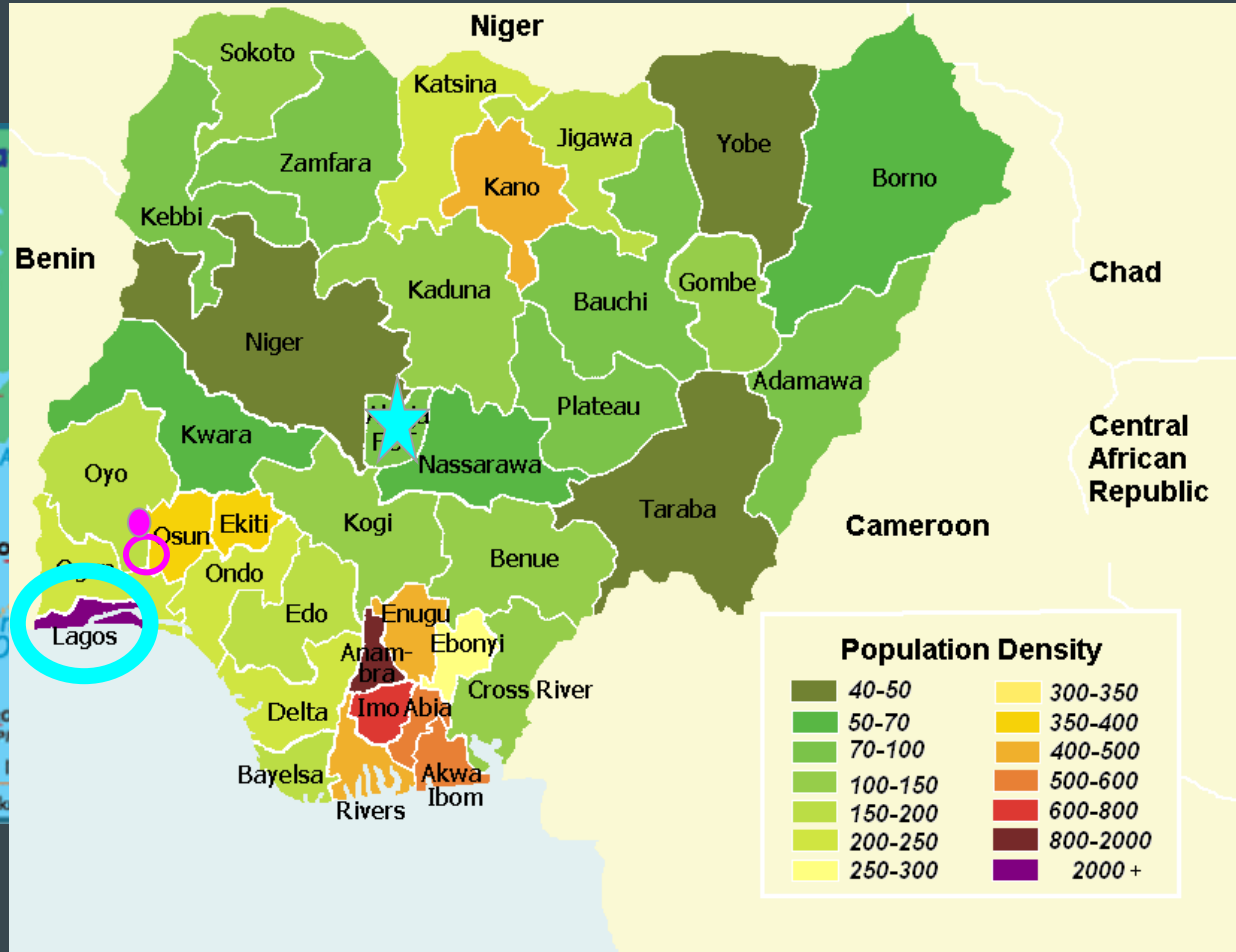


Public Health Outreach in Nigeria



Melanie Odeleye, MD



A little about Nigeria

173 million people (47% of all West Africa, 7th largest in the world, between Pakistan & Bangladesh)

<1% are foreign born, of whom 14% are from outside Africa

Current capital Abuja (776K, 285 sq miles), former capital Lagos (5.1 mil, 385 sq miles, 47K/sq mile)

City of San Diego is 372 sq miles, population 1.4 million (4K/sq mile)

NYC is 468 sq miles, population 8.49 million (27K/sq mile)

THE CITY OF LAGOS



CENTRE OF EXCELLENCE

The continent's most populous and wealthiest country

GDP \$570-ish billion (closer to Sweden [9.5mil ppl, GDP \$570-ish bil] or Poland [30mil ppl, GDP \$540-ish bil]) 2014 numbers

vs. 150 bil Bangladesh and 232 bil Pakistan;

exchange rate to US dollar 199 to \$1

Former British colony, “official” language is English, education system approximates the UK

However, >250 ethnic groups, >380 languages

Predominately Christian and Muslim faith, but some tribal denominations remain

Socio-economic indicators (% the World Bank)

Life expectancy 52 (men 51, women 52)

43.2% between age 0-14

Neonatal mortality 52/1000, infant mortality 126/1000, under-5 mortality 113/1000
(2013)

With India, over $\frac{1}{3}$ of the world's 5 year old and under mortality
10% of the world's infant mortality

Perceptions of corruption (144th of 175 countries)

Military spending 1.5% of GDP (far above rest of Africa, but low by western stds)

Health spending 1.7% of GDP

HIV prevalence 3.6% (3rd highest total number after S Africa & India)

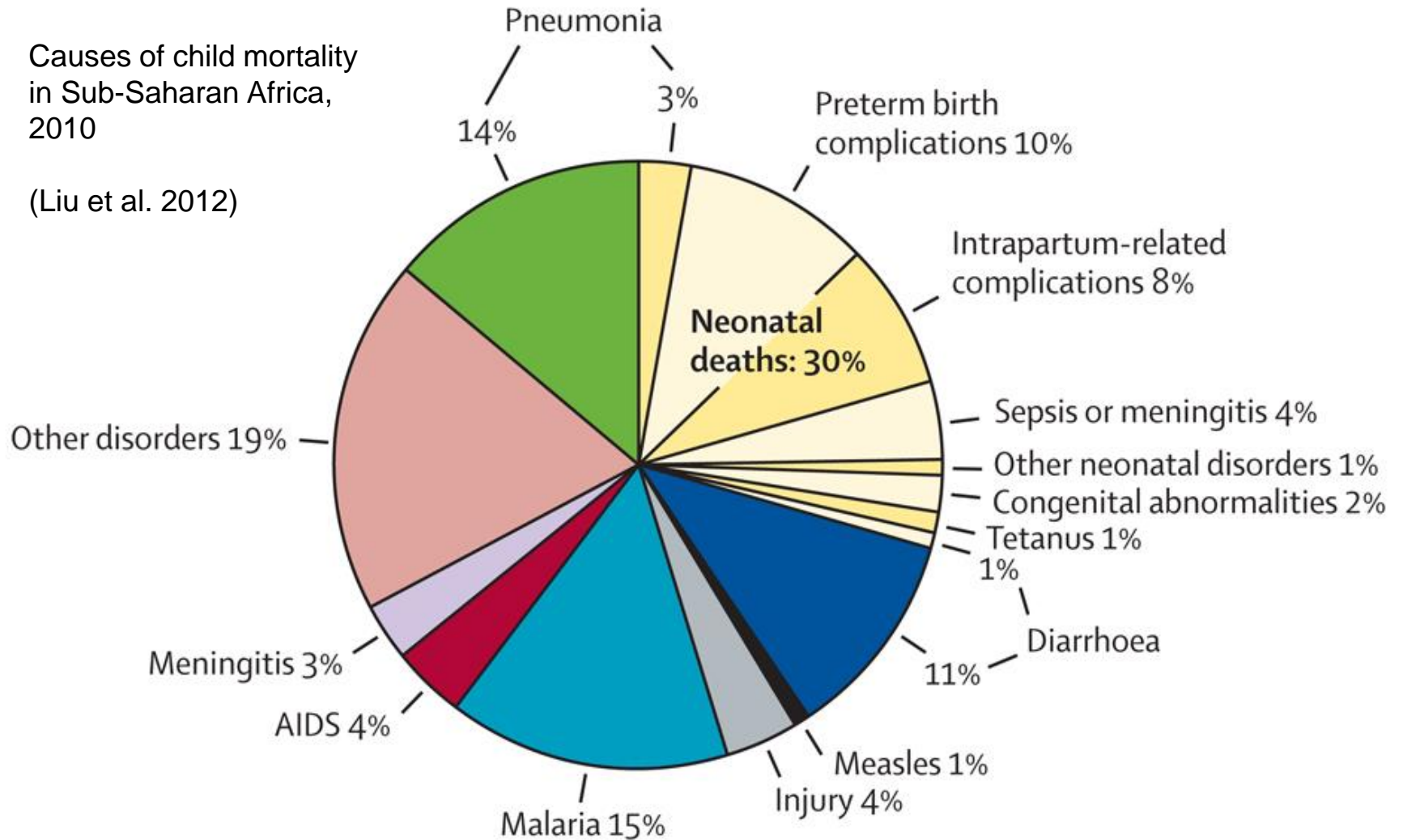
Top 10 Causes of Death in Nigeria

Source: [GBD Compare, 2010](#)

1. Malaria 20%
2. Lower Respiratory Infections 19%
3. HIV 9%
4. Diarrheal Diseases 5%
5. Road Injuries 5%
6. Protein-Energy Malnutrition 4%
7. Cancer 3%
8. Meningitis 3%
9. Stroke 3%
10. Tuberculosis 2%

Causes of child mortality
in Sub-Saharan Africa,
2010

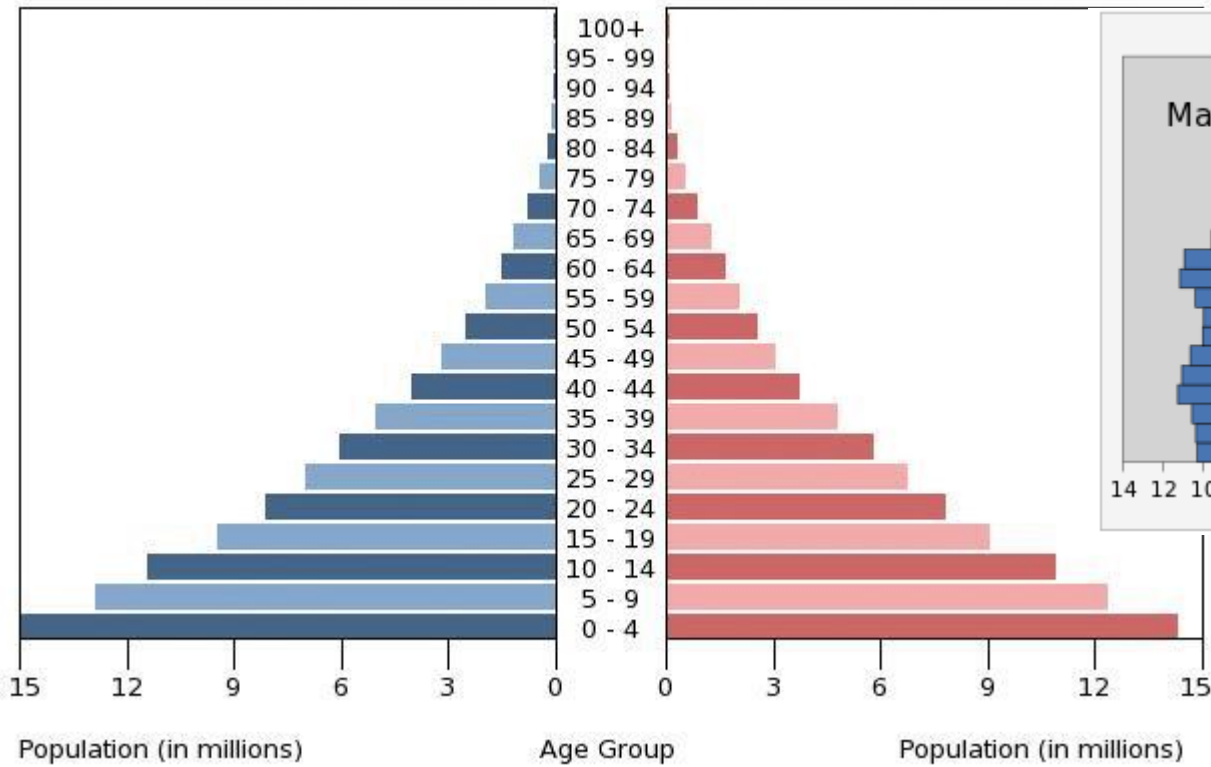
(Liu et al. 2012)



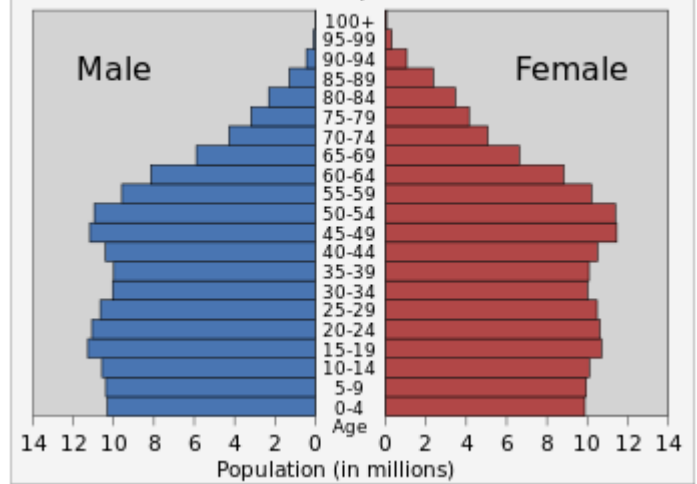
Male

Nigeria - 2014

Female



United States Population (2010)



Yes, but...

The North and The South are practically different countries that are managing to coexist

The South has primarily Yoruba & Igbo ethnic groups, who make up the majority of the diaspora

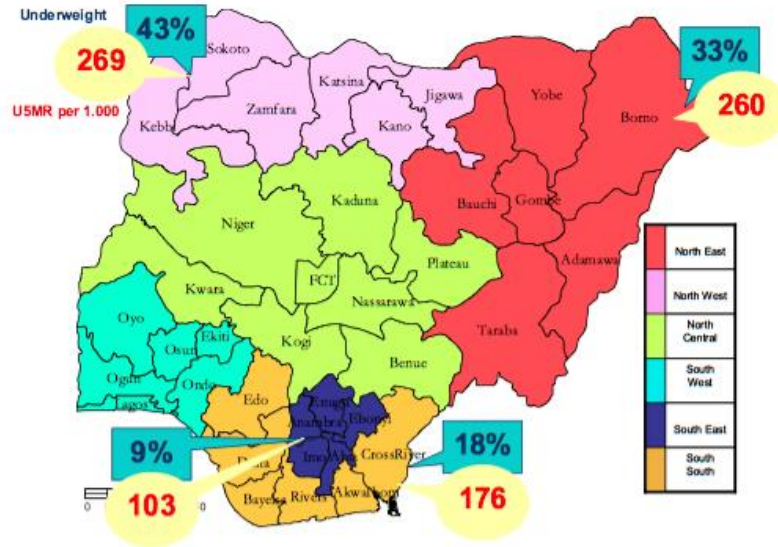
>1 million (less than 1% of) Nigerians live abroad and buoy the GDP by 6.7% (\$17.9 billion in 2007)

64% of emigrants have post-secondary degrees; 14% are physicians, mostly in the US & UK

The South is richer, with the Niger Delta as a major source of oil

The North probably has a larger population but is *much* poorer with *much* less access to education and other Western resources

Child Malnutrition and Mortality in Nigeria



Under 5 Mortality per 1,000

- North West zone 269 children
- North East zone 260 children
- South West zone 176 children
- South East zone 103 children

Maternal Mortality Ratio (MMR) per 100,000

- North East 1549 women
- North West 1026 women
- South East 286 women
- South West 165 women

A strong cultural emphasis on education (in the South)

The best inheritance that a parent can give you is not jewelry, cash or material things; it is a good education

Yoruba Proverb

29% of Nigerians 25+ years old in the U.S. have a graduate degree (vs. 11% general population)

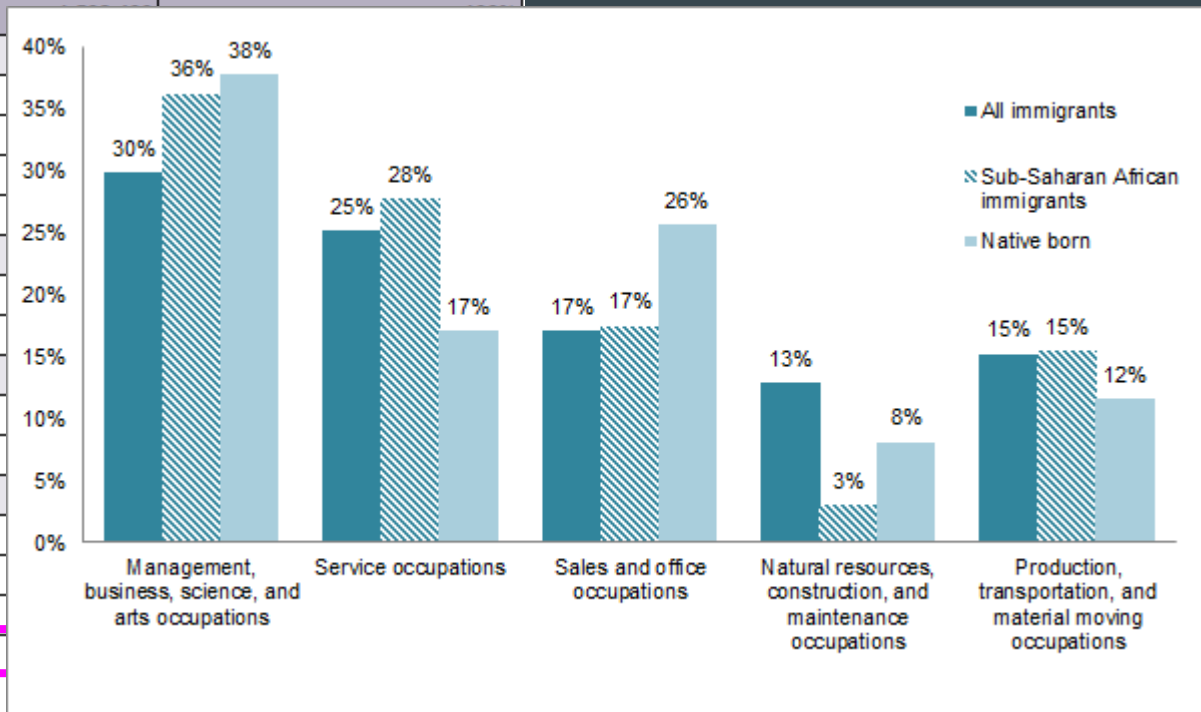
37% have a bachelors' (vs. 20% general)

Household income on par with median in the U.S. (52K vs. 50K)

-Migration Policy Institute, Nigerian Diaspora in the United States, 2015



Country and Region	Number of Immigrants	Share
Sub-Saharan Africa Total		
Eastern Africa:		
Eritrea		
Ethiopia		
Kenya		
Other Eastern Africa		
Middle Africa:		
Cameroon		
Other Middle Africa		
Southern Africa:		
South Africa		
Other Southern Africa		
Western Africa:		
Cape Verde		
Ghana		
Liberia		
Nigeria		
Sierra Leone		
Other Western Africa	116,200	8%
Africa, n.e.c.	116,000	8%



Nigerians in the diaspora

Seal (4x Grammy award winner)

Sade (AMA and 4x Grammy award winner)

Fela Kuti (Afrobeat pioneer, social activist)

John Daibiri (biophysicist, MacArthur 2010)

Chinua Achebe (Things Fall Apart)

Chimamanda Ngozi Adichie (Half of a Yellow Sun, MacArthur Genius 2008)

Olufunmi Olapade (UChicago oncologist, MacArthur 2005)

Andre Iguodala (UA, GS Warriors)

Kareem Olajuwon (UH, Rockets)

Victor Oladipo (IU, Magic)

Ogemdi Nwagbuo (MSU, Chargers)

Carmen Ejogo (The Avengers, Selma)

Chiwetel Ejiofor (Love Actually, 12 Years a Slave)

David Oyewolo (Interstellar, Rise of the Planet of the Apes, Selma)

Abel Ogundokun Odeleye Foundation <www.aooof.org>

mission: improve the health, education and infrastructure of AFIJIO communities in southwest Nigeria

inspiration: Dr. Abel Ogundokun Odeleye

founded in 2004 by surviving children and wife

501(c)-3 in 2005

Background

Abel Ogundokun Odeleye

Earned a BSc from the London School of Economics, MSc and a PhD from NYU

Spent time teaching in Ibadan, serving at the National Library of Nigeria as well as the Public Service Commission. At the peak of his regional-federal government career in Ibadan, he opted to return to his home village and improve the infrastructure through local office.

When he passed away in 2003, his will asked that all he had left be given to the people of his village (Ilora) and the surrounding communities (AFIJIO). The proceeds from his last book, History of Ilora, were used to establish a foundation to promote education and service.





Areas of outreach

Education

Rev. Bidemi Odeleye, PhD (Nigeria) & Opeolu Okunola, PhD (Canada)

Infrastructure

Omolola Elemide (Nigeria) & Stephen Odeleye (England)

Medicine/Health

Titilola Akinremi, MD (Nigeria-U.S.)

A00F history/accomplishments

Between 2004 to 2015, with the support of our volunteers and donors we:

Awarded over 500 scholarships to young girls and boys aspiring to elevate themselves and their families from abject poverty;

Provided free healthcare screening, intervention and education to over 11,000 children and adults at our Health fair Outreaches;

Sponsored over 100 surgical intervention for eye surgeries and prostate cancer surgeries;

Collaborated with state and local governments to build primary school classroom blocks as well as much needed hospital mortuary facility;

Built boreholes to provide free, clean & safe water supply to the community;

Established a highly successful micro-finance loan program to attract and retain experienced teachers locally; and

Created a Healthcare Outreach Post to support the year-round health maintenance

2015 Priorities/Goals

HEALTHCARE:

EXPAND INTO ONE ADDITIONAL TOWN WITHIN AFIJIO; OFFER EYE CLINIC SPECIALTY OUTREACH; AND ADD INTERVENTION AND MONITORING ACTIVITIES FOR DIABETES YEAR-ROUND OUTREACH PROGRAM.

EDUCATION:

TO PROVIDE SCHOLARSHIP AWARDS TO 40 STUDENTS AND TO ESTABLISH A NEW PROGRAM (PROJECT ACHIEVE) THAT WILL CREATE OVERSEAS EDUCATION OPPORTUNITIES FOR AOOOF SCHOLARS.

INFRASTRUCTURE:

TO EXPAND REFURBISH THE FACILITY WE HAVE SECURED TO ENABLE THE SAFE DISCHARGE OF LIMITED YEAR-ROUND FREE BASIC HEALTHCARE MAINTENANCE SERVICE TO THE AFIJIO COMMUNITY.

2015 Outreach

Children's Fair

Intestinal de-worming (roundworm)

Tinea corporis

Multivitamins, iron sulfate

Adult Fair

BP/BMI screening

MD consultation and specialist referrals

Eye Clinic

Eyecare education and consultation

30 surgeries (mostly cataracts)





Post-op eye surgeries



More on 2015

Healthcare Outreach: (a) over 1,100 children and adults participated in screening and consultation with new medical teams; (b) expanded the outreach into another AFIJIO town; (c) a specialty program - the EyeClinic outreach - where eyecare education is emphasized and eye consultation offered for over 200 people; and (d) special intervention surgery (a complex case of polycystic ovaries / fibrosis) was successfully performed on the selected young lady, providing her with much needed assistance and life-saving support.

Education Outreach: (a) by far the most well-attended gala event ever, offering scholarships to 40+ students; and (b) selected 11 of the top students from all the secondary, grammar and high schools in the area to participate in the ProjectAchieve, whose goal is to present the top 5 students from this class to take the SAT in hopes of finding sponsors for them to attend school in the US.

Infrastructure Outreach: Expanded the Year Round Outreach Post to provide support for diabetes patients throughout the year.

Preliminary 2015-2016 Priorities

volunteers! nurses and especially physician specialists...

expanding the outpatient services

textbooks

medical supplies

fundraiser events

cash

HOSPITAL

