

# NEPAL CRITICAL CARE DEVELOPMENT FOUNDATION

Maharajgunj, Kathmandu  
01-4372344, info@nccdfnepal.org



Ref no.: 016/05/27/259

Date: 2016/05/29

Dr. Jyoti Bhattarai  
President  
America Nepal Medical Foundation (ANMF)  
Kathmandu  
Nepal

Dear Dr. Jyoti,

Thank you for the opportunity to be considered for support by the America Nepal Medical Foundation (ANMF).

In the four short years since its establishment, the Nepal Critical Care Development (NCCDF) has played a major role in development of critical care medicine and helping upgrade the intensive care services in Nepal. The 'Basic Assessment and Support in Intensive Care (BASIC) for Nurses' training program aims to give new intensive care nurses the knowledge and skills needed to safely look after the critically ill patient. The first of such training being conducted in Nepal by the foundation focusses on developing and improving the care at intensive care units. The two-day training module includes theory and skill stations.

A number of manikins are used in the skill stations namely Wide Body CPR, Airway Management and Defibrillation Manikins. The unavailability of such manikins has hindered the planned sessions of trainings at rural parts of the country. In the past, we relied on support from Department of Anaesthesia at Tribhuvan University Teaching Hospital for letting us use their manikins.

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The foundation is requesting NRs. 6,09,000 (Six Lakhs and Nine Thousand Rupees only) from the America Nepal Medical Foundation to procure the manikins. A contribution from the ANMF will enable us to conduct BASIC for Nurses at different parts of the country.

We believe that you will find it in your hearts and budget to support our request. If I can provide additional information to encourage consideration of our request, please feel free to contact me at 9841-449922.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Nipesh Acharya'.

Nipesh Acharya

Executive Director

Enclosure: Program Funding Proposal

**REQUESTING SUPPORT  
TO  
PROCURE MANIKINS  
FOR  
'BASIC FOR NURSES'  
TRAINING**

## **EXECUTIVE SUMMARY**

The BASIC for Nurses trainings being conducted by Nepal Critical Care Development Foundation aims to give the new ICU nurses the knowledge and skill needed to safely look after the critically ill patient in the intensive care. The requirement of the manikins in the skill stations during the training and its unavailability with the foundation has limited the number of training sessions being conducted. The availability of manikins will enable the foundation to conduct training sessions around the country.

## **❖ INTRODUCTION**

Nursing in Nepal has been one of the major choices of female science students of plus 2 and also SLC passed students. In recent years statistics show that nursing education is the next big thing and the heart-throb of female students. Many students willing to get their hands on into the field of Medicine and healthcare are attracted to studying nursing in Nepal. Nursing study is easily accessible, widely spread and heavily on demand with the rise of healthcare industry in the country. Although the quality of education and training received is questionable.

The exposure of intensive care setting during the nursing education in Nepal is almost nonexistence. Most of the times, nurses visiting the ICU for the first time are lost and have no idea what is happening. The BASIC for Nurses Training bridges that gap of knowledge and exposure to critical care setting. The training involves presentations and practical demonstration skill stations.

Basic Assessment and Support in Intensive Care (BASIC) for Nurses is the course formulated by The Department of Anesthesia & Intensive Care at The Chinese University of Hong Kong. BASIC for Nurses aims to give the new ICU nurse the knowledge and skills needed to safely look after the critically ill patient. Nepal Critical Care Development Foundation (NCCDF) has trained a

set of instructor nurses to conduct the training in Nepal, and the foundation holds the right to conduct BASIC trainings in Nepal.

Nepal Critical Care Development Foundation (NCCDF), since, its establishment has been active in developing critical care medicine and ICU services in Nepal. The foundation emphasizes on the need to develop critical care nursing for the development of critical care field in the country and thus focuses on education part. The foundation has successfully conducted three sessions of BASIC for Nurses trainings in Kathmandu, Chitwan and Dhulikhel. So far 108 nurses have benefited from the training. The training has been conducted at tertiary medical centers because of the requirement of manikins in the skill stations, and its unavailability has restricted us from conducting sessions at the other parts of the country. The expensive nature of such manikins has hindered the training sessions. The foundation seeks support from your organization for procurement of the manikins needed for trainings.

### ❖ **SIMULATION IN BASIC TRAINING:**

Simulation is well recognized and increasingly commonplace education tool for healthcare professionals. Advances in technology have led to a wide variety of training methods, utilizing equipment ranging from low-fidelity models for skill practice to the high fidelity manikins used in simulation centers for scenario based learning. The Skills Stations on the second day of training focuses on use of manikins to enhance realism and validity, improve working relationships, and decrease the anxiety that some practitioners associate with traditional training. So simulation is important in BASIC training to improve performance of technical and non-technical skills.

#### **1. Wide Body CPR Manikin:**

The Wide Body CPR/Trauma Training Manikin can be used for demonstrating and teaching proper CPR and first aid techniques. The features of this manikin include resiliency and

weight of a (small) human body for realistic practice in transport-rescue and lifesaving procedures.

The lifelike anatomical landmarks include: a chest with sternum, ribcage, and sub-sternal notch with natural resistance to chest compressions. The airway ball valve allows the lungs to inflate only with the head extended and accurately positioned.

**2. Airway Management/ Intubation Mannequin:**

Lifelike upper torso and head simulate real-world complications when practicing a variety of intubation, ventilation, and suction techniques. This manikin allows practice of tracheal, pharyngeal and esophageal intubation, oral or nasal. Permits realistic manual maneuvers to open the airway. It is suitable for practicing bag-valve tube/mask ventilation. It is used in practical training in clearing an obstructed airway and suctioning liquid foreign matter and also provides visual inspection of lung expansion and auscultation of breath sounds.

**3. Defibrillation Mannequin/ ACLS Mannequin:**

This manikin is useful in demonstration and practice of defibrillation which functions with manual, semiautomatic, and automatic defibrillators. The arrhythmia/pacing simulator recreates 17 adult heart rhythms and 17 pediatric rhythms. With an external pacer, this can simulate electronic capture. It is also possible to simulate cardioversion with manual, semiautomatic, or automatic defibrillation. The manikin comes complete with load box, arrhythmia simulator box, CPR Adam manikin with defibrillation skin, 10 disposable lung/airway systems, 10 mouth/nosepieces, and a soft carry case.

## ❖ FINANCIALS:

The quotation of the required manikins:

No.	Manikins	Quantity	Price (NRs.)
1.	Wide Body CPR Manikin	1	3,57,000
2.	Airway Management/Intubation Manikin	1	1,28,500
3.	Defibrillation Manikin/ACLS Manikin	1	1,23,500
	<b>TOTAL</b>	<b>3</b>	<b>6,09,000</b>

## ❖ CONCLUSION:

The foundation is still young and does not hold the financial capabilities to fund for the procurement of much needed manikins. We seek your support for purchasing the manikins so that we are fully equipped to conduct the training sessions in the rural part of the country where 'BASIC for Nurses' is more relevant and important. The readily availability of such equipment will enable us to conduct training at any part of the country.