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ral African Journal of Surgery 6006 of EAST AFRICA AND COLLEGE OF SURGEO 55: 2073-6990 55: 2073-6990

al African Journal of Surgery, Vol. 16, No. 3, NoviDec, 2011, pp. 6-34 A Review of Surgical Capacity and Surgical Education Programmes in The COSECSA Region

The College of Surginors of East, Central and Southern Africa (COSECSA), is an independent body that Costan poutgraduath selectation in surgery and provides surgical featuring (moughout the surgion of East, Central and Southern Africa, COSECSA, decided to conduct a survey of surgical capacity and surgical education for Document (management of the survey surgical capacity) and surgical education in the COSECSA countries: Ethnocal Extension of the survey surgical education for the COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA decided to conduct a survey of surgical education for the COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, COSECSA countries: Ethnocal Extension of East, Central and Southern Africa, Cosecution of East, Central and Southern Africa, Cosecution of East, Central and Southern Africa, Cosecution of East, Central an

The survey identifies the region's existing surgical programmes and non physician programmes and the type of braining procided. The survey also investigates each country's training programmes, the entry qualifications required and the associated cost of training.

The survey is a conducted by Porf I. Mandraive from Malain and Porf I. Kladarsk from Uspacia. The key state holders and July 2011. The former covered Microardines, Zambais, and the tome country Malain will have been country. Uspacia. The key state holders and dark in the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the country Malain and the survey of the contractive from the survey of the survey of

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In developing countries, there is little data or publications related to the capacity of surgical services delivery in hospitals. It is even more difficult to measure how much surgical research is being done in Africa. A recent study in 2011 found that of 2,236 publications also with two or more were predominantly from West Africa, particularly Nigeria. 4

The data product by country proposestations was intergolated with WHO Dispute. In rode by provide data or country statistics never used. The grade halves from the WHO disball health deprevatory and appropriate a respective view or country product or 2000 – the latest Engage publically, available, WHI The respective view or the respective view

Figure 4 below shows the life expectancies in COSECSA countries. Kenya had the highest file expectancy for men and women (59 years respectively) and Malawi had the lowest file expectancy (44 years for men and 51 years for women). In comparison, the average life expect the highest infant mortally rate (627,000 live births) and the global average was 401,000 live births.

Of the COSECSA countries, the shortest surgical training time was for Undog/ in Kenya (two years), however trainess are equired to have an MA programmes in each country and a more in depth review of individual countries are provided in the appendix section (page 38).

COSSESSA has be triving programmes. No remotivative and the fidelings for the controllation of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College does not confer operated status but significant that the conference of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College of Surgeries of East Central and Southern Africa, MICS (SCSA), Membership of the College of East Central and Southern Africa, MICS (SCSA), Membership of the College of East Central and Southern Africa, MICS (SCSA), Membership of East Central and Southern Africa, MICS (SCSA), Membership of East Central and Southern Africa, MICS (SCSA), Membership of East Central and Southern Africa, MICS (SCSA), Membership of East Central and Southern Africa, MICS (SCSA), Membershi This followelly programma leads to the each qualification of Follow of the College of Surgeors of East Central and Southern Artica; This ECSA) that qualifies the accossful confidate as a operability surgeors have greated Surgeory. Otherspaceded, Neurosurgey, Unity, Prediction and Flast Coupting. The basining locations. The Internation of Surgeory of East Central and Southern Artica; This existing in the Confidence of Surgeory. The Internation of Surgeory of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Southern Artica; This existing is a supposed of East Central and Souther

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Occurrents statisticate are available for surgical training fut are very limited as absolution in operand over many descriptories. On average, accurrently, Mild advisor is or enrolled annually and the cost of basining is approximately US \$2.586 annually per student. News Currently, Milded training is offered at Naziest University of and Mild University of Enroll Association (as a Section of the Control of Mild University of Enroll Office (as a Section of the Control of Mild graduates in Milder 2012).

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Makes has Milled surgical postspackate programmes in general surgery, optimismicingy and orthogoaedics within started in 2005. The government funding, cardidates must have completed to yours public service work post intermeting. Comment funded surgery, Although surgicors trained with government funding are required to work for the government after training this is not entired. Expression and the recommend funded around year of a find and around year of a find and completed surgery and find a find or a find and around year of a find around year

The sole medical school was started in 1991 with an output of 10 to 15 doctors per year in the first 15 years. Output has since increased to approximately 50 doctors per year since 2008 following the in

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The description of the first products of the control of the contro

Postpractures suspical facilities (P. Hearnest started in 2006 for general surgeous). The adoption for processed surgeous and for the years good intermedie in public services. So for all fraintees have been Reaccided an example of the company of the accident for the years good intermedial per base of the processed surgeous and for the years of the confidence of the processed surgeous and for the years of the processed surgeous and for the years of the processed surgeous and for the years of the

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The idea of training specialist surgeons locally rather than sending them abroad for Fellowship was conceived by the late Professor Sir Ian McAdam and Head of Department of Surgery at Makerere Me traumatic injuries and orthogoacids, the late Professor Balcher inflated the MMAD Orthogoacids and trauma in 1993 when the recruited two central surgery residents to MMAD Orthogoacids.

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Nine (9) surgeons have graduated from the COSECSA fellowship programme, 9 have finished the r

Non-Pippisian Clinicians (NPPQ) are bained in exveral COSECSA countries and provide sorgical periodes. Their scope of taining and expected expected expected expected in the countries of their scope of taining and expected expected expected expected in their scope of taining and expected expected. Their scope of taining and expected expected expected expected expected expected expected. Their scope of taining and expected expected expected expected expected. Their scope of taining and expected expected. Their scope of taining and expected expected. Their scope of taining and expected expected expected. Their scope of taining and expected expected expected expected. Their scope of taining and expected expected expected expected expected. Their scope of taining and expected expected expected expected expected. Their scope of taining and expected expected expected expected expected expected expected expected expected. The expected expecte

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These sets' approach siming institution for direct offices of founds of found in terming in Ferning. The companies are stated between 1527 and 1550 and up completion of indical offices are marked a Digitation for Central Medicine. They are applicated by the Offices of Offices Council and are accepted by the Medicine Presidence and De The council acceptance and update 1570 (Ferning and England Application Ferning and England Application Ferning and England Application Ferning Applic Nurses are also trained in anaesthesia and can undertake a diploma in Clinical Medicine. Th clinical officers. Caesarean sections however are not performed by clinical officers in Kenya.

The career path for clinical officers is structured and they are able to move to senior grades provided funding is secured for their training. There is no system of credit training of credit training to be doctors. Chincial officors are deployed at all levels and can suck independently all department of the Chincial Officors Act allowing them to perform contain roles; managing cuts, absoints, colublist, absonables, under principle of the private sector areas fall under the Chincial Officors Act allowing them to perform contain roles; managing cuts, absoints, colublist, absonables, under private perform contain roles; managing cuts, absoints, colublist, absonables, under perform contain roles; managing cuts, absoints, colublist, absonables, under perform contain roles; managing cuts, absoints, colublist, absonables, under perform contain roles; managing cuts, absoints, colublist, absonables, colublist, absonables,

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Following this aucross of general delixed officers, post basic deficial officers programmes were introduced in orthopaedics, enseathwais, and ophthalmology where condicates train for another 18 months after several years of delixed practice as delixed and control in control in practice.

Assasshate clinical officers are the major providers of anneathwais in the male decompts of delixed and orthalm incipated cellical officers have been trained and control incipated cellical officers have been trained and in the surface officer.

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Zerbita has a code of janior non physician clinicars called critical efforces and a more series cades called Medical Levinidat. The programmes were started in 1958 (formally called Medical Assistants) and 1979 (formally called Assistants Medical Official (formally called Assistants) are sometimes and the period as formally included assistants of 1978 (formally called Assistants) and 1979 (formally called Assistants) and 1979 (formally called Assistants) are sometimes and the period assistants of 1979 (formally called Assistants) and 1979 (formally called Ass

The Made of Livertiles owner in different proofs in Section 1 and review or continuous programms. Entry qualification is a direct office of desired from plant a minimum of these part of direct desired from the part of direct desired from the part of product products and the part of products and

There is also little in the literature regarding clinical officers in Zambia. A survey carried out in 7 Zambian ha pitals found that 86% of 21,245 operations performed were straightforward en

spitals. They can work inc ently but have to report to medical officers. There are no m An economic evaluation of costs board that supposally brained assistant medical officures (beneficial officures, supposes and obstaticians)/generoologists) as a cost per major obstatic supple procedure. The 50-year cost per obstative supple year US \$53.9 for becoming or distribute supple year US \$53.9 for becoming or distribute supple year. US \$53.9 for becoming or distribute s

Table 2 alone, gives a breakform of the number of surgeons practing in officer specialises and shows that most surgeons are general surgeons. Pigure 6 represents the number of surgeons per million people. Many proportion of surgeons per million people. Many people.

Language the facility and the second of the control of the control

All COSECSA countries provide at least three MMed surgical programmes that are government funded and taught by the universities. They last app programmes. Foreign students are also accepted in most countries but sometimes at a training cost higher than for local students.

comer organ. A Compres study on 200 moderal databates showned that suppry reads the late of the suppry reads the late of the suppry read to the suppry reads to the suppry read to the suppry read to the suppry reads physician dinisian programmes in the COSECSA region vary from country to country. The programmes last between the and toar years depending on whither it is a basic or post-basic programme. The most common surgical programmes are general surgery, orthopcades and anaesthatics. Non physician clinicians have automorphy or the anaesthatics. Non physician clinicians have automorphy and an anaesthatics. Non physician clinicians have automorphy and an anaesthatic ortion of the anaesthatic ortion and an anaesthatic ortion and anaesthatic ortion and an anaesthatic ortion and an anaesthatic ortion and an anaesthatic ortion and an anaesthatic ortion and anaesthatic ortion anaesthatic ortion and anaesthatic ortion anaesthatic ortion anaesth

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As position and faithful and will definite of the faithful and the conceptage to the price of the complete the price of th Where NPC programmes are not established or are nesisted, COSECSA must use evidence based best practice to influence policy makers and map out clear career paths for NPCs to ensure they continue to provide sungical care. COSECSA also needs to influence and adv COSECSA must encourage medical suddents to take up careers in surgery as output from medical school is increasing in the region. This can happen by encouraging formation of surgical clade as has been successfully done in the medical school in Research.

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AMIRET - Arizon Medical Research Fountation
ASIOL - Association of Sergenor of Uganda
805 - Bachelor of Derival Suggery
CO - Circlinaci discourance of Control Control
CONSIGNA - College of Surgeons of East Central and Southern Africa
ENT - Early Near on Throat
FEO - Faith based organizations
FEO - Faith based organizations
COP - Cores domails product

MF - Infant mortality rate
KEMU - Kernya Methodist University
KNH - Kernyatta National Hospital
KMTC - Kernyatta National Hospital
KMTC - Kernyan Medical Training College
MBBS / MBChB / MD - Medical Degree
MMR - Mostpraduste medical degree
MMR - Materhal mortality rate
PCFB - Preshyderion Church of East Micro

PCEA - Presbyterian Church of East Africa
 PPP - Purchasing Power Party (representing
 WHO - World Health Organisation
 UOA - Ugandan Orthopaedic Association
 Uni - University

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The World Health Organisation (WHO) estimates that managing surgical diseases is an important determinant of the public health crisis in developing countries. The lack of int important to address the deficit in surgical care as it has been also shown to be as economically cost effective as providing vaccination programs.<sup>9,9</sup>

The data provided by country reconsentations was triangulated with WHO (Spours. In one for provide data of country patitions were as a required view of country positions with a Country patition was triangulated with WHO (Spours. In one for provide data of country patitions was the reconstruction of the WHO (Spours. In one for position of the WHO (Spours. In one fo

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Ethiopia has well established postgraduate surgical training programmes in general sur-surgery programmes are based at the University teaching hospital in Artisis Ababa

COSECSA has two training programmes, the membership and the fellowship. The membership programme is designed to train the car pursue higher surgical training in a particular specialty. This involves a minimum of 2 years training.

The formation of the control of the

A support lariness have been nationals and producted burding from the government above been nationals and producted burding from the government service for each year of burded training. The unit cost of braining a support was not read and you will not be the final to be

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n centre for contributmology so a large number of students are from other regions in Africa. Nairohi Uni

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Mountains in the established surgical postparadusts programmes in datable programmes in datable programmes in planta curpor, neurosurgen, cardiothroacis usurgen; and pacadistic supery within any offered as typic's programmes with the first two years of basis susgical staining done in Mountaining and the highest surgical staining done in Mountaining and the highest artification of the second in the highest surgical staining done in Mountaining and the highest surgical staining done in Mountaining and the highest artification of the highest surgical staining done in Mountaining and the highest artification of the highest surgical staining done in Mountaining and the highest artification of the highest cardiocated in the highest surgical staining done in Mountaining and the highest artification of the highest cardiocated in the highest surgical staining done in Mountaining and the highest surgical staining and the s although some candidates from Sao Tome and Principe and Cape Verde are trained in Mozambique funded by their gov All surgical trainees are funded by the government and there are no private or self-funded trainees. To be eligible for government funding the candidate must have worked in public service for two government funded surgical training. Approximately 18 to 27 trainees are enrolled into surgical training programmes annually with fees of approximately US \$10.540 annually per student.

This internal continues that the State Advanced Short USEN to Liston Short USEN has been seen as a continue of the State Advanced Short USEN has been seen as a continue of the state Advanced Short Short USEN has been seen as a continue of the state Advanced Short Short USEN has been seen as a continue of the state Advanced Short Short USEN has been seen as a continue of the state Advanced Short Short USEN has been seen as a continue of the state Advanced Short Sho

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The idea of training specialist surgeons locally rather than sending them abroad for Fellowship was conceived by the late Professor Sir Ian McAdam and Head of Department of Surgery at Makenere M traumatic injuries and orthopaedics, the late Professor Belcher initiated the MMed Orthopaedics and trauma in 1993 when he recruited two general surgery residents to MMed Orthopaedics.

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Not Physician Circiation (NPCs) are trained in several COSEDSA countries and provide surprised services. Their accept of training and suspicial reportability varies from country to country, in addition, their distances on the companies counts containing and as a negarity of the countries and provide surprised services. Their accept of training and suspicial services in the countries of the countries and provide services are contained as a negarity of their acceptances. The countries are contained to relight and services. The services are contained as a contained as a negarity of their acceptances are contained as a negarity of their acceptances. The countries are contained as a negarity of their acceptances are co

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These are S approved training institutions for clinical officers training in Kerlys. The programme was sufficed between 1922 and 1930 and upon completion clinical efficies are awarded a Dipploma in Clinical Medicine. They are applicated by the Clinical Medicine. They are applicated princial formation. They are applicated princial difference to Control and are a excepted by the Medicinel Process training and applications and Dark principles and Dark principles are applicated princial difference. The application of the application difference in the area of the application difference in the area of the application difference in the area of the application difference in the application diffe Nurses are also trained in anaesthesia and can undertake a diploma in Clinical Medicine. They then o

The career path for critical officions is structured and thony are able to move to senior gradue provided funding is secured for their training. There is no system of credit transfer currently available to them. They are required to underside continuous professional development (CPD) bit this is ungraded. Alternatively, they can obtain a Master of Science (MSC) degree in Clinical Medicine and Community Health. This programme is offered in four Universities and their to provide and training their continuous professional development (CPD) bit this is ungraded. Alternatively, they can obtain a Master of Science (MSC) degree in Clinical Medicine and Community Health. This programme is offered in four Universities and their continuous professional development (CPD) bit this is ungraded. Alternatively, they can obtain a Master of Science (MSC) degree in Clinical Medicine and Community Health. This programme is offered in four Universities and their continuous professional development (CPD) bit this is ungraded. Alternatively, they can obtain a Master of Science (MSC) degree in Clinical Medicine and Community Health. This programme is offered in four Universities and the Community Health. This programme is offered in four Universities and the Community Health. This programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and the Community Health. The programme is offered in four Universities and t Circia efficus are deployed at all levels and can work independently ad dispensary and hasth notine is used. They are however supervised by made and officers working in district, provincial efficus working in the private sector areas fall under the Clinical Officurs Act allowing them to perform contain roles; managing cuts, absocious, calculate, absocious, consisting and the private sector areas fall under the Clinical Officurs Act allowing them to perform contain roles; managing cuts, absocious, calculate, absocious, consisting and the private sector areas fall under the Clinical Officurs Act allowing them to perform contain roles; managing cuts, absocious, calculate, absocious, candidate, absocious, candidate, absocious, and an approximate the contained of th

Make has a code of clinical offices and their basining programms first standed in 1975. Upon completing a three year braining order presented and plotman in Circlical Medicine by the Make Challege of Health Sciences, a government run institution or the Makemuto College of Health Sciences, a talk based training institution. But of these institutions are also colleges for training other presented and offices such as not designed as the contract of the contract

To progress alroy the clinical distance, they have to train as decistor by joining the text year of medical activated and their level of experience and digitories does not seen any education in the length of their medical training. They are permitted to provide private practice after the review of their medical activation and the length of their medical activation and training. They are permitted to provide private practices after their view of their medical activation and the length of their medical activation and training. They are permitted to provide private practices after their view of their practices and their practices are practiced to their practices as a second, their practices are practiced to their practices are presented to their practices after their practices are practiced to their practices are provided to their practices are practiced to their practices are practiced to their practices are provided to their practices are presented to their practices are presented to their practices are presented to their practices are provided to their practices are provided to their practices are provided to their practices are presented to their practices are provided to their practices are provided to their practices are provided to their practices are presented to their practices are provided to their practices are practices are practices are provided to their practices are provided to their pr Following the success of general clinical offices, pool basic clinical officer programmes were introduced in orthopacidic, unsembleau, and optimizationsly where cardidates has be a customer at the several years of clinical practice as clinical officer.

Assembles clinical officers are the major provises of amendmess in the whole country at detailed and cereal implications of the country at detailed and cereal implications of the country and detailed and cereal implications of the country and detailed and cereal implications of the country at detailed and cereal implications of the cereal officers in manage acute eye emergencies and cere perform cattered surgery and executation of the globe. Specialised orthic 150 orthopacide, clinical officers have been brained of whom 82 are in clinical practices. This is an increase form what is in the literature (117 trained). If

Research for Materian or closes of form has been in the Pay public major and provided programs against a provided p

Partial data was provide grade from this position

start medical officers provided most of the surgery outside of major cities, in an analysis of the 1.134 come/icated deliveries and 1,072 major obstatrical operations, there were no significant differences between assistant medical officers and medical officers and medical officers in outcomes, risk indicators, or quality of care. 21

Zamba has a code of prior non physician clinicisms called crinical officers and a more senior cache called Medical Lineatism. The programmes were started in 1938 (formally called Assistants) and 1978 (formally called Assistants) and 1978 (formally called Assistants) and 1978 (formally called Assistants) are officed in programmes are officed in programmes are three programmes are officed in pro

The Market Licentities come in affinise a temporary companies and the second of the companies and the

Triang for both programmes action at the Commence College which is a fallency of Health installation Production actions are done at district / provincial hospitals including Kalews, Minoza. Bit Francis, Minicia and Kiles. Trianing and practical supervision is a volentile to by a production and activities of the provincial hospitals in a fallency of the provincial

To data a total of 100 surgical sechnicisms have been believed. Technicisms programmes in anisothesis, optifications, optifications, epitical includes a bour effect (provided included a bour year (centrale nurse programme to hair nurses in delateric and generacidepoid procedures such as casareen sections, eclopic programs youngery and hydro-processment institution and practical interference as done at distinct provincial hospitals. Turking and practical expensions on done by specified octors. ctomy. Training is done at the Maputo Central Hospital which is a

The stage of each for support and interest an interest a contract in product and state of each of the stage of each of

With only 10 Ugandan physic

Surgical Can

thops has the highest number of modeled schools but it is unclined how many modeled graduations are produced arounds. Young assess to have the highest output of medical globales but it is likely fill the estimates are an under representation. Countilise with the issue number of medical schools were Makeins, Remarks and Zenthia with 100 graduation and 100 graduation page.

This 'S Tables' years, are you man, our moving of the harding case worked progradient and the figure in a program of the program of the harding are with the program of the program of the harding the model at 100 per 100,000 population and Ethogolish having the model at 100 per 100,000 population and Ethogo

It is well known that the leasth worker population is believe the WHO attendand for many Micros countries. For example, Kenya is 11.500(h) but does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the WHO attendand for the nurse positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya's Spars is 11.500(h) does not meet the New Positive ratio of 1500 (Kenya

55 Impact of COSECSA Training in the Region

16 and clear what the total numbers of COSECSA members or fellows, Table 14 shows 200 foundation fellows prot including Zimbahwa and Tarazania). The literature estimated there were 300 COSECSA foundation fellows. <sup>200</sup> The present number of members and fellows is approximately an approximately support of the present number of t

All COSECSA countries provide at least three MMed surgical programmes that are government funded and taught by the universities. They last ap programmes. Foreign students are also accepted in most countries but sometimes at a training cost higher than for local students.

The increase in surgical hairings as positive step and needs to confirm as many medical students and jurior octors company as a career option. A Kanyan study on 300 medical students showed that surgery was their top career preference. <sup>32</sup> Senitarial however by warp from a surgical standing needs and to record that surgery in the most popular training needs and to record that surgery in the most popular training needs and to record that surgical standing needs and to record that surgical stand

Non-physics dictions programmes in the CORECTA again vary from country to country. The programmes again the CORECTA again vary from country to country. The programmes again to produce a designation of the product in the product in

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As policial lived all Ministries of Health must be encouraged to land supposed in large to programmes and not be seen as a competitor. They must have accompanied by programmes and not be seen as a competitor. They must have a possible by programmes and not be seen as a competitor. They must have a possible by programmes and not be seen as a competitor. They must have a possible by programmes and not be seen as a competitor. They must have a possible by programmes and not be seen as a competitor. They must have a possible by the programmes and not be seen as a competitor. They must have a possible by the programmes and not be seen as a competitor. They must have a possible by programmes and the programmes an When MPC programmes are not established or an resisted, COSECSA must use relation between the process of the programmes are not established or an resisted, COSECSA factor and excitate in the process of the process of

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