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RWANDA-LEGACY OF HOPE MEDICAL REPORT 2014

The **RWANDA-LEGACY OF HOPE MEDICAL MISSION** to Rwandan February 2014 was the largest to date. It was led by Pastor Osee Ntavuka, Legal-Representative of Rwanda-Legacy of Hope (Umurage W'Ibyiringiro) and Mr. Chris Oppong Consultant Surgeon. A UK medical team of 4 teamed up with a team of 13 from Germany, led by Ralph Lorenz Consultant Surgeon. We were attracted back to Rwanda by the burden of need, but also by the legendary warm welcome which awaits volunteers and visitors. Operation Hernia provided most of the UK and Germany teams. This year we had a solo Plastic Surgeon who works in the UK.

RWANDA-LEGACY OF HOPE MEDICAL TEAM FEBRUARY 2014



Dr Chris Oppong (Surgeon)
Dr. Ralph Lorenz (Surgeon)
Dr. Oliver Stumpf (Surgeon)
Dr. Michael Wolfgang Payne (Plastic Surgeon)
Dr. Christine Kosch (Surgeon)
Dr. Petra Wölkerling (Anaesthetist)
Dr. Karl Spitzer (Surgeon)
Dr. Jens Heidel (Surgeon)
Dr. Maral Miller (Anasthetist)
Dr Eleanor Franziiaska Elizabeth

Sandra Gess (Operating Nurse)
Peggy Grassmann (Operating Nurse)
Calorine Dauksck (Operating Nurse)
Joanna Brettschneider (Anaesthetic Nurse)
Heike Herget (Operating Nurse)
Helena Azevedo Nurse
Volker Jodenschwager Medical technician
repairing and care by anaesthetic machine,
intensive care Monitoring, Defibrillator,
OP-Video-System and other



MINISTRY OF HEALTH
P.O. BOX 84 KIGALI
www.moh.gov.rw

To: Pastor Osee NTAVUKA
Director Manager of All Nations Ministries
Tel/Fax : +44 1752651817
Email: allnations@allnationsministries.info

RE: Official invitation for All Nations Ministries

Dear Pastor,

Subsequent to your successful hernia procedures in Rwanda, We would like to take this opportunity to express our sincere gratitude to All Nations Ministries through its Rwanda Legacy of Hope for its contribution to the healthcare of our population.

We have the pleasure to invite your team of 22 medical personnel to come to Rwanda as per your previous correspondences and work at Remera-Rukoma Hospital to perform plastic surgery, Gahini, Nyamata and Kirinda Hospitals to perform hernia operations from January 30th to February 11th, 2014. This will also be a good opportunity to share information through various lectures and teachings programs with the staff in partnership with the Rwanda Medical and Dental Council.

Following prior correspondences, We would like to inform you that an announcements will be sent to Radio Rwanda in order to ensure high turn up of patients in need. In this regard, hosting hospitals are requested to send announcements using your local Pentecostal and Presbyterian churches under which the hospital operate.

I would like to remind you that the team needs to be registered with the Rwanda Health Professionals Councils since they will also be offering clinical care that is regulated by different Health Professional Councils. This is a prerequisite to acquire a temporary licence to practice in Rwanda by each member of the team who will be offering clinical care.

Sincerely,

Dr. Agnes BINAGWAHO
Minister of Health

Cc:

- Hon. Minister of State in charge of Public Health and Primary Health Care
- Rwanda Health Professionals Councils (All)
- Director of Nyamata, Kirinda, Remera-Rukoma and Kirinda Hospitals

Hospitals

Last year, RWANDA-LEGACY OF HOPE MEDICAL teams worked in 2 mission hospitals: Nyamata and Remera-Rukoma hospitals. This year we worked in 2 additional mission hospitals : Kilinda and Gahini hospitals. The new Hospitals were represented by the Medical Director of the association of Presbyterian and Anglican Hospitals. Nyamata, Kirinda and Gahini hospitals hosted Hernia surgery. Remera-Rukoma hospital hosted hernia surgery and Plastics Surgery. The latter is expansion of the medical programme of RWANDA-LEGACY OF HOPE. Training of local doctor was high priority. This was provided in Kirinda and Gahini hospitals.

Remera-Rukoma Hospital - Kamonyi District Southern



Gahini Hospital- Kayonza District Eastern Province



Kilinda Hospital – Karongi District Western Province



Nyamata Hospital - Bugesera District Eastern Province

Patient Recruitment

This year's recruitment was a massive success, partly due to the vital link between the legacy of hope (RLOH) project and the ministry of health. The publicity for the programme was mounted by the Rwandan Ministry of Health, making the projects work known by radio publicity for all the four hospitals involved.

Rwanda-Legacy of Hope is officially NGO recognised by the Rwandan government **RGB** and operation hernia (OH) is a partner of RLOH. The success of recruitment was in part due to the involvement of Dr Esperance Uwayitu and Director of the Presbyterian Hospitals.

Plastic Surgery Patients



Patients awaiting hernia operation



Travel and Customs

All equipment brought by the teams were cleared for customs by the Ministry of Health because of the official Medical License given to RLOH

MEDICAL EQUIPMENT DONATED BY RWANDA- LEGACY OF HOPE TO REMERA-RUKOMA, NYAMATA,GAHINI AND KILINDA HOSPITAL

The total estimated cost of medical equipment was £39,000

All together 35 boxes (with up to 23 kg/box)

ITEM	QUANTITY	ITEM	QUANTITY
Diathermy Machine	4	Mayo Needle Holder	8
Travers Self Retaining Retractor	8	Surgical Gloves	120 pairs
Suture Scissors Mayo	8	Low Cost Mesh	For 100 cases
McIndoe's Dissecting Scissors	8	Surgical Swabs Large	50
Dissecting Forceps: Toothed	8	Surgical Swabs Large	50
Dissecting Forceps: Non Toothed	8		
Artery Forceps: Mosquitoe	32		
Artery Forceps: Spence Wells	16		
Artery Forceps: Long, Curved	16		

**1. 12 big boxes for 10 Hernia Operations in each case
(Surgical and anaesthetic equipment)**

<i>Material In each box:</i>	<i>Amount In each box:</i>
Gowns sterile for 3 persons 10 each	30
Gloves sterile different sizes for 3 persons 20 each	105
Gloves nonsterile for examination	100
Surgical Drapery sets	10
Drain systems	2
Swabs and compresses	200
Surgical blades	12
Surgical sutures different sizes	50
Surgical meshes different sizes and types	10
Laparotomy sponges	20
Plaster sterile	25
Bandages sterile and non-sterile 10 each	20

2. 6 Boxes for Anaesthesia for (23kg each)

<i>Material In each box:</i>	<i>Amount In each box:</i>
<i>Laryngeal masks for Anesthesia</i>	20
Intubation tubes	10
Anaesthetic systems	2
Bacterial filters	20
Infusions Systems with connectors and adapters	30
Intravenous lines with plaster different sizes	25
ECG electrode pads	50
Syringes	100
Cannulas	20
Minispikes	10
Intravenous pain killer	50
Physiological salt solution 0.9%	5
Skin disinfection	4 x 1l , 1 x 250ml 3 x 100 ml
Local anesthesia	10 x 20 ml
Antibiotics Cefalosporine	25 Amp
Sedation for Anaesthesia Propofol 2%	10 x 50 ml
Sedation for Anaesthesia Propofol 1%	5 x 100ml
Antiemetics	5 Amp
Corticoids	2 Amp
Antibiotic tablets	25
Pain killer tablets	50

3. 3 boxes for additional surgical requirements for each hospital one (23kg)

<i>Material in each box</i>	<i>Amount in each box</i>
Different surgical meshes	12
Different surgical sutures	6 x 36
Sterile stripes	2 x 50
Drains large	3
Surgical blades	2 x 100
Wound dressings	20
Plaster large sizes	200
Drains	15
Tamponade hemostyptical	20

4. 2 boxes for 2 diathermy machines with spare and wear parts and pencils and pads and one monitor for Kilinda hospital (20-23kg each)

Erbotom T 400 with bipolare Generator (Best. Nr. 10103-000) (netto 15,5kg)	2
Monopolare electric cable for pencils	
Pencils (Elektrodengriff mit 2 Tasten (20190-048)	20
Pencils (Elektrodengriff o. Taste mit Kabel	22
Bipolare Pencils	1
2-Pedal foot-operated switch (20189-009)	5
Silikon NE (20193-008)	3
Electric cables	2
Monopolare Elektrode pads	2
Diverse spear and wear parts	
Monitor Hellige, Eagle 3000	2
Cast Scotchcast	10 a 7,5 cm
<i>Surgical Instruments</i>	<i>Amount in each box</i>
Surgical blade holders	10
Surgical retractors diverse	20
Surgical forceps anatomical, vascular and surgical	30
Surgical scissors diverse	20
Surgical serrefines diverse	20
Kidney basins	6
Surgical acutenaculums	10
Surgical clamps	10



MEDICAL EQUIPMENT DONATED BY RWANDA- LEGACY OF HOPE TO REMERA-RUKOMA, NYAMATA,GAHINI AND KILINDA HOSPITAL



Medical Registration

RWANDA-LEGACY OF HOPE MEDICAL team has been officially registered with the Rwanda Medical Council (RMC). We are grateful to Pastor Osee through whose efforts. This includes registration as Continuing Professional Development (CPD) providers. This is an invaluable platform on which to expand the work of RWANDA-LEGACY OF HOPE MEDICAL team in Rwanda.

RWANDA MEDICAL AND DENTAL
COUNCIL

BP: 7496 KIGALI



ORDRE DES MEDECINS ET DES
DENTISTES DU RWANDA

Email: info@rmdc.rw

Website: www.rmdc.rw

RWANDA MEDICAL AND DENTAL COUNCIL - ORDRE DES MEDECINS ET DES DENTISTES DU RWANDA

Certificate of Registration as a CPD Provider

CPD Provider No: R0078/2014

RWANDA LEGACY OF HOPE

Address: **RWANDA-KIGALI**

Town/City: **KIGALI CITY**

www.rwandalegacyofhope

Has been accredited as CPD provider under the provisions of the Rwanda Medical and Dental Council

Dated this 30 day of JANUARY 2014

Chairman
Rwanda Medical and Dental Council



Chairman
CPD Program Coordination Committee



Accommodation

The teams stayed overnight in Kigali, the capital. Accommodation in Kigali was in a hotel. During the week, all volunteers were accommodated by the hospitals and provided subsistence.



Training of Local Doctors

This training programme was registered by the Rwandan Medical Council for CPD points. A total of 13 local doctors received training in 2 hospitals. All but one of the doctors had skills in hernia surgery. The training programme included formal teaching on anatomy and the essentials of mesh repair. This was delivered by PowerPoint. Trainees then had hands-on training –

Assisting Operation hernia (OH) surgeons

Assisted to insert mesh in at least 2 cases.

A few had opportunity to do more cases.

At Gahini hospital, trainees were presented with Certificates to recognise their attendance at the training sessions. 5 Doctors adjudged to be competent at the end of the 5 days were given Mesh to use in their hospitals. All the cases they do will be documented for review when the team visits in 2015



Hernia Operation and training of local doctors



Plastic Surgery Operation Remera-Rukoma



Testimonies 2days after operation



CLINICAL OUTCOME

A grand total of **163 operations** were performed in all 4 hospitals.

A total of **134 cases of hernias and hydrocoeles** were performed in all centres. **29 Plastic Surgery operations** were performed at Remera Hospital.

HOSPITAL	NO OF CASES	NO OF CHILDREN <12YRS	% OF CHILDREN <12 YRS
GAHINI	43	9	21%
REMERA	40	10	23%
NYAMATA	35	10	29%
KIRINDI	45	10	22%
TOTAL	163	39	23.5%

COMPLICATIONS

There were 3 complications recorded.

COMPLICATION	HOSPITAL	TREATMENT	OUTCOME
1. <i>Bronchospasm</i>	Remera	Transfer to King Faisal Hospital	Discharged from Hospital
2. <i>Bronchospasm</i>	Gahini	Treated successfully	Discharged. Well
3. <i>Vascular Injury</i>	Gahini	Successful Control Transfer to Kigali Teaching Hospital	Discharged. Well

Clinical Details and Management of Complications

COMPLICATION IN CYUSA BRAVE (Bronchospasm)

This was a child under 5 years of age who underwent a Plastic Surgery operation at Remera Hospital. Both the Surgeon and Anaesthetist were experienced Consultants. The child developed Bronchospasm. This is a known complication of general anaesthetic. The child was treated satisfactorily in theatre at Remera Hospital. Because of the child's age, transfer to an acute care hospital was advisable. The child was therefore transferred to critical care unit at King Faisal in the hospital ambulance.

Other Complications

Bronchospasm: in a 5 year old boy which was successfully treated. The cause of the complication was unclear. He was successfully managed and discharged the following day. Anaesthetic was delivered by a local nurse anaesthetist.

Vascular Injury: The surgeon was a local doctor at Gahini Hospital who is a hernia surgeon. The Ext Iliac / Femoral Vein was interrupted. The supervising Consultant Surgeon successfully obtained control by both supra and infra-inguinal approach. The patient was transferred to the Kigali Teaching hospital. There was no arterial involvement. Patient is well and has been discharged.

Change of policy.

Because of the complication in the 5 year old, it was decided at Gahini hospital to postpone surgery in all children under 9 to 2015 when hopefully a consultant anaesthetist would be part of the team.

Technical support

Technical support and vital servicing and maintenance work on medical equipment and operating theatre machines in the hospitals, where the teams were based, was expertly provided by Medical Technician, Volker Jodenschwager, a volunteer from Germany. Rwanda -Legacy of Hope would like to acknowledge the provision of this service with grateful thanks.

Acknowledgement

1.It is appropriate to acknowledge the sacrifice of all the medical volunteers for sacrificing financial resources, annual leave and other resources to provide the people of Rwanda such excellent care.

2. The Medical Team would like to express sincere thanks to the following stakeholders.

Minister of Health Honourable Dr Agnes BINAGWAHO

Rwanda High Commission UK

Ministry of Health officials

President of Rwanda Medical Council Dr Emille RWAMASIRABO

All Medical Directors

Staff of all hospitals

Rev. Dr Elisée MUSEMAKWELI President of the Presbyterian Church

Dr Esperance, Medical Director of Association of Presbyterian Church

Future Plan

RWANDA LEGACY OF HOPE will continue to cooperate with the RWANDA MINISTRY OF HEALTH to expand the coverage of our care.

The Rwanda Legacy of Hope Plastic Surgery medical team is planning to return to Rwanda in August 2014

The Plastic Surgery, ENT, Orthopaedics, Physiotherapy, Hernia, Trauma Counselling is planning to return to Rwanda in February 2015.

Pastor Osee Ntavuka

Legal-Representative

Rwanda-Legacy of Hope (Umurage W'Ibyiringiro)

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enquiries@rwandalegacyofhope.com

Website: rwandalegacyofhope.com

Chris Oppong

Consultant Surgeon

Medical Director, Rwanda-Legacy of Hope (Umurage w'Ibyiringiro)

Chairman, Operation Hernia