GLOBAL SURGERY COURSES
Branch for International Surgery
University of British Columbia, Canada
15% of the global burden of disease can be addressed with surgery.

More than 2 billion people worldwide have no access to emergency or essential surgery.
Global Surgery Courses

Enabling surgical and health professionals to acquire and enhance knowledge in global surgery so they can positively reduce surgically treatable and preventable diseases.

The Branch for International Surgery at the University of British Columbia is establishing itself as a world leader in global surgery training.

Our initial courses - the first in the world- have now graduated over 80 surgeons, residents, and health professionals from across North America, Pakistan, Kuwait, Singapore and the UK.

In September 2013, we will be offering three courses:

**SURG 510** - Surgical Care in International Health

**SURG 512** - Global Disabilities: a Surgical Care Mandate

**SURG 514** - Surgical Care Issues in Humanitarian Disaster Response

A forth course, **SURG 513** - Planning and Evaluation Literacy is also in the works.

**Format**

All courses are offered in an online format giving students the ability to study at any time of the day from any part of the world. Good regular internet access is all that is required.

**Who should apply?**

The courses are aimed at surgeons, residents of all surgical disciplines including anesthesia as well as health professionals who are engaged in global surgery endeavors or aspire to be.

**Looking ahead:**

In 2014 the Branch will be offering a professional graduate program — a Certificate and a Masters degree in Global Surgery. Students can transfer these courses to a Postgraduate Certificate in Global Surgery or to the Masters.
SURG 510  Surgical Care in International Health
SEPT 2013 • online

This first-ever and only online graduate course is an essential foundation to the emerging discipline of global surgery.

SELECT TOPICS:  International Surgery as an Evolving Discipline
Trauma: a Global Pandemic
Global Maternal Mortality- an Important Surgical Issue
Ethical Issues in International Surgery
The Role of Surgical Care Professionals as Advocates in International Health
**SURG 510 COURSE DETAILS:**

<table>
<thead>
<tr>
<th>Module 1</th>
<th>International Surgery as an Evolving Discipline</th>
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<tr>
<td>• Defining international surgery</td>
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<tr>
<td>• Influences that have shaped surgery’s place in international health</td>
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<td>• WHO and the Global Initiative for Emergency &amp; Essential Surgical Care</td>
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<tr>
<th>Module 2</th>
<th>The Global Burden of Surgical Disease &amp; Disability</th>
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<tr>
<td>• The global burden of disease as a concept</td>
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<td>• Surgical disease &amp; disability as a global public health concern</td>
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<td>• Unmet surgical need globally</td>
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<th>Module 3</th>
<th>Trauma: a Global Pandemic</th>
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<td>• The trauma pandemic</td>
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<td>• Need for trauma prevention strategies &amp; the challenge of trauma care</td>
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<td>• Trauma care in complex humanitarian crises</td>
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<tr>
<th>Module 4</th>
<th>Global Maternal Mortality—an Important Surgical Issue</th>
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<tr>
<td>• The importance of this surgical issue</td>
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<tr>
<td>• Maternal mortality &amp; morbidity-set in background of poverty &amp; gender inequity</td>
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<td>• Outcome metrics &amp; maternal mortality</td>
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<th>Module 5</th>
<th>The Spectrum of International Surgery Involvement</th>
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<td>• Categorization of involvement</td>
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<td>• Volunteerism</td>
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<td>• Trainee electives</td>
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<th>Module 6</th>
<th>Principles of Development</th>
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<td>• Millennium development goals</td>
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<td>• Required elements for development in surgical projects</td>
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<td>• Sustainability</td>
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<th>Module 7</th>
<th>Surgical Care Education in Global Low-Resource Settings</th>
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<tr>
<td>• Current status of the global surgical-care workforce</td>
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<tr>
<td>• Designing an appropriate curriculum for the training of specialists</td>
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<td>• Wider &amp; more realistic view of the surgical-care team</td>
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<th>Module 8</th>
<th>Ethical Issues in International Surgery</th>
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<tr>
<td>• Introduction to ethics &amp; health care</td>
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<td>• The reality of ethical dilemmas &amp; cultural relativism</td>
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<td>• Ethics in international surgery research</td>
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<th>Module 9</th>
<th>The Role of Surgical Care Professionals as Advocates in International Health</th>
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<tr>
<td>• Need for advocacy in international surgery</td>
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<td>• WHO definition of advocacy &amp; other definitions</td>
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<td>• Advocacy methodology</td>
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**LEARNING OBJECTIVES:** Upon successful completion of this course learners will have:

- Increased understanding of the global status of unmet surgical need.
- A broader appreciation of the ethical issues, the role of advocacy, and the models of surgical care education in international surgery.
- Knowledge of the need for injury prevention strategies and for global maternal mortality and morbidity solutions.
- New perspectives on the spectrum of involvement in international surgical activities including volunteerism.
- Familiarity with the principles of development in international surgery.

**FORMAT:** The 12-week curriculum is delivered in nine modules with three assignments for submission and review, as well as readings, video clips, exercises and assignments. The course encourages participants’ to interact to questions by posting to an online discussion board.

**WHO SHOULD APPLY?** Residents, surgeons and other health professionals who are experienced in global surgical care and want to expand their knowledge. Those who want to learn about global surgical care so they can participate in the future.

**FACULTY:** Our faculty have a long standing involvement in surgical service, education, capacity building and research in low-resource settings of the globe.

- **Dr. Robert H. Taylor,** MD CM, MIH, DipTM, FRCSC / Clinical Associate Professor, Dept. of Surgery (General Surgery), UBC, Member, Order of Canada
- **Dr. Brian Westerberg,** MD, MHSc, FRCSC / Clinical Associate Professor, Dept. of Surgery (Otology & Neurotology), UBC
- **Dr. David Fairholm,** MD, Dip Med Ed, FRCSC / Clinical Professor, Dept. of Surgery, (Neurosurgery), UBC
Globally, **one billion** people live with a disability, of whom **80%** are in resource-limited settings.

This exciting new online course embarks on new territory not covered elsewhere - the relationship of surgery to preventing and treating disabling impairments in lower income countries. The focus will be on sensory impairments (blindness and deafness) and physical impairment that causes disability.

**SELECT TOPICS:**
- Introduction to Disability: Global Perspectives
- When Health Issues Become Disability-the Role of Surgical Care
- Ethical Considerations in Surgical Care of Disability
SURG 512 COURSE DETAILS:

Module 1  Introduction to Disability: Global Perspectives
• Overview of terminology & concepts as outlined in the International Classification of Function
• Introduces relevant international conventions
• Review of the disability movement, burden of disease and relationship of surgery and community-based rehabilitation to addressing disability

Module 2  Contextual Challenges
• Case examples highlight how human resources & infrastructure gaps impact the ability to provide surgical care
• Barriers to care

Module 3  When Health Issues Become Disability—the Role of Surgical Care
• How physical trauma & non-communicable diseases contribute to global impairment

Module 4  Surgical Care Solutions
• Approaches to addressing disabling impairment globally
• 3 case examples explore how surgical care can & is having a profound impact on reducing impairment globally

Module 5  Ethical Considerations in Surgical Care of Disability
• Using a debate format, this module explores ethical dilemmas faced by a practitioner working globally

LEARNING OBJECTIVES: Upon successful completion of this course, learners will be able to:
• Summarize the global status of impairment and disability due to unmet surgical need.
• Discuss international conventions and policy documents of the United Nations and World Health Organization with reference to surgical implications in health and disability.
• Outline the spectrum of involvement of surgical activities in preventing and treating disabling impairments
• Explain the need for workforce capacity building and infrastructure enhancement to meet the need.
• Discuss proven strategies in overcoming the barriers to effective surgical care of disabling conditions.
• Elaborate on some of the ethical controversies and dilemmas in meeting a service need in the context of limited available resources.

FORMAT: This online course is divided into five modules with material presented in both written and video format, and supplemental readings are provided weekly to outline key issues and concepts. Students are encouraged to contribute to class learning by recounting their own experiences and challenges. There will be weekly activities where learners will be asked to post content for furthering class discussion.

WHO SHOULD APPLY? This course is designed for professionals in the surgical care disciplines, rehabilitation, CBR and disability practitioners, and managers in the health NGO community. Graduate students in other faculties including the rehabilitative sciences with an interest in disability within limited resource environments are also encouraged to apply.

FACULTY:
Dr. Norgrove Penny, CM, MD, FRCS(C) Clinical Assistant Professor, UBC; Paediatric Orthopaedic Surgeon, Senior Advisor for Physical Impairment, CBM International
Dr. Dan Poenaru, MD, MHPE, FRCSC, FACS, FCS(ECSA) Adjunct Professor of Surgery, Queens University, Canada, Honorary Professor, Surgery, Aga Khan University, Kenya, Paediatric Surgeon & Clinical Director of BethanyKids, Kijabe Hospital, Kenya.

Guest Faculty & Contributors:
Dr. Rick Hodes, MD, Senior Consultant at Mother Teresa’s Catholic Mission Ethiopia and Medical Director of Ethiopia for the American Jewish Distribution Committee.
Dr. Patrick Kyamanywa, Dean, Faculty of Medicine, National University of Rwanda.
SURG 514 Surgical Care Issues in Humanitarian Disaster Response
SEPT 2013 • online

This course will address strategies to move from relief to recovery, and case models of surgical care responses in humanitarian disasters.

SELECT TOPICS:
- Current trends related to humanitarian disasters
- Anatomy, physiology, and pathology of major disasters
- Case models of surgical care response
- Special issues in complex humanitarian disasters
- Trends and challenges for individual surgical care teams
SURG 514 COURSE DETAILS:

Module 1 What constitutes a disaster?
- Define and discuss the current international criteria for the designation “disaster”
- Outline the global burden and trends of recent major disasters
- Articulate and discuss the statement that disaster response has become “an international industry”

Module 2 Anatomy, physiology and pathology of major disasters
- Outline the various normative phases of a major disaster
- Discuss the effect that pre-disaster readiness of a country has on the impact of the disaster
- Critique the role that the mass media play on the effectiveness of disaster response

Module 3 Principle maladies requiring surgical care in a disaster
- Explain and quantify the surgical care needs consequent to specific disasters
- Discuss how these needs change from early phases to later phases to recovery phases of the disaster
- Debate the response to these needs in terms of national social context and standards

Module 4 Minimum requirements for adequate surgical care in disaster response
- Articulate and defend the purpose and main principles of the Sphere Project
- Describe the essentials for safe surgical care in field hospitals
- Outline pitfalls to avoid in planning and implementing surgical care programs in disaster response

Module 5 Case models of surgical care response
- Describe examples of surgical care response by international organizations such as the Red Cross
- Outline a variety of possible surgical care responses to disasters both during the emergency phase and the recovery phase
- Apply international standards of disaster response to examples of disasters in your own country

Module 6 Integrating and coordinating responses with national health systems
- Describe the WHO “Cluster” approach to disaster response and discuss its strengths and weaknesses
- Present a strong defense for the need of integration of all responders.
- Discuss some of the ethical dilemmas frequently a disaster response

Module 7 Special Issues in Complex Humanitarian Disasters
- Discuss how armed conflict can be the cause of a humanitarian disaster as well as complicate an existing one
- Outline the specific surgical care needs in a population affected by major armed conflict
- Articulate the principle guidelines of the UN OCHA with respect to humanitarian workers in complex security environments

Module 8 Moving from relief to recovery
- Outline the criteria for transitioning from relief to recovery
- Describe the major challenges in planning exit strategies
- Debate, using examples, how decisions made early in the disaster response with respect to national health system integration affect exit strategies

Module 9 Trends and challenges for individual surgical care teams
- Explain why unprepared responders, individuals or organizations, are liabilities in disaster response
- Describe the future trends for surgical care responders to major global disasters
- Create a personal checklist of preparedness for disaster response
LEARNING OBJECTIVES: Upon successful completion of this course learners will have:

- An understanding of the complexity of the global burden and trends of humanitarian disasters
- Phases of a humanitarian disaster
- Ability to describe and critique select responses to humanitarian disasters
- Outline and defend the essentials for adequate surgical care in any disaster response

FORMAT: The 12-week curriculum is delivered in 9 modules with assignments for submission and review as well as video clips, exercises and readings. The course encourages participants to interact with guest lecturers, fellow students and the instructors.

WHO SHOULD APPLY? This course is designed for physical medicine and rehabilitation students, professionals in the surgical care disciplines, CBR as well as disability practitioners. The course embarks on new territory not covered elsewhere—the relationship of surgery to preventing and treating disabling impairments in lower income countries.

FACULTY:
Dr. Ross Brown, OMM, CD, BSc, MA, MD, FRCSC, FACS is a practicing general surgeon and trauma surgeon at Vancouver General Hospital and Medical Director - Trauma Services for the province of British Columbia. His international work includes two tours in Bosnia and three in Afghanistan. In 2010, Dr. Brown was seconded to support the Olympic and Paralympic Games, managing the Whistler Polyclinic, which included the Mobile Medical Unit.

Hossam Elsharkawi, Ph.D is currently serving as the Director for International Emergencies and Recovery, Canadian Red Cross. He oversees emergency response to global disasters and has led many operations. For the past 22 years, Hossam has been involved in the humanitarian emergencies field with a focus on response and health in emergencies. He has worked in over 30 countries.

Program Costs:
Please refer to the Branch’s website: www.internationalsurgery.ubc.ca for information on tuition and fees.

How to Apply:
The application form is available on the Branch’s website. We encourage you to apply in the Spring for courses starting in September. Typically we accept between 12-15 participants in each course.
Global surgery courses are offered through the University of British Columbia, Canada’s Branch for International Surgery.

The Branch was created in response to the growing and urgent need for improved surgical care among low-income populations of the world.

VISION: The University of British Columbia will have an enhanced role in contributing to the improvement of surgical care among low-income and disadvantaged populations of the world.

MISSION: To promote “global surgery” as a valid discipline of study and practice within a medical/surgical career. To provide a forum for the interest and expertise within the surgery-related disciplines of the Faculty of Medicine, UBC in achieving the Vision.

SIX MEMBER DEPARTMENTS:

- SURGERY
- OPHTHALMOLOGY
- OBSTETRICS AND GYNECOLOGY
- ORTHOPAEDICS
- ANAESTHESIA
- UROLOGY