotho, Faculty of Health Sciences is aimed at reducing cancer-related morbidity and mortality and improving the quality of life for cancer patients in Lesotho by providing flagship comprehensive oncology clinical and palliative care for cancer patients.

Wits Health Consortium aims to establish a Centre of Respiratory Excellence (CORE) in Gauteng Province (South Africa) based at Helen Joseph Hospital and to formalize a tripartite service delivery, training and research partnership with Chris Hani Baragwanath Academic Hospital (CHBAH) and Charlotte Maxeke Johannesburg Academic Hospital respiratory departments. The Centre will incorporate a multidisciplinary team of pulmonologists, histopathologists (based at the National Institute of Occupational Diseases), oncologists, radiologists, nurses, palliative care professionals, community field workers, public, private, non-governmental organization and academic research partners to address patient-level barriers to healthcare access and healthcare system barriers.

Wits Health Consortium/CHBAH seeks to establish a holistic adult cancer care and treatment center of excellence (COE) at CHBAH focusing on the five most common adult cancers (breast, cervical, colorectal, lung and prostate cancers).

Cancer Care Workers/Kimberley Hospital Complex aims to establish a lung cancer COE at the Robert Mangaliso Sobukwe Hospital (formerly Kimberley Hospital Complex) Oncology Department and expand its community-based cancer services in the John Taolo Gaetsewe District to promote earlier detection, referral and diagnosis of lung, breast and cervical cancer and improved patient care.

Wits Health Consortium/Nelson Mandela Academic Hospital aims to improve the quality of life for lung cancer patients by establishing a sustainable multidisciplinary collaborative for decentralized lung cancer care through appropriately trained and capacitated health professionals and community health workers who will screen, diagnose, care for and support lung cancer patients.

TB HIV Care aims to support improved patient outcomes for lung cancer and other common cancers affecting people living in the drainage area of the Nelson Mandela Academic Hospital by raising community awareness of lung cancer, promoting and linking people to screening, and supporting navigation through the health system as well as supporting palliative and survivorship activities.

ADDRESSING AIDS-RELATED MALIGNANCIES WITH CERVICAL CANCER AS PRIORITY

Eswatini Breast and Cervical Cancer Network/Baylor Children's Center of Excellence/Forum for African Women's Education Eswatini aims to enhance prevention, early detection and management of cancers among women and promote education among young girls and boys in Eswatini by empowering them to make health-enhancing decisions for healthy living.

Catholic Medical Mission Board Inc. - Combatting Cervical Cancer in Kenya aims to promote prevention interventions among girls and women aimed at the reduction of the incidence of human papilloma virus (HPV) and the enhancement of access to treatment for women with cervical cancer through the Children and Mothers Partnerships (CHAMPS) initiative.

PEDIATRIC ONCOLOGY AND BLOOD DISORDERS

Texas Childrens's Hospital-Cancer and Hematology Center – Global Hope's primary focus will be on creating Pediatric Hematology-Oncology (PHO) COEs in three countries—namely Botswana, Malawi and Uganda—to improve standards of care and ensure continual improvement in patient outcomes.

Groupe Franco Africain d'Oncologie Pediatrique (GFAOP) seeks to provide care for at least 3,000 children in sub-Saharan Francophone Africa hospital units with an early stage diagnosis. Through short-term training sessions and long certifying training diplomas, GFAOP aims to train healthcare professionals inclusive of nurses, pathologists, surgeons and pharmacists to adequately treat and care for pediatric cancers.

MULTIPLE MYELOMA

Academic Model Providing Access to Healthcare/Moi Teaching and Referral Hospital aims to continue to respond to the ongoing needs of patients and provide guidance to communities in need of healthcare services during the coronavirus (COVID-19) crisis in Kenya. The main objectives are in response to the COVID-19–based restrictions by accelerating the implementation of telemedicine services to facilitate the continuation of vital complementary care services for patients with cancer, hematologic conditions and immunodeficiency-related needs and secondly, to develop complementary services for oncology through advancing care for supportive services needed to maintain oncology care. The major expected outcomes are to increase engagement in care for patients receiving peer support and to develop partnerships across sub-Saharan Africa to scale up comprehensive Kaposi sarcoma services.

TECHNICAL ASSISTANCE AND SKILLS TRANSFER PROGRAM

Isibani Development Partners seeks to improve community access to screening, testing and early detection through outreach mobile screening services, which will lead to increased demand and access to lung care screening services.

International Cancer Institute, Kenya aims to build oncology management capacity for non-oncology trained healthcare providers in African countries supported by the Bristol Myers Squibb Foundation. The project will develop a dedicated e-learning platform, conduct face-to-face sessions and preceptorships, and initiate cancer experts exchange programs. The priority will be lung cancer preceptorships, sharing of cancer management protocols and cancer registry improvements.

New Dimension Consulting, Zimbabwe seeks to provide research, monitoring and evaluation technical assistance toward projects implemented by the Bristol Myers Squibb Foundation's Secure the Future cancer program by implementing a functional monitoring and evaluation system for partners.

Siso Foundation aims to bridge the gap in capacity-building needs of the Bristol Myers Squibb Foundation-Technical Assistance Program grantees to be assisted, trained and prepared to implement and execute the funded project and the administrative functions effectively. The outcomes of this grant are to improve quality in grantee reporting and processes.

Rob Ferreira Tertiary Hospital-Mpumalanga Oncology Unit/Department of Health aims to provide oncology and palliative care training to clinicians (medical officers and pharmacists) within the unit in order to improve the treatment outcomes of oncology patients in the province.