



# TECHIES WITHOUT BORDERS

## Annual Report 2023



*Physicians receive CMES app training from Dr. Vera Sistenich at New Referral Hospital of Baucau, Timor Leste*

## Message from Manoj Thomas, President



2023 was a whirlwind for Techies Without Borders!

As we close out 2023, I am filled with immense pride reflecting on our accomplishments. There's something truly soul filling about using our knowledge and skills to bridge healthcare gaps and empower medical professionals around the world, and this year, we've witnessed the tangible impact of that mission supported by action.

Our year kicked off in February, with the installation of CMES-Pi devices at all six referral hospitals across Timor Leste, and culminating with installations in Uganda, Nigeria, and The Gambia. This marked a significant milestone, providing much-needed access to vital medical education resources for healthcare workers in regions with limited internet connectivity.

We weren't just handing out fancy gadgets; we were also beefing up the material held within. A big thanks to EM CASES, Montgomery County Hospital District, Dr. Smith's ECG Blog and emDocs who have come on board as new partners contributing their valuable content for our users. To top it off, the World Health Organization (WHO) granted us permission to distribute guidelines on Newborn Care, Malaria, and Malnutrition.

Our dedicated IT volunteers have been working tirelessly behind the scenes, building an advanced platform for content administration. This will enhance our capability to distribute medical education more effectively with targeted emphasis on region specific content.

Our true heroes are our generous donors and supporters, whose contributions, big and small, fuel our mission and make a real difference in the lives of countless healthcare workers and the communities they serve.

Onward to 2024! Stay tuned as we continue to innovate, bridge the healthcare divide, and empower medical professionals around the world with the knowledge and resources they need to save lives.

Much love, 



*ICIS 2023 Impact Award Winners, Dr. Manoj Thomas and Dr. Yan Li*

## Statement from Jennifer Borneman, CFO



Techies without Borders finished in a strong financial position, due to minimal expenses in the current year. Fundraising campaigns and in-kind donations brought in over \$12,000 that will support upgrading the IT functionality of the CMES platform to support video medical education content; enhanced participants collaboration and engagement; and purchasing mini-computers which have more storage and power than the Raspberry-Pi devices.

TWB non-profit corporation remains rated as a Platinum Level member on GuideStar-Candid platform, which is the highest Seal of Transparency.

Minimal expenses were incurred in 2023. Subscriptions and administrative costs were kept to under \$2260 for the year.

Our continued volunteer support from IT professionals, doctors, financial consultants, nonprofit administrators, and professionals with a variety of needed skills has continued to allow TWB to keep administrative costs extremely low.

It continues to be my pleasure to work with donors and the TWB teams to assure financial accuracy and security.

Warm regards,



*Jinja Regional Hospital, Kampala, Uganda*



# IMPACT

## CMES New Initiatives

New collaborations were established in Timor Leste, Uganda, the Gambia, Nigeria, Honduras and St. Lucia

### *Timor Leste*

In February two volunteers with expertise in Emergency Medicine and IT, Dr. Vera Sistenich and Dr. Manoj Thomas, installed CMES-Pi(s) in six referral hospitals across Timor Leste, a small Oceanic island. This includes HNGV Hospital, Baucau Referral Hospital, Suai Referral Hospital, Maliana Referral Hospital, and Oe'cusse Referral Hospital.



*New Referral Hospital of Baucau, Timor Leste*

### *Uganda and the Gambia*

In October two volunteers, Dr. Jessica Pelletier and Dr. Manoj Thomas, partnered with institutions in Uganda and the Gambia to install the CMES Initiative at:

- Hope Children's Clinic, Busesa, Uganda
- Jinja Regional Referral Hospital, Jinja, Uganda
- Makerere University, Kampala, Uganda
- Samaritan Home Health, Kampala, Uganda
- Edward Francis Small Teaching Hospital, Banjul, the Gambia



*Edward Francis Small Teaching Hospital, Banjul, the Gambia*

## **Nigeria**

Partnering with the Joseph Ukpo Hospitals and Research Institute (JUHRI) Nigeria, doctors and nurses at University of Calabar Teaching Hospital and the University of Uyo Teaching Hospital received USBs. The USBs are loaned like a library book to doctors and nurses as a pilot project. Pending user feedback, the sites will be scheduled for mini-computer installations in 2025.

## **Honduras**

We have partnered with Humanity & Hope United, a non-profit working to assist underserved communities in remote parts of Honduras. Spanish language USBs were provided for their doctors staffing the two community health clinics in Santa Rita and Progreso, Honduras.



*Loading USBs with CMES content*



*St Lucia fire and EMS service*

## **St. Lucia, W.I.**

Expanding the CMES Initiative to include EMS providers, Dr. Debra Stoner installed a Pi at the St. Lucia Fire and EMS Training Center in Vieux Fort. Twelve EMS staff were trained on the CMES-Pi and USBs. They conducted additional staff training following Teach the Trainer philosophy. 20 USBs were disbursed to the nine fire stations.

## **Local Impact**

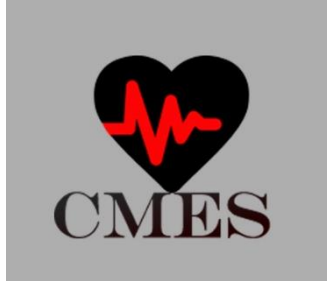
### **TWB joined the Central Susquehanna Chamber of Commerce**

Local collaborations and connections in our home state of Pennsylvania builds support and educates the public about our global CMES Initiative...*medical education for all no matter your location or resources.*

### Global CMES sites

**Central and South America**  
Guatemala  
Honduras  
Ecuador

**Africa**  
Democratic Republic of the Congo  
Uganda  
Nigeria  
The Gambia



**Caribbean**  
Antigua  
Dominican Republic  
St. Lucia

**Oceania**  
Cook Islands  
Fiji  
Papua New Guinea  
Samoa  
Solomon Islands  
Tonga  
Tuvalu

**Asia**  
Timor Leste  
Nepal

### CMES Initiative

**19 global sites**

**5500+ doctors enrolled**

**13,400,000 patient population served**

### CMES Usage

**2421 medical education files were viewed and/or downloaded from the CMES site**

### What do CMES users listen to or read?

**Top topics for 2023 included:  
needle sticks, abscess irrigation, and resuscitation**

## New volunteers

This year, we welcomed five new volunteers with immense expertise in medicine and IT.

***Dr. Jessica Pelletier,  
Medical Coordinator for the Africa regions***

Jess is an Emergency Medicine physician with a fellowship in EM Education at Washington University, St. Louis, MO



***Dr. Emily (Ly) Cloessner, Clinical Content Coordinator***

Ly is a 4th year Emergency Medicine resident with global health experience at Washington University, St. Louis, MO.

***Dr. Nickolas Maxwell, Medical Education Coordinator***

Nick is a 4<sup>th</sup> year Emergency Medicine resident with EMS experience at Washington University, St. Louis, MO.



***Brad Anderson, IT System Analyst***

Brad is an IT developer for the State of Delaware. He is working on security features for the TWB cloud-based platform.

***Bethel Mwenze, African Assistant Medical Coordinator***

Bethel is a paramedic in Uganda with education expertise in BLS, ACLS, and PALS certifications.



**Thank you for what you bring to the table, may your coffee be strong.**

**Total Volunteer Hours = 2833**



# Partners & Sponsors

## Sponsors

We are grateful for the support from our sponsors who expand their corporate horizons and help us bring medical education to the medical practitioners on the last mile.



## CME Providers

We welcome and thank our new CME providers: World Health Organization, emDocs, Emergency Medicine Cases, Don't Forget the Bubbles, and Dr. Smith's ECG Blog. Increasing the breadth and variety of content through new sources is helping meet our users' needs for relevant medical education.

We are forever grateful to Emergency Medicine Reviews and Perspectives (EM:RAP) who have been with us from the beginning.



## Partners

We welcome our new partners: Joseph Ukpo Hospitals & Research Institutes, Nigeria; Samaritan Health Systems, Uganda; Timor Leste Ministry of Health; Global Emergency Medicine Strengthening; and SEED Global Health.

