

## THE FOUNDATION & THE HOSPITAL

HELPING THE WORLD STAND TALL

December 2019

# Compassion in Action

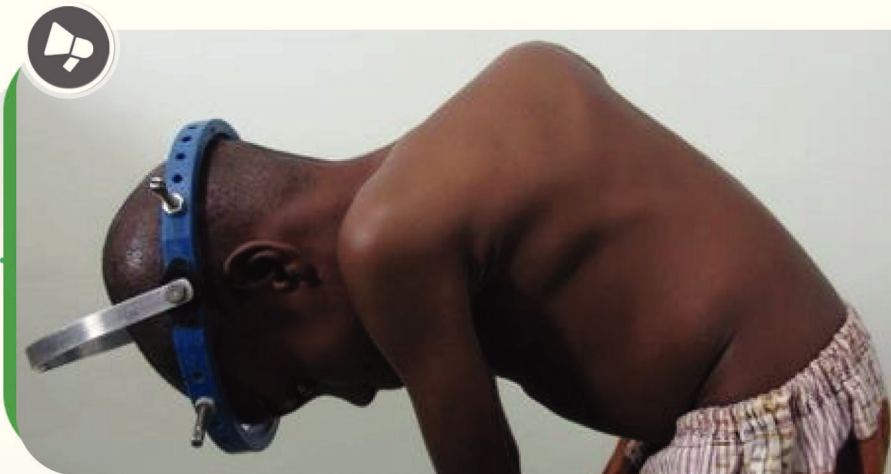


If you want to be happy for one hour, take a nap.  
If you want to be happy for one day, go fishing.  
If you want to be happy for a year, inherit a fortune.  
But if you want to be happy for a lifetime,  
find somebody to serve.  
— **Chinese Proverb**

# Executive Summary

- In 1998, Prof Oheneba Boachie-Adjei, a world renowned orthopedic surgeon, created the Foundation of Orthopedics and Complex Spine (FOCOS) to help bring treatment of complex spinal deformities to underserved populations, primarily in Africa.
- Since inception, FOCOS has treated over 60,000 patients and performed more than 3,100 complex surgeries on patients from over 55 countries. These surgeries cost 85-95% less than the cost to perform the same procedures in the US.
- More than 85% of all severe scoliosis cases at FOCOS occur among children, young adults, and populations who cannot afford the cost of treatment and care. Of the cases treated at FOCOS, 56% are life-threatening. Apart from shorter lifespans, victims of scoliosis go through pain, stigma, unproductive lives, unhappiness, and experience poor mental health as a consequence of coping with scoliosis within their communities.
- Driven by a strong culture of excellence in patient care, FOCOS has a medical team comprised of 43 doctors, 95 nurses and other well-trained medical staff, who have outstanding track records of experience and skills.
- FOCOS operates with high standards to ensure total wellness and care and has some of the lowest infection rates among hospitals, worldwide.
- FOCOS delivers world class solutions to complex human development problems and has a distinguished affiliation with the Hospital for Special Surgery (HSS).
- With your support, we can continue to pursue our commitment to bringing quality orthopedic care to populations that would never have access to such care, leading to suffering and lower life expectancy. As a partner, FOCOS is turning compassion into action.

# Complex Cases



“When life throws you its worst curve...  
...FOCOS will help straighten it out”  
- Dr. Oheneba Boachie-Adjei

# Overview



Musculoskeletal diseases and disorders affect the movement of the human body (i.e. muscles, tendons, ligaments, nerves, discs, blood vessels, etc.) and represent a growing, expensive, and often neglected burden on child and adult populations in Ghana and Africa. This impacts health systems, productivity, and overall national development. Thousands of people, especially from vulnerable and poor households, suffer from ailments including clubfoot, spinal deformities, bowed legs, arthritis of the knee and hips and other infectious and rheumatic diseases.

FOCOS is a non-profit organization founded by Professor Emeritus Oheneba Boachie-Adjei, a world class, Hall of Fame orthopedic surgeon. The vision of this organization responds to these major health challenges by providing quality orthopedic treatment and care to patients in Ghana and around the world.



## Vision Bearer

- Dr. Oheneba Boachie-Adjei, the Founder and President of FOCOS is a Professor Emeritus of Orthopedic Surgery at Weill Medical College of Cornell University and Chief of the Scoliosis Service at Hospital for Special Surgeon (HSS).
- He has over three decades of clinical experience in orthopedics and complex spine disorders.
- He earned his medical degree from Columbia University's College of Physicians and Surgeons, completed his orthopedic residency at New York's Hospital for Special Surgery ("HSS"), and went on to pursue advanced training in spine and scoliosis at the University of Minnesota.
- He has been featured on several programs and publications including CNN's African Voices, Good Morning America, and People Magazine.

<p><b>2004</b> </p> <p>Humanitarian Awards</p>  <p>AAOS musculoskeletal-related humanitarian care</p>	<p><b>2016</b> </p> <p>Medical Mission Hall of Fame Award</p>  <p>University of Toledo / Global Medical Mission</p>
<p><b>2006</b> </p> <p>Walter P. Blount Service Award</p>  <p>Scoliosis Research Society</p>	<p><b>2017</b> </p> <p>Osagyefo African Genius Award for Medicine</p>  <p>Second Osagyefo African Genius Award</p>
<p><b>2013</b> </p> <p>Lifetime Achievement Award</p>  <p>Hospital for Special Surgery</p>	<p><b>2018</b> </p> <p>Medical Tourism Awards</p>  <p>Medical Tourism 2018</p>

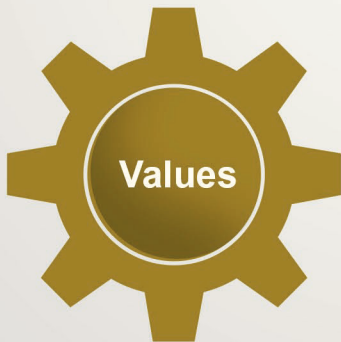
# Vision & Mission and Values



To provide optimum orthopedic care to improve the quality of life in Ghana and other countries.



A sustainable infrastructure for state-of-the-art orthopedic care and education.



Our values are enshrined in the acronym **P.R.E.P.A.R.E.**

**P** - Passion and Purpose  
**R** - Respect and Compassion  
**E** - Excellence in Performance  
**P** - Patient safety, quality care and protocols  
**A** - Accountability  
**R** - Responsibility  
**E** - Efficiency and teamwork



# Strong Governance

## Board of Directors-USA



**Prof. Oheneba Boachie-Adjei, MD**  
Founder & CEO  
FOCOS



**Kwadwo Boachie-Adjei, Board Chair**  
Founder & CEO  
Regen Health Solutions



**Peter Akwaboah, Vice Chair**  
Managing Director  
Morgan Stanley



**Edward Baiden, Treasurer**  
General Manager & Global Director  
PPG Industries



**Nana A. Annan, JD, Secretary**  
COO  
The Boys' Club of New York



**John Westfall-Kwong, Development Chair**  
COO  
SWK Real Estate Group of Keller Williams



**Yaw Asamoah, Immediate Past Chair**  
Managing Director (Rtd)  
JP Morgan Chase & Co.



**Murali Chandrasekaran**  
Vice President  
Goldman Sachs



**Mary Anne Choo**  
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**Andrew Cohn**  
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Hospital for Special Surgery



**Han Jo Kim, MD**  
Associate Professor & Spine  
Fellowship Director  
Hospital for Special Surgery



**Eric Major**  
President  
Stryker Spine Division



**Beatrice Mensah Tayui**  
CEO  
Cybele Energy, Inc.

## Board of Directors-Ghana



**Ambassador Fritz Kwabena Poku, Board Chair**  
Retired Career Diplomat



**Roland O. Akosah, Treasurer**  
CEO  
ENO International



**Frank Adu**  
Managing Director  
CAL Bank



**Samuel Owusu-Akyaw**  
CEO  
Atrium Group



**Inna Patty**  
CEO  
Miss Ghana Foundation



**Nathaniel Tabariyeng**  
Partner  
Tabariyeng & Associates



**Kojo Yankah**  
President  
African University College  
of Communications

- The US Board focuses on overall strategy and funding initiatives of FOCOS.
- The Ghana Board focuses on the day to day oversight and operations of the hospital.

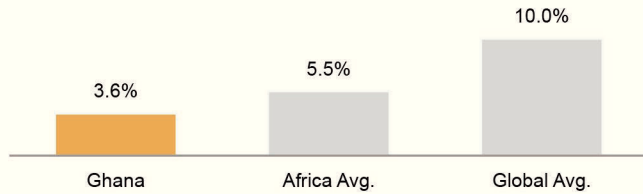
✚ **Serve on both US and Ghana Boards (overlap to ensure alignment in strategy)**



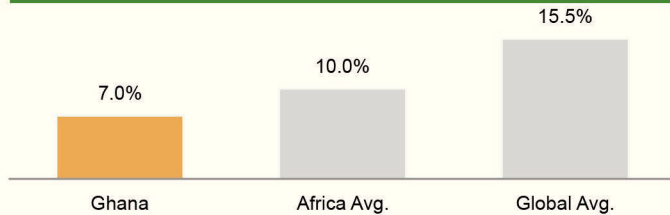
# FOCOS is critical



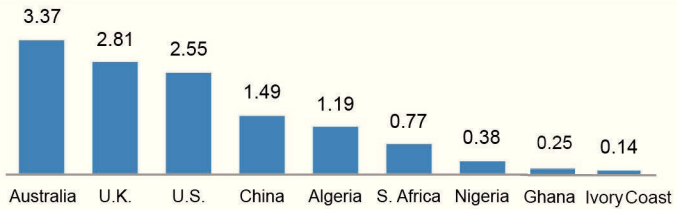
## Total expenditure on health as % of GDP<sup>1</sup>



## General government expenditure on healthcare as % of total government expenditure<sup>1</sup>



## Density of physicians (# physicians per 1,000 population)<sup>2</sup>



- Healthcare delivery systems in Ghana and Africa as a whole are significantly underfunded (relative to global norms) due to economic and other resource constraints.
- Acute shortage of trained, qualified medical professionals add further constraints and creates obstacles in the ability to deliver quality care to a broad segment of the population.
- Ghana has only 30 orthopedic surgeons serving a population of over 29 million people as at end of 2017.
  - Only 60 Anesthesiologists in the entire country
  - 20 Neurosurgeons
  - Overall Doctor/Population ratio of 25/100,000
- Without the presence of FOCOS in the market, access to high quality orthopedic care simply would not be available.

<sup>1</sup> Based on 2014 data from World Health Organization

<sup>2</sup> <https://data.oecd.org/healthres/doctors.htm>

# Unfolding Footprints



## Since 1998

**21**

Years of providing prime orthopedic care

**60,000**

Patients treated

**3,100**

Successfully completed life changing surgeries

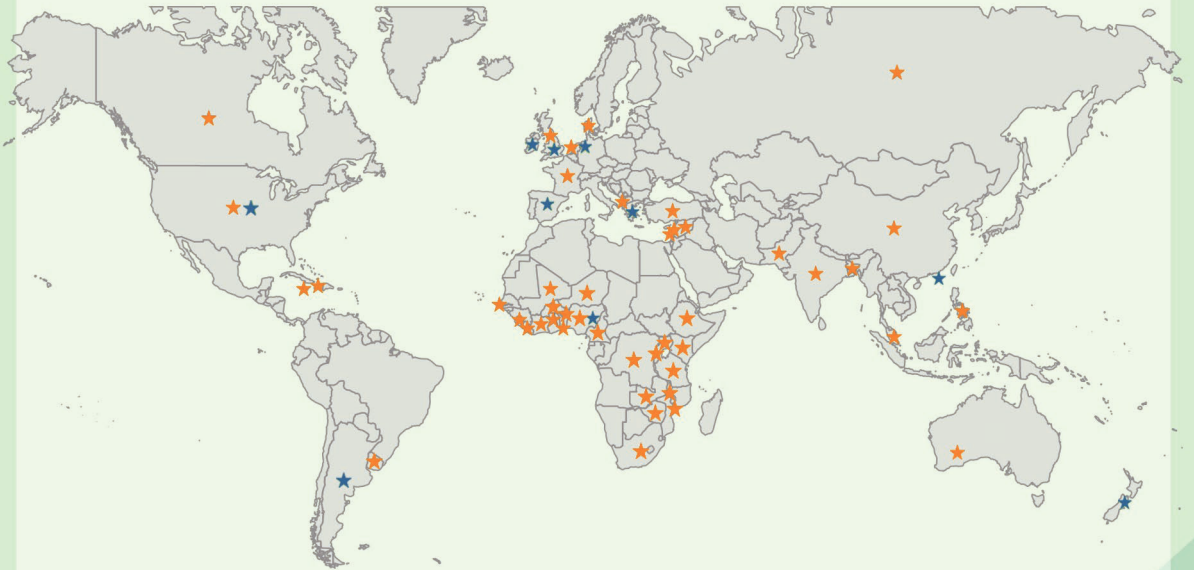
**55**

FOCOS has treated patients from over 55 different countries on 6 continents

**577**

Volunteer doctors and medical professionals come from 10 countries

# Global Impact

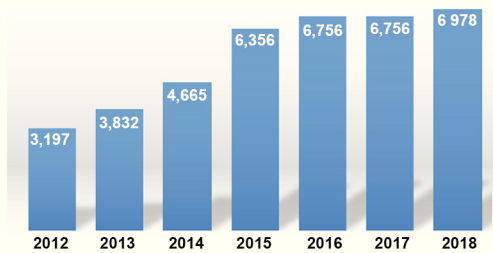


- ★ Countries from which a doctor has volunteered at FOCOS
- ★ Countries from which FOCOS has treated a patient

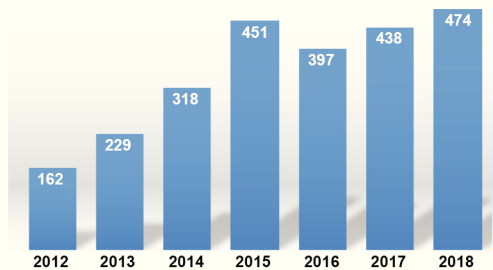


# Key accomplishments - Facts & Figures

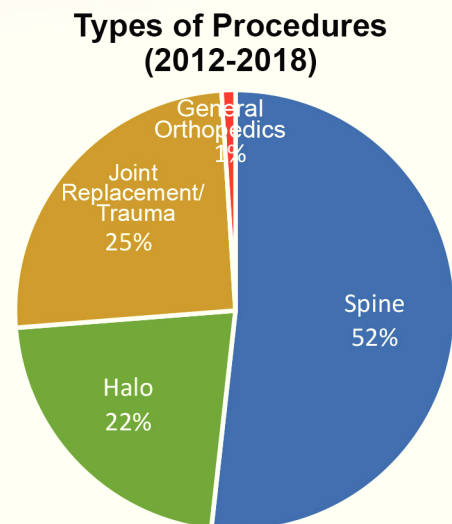
- Successfully raised over \$22 million to build and operate the FOCOS Orthopedic Hospital, one of the leading state-of-the-art, technologically advanced hospitals in the West Africa region. Best medical Tourism hospital in Ghana.
- Over 60,000 patients treated and 3,100 major orthopedic surgeries performed as of 2018.
- Exceptional medical track record and surgical outcomes (1-3% infection rate).
  - According to recent WHO studies, hospital infection rates can typically range from 6-19% in low/medium income countries.
  - FOCOS is operating at a level on par with or exceeding advanced country levels.
- Track record of innovation and success, particularly in Complex Spinal Deformity (e.g. Halo Traction procedure), Early onset scoliosis with MAGEC Rods.
- Leading the way in training orthopedic doctors and spine surgeons in Ghana and the region in order to further significantly increase impact.



**Patient Visits**



**Total Procedures**



# Partnership with HSS

## Overview of Hospital for Special Surgery (HSS)

- Founded in 1863 - The world's largest academic medical center focused on musculoskeletal health.
- More than 32,000 surgical procedures performed annually.
- Nationally ranked #1 in orthopedics (for the ninth consecutive year) and #3 in rheumatology.\*
- Among the top-ranked hospitals for both orthopedics and rheumatology for 27 consecutive years.

*\*U.S. News & World Report (2018-2019)*

## HSS International Collaborations



**Ghana,**  
FOCOS  
Hospital



**Greece,**  
Educational  
Programming  
Provided by  
The Stavros  
Niarchos Foundation



**China,**  
Orthopedic  
Education  
Exchange  
with Various  
Institutions



**South Korea,**  
Bumin  
Hospital  
Group



## Key Accomplishments of the Partnership

- FOCOS was approved as an affiliate of HSS for the use of Premier contracts to purchase supplies.
- Mentorship program has been established to assist FOCOS staff in predicting the needs of each department in order to have a steady, reliable supply of inventory and quality service.
- HSS and FOCOS have formalized a continuing education program for FOCOS staff through the HSS Academy.
- Efforts are ongoing towards administering live video conferences for live education sessions at HSS; including HSS Grand Rounds and streaming of surgery.
- Resumption of service trips since 2016 (after a brief hiatus during the Ebola crises).

# Best in Class Sponsors



# Sustainability

The Projected \$50 million FOCOS endowment fund will ensure continuous subsidies for patients who cannot afford the full cost of medical care. The endowment would also offer additional resources for capital improvements and critical training of medical and non-medical professionals for the region.

## 3 Pillars

1. Continuous patient sponsorships for the underserved population.
  2. FOCOS Institute: FOCOS Research, Education and Outreach (FREO) Program.
  3. Infrastructure Upgrades
-

# Our Compassion Stories



The cases we have treated are among some of the most severe in the world—many that few surgeons would dare touch. With the support of our dedicated staff, volunteers, generous donors and partners, we are transforming the lives of patients throughout Africa and the world.



# The Story of Lilian

## Profile

**Name:** Lilian

**Age:** 15 years old

**Gender:** Female

**Country:** Ghana



Before FOCOS



After FOCOS

## Scoliosis

## FOCOS intervention

### Diagnosis:

- Adolescent Idiopathic Scoliosis
  - Difficulties with posture, gait, and walking
  - Could result in impaired lung function
  - Neck, back, leg pain and muscle tension

### Treatment:

- Spinal Fusion Surgery
  - Permanently join individual vertebrae to prevent further curving
  - Highly advanced procedure utilizing screws, and rods

### Outcome:

- Improved posture, gait, and walking ability
- Significant reduction of pain
- Improved self image and overall health
- Lilian is back in school and is doing well

# The Story of Gonnet

## Profile

**Name:** Gonnet

**Age:** 20 years old

**Gender:** Male

**Country:** Ethiopia

## Idiopathic Kypho-scoliosis



Before FOCOS



After FOCOS

## FOCOS intervention

### Diagnosis:

- Idiopathic Kypho Scoliosis
  - Forward rounding of the back
  - Typically seen in infants or teens
  - Presented with extreme pain, disfigurement, poor respiratory function, and malnourishment

### Treatment:

- 3 months of HALO Traction (pioneered by FOCOS in West Africa)
- Nutritional optimization
- Reconstructive spinal surgery

### Outcome:

- Significant straightening of the back
- Reduction of pain and disfigurement
- Improved height, breathing and self image
- Gonnet has regained functionality and is back in school

# The Story of Alpha

## Profile

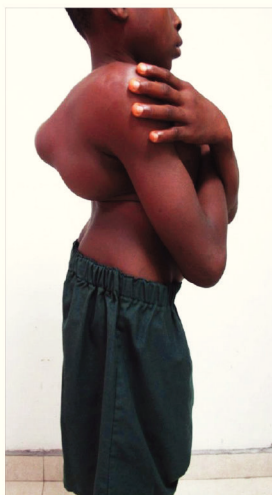
**Name:** Alpha

**Age:** 16 years

**Gender:** Male

**Country:** Sierra Leone

## Round back Kyphosis



Before FOCOS



After FOCOS

## FOCOS intervention

### Diagnosis:

- Congenital Kyphosis
  - Sideways curvature of the spine caused by birth defect

### Treatment:

- Vertebral Column Resection (VCR)
  - Complete removal of one or more vertebrae from vertebral column
  - Problematic vertebrae removed and others fused together
  - Highly complex procedure and technically challenging

### Outcome:

- Improved posture and gait
- Improved self image
- Improved lung function
- Alpha has fully recovered and is back at home continuing his education

# The Story of John Francis

## Profile

**Name: John Francis**

**Age: 13 years**

**Gender: Male**

**Country: Philippines**

## Neurofibromatosis Scoliosis



Before FOCOS



After FOCOS

## FOCOS intervention

### Diagnosis:

- Neurofibromatosis Scoliosis
  - Nerve tumors known as neurofibromas are benign or noncancerous tumors that grow on nerves throughout the body
  - The disease occurs as two distinct types – neurofibromatosis 1 (NF1) and neurofibromatosis 2 (NF2)
  - Children with NF1 frequently develop orthopedic problems such as spinal deformity

### Treatment:

- Treatment for this type of scoliosis can include bracing as well as surgery
  - Nutritional optimization
  - Halo Traction
  - Spine fusion and Instrumentation to realign the spine deformity

### Outcome:

- Increased height and posture
- Improved respiratory function
- Improved physical function and self image
- John Francis has returned home and is doing well

# The Story of Nana Araba

## Profile

**Name:** Nana Araba

**Age:** 36 years old

**Gender:** Female

**Country:** Ghana

## Inflammatory Arthritis of Knee joints



Before FOCOS



After FOCOS

## FOCOS intervention

### Diagnosis:

- Inflammatory arthritis of both knee joints
  - She could not walk / Wheel chair bound
  - Had difficulty in standing

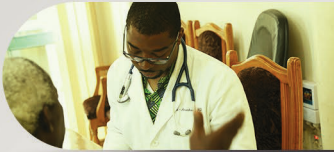
### Treatment:

Bilateral total knee replacement (arthroplasty)

### Outcome:

- Improved mobility
- Standing tall on both legs
- Pain-free
- Nana Araba quickly recovered and has returned to a normal routine

# Facilities & Services



Out Patient Department



Urgent Care



Laboratory



Radiology & Imaging



Physiotherapy



State-of-the-Art  
Operation Room



Intensive Care Unit

Full service,  
modern  
orthopedic  
hospital  
committed to  
reshaping and  
transforming  
the lives of  
patients

# Call to Action

The high cost of procedures, treatment, and care has excluded more than 85% (mostly children and young adults) of those affected by complex orthopedic conditions from life changing treatment.

FOCOS Orthopedic Hospital is sustained by the benevolence and philanthropy of individuals, organizations, and corporate bodies who share in our vision of making a difference in the lives of thousands of people.

Our commitment is to bring world-class specialized medical care to populations that would never have access to such care.

Your support makes you a partner and an ally to our commitment. Your contribution enables FOCOS to deliver essential orthopedic treatment and care to many patients on our tall waiting list.

# DONATE

**For Ghana domestic transfers/deposits:**

Account Name: FOCOS Endowment Fund  
Bank: Consolidated Bank of Ghana (CBG)  
Account Number: 0211311006781  
Branch: World Trade Centre

<https://focos.focoshospital.org/donate-now>  
+1 212 308 7731  
[www.focoshospital.org](http://www.focoshospital.org)  
E: [info@focosus.org](mailto:info@focosus.org)  
85 Broad Street, Suite 18-081  
New York, NY 10004

**FOCOS USA**

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E: [info@focosgh.com](mailto:info@focosgh.com)  
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P. O. Box KD 779, Kanda – Accra, Ghana

**FOCOS GHANA**

FOCOS  
ORTHOPAEDIC HOSPITAL



### FOCOS USA

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