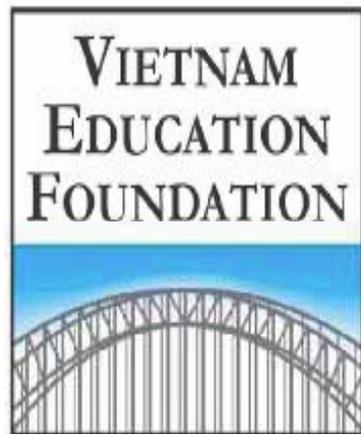


Fundamentals of Clinical Surgery



VEF Program Presentation June 22, 2009

Quyen D. Chu, M.D., F.A.C.S.
Sklar Professor of Surgery
Associate Professor of Surgery
Chief, Surgical Oncology
Director, Peritoneal Surface Malignancies
Feist-Weiller Cancer Center





Disclaimers

No commercial interests

Background

- Investment in Vietnam's medical infrastructure
 - Improve general welfare of its citizens
 - Healthy workforce-→> strong economy

Why Surgery?

Surgery and Global Health

- The neglected stepchild of global health

Paul E. Farmer and Jim Y. Kim

World J Surgery 32:533-536, 2008

Surgical Conditions as Global Public Health Issue

- Surgical conditions constitute a substantial global burden of disease (Haile Debas)
 - **A third of diseases in developing countries are potentially treatable by surgery**
- Surgical burden is led by
 - Injuries, malignancies, congenital anomalies, pregnancy complications, cataracts, and perinatal conditions

Plos Medicine 2008;5:1165-7

Why Surgery

- Global disparities
 - 234.2 million major surgical procedures worldwide
 - 30% of world's population receiving 73.6% of these procedures
 - Poorest third receiving only 3.5%

Weiser et al., Lancet 208;372:139-44

Why Surgery?

- Surgery can be cost-effective
 - Cost per surgical DALY (disability-adjusted life years) averted = **U.S. \$33**
 - Cost less than cost of 2 movie tickets plus food to avert loss of a life in a third world country

Debas et al, Disease Control Priorities in Developing Countries. World Bank, Washington DC

- Cost per integrated management of childhood disease DALY averted = **U.S. \$39**

Ivers et al, World J Surg 2008;32:537-42

Why Surgery?

- Strengthening surgical infrastructure may in turn help to build health systems and strengthen primary care
- Possible to deliver surgical services in the most resource-constrained settings

Uniqueness of Surgery

- Rapidly evolving discipline
- Approach to training is different from other medical disciplines
- Requirements to be a sound surgeon
 - Technically adept
 - Cerebrally equipped
 - Sound judgment in the face of limited data
- Higher level of thinking can be taught and transmitted to trainees in a formal curriculum

Fundamentals of Clinical Surgery

- Interactive televideoconferencing course
- Teaches VN trainees
 - Critically analyze data
 - Synthesize cogent plan of care
- Evidence-based medicine, problem-based learning
- Didactics with Socratic Method of Learning

Why Socratic Method?

- Active participation vs passive participation
- Engages discussion between students and teachers
- Convey concept that faculties are guides rather than final authorities
- Foster idea that learning is lifelong for both students and faculties
- Learning is 2-way street

The Approach

- Thai-Binh Medical University (TBMU: 30 miles from Hanoi)
 - TBMU and LSU-Health Sciences Center-Shreveport
 - Quyen D. Chu, M.D., F.A.C.S.
 - TBMU and UC-Davis School of Medicine
 - Hung S. Ho, M.D., F.A.C.S.

The Approach

- Videoteleconferencing (2/2010 to 6/2010)
- 16 sessions videoteleconferencing
 - (2 hours/session x 16 = 32 hours)
- 16 hours in-country lectures and surgical participation
 - Case presentation and discussions
 - Make Surgical Rounds with Students & Faculties
- All sessions will be recorded and posted on Vietnam Open Course Ware (VOCW) website

The Approach

- Mortality and Morbidity Conferences (M&M)
 - Bi-weekly (2 hours each)
- Didactics followed by Case Presentation and Discussions
 - Biweekly (2 hours each)
- Interpreter
- Teaching Assistants
- Fast internet access x 1 year
- Internet access to major surgical journals

The Approach

- Weekly quizzes (10 questions/quiz)
- National Board Medical Education (NBME) tests
 - To be given at the end of the course
 - Purpose is to compare effectiveness of course
 - Not to be counted towards students' grades
 - Compilation scores rather than individual scores will be released to VN

Evaluations

- Mid-term and End of Course
- Students
- Teaching Assistant
- Interpreter
- U.S. Professors

Capacity Building

- Infrastructure Support
 - Over \$15,000 textbooks to be donated to school
 - \$6,000 Surgical Supplies and Equipment
 - \$5,000 worth of Surgical supplies from medical industries
 - Over \$45,000 professors' volunteer effort
- Exposure to U.S. method of training surgeons
- Teach students how to be critical thinker
- Exposure to clinical research

Capacity Building

- Establish a bridge between Vietnam and U.S. medical schools
- Assist in the surgical care of Vietnamese patients

Future Relationships & Sustainability

- Strong support and enthusiasm from:
 - Chancellor & Chairmen of Departments of Surgery
 - Other Departments (i.e. Anesthesia, Oncology)
 - Pharmaceutical & Medical Companies
 - Communities
- Plan
 - Involve legislators
 - Annual Fundraising events
 - Establish Endowment

News and Information
[other recent news...](#)

Quyen D. Chu, MD, FACS of Feist-Weiller Cancer Center receives grant to train physicians in Vietnam

May 8 , 2009

Quyen D. Chu, MD, FACS, Associate Professor of Surgery, Albert Sklar Professor in Surgery, Chief of Surgical Oncology, and Director of Peritoneal Surface Malignancies Program at Feist-Weiller Cancer Center at LSU Health Sciences Center in Shreveport, received the Vietnam Education Foundation U.S. Faculty Scholar Grant during the academic year 2009-2010. Dr. Chu was one of only two physicians in the United States selected to receive this prestigious award for 2009. Dr. Chu will train Vietnam physicians as part of this federal program that fosters the exchange of academic ideas between America and Vietnam.

A native of Vietnam, Dr. Chu will be an ambassador whose visit will help foster mutual understanding and professional collaborations that are lasting and beneficial to both countries. This grant furthers the international presence of Feist-Weiller Cancer Center and LSU Health Sciences Center in Shreveport.

Future Relationships & Sustainability

- Exchange of Students and Faculties
 - U.S. Faculties and U.S. Surgical Residents
- Expand to include other surgical subspecialties
 - Basic Trauma System
- Establish Relationship involving other departments (i.e. Anesthesia)
- Sponsor a VN student and a faculty to an annual academic surgical meeting in the U.S.

Future Relationships & Sustainability

- Look for other funding mechanisms:
 - VEF fellowship program
 - Atlantic Philanthropies
 - Bill and Melinda Gates Foundation?
- Expand to include
 - Hanoi Medical University
 - University of Medicine and Pharmacy, Ho Chi Minh City



Donated by
Quyen D. Chu, M.D., F.A.C.S.
&
Hung S. Ho, M.D., F.A.C.S.
through the
Vietnam Education Foundation
Grant
2009-2010





Pedro Lira. 1902.
Museo Nacional de Bellas Artes, Santiago, Chile

“ To reap a return in 10 years, plant trees, to
reap a return in 100, cultivate the people”

Ho Chi Minh, 1958