### **Facilitators Report**

# Joint WHO Meetings with Ministry of Health on Strengthening Emergency and Essential Surgical Care in Nepal

## 9-12 November, 2004 Kathmandu, Nepal



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#### 1. Executive summary

Joint WHO with Ministry of Health (MoH) meetings were held in Kathmandu for collaborating trainings for strengthening capacities of health personnel on *Emergency and Essential Surgical Care* (EESC) at resource limited health facilities and introduce the use of WHO *IMEESC* toolkit in the training courses in surgery, trauma and anaesthesia towards a standard training

This was followed by meetings with members of the professional societies and universities for implementation of best practice protocols in the training programmes on surgery, trauma, emergency, obstetrics, anaesthesia and HIV, and transplantation programme in Nepal. There were 50 participants representing policy makers from MoH and health providers (directors from district, zonal and regional and teaching hospitals, medical and nursing school, surgeons, directors of emergency and disaster management, nursing, medical laboratory and quality assurance departments, obstetricians and anaesthesiologists). The WHO project on *EESC* was introduced and discussions were held with the purpose of identifying target audience, logistics and planning of Training of Trainers (TOT) workshop in 2005. Meetings were held with focal persons in the MoH, and with directors of international partners representing Japan International

Cooperation Agency (JICA), German Development Cooperation (GTZ), World Bank and Medicins Sans Frontier (MSF) for collaborations on building capacities.

Field visits were undertaken to rural healthcare facilities (district hospital and primary health care centres) and tertiary hospital. The meetings held with directors of departments of surgery, neurosurgery, trauma, emergency care, anaesthesia, laboratory and nursing. Participants of the meeting included the



'Renal Transplant committee' established at Bir Hospital, which will be the first Government Hospital to start a renal transplant programme in Nepal.

Discussions were held on the existing Medical General Practitioners programme (MDGP) in Nepal which includes anaesthesia training for general practitioners and health workers from district hospitals. The utility of WHO *Integrated Management of Emergency and Essential Surgical Care (IMEESC)* training toolkit was demonstrated to anaesthesiologists, surgeons and nurses for incorporation in hospital training programme and medical education.

The meeting led to a consensus by MoH and WHO country office for planning a needs assessment and training of health personnel in emergency and essential surgical and anaesthesia procedures with linked equipment towards reducing death and disability in trauma, disaster, pregnancy related complications particularly in women and children.





#### 2. Background

Nepal is a landlocked Himalayan Kingdom with a total population of 27,133,000. The

infectious diseases, maternal and perinatal disorders, and nutritional deficiencies are responsible for more than two thirds of the disease burden (68%) in Nepal. Degenerative and noncommunicable diseases contributed to about a fifth of the estimated burden (23%), and injuries and accidents contributed the remaining (9%). In addition there are important newly emerging and re-emerging diseases: malaria, kala-azar, Japanese encephalitis, tuberculosis and HIV/AIDS. The highest risk groups are children under five, particularly females, and women of reproductive age. In case of adult males (15-44 years),



tuberculosis, accidental falls, ARI and motor vehicle accidents were the leading causes contributing the burden of disease for that age group. The high burden due to maternal and perinatal disorders emphasizes the need for effective reproductive health programme, especially in the remote areas.

In Nepal the major equity issues relate to gender, age, caste, ethnic group, income and area of residence. Total number of physicians are 5,384 with a density of 0.21 per 1 000 population. The issues which adversely affect the ability for the health sector to effectively address the equity include: inadequate staff motivation; deployment and retention problems; over-centralization and a resulting lack of responsiveness to local needs; inequity in service provision and



health outcomes; insufficient community involvement in planning, implementation and supervision of service delivery

The health policy framework for health sector development set out in the Second Long-term

Health Plan (SLTHP). The main policy in the SLTHP focused on the provision of an "Essential Health Care Services Package (EHCP)". This package consists of priority public health measures and essential health care services for the management of common illnesses and injuries.

The current Ninth Medium-term Plan calls for high priority to be given to the availability of the EHCP at the district level and below, and expanding the system of health



facilities and strengthening the referral system. Reproductive health and family planning programmes will be strengthened to reduce the maternal and child mortality and morbidity. A master plan covering human resources, equipment, medical instruments will be developed to support the ongoing health programmes. Participation of the private and NGO sectors will be encouraged and mobilized particularly in the provision of specialized services. <sup>1,2</sup>

#### 3. Objectives

- Visits to teaching and district hospitals for the proposed surgical training program

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<sup>1</sup> http://www.who.int/countries/en/cooperation strategy npl en.pdf

<sup>&</sup>lt;sup>2</sup> http://www.who.int/countries/npl/en/

- Meetings with policy makers, key health providers and stakeholders to support training for strengthening capacities of health personnel on EESC at resource limited health facilities.
- Introduce and facilitate the use of WHO IMEESC toolkit in the training courses in surgery, trauma and anaesthesia towards a standard training
- Collaborating with partners in Nepal for obtaining their support in the training courses on EESC.

#### 4. Field visits for a Situation Analysis

Field visits were made by the team (WHO, WCO, MoH) to the following health facilities:

- National Academy of Medical Sciences (NAMS)
- National Public Health lab (NPHL), Teku
- Patan Hospital (DH),
- Bhaktapur Hospital and Dadikot PHC
- Bir Hospital
- Kanti Children's Hospital, Collaborating Centre for Child Health

### 5. Meetings at Ministry of Health, Nepal

Meetings were held with focal points in MoH, Dr MK Malla, (Chief specialist, Policy, Planning and International Cooperation Division) and Dr. B.D. Chataut, (Director-General of Health Services).



#### 6. Meetings at the WHO Country Office, Katmandu, Nepal

Meeting was held with Dr Lin Aung, WHO country Office to brief on the field visits and meetings with policy makers, health personals and partners.

#### 7. Meeting discussions

Discussions with policy makers, directors and staff of the health facilities addressed the following issues:

- Access to basic surgical interventions is needed to save lives in many life threatening conditions (injuries, infections, pregnancy related complications, disasters) therefore, gaining attention as a public health issue. WHO is addressing this through the project EESC at resource limited health care facilities.
- The *EESC* project uses a horizontal approach to improve access to basic care at primary health care facilities.
- Capacity building for the health providers and policy makers by introducing the WHO IMEESC tool kit comprising of comprehensive policy guidelines, needs assessment, essential emergency equipment list, training curriculum, best practices and training
- Incorporation of the WHO IMEESC tool in the wider surgical programs of Nepal for management of trauma, obstetrics emergencies, anesthesia and disasters in medical and nursing schools, and continuing medical education and training programs.
- Experience of the Patan hospital with the existing Medical General Practitioners programme (MDGP) in Nepal which includes anaesthesia training for general

- practitioners and health workers from district hospitals will be useful in the proposed trainings.
- The utility of WHO IMEESC training tools was demonstrated and seen as important in policy decisions and day to day practice by anaesthesiologists, surgeons and nurses for eventual incorporation in hospital training programme.

#### 8. Recommendations and action plan

- Preparation of a Joint report of the meetings for dissemination to participants, partners (local and international) including putting on the WHO website.
- Wider dissemination of the WHO training materials and in particular to each of the district and teaching hospitals in the 2 regions identified by MoH and WHO country office.
- Preparation of joint project proposal with WHO country office and MoH for strengthening surgical (including anaesthesia) training in Nepal.
- Collaborations to incorporate the WHO *IMEESC* toolkit in the surgical and anaesthesia training programs in Nepal.
- Share project plans, WHO *IMEESC* toolkit with WHO partners in Nepal (JICA,GTZ,DIFD,MSF)
- To establish a "Working Group" for planning training workshops in Nepal

#### 9. Conclusions

This meeting identified the need for the proposed surgical training program and areas requiring strengthening capacities at primary health care facilities for access to basic surgical care. The WHO training materials on emergency and essential surgical procedures and equipment will be incorporated in the training and education programmes in Nepal. GTZ will collaborate for needs assessment and training of trainers programme in Nepal and JICA expressed interest to attend the training workshop in Nepal in 2005.

#### 10. Acknowledgements

- Directors and staff of the Health facilities visited
- MoH, Nepal
- Japan International Cooperation Agency (JICA),
- German Development Cooperation (GTZ),
- Medecins Sans Frontier (MSF)
- WR of WHO Country Office Nepal
- WHO/SEARO
- Departments of Essential Health Technologies, Evidence and Information for Policy (Patient Safety), Making Pregnancy Safer, Violence and Injury Prevention, Child and Adolescent Health, WHO HQ, Geneva, Switzerland



#### Annexe 1. List of participants of the Meeting

Dr B.D. Chataut,

Director-General of Health Services, Department of Health Services Ministry of Health, Nepal

Dr M.K Malla, Chief specialist,

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Division,

Ministry of Health, Nepal

Mr Bal Krishna Khukerela Ministry of Health, Nepal

Dr H.N Acharya

Policy Planning & International Cooperation Division

Ministry of Health, Nepal

Dr Meera Ojha

Sr. Consultant Obstetrician and Gynaecologist

Medicare National Hospital and Research Centre

Nepal

Dr. Chandrika Devi Shrestha

Chief Consultant Bir Hospital (NAMS)

Nepal

Dr. ML Shreshtha,

Chief Consultant Surgeon,

National Academy of Medical Sciences,

Bir Hospital Nepal

Dr. Yang, Seung Bong,

General Surgeon,

Patan hospital

Nepal

Dr. Samson Retnaraj,

Chief of Anaesthesia,

Patan Hospital

Nepal

Dr KN Joshi,

Consultant Surgeon & Head of Surgical Discipline

Narayni Sub-Regional Hospital

Nepal

Dr Mark D. Zimmerman,

Medical Director

Patan Hospital

Dr Hom Neupane,

Consultant Physician and Chief of Medicine,

Patan Hospital

Nepal

Dr Seung Bong Yang

General Surgeon

Patan Hospital

Nepal

Dr DP Pokhrel,

Chief Consultant

Medical Suprintendent

National Academy of Medical Sciences,

Bir Hospital

Nepal

Ms P Guragain

Advocate

Supreme Court of Nepal

Advisor in Renal Transplant Program

Bir Hospital

Nepal

Dr GR Bajracharya

Chief Consultant Anesthesiologists

Director

Kanti Children's Hospital

Nepal

Dr RP Chaudhary

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Obstetrician and Gynaecologist

Maternity Home

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Dr U.P Devkota

Chief Consultant Neurosurgeon

National Neurosurgical Referral Centre

Bir Hospital

Nepal

Dr I.P Prajapati

Obstetrician and Gynaecologist

Bhaktpur Hospital

Nepal

Dr AD Bhatta

Consultant surgeon urologist

Head Urology Unit

Bir Hospital Nepal

Dr. Bhakta Raj Dahal, Nepal

Dr. Ranjan P Singh Chief Consultant Physician, Dept. of Medicine HMG MoH National Academy of Medical Sciences, Bir Hospital Nepal

Dr BD Jha Department of Anesthesia and Intensive Care NAMS, Bir Hospital Nepal

Mr. Kei Umetsu, Assistant Resident Representative Health Sector Official, JICA Nepal

Mr Jhabindra Bhandari Programme Officer JICA, Nepal office

Mr. Clerc Phillipe, Country Director, Medecins Sans Frontier Nepal

Dr Siad fliti Medical Co-ordinator Medecins Sans Frontier Nepal

Mr. Ramji Dhakal, Deputy Programme Manager, Health Sector Support programme, GTZ Nepal

Dr Pitamber Dhungana Training coordinator Health sector CoSupport Programme GTZ Nepal

Dr Angelika Schrettenbruner, Director, GTZ Nepal

#### **WHO**

Dr Klaus Wagner, WHO Representative, WHO Country Office, Nepal Dr. Dr Lin Aung, Health Planner WHO Country Office, Nepal

Dr Harry Feirman, Technical officer (health planner), WHO Country Office, Nepal Dr Paramita Sudharto, Public Health Administrator, WHO Country Office, Nepal

Dr U Tin Shwe, Short term consultant, Leprosy elimination, WHO Country Office, Nepal

Dr Shailash K Upadhayay, National Liaison Officer, WHO Country Office, Nepal

Dr Shamsul Huda Adviser Environmental Health Ministry of Physical Planning & works WHO country office Nepal

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#### Annex 2: Program Agenda

- Visits to teaching and district hospitals in Nepal for a Situation analysis
- WHO Meetings with directors of teaching and district hospital in Kathmandu regions
- Introduce and facilitate the use of WHO *IMEESC* tool kit
- Discussions
- Collaborative approach to surgical training on EESC procedures and linked equipment
- Recommendations and follow up action plan
- Conclusions of meetings and visits

Annexe3: WHO training tools for improving skills of health personnel Needs Assessment and Evaluation Form for Resource Limited Health Care Facility \*At an entry point in any health facility such as:

Emergency room/ Admission room / Treatment room/ Casualty room

Name/Address of Health Care Facility

Country

Country Type of Health Care Facility (please check one)
Primary or First referral level facility/ District Hospital/Rural Hospital
Health Centre Country 3. **Human Resources** in emergency room (please indicate number of health staff) Nurses \_\_\_ Clinical or Health officers Technicians Paramedical staff 4. Physical Resource (a) Infrastructure Yes No • Is there an area or room designated for emergency care? Is there running water? If yes: Interrupted / Uninterrupted (please circle one) • Is there an electricity source? If yes: Interrupted / Uninterrupted (please circle one) (b) Equipment Yes <u>No</u> Is a list of essential emergency care equipment available? Is following available Oxygen Cylinder: Interrupted /Uninterrupted (please circle one) Oxygen Concentrator: Interrupted /Uninterrupted (please circle one) Equipment for oxygen administration available (tubes, masks) Essential Emergency (EE) Equipment Yes, in some Yes, in all No equipment equipment • Are the EE equipment in working order? • Is there access to repair if equipment fails? П • Is there access to repair within the health care facility? Is there an agreement for the maintenance of the equipment with the supplier?

Do the health care staff in the emergency room get training in the use of the equipment? Is information available on supply, repair, and spare parts for the equipment? Quality, safety, access and use Yes, in some Yes, in all No procedures procedures Are the best practice protocols for management of essential emergency procedures available? Are the protocols for safe appropriate use of equipment in essential emergency procedures available? • How often is 'room to room inspection' performed to ensure that EE equipment and supplies required for the essential emergency procedures are available and functioning? (please circle one) Daily / weekly / monthly / 6-monthly / yearly / once in vears / never

	Yes	No	
• Are the information, education and training materials on emergency procedures and equipment available in the emergency room for health care staff use?			
<ul> <li>Are there introductions of any new procedures/interventions?</li> <li>If yes, which procedure/intervention: (please specify)</li> </ul>			
• Has referral to other health facility decreased because of skills and knowledge of procedures and intervention?			
Are records maintained?			
6. Policy			

	Yes	No
• Is there a policy to promote training for health care staff in the essential emergency management of trauma, obstetric care and anaesthesia?		
• Is there a policy to update the protocols for the emergency management of trauma and obstetric care adapted to local needs?		
• Are there any guidelines on donation, procurement, and maintenance of all EE equipment?		
Is there a list of extra health personnel to be contacted in disaster situations?		

For guidance use WHO generic list of Essential Emergency Equipment
Department of Essential Health Technologies
World Health Organization, 20 Avenue Appia, 1211, Geneva 27, Switzerland
Fax: 41 22 791 4836 Internet: www.who.int/surgery

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WHO Generic Essential Emergency Equipment List
This checklist of essential emergency equipment for resuscitation describes minimum requirements for emergency and essential surgical care at the first referral health facility

Resuscitator bay valve and mask (paulative)  Oxygen source (cylinder or concentrator)  Mask and Tubings to connect to oxygen supply  Light source to ensure visibility (lamp and flash light)  Stethoscope  Stethoscope  Stethoscope  Stethoscope  Stethoscope  Stethoscope  Suction pump (manual or electric)  Blood pressure measuring equipment  Thermometer  Scalpel #3 handle with #10.11.5 blade  Scalpel #4 handle with #2 blade  Sciesors straight 1.2 cm  Sciesors straight 1.2 cm  Sciesors blant 1.4 cm  Orephanyengel airway (nucluitistic)  Pour (nucluitistic)  Orephanyengel airway (nucluitistic)  Orephany	Date checked	Quantity	Resuscitator bag valve and mask (adult) Resuscitator bag valve and mask (paediatric) Oxygen source (cylinder or concentrator) Mask and Tubings to connect to oxygen supply
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Best practice guidelines for emergency care			Soap
	1		
Supplementary equipment for use by skilled health professionals  Laryngoscope handle			Supplementary equipment for use by skilled health professionals  Laryngoscope handle
Laryngoscope Macintosh blades (adult)	†		
Laryngoscope Macintosh blades (paediatric)	1		
IV infusor bag			IV infusor bag
Magills Forceps (adult)			
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Stylet for Intubation Spare bulbs and batteries for laryngoscope	1		_ <del>-</del>
Endotrachael tubes cuffed (# 5.5 to 9)	1		
Endotrachael tubes uncuffed (# 3.0 to 5.0)	†		
			Chest tubes insertion equipment
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#### This list was compiled from the following WHO resources:

WHO training manual: Surgical Care at the District Hospital
WHO Emergency Relief Items, Compendium of Basic Specifications\*
WHO/UNFPA Essential drugs and other commodities for reproductive health services.
WHO Essential Trauma Care Guidelines
\* For specifications refer to this book

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