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# LETTER FROM CO-FOUNDERS

JUST BEFORE THE WORLD CHANGED, in the early days of 2020, we commemorated Global Oncology's move out west with the Bay Area Kick-off Celebration atop Salesforce Tower in San Francisco. It was a stellar event in which we showcased the great progress we had made moving our site-based programs forward in Nigeria and Belize and laid out the vision for how to build on that momentum in the year ahead.

Then came the COVID-19 pandemic, which changed how we do our work, but not why we do it. We saw that among the most vulnerable to the coronavirus are cancer patients who are often immunocompromised and, even as infectious disease took the focus of the global health community, cancer patients needed more attention, not less. We knew we needed to re-double our efforts to build systems, tools, and programs that would better protect cancer patients along the care continuum, from initial presentation and diagnosis to treatment and beyond.

In Nigeria, we built on the successful pilot distribution of the GO Comic Book in late 2019 in which we distributed comics to 5,000 Nigerian school children through educational assemblies led by volunteer Nigerian physicians. We launched the Cervical Cancer-Free Nigeria campaign, assembling an impressive array of Campaign Ambassadors including former Nigerian President Olusegun Obasanjo and conducting a host of media interviews and events to promote the campaign. As we approach the end of 2021, we now have a seat at the table with key stakeholders to develop a national plan for procuring and distributing the human papillomavirus (HPV) vaccine across Nigeria, coupling the roll-out with the GO Comic Book to educate the public and ensure there is high uptake of the vaccine. If we succeed in our goal of vaccinating all Nigerian girls and women, we will save more than 10,000 lives per year that would otherwise be lost to cervical cancer.

In Belize, we continued our work to strengthen the country's first public oncology unit at the national hospital, developing an array of clinical protocols and training Belizean staff on how to deliver safe, standardized cancer care. We also made significant advances to our patient navigation program by implementing CommCare, a an mHealth data platform to not only capture data at point-of-care, but also to assist our patient navigators with providing tailored support to help patients navigate their care journey. In August 2021 we were proud to participate in the official opening of the oncology unit, showcasing the impressive accomplishments of Global Oncology and our partners at the national hospital.

Despite the highly uneven roll-out of the COVID-19 vaccine worldwide, we are cautiously optimistic that the pandemic is moving in the right direction, even for our partners in places like Nigeria and Belize. As we continue our work to protect the most vulnerable, we at Global Oncology are bolstered knowing our programs have not only survived, but thrived throughout the pandemic. We are already exploring ways to expand the successful models of cancer prevention and cancer treatment that we've developed and bring them to other emerging and established cancer programs in the greater African and Caribbean regions.

With high hopes for the work ahead,

Am Shatt James

Ami & Franklin
Co-Founders of Global Oncology

# Our Mission

Global Oncology's mission is to bring the best in cancer care and education to underserved communities around the world.

We collaborate across geographic, professional and academic borders to build capacity of health systems; to educate patients, families, and the general public; and to mobilize the global cancer community to stem the growing tide of cancer in low- and middle-income countries (LMICs).

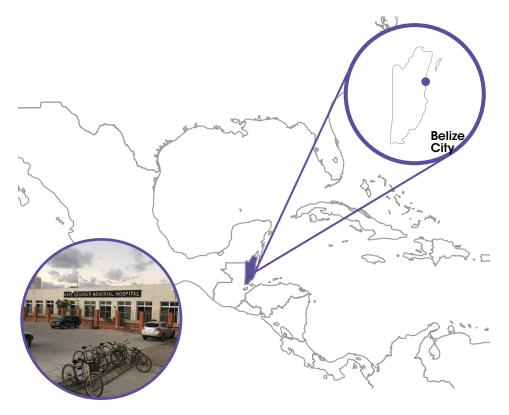
# Why Cancer?

- While infectious disease was once the leading cause of death in LMICs, cancer now kills more people in these areas than do HIV/AIDS, tuberculosis, and malaria combined.
- 80% of global cancer deaths occur in LMICs, yet only 5% of total global spending on cancer care is expended in these regions.

# Building Capacity

of Health Systems to Deliver High-Quality Cancer Care

# The GO-Belize Program



# **Demographics**

- Population: ~400K
- · Middle-income country
- 40% of the population lives below the poverty line

# Cancer Burden

- Cancer is the leading cause of death
- ~350 incident cases per year
- Most common types: breast, prostate, cervical, colon

# **Cancer Care Capacity**

Before 2018, no public oncology care was available, only limited services in civil and private sectors

In spring of 2018, GO established a partnership with Karl Heusner Memorial Hospital (KHMH), Belize's national hospital, as it began building the country's first and only public oncology program. Since then, GO has worked to strengthen KHMH's new oncology program by offering support in the following areas: (A) developing clinical protocols, (B) training clinical staff, (C) designing a novel

patient navigation program, and (D) advocating for national-level investment in public oncology services.

The collaboration is in large part thanks to Dr. Ramon Yacab, the first and only medical oncologist in Belize, as well as the staff of the oncology unit at KHMH.

# THE GO-BELIZE PROGRAM:

# PROTOCOL DEVELOPMENT

# What is protocol development?

In order to deliver safe, standarized care, you need standards. That's why GO worked with KHMH staff to develop clinical guidelines and protocols for diagnosing and treating the most common types of cancer in Belize. These protocols have served as the foundation upon which our training activities were built.



cancer treatment guidelines developed



standard operating procedures (e.g. chemo preparation & administration)



2 clinical workflows



nursing & pharmacy competency checklists and other forms



50+ order sets for chemotherapy regimens

# THE GO-BELIZE TIMELINE

### May 2018

Site Visit #1: Needs assessment

# January 2019

Site Visit #2: Didactic training of nurses/pharmacists in Fundamentals of Chemo

### **March 2019**

Site Visit #3: National Cancer Control Planning meetings with MOH

# December 2019

Site Visit #6:
Soft launch of KHMH
oncology unit;
development of
nursing & pharmacy
workflows and
protocols

# September 2019

Site Visit #5: National Cancer Control Planning meetings with MOH

# **July 2019**

Site Visit #4:
Skills-based training in chemo administration
& protocol
development

# February 2020

Site Visit #7:
Patient navigator
training & protocol
development

### March 2020

Soft launch of patient navigation program

# September 2020

Soft launch of mHealth data platform for patient navigation program



### February 2021

Virtual Training in chemotherapy mixing

# August 2021

Official opening of KHMH Oncology Unit

### October 202

Site Visit #8: Training in chemotherapy mixing using a biosafety hood



On-site trainings of clinical staff of the KHMH oncology unit focused on chemotherapy preparation and administration as well as patient navigation



Following GO's on-site trainings,

Belizean clinical staff provide

chemotherapy to new patients at the

KHMH Oncology Unit

# THE GO-BELIZE PROGRAM:

### TRAINING & MENTORSHIP

Hours of on-site training



Hours of remote training & mentorship

# THE GO-BELIZE PROGRAM: ADVOCACY

# Advocating for national-level investment in public oncology services

- Participated in national cancer control planning meetings with stakeholders from public, civil & private sectors
- Met with Ministry of Health and Belizean gov't officials to advocate for investment in KHMH oncology program, including improving access to radiotherapy and cancer drugs

# THE GO-BELIZE PROGRAM:

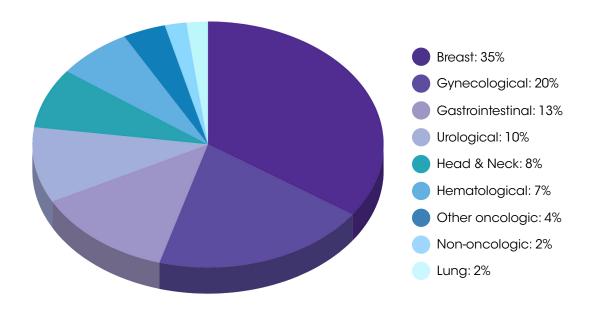
# PATIENT NAVIGATION

**Directy Observed Care (GO-DOC)** is a patient navigation program designed to proactively remove barriers to care, improve adherence to treatment, and achieve better health outcomes.

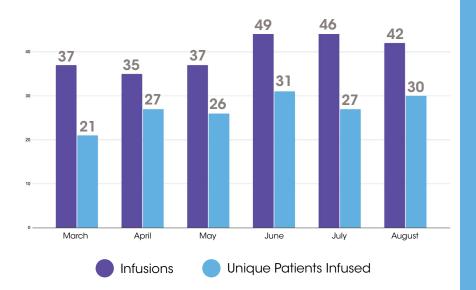
In 2020, we trained two patient navigators in Belize to provide educational, emotional, and logistical support to patients throughout their care journey.

We also designed and implemented CommCare, an mHealth data platform, for real-time patient tracking along customized diagnostic and treatment pathways. CommCare has enabled us to aggregate and visualize the data collected by the patient navigators and clinical staff at KHMH, allowing for streatmlined reporting and facilitating quality improvement across the program.

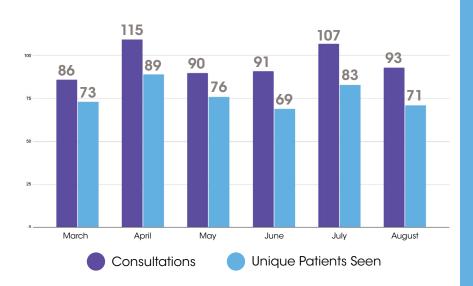
### **Proportion of Unique Patients Seen by Oncologic Category**



# Number of Infusions & Unique Patients Seen by Month (March - August 2021)



# Number of Consultations & Unique Patients Seen by Month (March - August 2021)







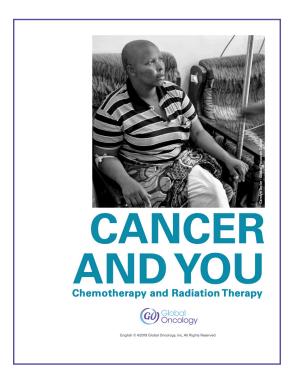
Thanks to Global Oncology, we are off the ground, making a difference in people's lives who would have probably just given up, or been forgotten, or gotten lost along the way. I know administering chemo is very important—that's the whole idea—but getting to these patients, supporting them, being their voice, is like thirst-quenching water. They look out for me to call them, and simply check in on them, and listen to them. I just wish [this patient navigation program] was something that was started a long time ago, but it's here

# Nurse Margaret Bernard Patient Navigator

# Educating

Patients, Families, and the Wider Public About Cancer

# Cancer Education Materials



One of GO's flagship projects, the Cancer Education Materials (CEM) are culturally-appropriate booklets designed to teach cancer patients about their disease and what to expect with treatment.

The goal of the CEM tool is to improve the experience of diagnosis and treatment for cancer patients in LMICs by helping to facilitate dialogue between patients and providers. As patients become empowered with knowledge about their disease, they are more likely to stay in care and achieve better health outcomes as a result.

These picture-based and culturally-appropriate materials were originally developed for a partner in Malawi, and the GO team continues its work to adapt, refine, evaluate, and expand our efforts, adding more languages and modes of treatment.



**Countries** 

20

# Lanugages

English, Setswana (Botswana), Haitian Creole,
Spanish, Kinyarwanda (Rwanda), Luganda
(Uganda), Acholi/Luo (Uganda), Rukiga
(Uganda), Chichewa (Malawi), Kiswahili (Kenya),
Shona (Zimbabwe), Ndebele (Zimbabwe),
Mandarin (Simplified), Mandarin (Traditional),
Hausa (Nigeria), Igbo (Nigeria), Yoruba
(Nigeria), Pidgin English (Nigeria), Portuguese
(Mozambique), Arabic (Iraq)

# **Modalities**

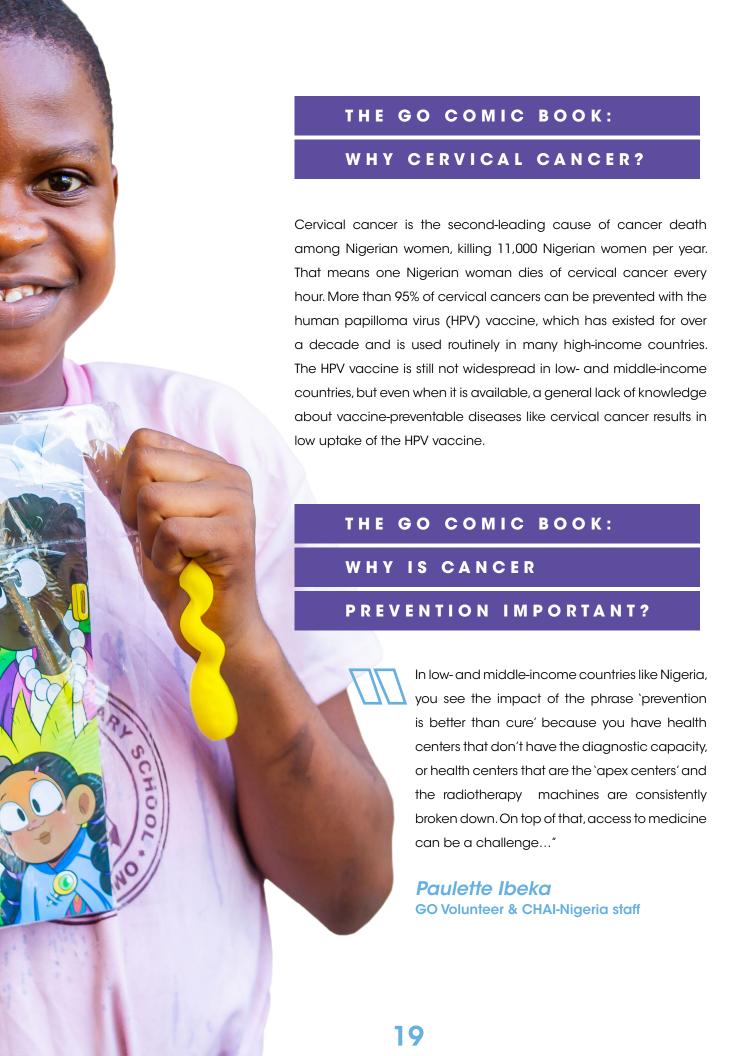
Chemotherapy, Chemo & Radiotherapy

# The GO Comic Book

In 2018, GO convened an international team of physicians, artists, and public health professionals to design and produce the GO Comic Book: "DOCTOR OBI: Cancer Chronicles, Vol. 1: Cervical Cancer and the HPV Vaccine."

Set in modern day Lagos, Nigeria, the GO Comic Book uses humor, vivid imagery, and storytelling to feach adolescents & their families about the causes of cancer, the safety and efficacy of vaccines, and how the HPV vaccine prevents cervical cancer.









# THE GO COMIC BOOK: TIMELINE

# **Summer 2018**

Convened
interdisciplinary
steering and
began comic book
development

# Spring 2019

Finished comic book

# **Summer 2019**

Produced comic book "whiteboard animation" video In late 2019, GO conducted a pilot distribution of the comic book through educational assemblies at a dozen schools in Nigeria, reaching more than 5,000 students.

A pre-/post-test among 200 participants showed a **significant increase in knowledge** about cancer in general and cervical cancer in particular.

Fall 2019

Conducted pilot distribution of 5,000 comics in Nigeria January 2020

Held GO Bay Area Kick-off Event at Salesforce Tower in San Francisco Spring 2020

Convened CCFN
Planning Committee

# With the pandemic, we pivoted.

2020 brought with it unprecedented challenges. Due to COVID-19, we saw the shutting down of schools and the subsequent pause of our comic book educational campaign. We met this challenging constraint with new creativity and, along with politicians, physicians, activists, and leaders in the private and public sector, we created the Cervical Cancer-Free Nigeria campaign.



# We created the Cervical Cancer-Free Nigeria campaign.

# **Summer 2020**

Recruited Cervical Cancer-Free Nigeria (CCFN) Campaign Ambassadors

### October 2020

Produced comic book "animatic" video and ambassador testimonial video

# **November 2020**

Held Virtual Salon on CCFN for GO supporters .The Cervical Cancer-Free Nigeria campaign is a grassroots initiative to eliminate cervical cancer in Nigeria by educating children, parents, and the wider public about how to prevent cervical cancer with the HPV vaccine.

We created digital media products including the GO Comic Book "animatic" video, which uses Nigerian voice actors to bring the comic book to life.

# Visit the campaign website at: www.CervicalCancerFree.org.

CCFN Ambassadors Senator Lanre Tejuoso and President Olusegun Obasanjo feature the GO Comic Book at the CCFN Press Conference in July 2021



# December 2020

Issued international press release announcing CCFN and Ambassadors

# February 2021

Conducted CCFN media blitz around World Cancer Day (February 4th)

# **July 2021**

Held CCFN press conference in Nigeria featuring President Olusegun Obasanjo and other CCFN Ambassadors

# CERVICAL CANCER-FREE NIGERIA

# CAMPAIGN AMBASSADORS

# **Presidential Ambassador:**



President Olusegun Obasanjo
Former President of the Republic of Nigeria

# Global Ambassadors:



Abimbola
Ogunbanjo
President, National
Council of the Nigeria
Stock Exchange



Tejuoso

Pro-Chancellor,
University of Lagos
& Chair, Legislative
Initiative for Sustainable
Development (LISDEL)

**Senator Lanre** 



Shinkafi-Bagudu
First Lady of Kebbi State,
Nigeria & Founder and
CEO, Medicaid Cancer
Foundation

Dr. Zainab

# Campaign Ambassadors:



Rekiya Ibrahim Atta Actress



Patrick Doyle

Broadcaster
& Producer



Toun Okewale Sonaiya CEO, Women's Radio WFM 91.7



Karo Omu Founder, Sanitary Aid Initiative



May Chioma
Odiakosa
President, Star Beer USA



Amarachi Nwosu

Creative Consultant

& Storyteller



Folashade "Sade"
Domingo

Health Advocate



Omotinuola "Tinu" Eze Teacher & Mentor

# 

Researchers, Implementers, and Activists in the Global Cancer Space

# GO Map

The GO Map began in 2014 as a joint idea by GO co-founders and leadership of the National Cancer Institute Center for Global Health in response to two key questions about the global cancer field:

Who's doing what and where? How do we align global cancer control efforts?



The GO Map is a free online platform that helps researchers and implementers promote their work and develop collaborations in cancer control.

**Features include:** map, data driven, search function: cancer type, country, view projects, view collaborators

# **FUNCTIONALITY**



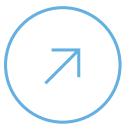
View
epidemiological
heat maps that
show cancer
burden by country



Search for people, projects, and events in a specific country or as related to a specific cancer type



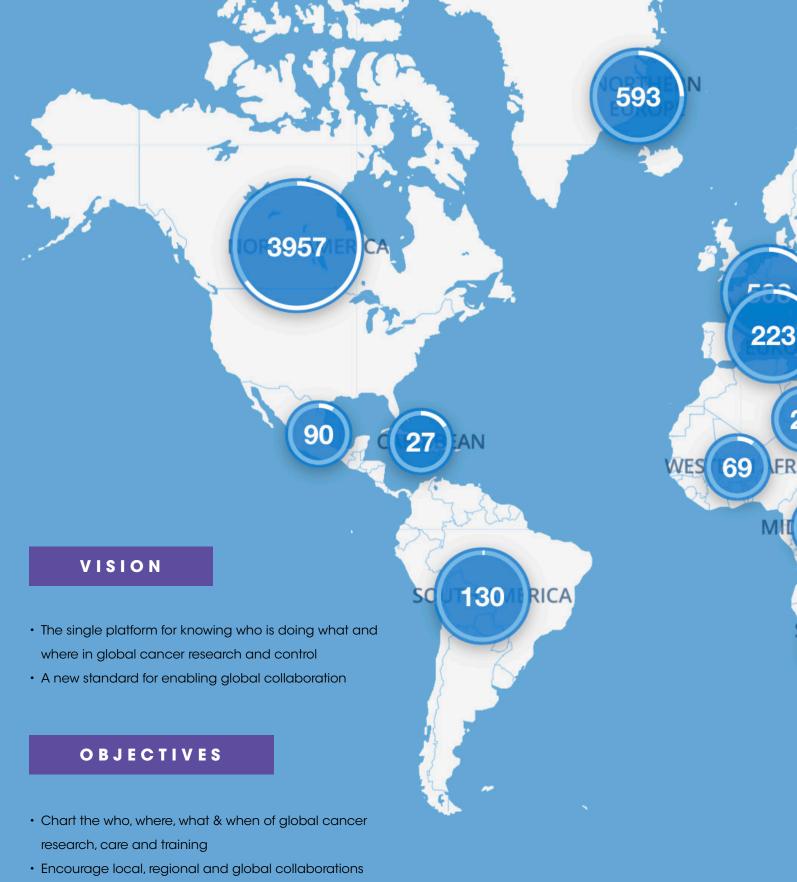
Connect people with similar interests



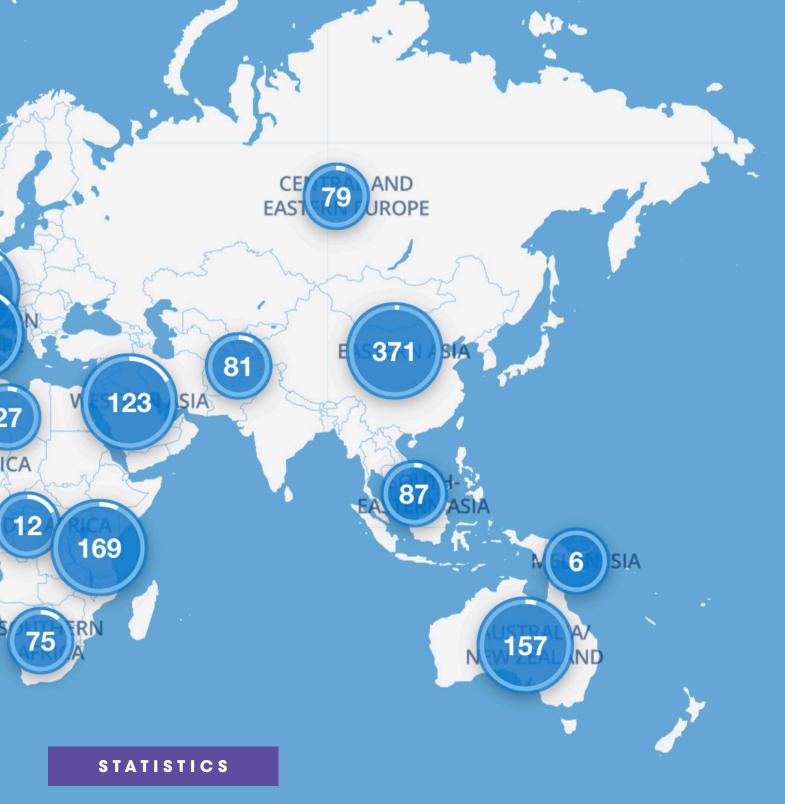
Share cancerrelated projects and events with global oncology community



and more!



- Identify neglected areas with high disease burden and low investments in cancer research, care and training efforts
- Accelerate progress by aligning efforts in global cancer control



42% visitors accessing from outside of the U.S.

# GO Young Professionals Network (GO-YP)

# A network of university-based chapters that supports the mentorship and development of students and trainees in the global cancer space.

Just before the COVID-19 pandemic, the GO-YP chapter at the University of Pennsylvania School of Medicine hosted the 1st Annual Global Oncology Symposium in Philadelphia on Feb 14, 2020, entitled "The Ethics and Practice of Improving Cancer Care Worldwide."

The symposium featured Dr. Larry Shulman, Director of the Center for Global Cancer Medicine at UPenn and GO Advisor; Dr. Sheila Davis, CEO of Partners In Health; Dr. Rebecca DeBoer, Assistant Professor of Medicine at UCSF; and Dr. Ruth Damuse, Oncology Clinical Director at Partners In Health-Haiti.



# GO Volunteers

Since its inception, GO has relied heavily on a network of committed, talented, and hardworking volunteers to design, launch, and sustain our programs. From high schoolers to attending physicians, an array of experience and expertise is vast, allowing us to implement interdisciplinary projects from a range of perspectives.







Being a clinical fellow in hematology and oncology at a major academic cancer center in the United States. I have access to the most advanced treatment options for cancer patients. However, what struck me is that cancer does not discriminate among people, and almost all cases are from random changes in our body. I recognized the growing disparities in this field with access to care, especially abroad, and wanted to volunteer and contribute to the mission of improving care beyond those who have ready access"

Mohana Roy
Clinical Assistant Professor
of Medicine-Oncology,
Stanford University

It has been an awesome opportunity to participate with a variety of projects for Global Oncology. GO connects individuals with the tools they need to make a more lasting and powerful impact on cancer care throughout the world. I have the opportunity to speak with and work with other student volunteers, and it's inspiring to see the change that a small, driven group of people can make on the world around them."

Jake Lattin
Medical student, Washington
University School of Medicine

I joined GO as an intern in the fall of 2020 to learn more about the global cancer space and how to use creative solutions to combat health inequities. Every week I am inspired by what GO staff, volunteers, and collaborators are able to accomplish through leveraging shared expertise and their genuine passion for the improvement of cancer care in LMICs. Some of my favorite experiences with GO this past year have been interacting with the oncology unit in Belize, watching the GO Comic Book come to life through the animatic video, and seeing the influence that the CCFN campaign is beginning to have on the ground in Nigeria. Excited for what is to come!

Michelle Sahai
Undergraduate Student,
Brown University

# Looking

# Priorities for 2022-2023



# **GO-Caribbean Programs**

- Ensure sustainability of the oncology program at Karl Heusner Memorial Hospital. Train-the-trainers so the first generation of oncology nurses and pharmacists can train and onboard future generations of providers.
- Adapt the GO-DOC patient navigation model for other emerging and established cancer programs. Partner with the Pan American Health Organization (PAHO) to bring the GO-DOC model to other health systems in the Latin America and Caribbean region.



# The Cervical Cancer-Free Campaign

# Within Nigeria:

 Creating new media products for online, TV, and radio for the CCFN campaign

### **Beyond Nigeria:**

• Expanding the campaign to become pan-African



# **GO Comic Book**

- Adapting Volume 1 of the GO Comic Book for other cultural-linguistic groups in Nigeria
- Adapting the GO comic book for other regions (e.g. the Caribbean)
- Create Volume 2 of the GO Comic Book (e.g. breast cancer)

# Finances

# Annual Revenue: 2018-2020



# **Total Revenue:**

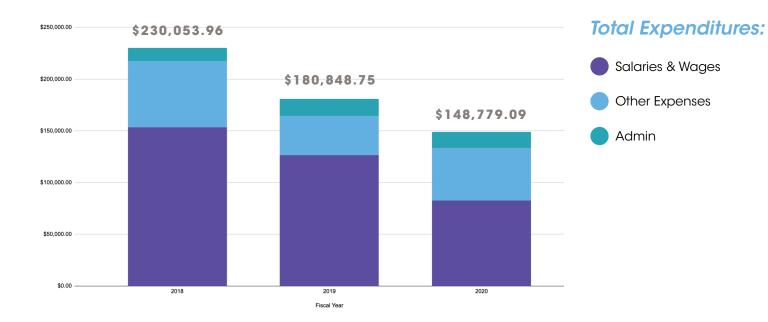
Major Gift (>\$1k)

Donation (<\$1k)

Grant

In Kind

# **Annual Expenditures: 2018-2020**



# Revenue, Expenditures, Net, & Assets: 2018-2020



# Thank You

# to our 2019-2020 sponsors

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# References

Recommendations from the ASCO Academic Oncology Task Force. Gralow JR, ASirwa FC, Bhatt AS, Boulon MT, Chu Q, Eniu AE, Loehrer PJ, Lopes G, Shulman LN, Close J, Von Roenn J, Tibbits M, Pyle D. JCO Glob Oncol. 2020 Oct;6:1666-1673. doi:10.1200/GO.20.00497

Assessing and Addressing the Need for Cancer Patient Education in a Resource Limited Setting in Haiti. Schleimer LE, Desameau PG, Damuse R, Olsen M, Manzo V, Cardenas C, Mehrtash H, Krakauer EL, Masamba L, Wang C, Bhatt AS, Shulman LN, HUang Huang FW.

Oncologist. 2020 Apr 25. Doi: 10.1634/theoncologist. 2019-0258

Evaluating Barriers and Opportunities in Delivering High Quality Oncology Care in a Resource-Limited Setting Using a Comprehensive Needs Assessment Tool. Nwachukwu CR, Mudasiru O, Million L, Sheth S, Qamoos H, Onah JO, Okemini A, Rhodes M, Barry M, Banjo AA, Habeebu M, Olasinde TA, Bhatt AS.

J Glob Oncol. 2018 Dec:1-9. doi:10.1200/JGO.18.00125

Institutionalizing healthcare hackathons to promote diversity in collaboration in medicine. Wang JK, Roy SK, Barry M, Chang RT, Bhatt AS.

BMC Med Educ. 2018 Nov 20;18(1):269. Doi: 10.1186/s12909-018-1385-x.

Canfell, K, et al. 'Mortality impact of achieving WHO cervical cancer elimination targets: a comparative modelling analysis in 78 low-income and lower-middle-income countries." The Lancet. 30 Jan 2020. [See PDF]

Takeaway: "Over the next century, successful implementation of the WHO elimination strategy would reduce cervical cancer mortality by almost 99% and save more than 62 million women's lives."





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