

Surgery...It can't happen without YOU.



2010 Annual Report

Executive Summary

The Global Surgical Consortium (GSC) is a 501c3 public charity that was created in 2010 to address the growing global surgical and anesthesia crisis and to provide sustainable solutions appropriate for low income countries (LICs) where surgical disease is increasing and few services exist for surgical treatment.

In 2010, the GSC organization structure was established. A Board of international surgical, anesthesia and pharmaceutical experts was assembled, and communication through a web site and web based networking was put in place.

Through partnerships with government, academic institutions, industry and donors and with an ultimate goal of closing the access gap for safe surgery and anesthesia, the GSC plans to support sustainable, long term solutions that ensure provision of access to all components of surgical infrastructure. Distinct from the many important organizations which deliver surgery in poor countries, the GSC seeks to reveal and address the root causes of unmet surgical need. It is estimated that 2 billion people are in need but little has been documented regarding where they are, and how they are suffering. For too long, this problem has been assumed to be too large to address, but the time has come to reveal the reasons that even simple, cost effective surgical solutions are not available.

At the moment, it is exceedingly difficult to ascertain where surgical needs are being over-served or under-met, i.e. who is doing what, where, when and why. Defining and describing the situation in generally recognizable global health terms is the first step to bringing surgical care to the people who really need it.

The GSC's major undertaking for 2011 will be to create an interactive database that describes the current state of existing needs and resources in the global surgical theater. Called the Global Surgical Index (GSI), this continually updated database will be the first comprehensive assessment of this kind.

To undertake this bold goal, a surgical survey will be designed and implemented annually in the 85 countries defined as low income by the World Bank. Information gathered via this survey will be compiled into the Global Surgical Index (GSI), a database which will be accessible online to any interested individual or organization. At the same time, GSC will build a Global Surgical Exchange (GSE), an IT platform that interprets the survey data to reveal possible connections between available resources and identified needs. The Exchange will streamline collaboration, improve efficiency, and enable verification of outcomes. It will transform the insights gathered through the GSI into actionable ideas for improving surgical care on the ground.

Our intent is for the GSI and GSE to become the preeminent data-driven resource for individuals, NGOs, corporations, and academic institutions wishing to impact positively surgical delivery and outcomes in a verifiable manner. By establishing the global surgical data repository as well as the de facto connection between surgery and global health, GSC will play a pivotal role in setting the agenda, determining standards and verifying outcomes of surgical aid programs worldwide.

In the short time since fundraising efforts begun in September of 2010, more than \$30,000.00 has been raised. We are grateful to these visionary donors and proud of the accomplishments to date.

Given the intent to implement both the Global Surgical Index and the Global Surgical Exchange this year, our programmatic and fundraising goals for 2011 are even more grand. The aim this year is to raise 2.5 million dollars.

Mission Statement

The Global Surgical Consortium (GSC) seeks to support organizations, programs, institutions and partnerships which work to build surgical infrastructure including physical infrastructure, equipment, education and training in low and middle income countries. Central to this effort is establishment of an accurate needs assessment by county and a subsequent awareness campaign to highlight the critical role of surgery within global health. Ultimately the GSC will support the creation of the essential infrastructure necessary to provide sustainable emergency and essential surgery. This essential infrastructure includes physical structures, education and training programs, a supply chain of essential medicines, and programs to ensure measurement of outcomes and effectiveness of the activities supported.

Statement of Purpose

It is estimated that more than 2 Billion people worldwide have no access to emergency or essential surgery. With three of the leading causes of death worldwide including cardiovascular disease, trauma and cancer, this number is expected to grow. Furthermore, maternal mortality rates continue to claim more than 350,000 lives each year despite improvements in prenatal care and nutrition. A majority of these deaths are due to maternal hemorrhage and obstructed labor, both of which have surgical interventions which can save the lives of both mother and newborn. Finally, without safe anesthesia, surgical intervention may be futile. It is estimated that 25 million anesthetics are provided annually without basic safety equipment, oxygen or a qualified provider.

The global need for safe surgery and anesthesia is profound. But while the World Health Organization (WHO) records many health indicators regarding its member states, no specific information is available on numbers of surgical and anesthesia providers, numbers of functional operating theaters, availability of essential medications, nor the basic requirements to provide much needed emergency surgery – clean water, sterilization equipment, electricity, or a safe blood supply.

The Global Surgical Consortium (GSC) has been established to support US based organizations and institutions working to build surgical and anesthesia infrastructure in low income countries worldwide. Goals includes creating the Global Surgical Index, the Global Surgical Exchange and insuring safe anesthesia and the timely delivery of emergency and essential surgery in low income countries.. All surgical activities are included within the scope of these goals including general, trauma, pediatrics, obstetrics, orthopedics, urologic, gynecologic, reconstructive and neurosurgery, as well as anesthesiology, and acute and chronic pain management.

Supported activities include performing country based needs assessments, providing physical buildings and sterile operating spaces, equipment, consumable supplies and medications, as well as the education and training needed to build the healthcare workforce. Central to this effort is an awareness campaign to highlight the critical role of surgery within global health, along with fund raising to support advocacy efforts, as well as programs to ensure measurement of outcomes and effectiveness of the activities supported.

Scope of Supported Activities

- **Education and Training of the Surgical Workforce**

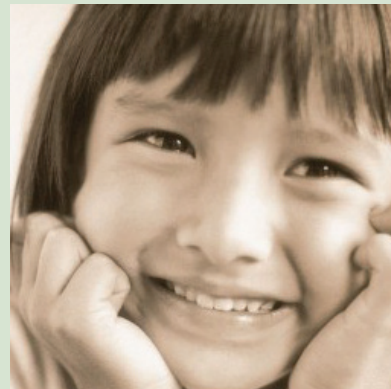
- Surgeons and surgical providers
- Anesthesiologists and anesthesia providers
- Perioperative nurses
- Surgical Technicians
- Biomedical Technicians
- Pharmacists and pharmacy technicians

- **Operating Room Construction, Improvement and Support**

- Creation of sterile environment for surgical procedures
- Obstetric birthing rooms and operating theaters
- Post-Anesthesia Recovery Areas
- Intensive Care Settings

- **Surgical and Anesthesia Equipment**

- Anesthesia Machines
- Ventilators
- Monitors
 - Pulse Oximetry
 - EKG
 - Blood Pressure
- Intubation and AW Supplies
- Sterilization Equipment
- Light Sources
- Surgical Trays
- Surgical Implants and Devices



- **Obstetrical Equipment**

- Fetal Heart Rate Monitors
- Medication Pumps
- Rapid Blood Transfusion Systems

- **Pharmaceutical and Blood Banking Support**

- Refrigeration Source
- Controlled Substance Security
- Sustainable Ordering and Tracking for Essential Medications

- **Consumable Supply Support**

- Surgical Supplies
 - Suture materials, Bandage materials
 - Sterile Gloves
- Anesthesia Supplies
 - Monitoring Supplies – EKG pads, Pulse Oximetry Probes, arterial line and central line supplies
 - Endotracheal tubes, airways, syringes, needles, IV supplies

(cont'd)

- Pharmaceuticals
 - Anesthesia Medications
 - Pain Medications
 - Dantolene
 - Local Anesthesia
 - Antibiotics
 - Blood Pressure Medications
 - Emergency Rescue Medications
- **Creation of Biomedical Systems for Repair and Safe Maintenance of Equipment**
 - Teaching and Education for a Biomedical Profession
 - Hospital based process for ongoing biomedical input
- **Monitoring and Oversight**
 - Surgical Outcomes
 - Infection rate
 - Blood Transfusion rate
 - Reoperation rates
 - Intraoperative and Perioperative Death rates
 - Long term healing and dehiscence rates
 - Obstetric Outcomes
 - Time to Emergent cesarean section
 - Fetal Morality Rate
 - Maternal Mortality Rate
 - Blood Transfusion Rates
 - Infection Rates
 - Anesthesia Outcomes
 - Anesthesia Death Rates
 - Intubation and Ventilation Prolonged
 - Blood Transfusion Reactions
 - Pharmaceutical Outcomes
 - Adverse Drug Reaction Tracking



Organization

The Global Surgical Consortium was founded in January 2010 in Phoenix, Arizona, USA and received its 501c3 Tax Status on Sept 3, 2010.

The headquarters are based at:

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www.globalsurgicalconsortium.org
F.E.I.N. 27-2015692

Officers

Kelly McQueen, MD, MPH, Founder and President
Fellow, Harvard Humanitarian Initiative

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Director, Harvard Humanitarian Initiative

Charles Miller, MD
Fellow, American College of Obstetricians and Gynecologists

Partners/Sponsors



www.hopethroughhealinghands.org

Hope Through Healing Hands is a nonprofit 501(c) 3 whose mission is to promote improved quality of life for citizens and communities around the world using health as a currency for peace. Through the prism of health diplomacy, we envision a world where all individuals and families can obtain access to a skilled, motivated, and supported health worker, within a robust health system-domestic and abroad. Specifically, we support partnership in service and training for sustainability. Under the umbrella of health diplomacy, we include efforts for child survival/maternal health, clean water, extreme poverty, and global disease such as HIV/AIDS, tuberculosis, and Malaria. Strategically, we promote Global Partnership by working hand-in-hand with leading organizations who best address these issues in developing nations.



[i.e. healthcare, www.ielifechanging.com](http://www.ielifechanging.com)

i.e. healthcare's founding partners, Bob Isherwood, Brandon Daniell, and David Cross supported the vision of the role of surgery in global health. They have partnered with GSC to design a campaign to advocate for the role of surgery and global health, and to build a strategy for awareness and partnership.



www.grovesite.com

GroveSite is a leading provider of easy online collaboration tools including wikis, document sharing, web project management, and custom databases. GroveSite's online workspaces are used by organizations of all sizes. We are honored to support the work of Global Surgical Consortium's board and far-flung teams.

Surgery ... it can't happen without you!

Donate Now ...

www.globalsurgicalconsortium.org