Surgical Skills training in Africa

professional development & practice
Disease Burden WHO 2006

COSECSA professional development & practice

- Africa: 24
- Europe & USA: 20
- ROW: 56
Health Workers WHO 2006

COSECSA professional development & practice
Expenditure WHO 2006

COSECSA professional development & practice

Africa
Europe & USA
ROW

14
1
85
11% of the global disease burden is surgical

Source: Disease Control Priorities, June 2008
The Surgeons

- 1,604 surgeons (in COSECSA region)
- 320M population
- 0.5 surgeons /100,000 population
- 1/25th of OECD norms
• cross–college collaboration

• funded
  – Irish Aid €500,000
  – RCSI €630,000 (In kind)

• joint steering committee
  RCSI (6), COSECSA (6), external (2)
RCSI programmes

COSECSA professional development & practice

Online learning
Simulation-based operative skills
Human Factors
e-logbook
Inservice assessment CAPA
Examinations
Corporate capacity

Leadership & faculty development
Research methodology
The School for Surgeons.net is a collaboration between the Royal College of Surgeons in Ireland (RCSI) and the College of Surgeons of East, Central and South Africa (COSECSA).
A teenage female playing soccer in school reacts to a defender, plants her leg, cuts to the left without contact, feels her leg give out, hears a pop, and has acute pain. She is unable to walk off the field or return to play. Her knee begins to swell almost immediately and she attends for treatment the next morning.
• Africa-centric surgical e-learning platform.

• 25+ IT labs equipped and supported in 10 countries.

• Creation and distribution of training material on DVD
ICT infrastructure

- Africa-centric surgical e-learning platform.
- 25+ IT labs equipped and supported in 10 countries.
- Creation and distribution of training material on DVD.
**Faculty involvement**

**Discussion points**
1. What does it show?
2. What radiological evidence do you have for this?
3. Are there additional investigations needed on this?
4. What surgical approach would you use on this?

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<th>Discussion</th>
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<td>Chest Trauma</td>
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<td>Spinal Trauma</td>
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[Images of faculty members]
Examinations

**Syllabus**
- Generality of surgery
- Trauma course
- Basic skills course
- Basic science course
- Logbook
- In-service assessments
- University or district hospitals

**2 years**

**3 years**
- General Surgery
- T&O Surgery
- Paediatric Surgery
- Plastic Surgery
- NeuroSurgery
- Urology
- **ENT**

**MCS(ECSA)**

**FCS(ECSA)**
Examinations

COSECSA professional development & practice

Examiners exchange

Examiners workshop

External Examiners
Examinations

COSECSA professional development & practice

Examine

Examiners workshop

Exam logistics

Irish Aid
Department of Foreign Affairs
An Reinn Gnóthaíachachach
Courses

- Faculty development
- Basic science faculty
- Trauma
- FCS seminars
- Partnerships
BASIC SURGICAL TRAINEES OPERATIVE EXPERIENCE IN THE COLLEGE OF SURGEONS OF EAST CENTRAL AND SOUTHERN AFRICA (COSECSA)

KIRBY Alice\textsuperscript{1}, O’FLYNN Eric\textsuperscript{1}, LONERGAN Peter\textsuperscript{1}, LABIB Mohammad\textsuperscript{2}, JANI Pankaj\textsuperscript{2}, BORGSTEIN Eric\textsuperscript{2}, TIERNEY Sean\textsuperscript{1}

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\textsuperscript{2}College of Surgeons of East, Central and Southern Africa, Arusha, United Republic of Tanzania

Conclusion
The analysis of the operative experience shows that COSECSA basic surgical trainees record a high volume of procedures particularly in the area of emergency surgery. This reflects the needs of the local health system.
E-logbook

COSECSA professional development & practice
Simulation - Nairobi

professional development & practice

http://www.nssc.co.ke/
Simulation – the future?

Shaikh et al Simul Healthc. 2011
On the road
Clinical Officer training

COSECSA  professional development & practice

COST Africa

Malawi College of Medicine

The Surgical Society of Zambia

University of Nijmegen, Netherlands

European Union Framework 7

RCSI
“Building capacity at the district hospital is the key to health systems strengthening in Africa”
Results

**Number of Candidates sitting Viva and Clinical Exams**

- **MCS**
- **FCS**
- **Total**

- **2003**
- **2004**
- **2005**
- **2006**
- **2007**
- **2008**
- **2009**
- **2010**
- **2011**
- **2012**
- **2013**
- **2014**

Legend:
- Blue line: MCS
- Red line: FCS
- Green line: Total
Partnership

professional development & practice