

Otologic training for Subsaharan Africa

Milan Profant

IFOS

IFOS activities

- IFOS World Congress (2013 Seoul, 2017 Paris, 2021 Vancouver)
- IFOS World Congress in subspecializations
 - 2014 Head and Neck IFHNOS Congress New York
 - 2015 Otology, Niigata, Japan
 - 2015 Rhinology, Sao Paulo
 - 2016 Audiology, Vancouver
 - 2018 Head and Neck, IFHNOS Congress Buenos Aires
 - 2018 Audiology, Cape Town

IFOS activities

- IFOS courses
 - 2017 Otology and Temporal Bone Dissection Harare, Zimbabwe
 - 2018 Otology and Temporal Bone Dissection Harare, Zimbabwe
 - 2012 Rhinology and FESS Ho Chi Minh City, Vietnam
 - 2018 Otology and Audiology Lima, Peru
 - 2018 Head and Neck Oncology Cape Town
 - 2019 Otology and Temporal Bone Dissection Harare, Zimbabwe
 - 2019 Rhinology and Otology Dubai
 - 2019 Rhinology and Otology Ho Chi Minh City, Vietnam
- IFOS Educational Material
 - <https://mesh.ifosworld.org/>

IFOS activities

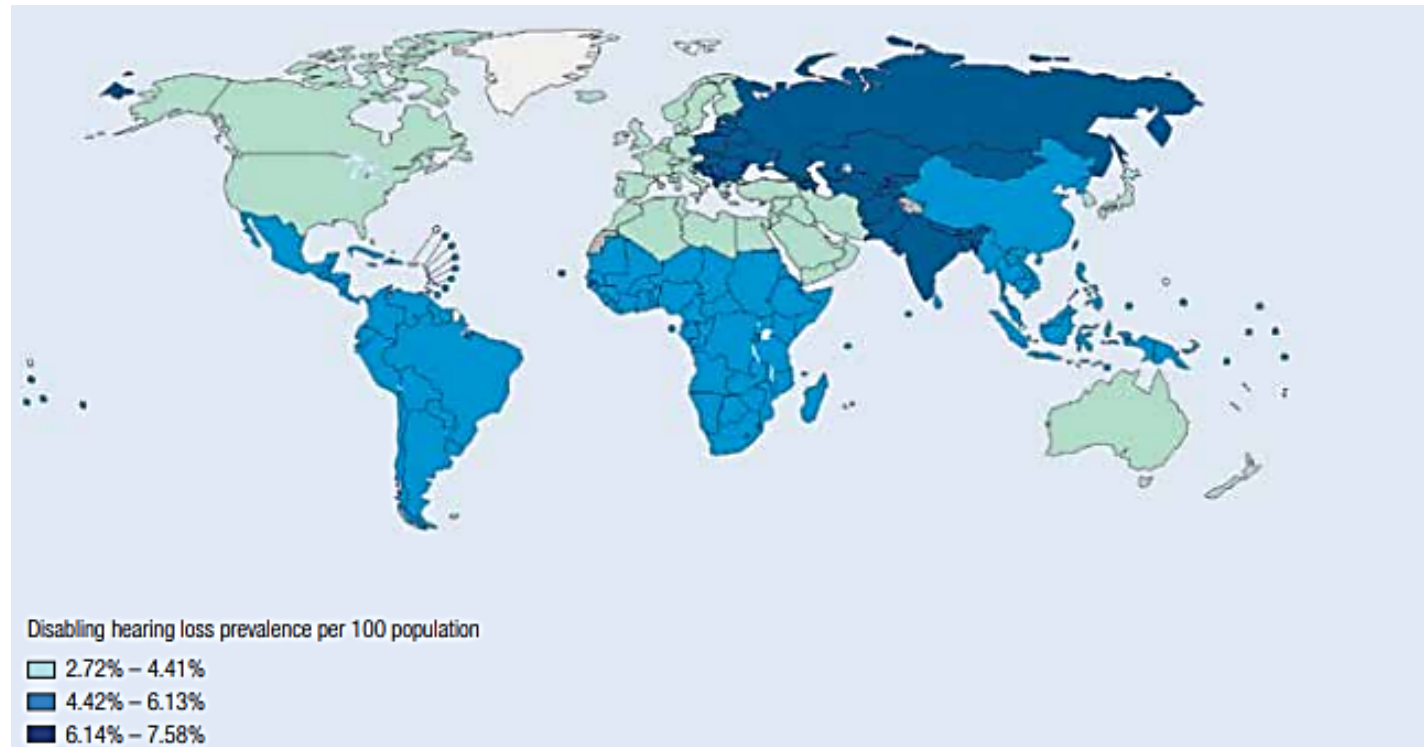
Different regions different needs

- Sub-Saharan Africa
- Central and South America
- South East Oceania
- Central Asia
- Gulf Region
- West South Asia
- Specialization training
- Fellowship training
- Courses
- Study stays
- Number of ENTs in the country
- Specialization of ENTs
- Mobility of trained ENTs
- Impact of training on the Health Care level of rural population
- Language barriers

IFOS activities

Different regions different needs

- Sub-Saharan Africa
- Central and South America
- South East Oceania
- Central Asia
- Gulf Region
- West South Asia



IFOS cannot train the whole world

- IFOS is a Federation of ORL Society
- In each region there is a high level ORL Society with its experts

To sustain the educational activities we have to:

- Train the trainers who continue with training
- Activation of local ENT Society to be helpful in IFOS trainings
- Identify the spots where the training continues

IFOS Outreach Program for Training and Education in ENT Principles

- Long term improvement of health care delivery
- Build and strengthen local training capacity by training trainers/educators
- Establish centres of excellence
 - Clinical
 - Teaching
 - Research
- Benefit hosts, not visiting team members

IFOS Outreach Program for Training and Education in ENT Principles

- Identify areas of need to benefit
- Engage doctors in host country
 - Individuals
 - Universities
 - Hospitals
 - Professional medical societies
- Avoid non-medical people e.g. politicians / church leaders

Otologic surgery training for Sub-Saharan Africa

Identified problems

- Very few ENT specialists (1 per 1.000.000 inhabitants)
- Availability of training courses in otology
- Limited fellowship possibilities (if any)
- Limited technical support
- No tradition, missing teachers
- Too many patients to be operated
- Reimbursement principles
- Compliance

IFOS decided to organize the first Temporal bone dissection course in April 2017 in Harare, Zimbabwe

With support of:

- MEDTRONIC
- ZEISS
- MEDEL
- HARARE UNIVERSITY

Teachers

- Clemence Chidziwa
- Vincent Cousins
- Chris Prescott
- Milan Profant
- James Saunders

Participants

Financial contribution:

MEDTRONIC	10.000USD
MEDEL	11.273,02 €
IFOS	11.285 €

Coverage for participants:

Air ticket
Accommodation
Registration

	Name	Surname	Gender	Nationality
1. 1	Chengetai	Garwe	Female	Zimbabwean
1. 2	Nyasha	Nhamo	Female	Zimbabwean
1. 3	Zororo	Mataruse	Female	Zimbabwean
1. 4	Chris	Prescott	Male	South Africa
1. 5	Wakisa	Mulwafu	Male	Malawi
1. 6	Cisia	Diamande	Female	Mocambique
1. 7	Isaie	Ncogoza	Male	Rwanda
1. 8	Leonard	Bivahagumye	Male	Burundi
1. 9	Clarkson	Bandason	Male	Zimbabwean
1. 10	Ruvimbo	Tatenda	Female	Zimbabwean
1. 11	Martha	Konstantin	Female	Namibia
1. 12	Masiye	Mlambo	Male	Zimbabwe
1. 13	Racheal	Chibanga	Female	Zambia
1. 14	Alakanani	Zikhali	Male	Botswana
1. 15	Shaban	Mawala	Male	Tanzania
1. 16	Caroline	Nyenza	Female	Zimbabwean
1. 17	Eunice	Chisanya	Female	Zimbabwean
1. 18	Luxmore	Rwizi	Male	Zimbabwean
1. 19	Cameline	Nyamarebvu	Female	Zimbabwean
1. 20	Buhle	Hlomani	Female	Zimbabwean
1. 21	Memory	Bara	Female	Zimbabwean
1. 22	Emmah	Nyakabau	Female	Zimbabwean
1. 23	Augustine	Madimutsa	Male	Zimbabwean
1. 24	Charles	Tumushime	Male	Zimbabwean
1. 25	Naboth	Matinhira	Male	Zimbabwean
1. 26	Priscilla	Zimani	Female	Zimbabwean
1. 27	Magangara	Vengesai	Male	Zimbabwean
1. 28	Erasmus	Muganda	Male	Zimbabwean
1. 29	Pelagia	Gwese	Female	Zimbabwean
1. 30	Titus	Dzongodza	Male	Zimbabwean

Temporal Bone Dissection course 1

Outcomes

- Very positive evaluation by participants
- Participants were asked to evaluate development of ENT and especially otologic care in their countries after the course
- Further education and training to become the teachers for other ENT specialists
- The Temporal bone dissection course 2 has been scheduled for April 2018

Temporal Bone Dissection course 2

Harare, Zimbabwe, 25th to 27th April 2018

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- ZEISS
- MEDEL
- HARARE UNIVERSITY

Teachers

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Different economical conditions

- No reimbursement for Air ticket
- No reimbursement for accommodation
- Registration free

- Majority of participants from 2017 accepted new condition for 2018 course

- Grant from Medtronic 15.000USD



Rwanda

- 13 million
- 13 ENT surgeons
 - 10 in Referral hospitals
 - 3 IN Private Hospitals
- Growing ENT Residency Program (8 graduates in last 3 years)
- 4 referral/Teaching Hospitals
- From UTHK-→only 2 doing ear surgeries



Ear surgeries (last 12 months)

- ~760 ENT surgeries (elective/emergencies)
- ~72 ear surgeries
 - 50(68.5%) tympanoplasties
 - 17(23.3%) mastoidectomies
 - 5(1.4%) myringotomy+/- VT insertion
- Majority of mastoidectomies → Complications

Training

- **Problems:**

- Only 2/10 ENT surgeons-capable
- The most experienced left for another position
- Hospitals with ENT surgeons
→ No Hands on/equipment
- Residents → no facilities for training on ear surgery

- ▶ **Solutions:**

- Temporal Bone dissection /IFOS-UZ
- Partners
- Provide equipment to the other r.hospitals
- Temporal bone lab in Kigali

Tanzania

Total population 55 million people

35 ENT surgeons

- Before IFOS TB workshop APRI/2017
- 5 Tympanoplasties
- 1 mastoidectomy with complication
FN palsy

- After IFOS TB workshop
- 20 tympanoplasties
- 5 tympanomastoidectomies
- 2 revision mastoidectomies
- 3 modified radical mastoidectomies



Conclusions

- IFOS activities have positive reflexions in ENT world population
- IFOS training and courses worldwide are organized on the bilateral partnership:
 - Mutual respect
 - Shared values
 - Shared aspirations
 - Best practice
 - Avoiding culture of dependence
 - Durable, sustainable impact
 - Different needs in different regions