



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

2011 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 2011, the GSC focused on establishing The Global Surgical Index; an interactive database that describes the current state of existing needs and resources in the global surgical theater. This database will be the first comprehensive assessment of this kind. A surgical survey has been designed and is currently being implemented in the 85 countries defined as low income by the World Bank. Information gathered via this survey is continuously incorporated into the Global Surgical Index (GSI), and is accessible online to any interested individual or organization.

In 2011, 6 countries were completely surveyed, and the data collected allowed for creation of the hoped for comparative measure revealing absolute needs on a country basis, and assisting organizations in more precisely providing for the surgical and anesthesia needs of each country. This GSI has been placed on our website, www.globalsurgicalconsortium.org, and is available to the public and any organization hoping to optimize delivery of equipment, meds and services for safe surgery and anesthesia. The GSI will continue to expand, eventually representing all 85 low income countries in need of surgical, obstetric and anesthesia infrastructure.

Thus far, four countries in Sub Saharan Africa were surveyed this year including Rwanda, Liberia, Uganda, and Ethiopia. Work is underway in Tanzania and Kenya, and the survey has extended to South America with the evaluation of Bolivia and is currently being completed in Bangladesh.

GSC continues to plan for the Global Surgical Exchange, 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.

Completion of the GSI and the creation of the IT platform (GSE) will require considerable fundraising in 2012. We have extended an invitation letter to interested individuals and corporations, and it is included in this report for your review. We hope you will join us in 2012 to make surgery and safe anesthesia happen!!

K A Kelly McQueen, MD, MPH
GSC President

MacKenzie Burdic, BA
Executive Director

A black and white photograph of a stethoscope resting on a map of Africa. The stethoscope is positioned diagonally across the frame, with its chest piece on the right and its earpieces on the left. The map shows various African countries, including Mali, Nigeria, and Benin, with city names and geographical features visible. The lighting creates highlights on the metallic parts of the stethoscope.

Mission Statement

The Global Surgical Consortium (GSC) supports the establishment and improvement of emergency and essential surgery in low income countries worldwide. We accomplish this monumental task through partnership with like-minded organizations, institutions and governments. Central to this goal is establishing the true need of individual countries and creating awareness within the global health community. 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 and that 35 Million people receive anesthesia without the necessary safety equipment or personnel annually. 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 35 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 include expanding 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, anesthesiology, as well as 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.



Global Surgical Index

Imagine having the ability to know exactly what surgical resource is needed in any number of developing markets. The power of this knowledge would be a game changer because it would empower the global medical community to know exactly what resources needed to be sent where to shift the global health paradigm forever. An index of global surgical needs could be easily coupled to a databank of resources capable of being deployed. This is a world changing idea!

The Global Surgical Consortium (GSC) is creating this world changing idea. It is being called the Global Surgical Index (GSI). Realizing that there is no single indicator that summarizes the comprehensive surgical needs in the developing world, the GSC intends to build one based on surveys in 85 developing nations. The GSI will have the power of any public health indicator – revealing need, resources and disability and death that result from the absence of basic surgery and safe anesthesia. The GSC will avail this index, the GSI, to any company, NGO, university, government, or individual who wants to deploy resources to address the needs identified in the GSI.

	Life Expectancy	Maternal Mortality (Deaths/100,000 Live Births)	Infant Mortality (Deaths/1,000 Live Births)	Surgically Preventable Death (Life Exp. X .07)	# Anesthesiologists	# Surgeons	# OB's	# Physicians
Bangladesh	65	340	41	4.55	50	3000	1250	43,537
Bolivia	68	180	40	4.76	500	1807	1270	10,329
Ethiopia	54	470	110	3.78	14	106	77	1421
Liberia	56	990	112	3.92	0	36		90/10,000
Pakistan	63	376	87	4.41	150	0.36/100,000		79/100,000
Rwanda	58	1,300	72	4.06	9	17		571
Uganda	52.5	430	79	3.765	17	345	124	1570
UK	80	12	5	5.6	5788			165,317
United States	79	24	8	5.53	>45,000	>70,000	37,038	661,400

* Best efforts were made to report actual data through surveys, and where not possible reports from the national societies was included.

Invitation Letter

The Global Surgical Consortium (GSC) invites your participation as an individual, organization or corporation, in creating the Global Surgical Index (GSI) – the data base which promises to inform the international community on safe anesthesia and surgical need on a country specific basis. We know that 2 Billion people worldwide have no access to life saving emergency surgery, nor life changing essential surgery. For those with access to surgery, 35 Million of these procedures annually are provided with unsafe anesthesia, leading to a staggering number of preventable anesthesia deaths. These realities are impactable with your commitment. Your investment will save mothers and babies, will prevent disability from treatable traumatic injury, and will begin to surgically treat cancer – a leading cause of global deaths in the developing world.

The GSI will reveal specific needs at the country level. With data from 5 countries in Sub-Saharan Africa, we know that the needs are unimaginable. But they are addressable. Just as the HIV/AIDS crisis seemed daunting and impossible 2 decades ago, the anesthesia and surgical crisis seems too large to address. Integrating building infrastructure, while improving equipment and technology, and simultaneously providing education and training the goal of providing emergency and essential surgery for every individual in need is possible. But the data is at the heart of the process. Help us today bring the data to the world, so that industry, organizations and academic institutions can begin providing safe anesthesia and c-sections for mothers, hemorrhage surgery for those who have just delivered, trauma interventions for broken bones and cancer surgery for those with breast, cervical and testicular cancer which will save lives, and enable the young to continue to work and provide for their families.

Billions await you – 500,000 mothers, millions of young trauma victims, millions of children, millions of cancer patients **Surgery it can't happen without you!** Make your donation today, www.globalsurgicalconsortium.org.





Organization

The Global Surgical Consortium was founded in January 2010 in Phoenix, Arizona, USA and received its 501C3 Tax Status on September 3, 2010.

The headquarters are based at:
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www.helpthroughhealinghands.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.



Dialog Health LLC
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Dialog Health was formed by a group of knowledgeable professionals from a diverse array of backgrounds, including Healthcare, Advertising, and Information Technology. The company believes that the ubiquity and convenience of the mobile phone makes it an ideal tool for improving the way patients and healthcare providers relate and communicate. Healthcare should never be a one-sided conversation. The company builds mobile health engagement platforms to support people who opt-in. Simple and cost-effective, Dialog Health's solutions are high-frequency-touch tools that enable vital information to be pushed to and pulled from patients and caregivers.



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.

DIIME

www.diime.org

Design Innovations for Infants and Mothers Everywhere (DIIME) is a social venture dedicated to improving infant and maternal health disparities in the developing world through the design and implementation of appropriate, high quality, locally affordable, sustainable health care technologies. As a low-profit liability company headquartered in the US, DIIME creates sustainable and long-lasting partnerships with those most impacted by the technology: the local community.

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Donate Nowwww.globalsurgicalconsortium.org

