

Global Surgical Volunteerism: Thoracic in the South Pacific

Virginia R. Litle, M.D.
Associate Professor of Surgery
Division of Thoracic Surgery
Boston University

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Objectives

- **Surgical Care in the Solomon Islands, the South Pacific experience**
- **Practical, hands-on thoracic surgery training in a resource poor hospital: empower the locals**
- **The global impact of surgical volunteerism**

Solomon Islands

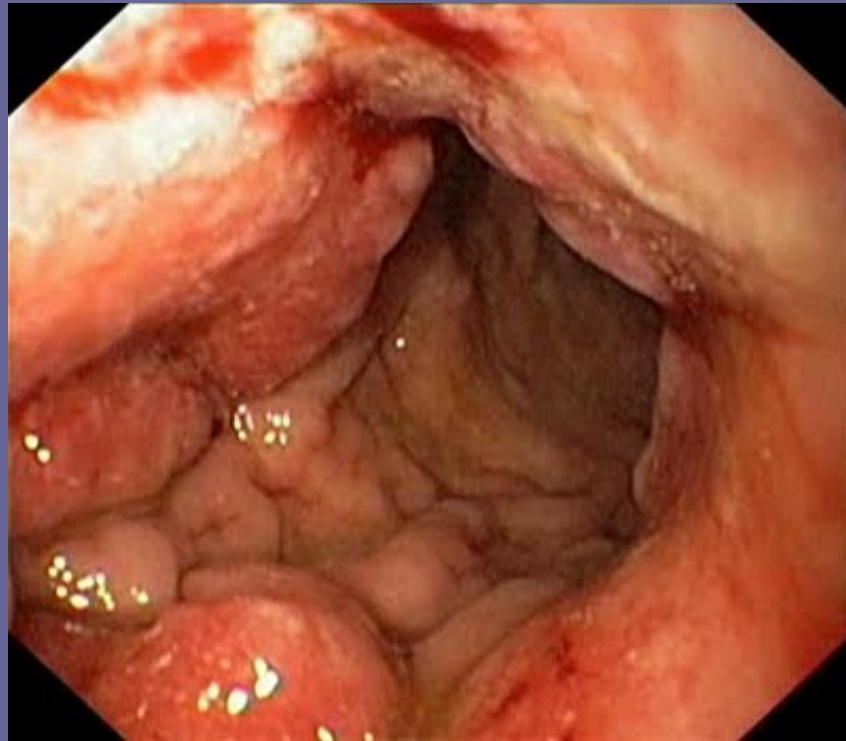


Population 600,000

Surgical Care in the Solomon Islands, the South Pacific experience

- Pacific Region:
- Highest incidence of **gastric**, liver and **lung** cancer in the world.
- *H. pylori* prevalent in 50% of the population
- 80% of the gastric cancers caused by untreated *H. pylori*

H. pylori and gastric cancer



MDR Tb

World Health Organization

THE STOP TB STRATEGY

VISION A WORLD FREE OF TB

GOAL To eliminate tuberculosis as a public health problem by 2035, with no new deaths attributable to tuberculosis

OBJECTIVES

- 1. Reduce incidence of new TB cases by 50% by 2025
- 2. Reduce mortality of TB by 80% by 2025
- 3. Reduce TB-related disability by 50% by 2025
- 4. Reduce TB-related economic burden by 50% by 2025

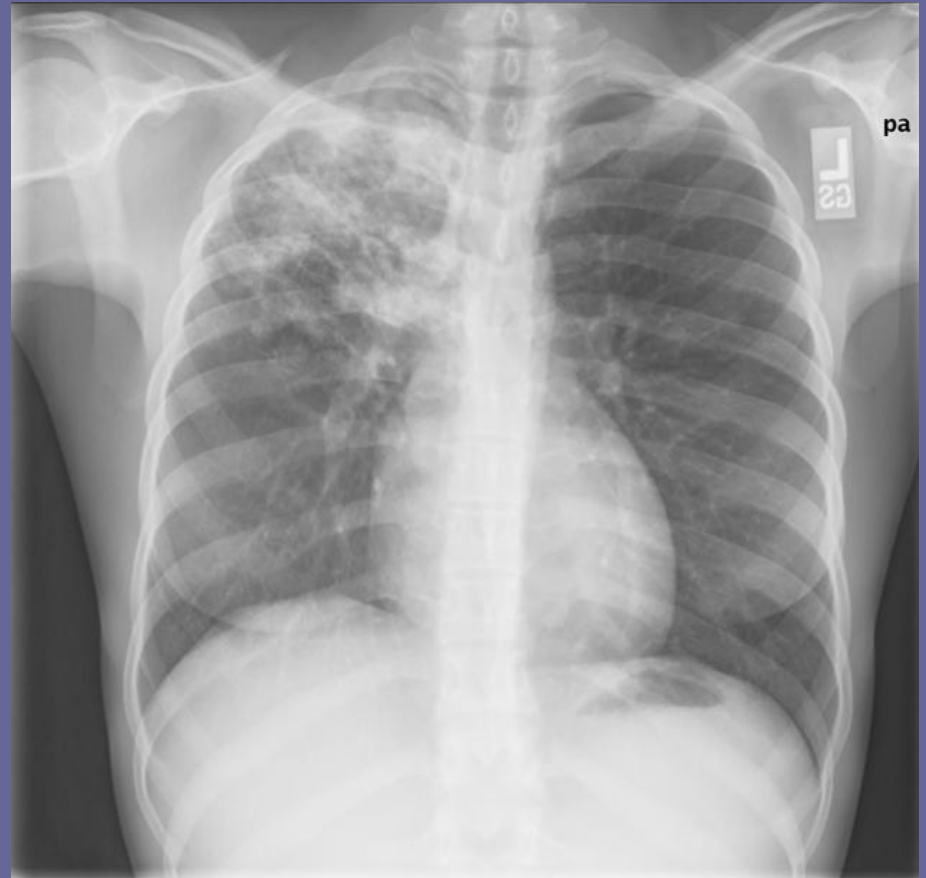
TARGETS

- 1. Reduce TB incidence by 50% by 2025
- 2. Reduce TB mortality by 80% by 2025
- 3. Reduce TB-related disability by 50% by 2025
- 4. Reduce TB-related economic burden by 50% by 2025

COMPONENTS OF THE STOP TB STRATEGY

- 1. STRENGTHEN GOVERNMENT LEADERSHIP AND COMMITMENT**
 - 1.1. Strengthen national TB control and elimination strategies
 - 1.2. Strengthen national TB control and elimination policies
 - 1.3. Strengthen national TB control and elimination laws and regulations
 - 1.4. Strengthen national TB control and elimination financing
 - 1.5. Strengthen national TB control and elimination monitoring and evaluation
- 2. ADDRESS TB BURDEN AND OTHER CHALLENGES**
 - 2.1. Strengthen TB diagnosis and treatment
 - 2.2. Strengthen TB prevention and control
 - 2.3. Strengthen TB care and support
- 3. INVEST IN TB PREVENTION**
 - 3.1. Strengthen TB prevention and control
 - 3.2. Strengthen TB prevention and control
 - 3.3. Strengthen TB prevention and control
- 4. ENGAGE PEOPLE WITH TB AND COMMUNITIES**
 - 4.1. Strengthen TB prevention and control
 - 4.2. Strengthen TB prevention and control
 - 4.3. Strengthen TB prevention and control
- 5. STRENGTHEN TB SERVICES**
 - 5.1. Strengthen TB prevention and control
 - 5.2. Strengthen TB prevention and control
 - 5.3. Strengthen TB prevention and control

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National Referral Hospital

- **Tertiary care**
- **Last endoscopy 2007, when Fiberscope System broke down**
- **SI Endoscopy Training Program led by SI Living Memorial Project**
- **5-day courses**
- **Audience MDs, nurses, students**

Course design

- **Didactics in the morning**
 - **Equipment**
 - **Technique**
 - **Updates on the Diseases**

- **Faculty:**
 - **Clinicians: visiting and local**
 - **Biomedical engineer**
 - **Surgical tech**
 - **Endoscopy nurse**

Medication Administration



- Level of Sedation
 - S = Sleep
 - 1 = Awake and alert
 - 2 = Slightly drowsy, easily aroused
 - 3 = Frequently drowsy, arousable, drifts to sleep
 - 4 = Somnolent, minimal or no response

High Level Disinfection



Recovery of Patient

- 👁 Monitor and document
- 👁 Maintain IV access post sedation
- 👁 Symptoms to report to physician
 - - severe abdominal cramping
 - - firm distended abdomen
 - - vomiting
 - - fever
 - - difficulty swallowing/severe sore throat

Course design

- **Pre- and Post-course tests**
- **Educational materials:**
 - **DVDs, textbooks, literature references**
- **Between patients watch videos, teach, round**

Course design

- **Hands-on:**
 - **See one**
 - **Do one**
- Endoscopy
- Bronchoscopy
- VATS

Needs

- Donation of equipment
- Financial support for travel and accommodations:
 - Foundation (SILMP)
 - American Society for GI Endoscopy Ambassador Program
 - Industry: Olympus, Cook, MediCapture, Scanlan

Results (1)

- 20 local physicians and nurses attended
- Patients identified and cases discussed pre-procedure
- Findings: advanced cancers in many

Results (2)

- Pre-test 14 questions
- Post-test 16 questions
- Pre and post test scores:
 - Physicians: 57% → 82%
 - Nurses: 41% → 54%

Concerns: Safety

- Civil wars
- Health
 - Malaria
 - HIV
 - Tb

Goal

- Empower the local surgeons and clinicians
- Take them through cases
- Set it up so they can do the procedures when you leave

Conclusions (1)

- Delineate what short-term surgical volunteer opportunities exist for cardiothoracic surgeons
- Understand the global need for cardiothoracic surgeons in developing countries

Conclusions (2)

- Identify how to select a volunteer opportunity
 - Operation Giving Back
(www.operationgivingback.facs.org/)
 - Scanlan Life Programs
(www.scanlaninternational.com/scanlanlifeprograms/)
 - #globalsurgery
- Identify the optimal time in one's career for surgical volunteering
- Delineate the benchmarks of a rewarding volunteer experience

Volunteer Work

