

[illegible]

Hugo Heij, pediatric surgeon

Personal perspective

- ♦ Medical school Rotterdam (1968-1974)
- ♦ Surgery, Obs&Gyn Kerkrade + Tropical medicine course KIT Amsterdam (1974-1976)
- ♦ Zambia
 - ♦ General medical officer (1976-1979)
 - ♦ Superintendent SFH (1995-1999)
- ♦ Paediatric surgeon (1985-1995)
 - ♦ Chair AMC and VUmc Amsterdam (1999-2014)
- ♦ Chairman Working Party Tropical Surgery 1990-1995
- ♦ Founding Fellow of COSECSA



Two questions

- ♦ Why do we study history?
 - ♦ To give a retired professor an opportunity to look back on his career?
 - ♦ To detect patterns from past experiences that may help to answer actual questions?
- ♦ What determines the course of history
 - ♦ Persons?
 - ♦ Structures?
- ♦ Unanswered questions are less dangerous than unquestioned answers



History of surgery in LRS

Four phases

Explorations 1600 - 1850

Colonial and missionary era 1850-1950

After independence 1950 – 2000

The 21st century

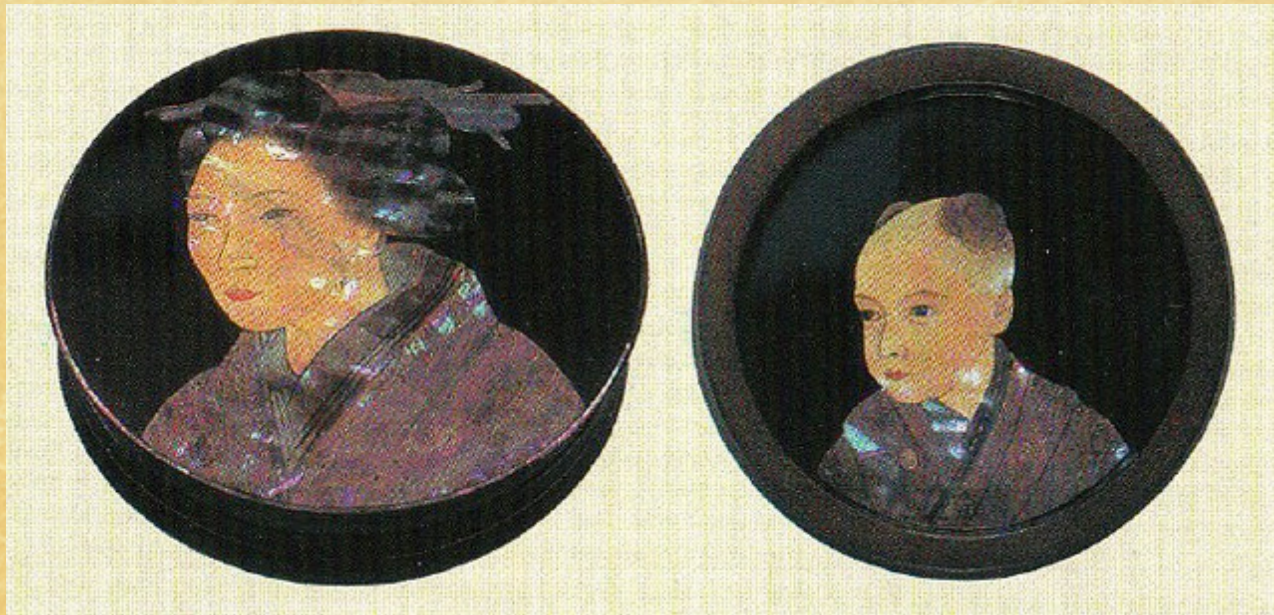
Explorations

- ♦ Surgeons as ship doctors ('chirurgijns')
 - ♦ Dutch East India Company (VOC)
 - ♦ No academic degree but practical training as barber/surgeon
 - ♦ Characteristic: low status and correspondingly low pay
 - ♦ For example Jan van Riebeeck, founder of Cape Colony



Deshima and surgery

- ♦ VOC trading post in the bay of Nagasaki
- ♦ Philip von Siebold, (Würzburg) married a Japanese, their daughter O-Ine became the first Japanese female surgeon



Colonial and missionary era

- ♦ Initially missionaries received some medical training
- ♦ David Livingstone trained as pastor and doctor
- ♦ Albert Schweitzer, studied theology first and attended medical school later
- ♦ Since late 19th century professional surgeons came out both in church and government service



Colonial and missionary era

- ♦ Characteristics:
 - ♦ Life-long dedication
 - ♦ Training of auxiliaries
 - ♦ Establishment of professional associations
e.g. ASEA (1948) => COSECSA (1999)
 - ♦ Authors of books
 - ♦ Charles Bowesman: Surgery and clinical pathology in the tropics (1960)
 - ♦ W.W. Davey: Companion to Surgery in Africa (1968)
 - ♦ Foreword by Burkitt: “emphasis laid on conditions in relation to their frequency”





After Independence



- ♦ Medical schools established in most countries
- ♦ Shortage of doctors in rural areas necessitated recruitment of large numbers of expatriates
- ♦ 1970's around 10% of medical graduates from Netherlands went to work in LRC through volunteer organisations (MEMISA, DOG) or government (DTH)
- ♦ Many specialised in surgery or O&G after repatriation and remained committed to LRC

After Independence

- ♦ Characteristics:
 - ♦ Good basic training in surgery and O&G and tropical medicine, but no recognition or registration
 - ♦ Tropical doctors trained for multi-tasking in district hospital, often single handed
 - ♦ Short term contracts (3-6 years)
 - ♦ Continuity in rural hospitals guaranteed by (clerical) nursing staff (“matron”)



The 21st century

- ♦ Increasing numbers of medical graduates in LRC reduce need for expatriate generalists
 - ♦ Still some need in rural areas
- ♦ Training of 'tropical doctors' is now recognized (AIGT) and part of it is done in LRC
- ♦ Baby boomers are retiring and return as specialists, either residential or on project base

The 21st century

- ♦ Characteristics:
 - ♦ Emphasis of surgical work is on
 - ♦ Emergency relief (MSF)
 - ♦ Specific diagnoses and disciplines
 - ♦ Plastic and reconstructive surgery (Interplast, Smile Train)
 - ♦ Orthopedics (World Orthopedic Concern)
 - ♦ Neurosurgery (spina, hydrocephalus)
 - ♦ Training and coaching
 - ♦ Clinical officers training project in Malawi
 - ♦ Establishment of colleges, examinations (COSECSA)



Summary of historical phases

- ♦ Surgical activities by Western doctors in LRC since 1600
- ♦ Increasing professionalism and, thereby, appreciation
- ♦ Involvement in teaching and training at all levels
- ♦ From multi-tasking sheep with five legs to focus on specific activities (relief) and mono-disciplines.

Which structures are relevant?

- ♦ Type of pathology
 - ♦ Almost all surgical conditions in LRC also occur in HRC but with different incidence
 - ♦ Example appendicitis
 - ♦ Probably low incidence in HRC until late 19th century
 - ♦ Low incidence in LRC until recently
 - ♦ Genetic or nutritional factors in etiology
- ♦ Example congenital malformations
 - ♦ Club feet
 - ♦ Spina bifida



Which structures are relevant?

- ♦ Circumstances in which surgeons work
 - ♦ Tools and facilities
 - ♦ Training
 - ♦ Organisation of surgical care

Which structures are relevant?

- ♦ Circumstances
 - ♦ Tools and facilities
 - ♦ Expensive surgical instruments, e.g. for minimal access surgery, joint replacement
 - ♦ How to deal with discrepancies in availability?
 - ♦ What to do with second hand equipment?
 - ♦ Differences in indications
 - ♦ Symphysiotomy for obstructed labour
 - ♦ Ureterosigmoidostomy for bladder exstrophy

Which structures are relevant?

- ♦ Training
 - ♦ Fully trained (>10 yrs) surgeons are expensive and scarce
 - ♦ Alternatives:
 - ♦ District Medical Specialists
 - ♦ Clinical officers
- ♦ Critical attitude
 - ♦ “Scepticaemia: an uncommon generalised disorder of low infectivity. Medical school education is likely to confer life-long immunity” (Skrabanek & McCormick)
 - ♦ Evidence Based Surgery is necessary for the introduction of new concepts, like ‘essential surgery’

Which structures are relevant?

- ♦ Organisation of surgical care
 - ♦ Focus in tropical health has been too long on epidemiology, i.e. **numbers**
 - ♦ communicable diseases with emphasis on prevention
 - ♦ Surgery, obstetrics and anesthesia considered as **care of the individual**
 - ♦ Only recently the impact of death and disability due to surgical disorders recognized
 - ♦ Risk of surgical activities becoming isolated from comprehensive care programs

Epilogue and conclusions

Two questions asked at the start

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Answers for the present from the past?

- ♦ How did Albert Schweitzer cope with staff shortages?
- ♦ Which solutions did Kees Waaldijk develop for shortages of supplies?
- ♦ Did intermediate technology provide answers?
- ♦ Is primary surgery (Maurice King) a useful concept?
- ♦ Is training of clinical officers a sustainable way of relieving surgical shortages?

The role of people vs structures

- ♦ What impact did individual surgeons make on the course of history?
 - ♦ Livingstone became famous as explorer
 - ♦ Schweitzer received Nobel Prize but not in medicine
 - ♦ Important contributions by non-surgeons like Maurice King
- ♦ How can structural changes be brought by surgeons?
 - ♦ Integration of surgery in health care programs
 - ♦ Research towards essential surgery
 - ♦ Development of concept
 - ♦ Data collection

History as 'lieu de memoire'

- ♦ Another function of history is to construct a collective memory which serves to build and support our group identity



History as 'lieu de memoire'

- ♦ Realising that we stand on the shoulders of giants gives strength to tackle the challenges that are facing us now:
 - ♦ Advocacy of surgery as important discipline
 - ♦ The concept of essential surgery and its requirements
 - ♦ Developing evidence based practices in surgery



Thank you



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