



ViveCares™

By ViveBio™

One Sample. One Life. A Vision For Helping.

The Health Crisis That Is Crippling A Continent

Sub-Saharan Africa has an estimated 22 million HIV-1 positive inhabitants. Approximately 1.7 million people died there last year, accounting for about three fourths of all HIV-1 related deaths worldwide. Countries such as South Africa and Zimbabwe have over 30% of their adult population infected with HIV-1. Since the average income per person in Africa is between \$500-\$8000 per year, it is easy to understand why it's so difficult for underdeveloped nations to break free from this deadly disease.



The current approach to providing HIV/AIDS care to the people of Africa increases the average lifespan by distributing ART (antiretroviral therapy) drugs to those who are HIV-1 positive and symptomatic. However, this approach totally ignores quality of life issues for those individuals and also does not consider others who are infected but not yet exhibiting symptoms. A man or woman in Uganda may live an additional 5-10 years, but with devastating side effects.

Diagnostic tests, which can determine drug effectiveness, are taken for survey purposes, but none of the results are shared with the patients or their doctors to help determine if these drug regimens are effective over extended periods of time. In addition, the remote sites and extreme environments where many patients are located pose numerous challenges in terms of access to trained medical staff, diagnosis and treatment. Currently, logistical limitations and prohibitively expensive transportation costs associated with shipment of frozen plasma prevent wider use of an "industrialized world" standard of care in Africa.

ViveCares Is Ready To Respond To A Continent In Need

ViveCares is an initiative created by ViveBio, a United States biotechnology company based in the Atlanta, Georgia area. ViveBio's mission is to expand access to healthcare and extend life with breakthrough technologies. We believe that life can be improved through our innovative and affordable life-care solutions:



- **ViveST™ Dried Sample Transportation and Storage**
A revolutionary technology that safely transports blood samples in a dried matrix format at ambient temperature, eliminating both temperature and packing requirements required for frozen, infectious samples
- **driDOC™ Versatile Sample Dryer**
Automatically dries samples in a controlled environment, removing any potential effects of high heat and humidity
- **ViveWARE Software**
A centralized software service that can help facilitate collection, sample tracking, and results reporting to technicians, doctors and patients around the world no matter where they are located

By leveraging these exciting new technologies, ViveBio believes we can help more people than are currently getting care. Every patient being cared for and treated will have the opportunity to receive a standard of care similar to that available in developed nations. ViveCares' digital solutions can also assist current projects such as the President's Emergency Plan for AIDS Relief

(PEPFAR), the World Health Organization (WHO) and the Global Fund by helping to bring community groups in specific countries together. The goal of these groups and ViveCares is to create a self-sustaining model that allows Africans to take control of their own destiny and not rely upon the "charity" model.



How Can One Sample Change a Life?

Using Technology To Help Millions

Step One: Samples are drawn and immediately loaded on a ViveST device for transport to a designated laboratory for HIV testing.



Step Two: Demographic and logistical data can be collected on site by means of mobile devices or desktop units and tests requisitioned via ViveWARE Software. This central database has the potential to provide long-term surveillance of important data for healthcare providers. Alternatively, paper test requisitions can be sent along with the ViveST transport device.

Step Three: Once the samples are shipped and are received by the laboratory, testing can be initiated. These samples may also be stored at ambient temperature for testing at a later date and/or for long term surveillance / look-back testing. Storing samples can be extremely important—future care may depend upon access to these samples for patient management and/or clinical studies.

Step Four: Upon completion of any HIV-1 resistance testing, the data is run through a proprietary HIV-1 drug resistance modeling software. This software can also be deployed to physicians around the world via desktop computers or mobile devices, allowing them to determine the best course of action for individuals thousands of miles away. ViveWARE can thus enable any doctor in the world to be a treating physician for a patient in Africa. This is truly "doctors without borders."

Step Five: Treatment. With these tools, local healthcare providers can determine the best course of action for an individual patient. By "crowd sourcing" the expertise of healthcare professionals around the world, an HIV/AIDS patient in Africa may be able to obtain a level of care only thought possible in the developed world.



ViveCares can help make this vision possible using breakthrough technologies like ViveST and ViveWARE to improve HIV/AIDS patient management, treatment and the health of an entire continent. These technologies can be also expanded to other diseases such as HBV and HCV.



A Hand in Life

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