

Operational Guidelines for  
Skill Upgradation  
Of  
Medical Officer/Laboratory Technician  
For  
Functional Blood Storage Center

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Directorate of family welfare  
Department of Health & family welfare,  
Swasthya Bhawan, Jaipur

# **Operational Guideline for Skill upgradation of Medical officer/Laboratory Technician for Functional Blood Storage Center.**

## **Background**

Till now complete range of CEmOC services are offered at district/institutional hospital only. Blood transfusion is an essential part of comprehensive emergency obstetric care service. In order to make them fully functional, the Blood storage facilities are to be made available at the identified institutions. In the absence of Blood storage/transfusion facilities, it will be impossible to perform caesarian section and to manage hemorrhagic condition due to number of reasons. Therefore the Drug and Cosmetic Act, has recently been amended with the objective of setting up of blood storage facilities at identified CEmOC/IPHS institutions.

## **Objectives**

To Develop knowledge and skills of Medical officer and Lab technician for organizing blood storage and transfusion services at an identified institution.

## **Trainees**

One Medical officer and one-laboratory technicians of the identified institutions of district.

## **Batch Size-Two teams**

## **Trainers**

Pathologist Incharges of district/Institutional blood banks who have been trained as key trainers at SDMH and blood banks of medical college.

## **Training site**

Blood banks of district hospital/ hospital attached to medical college. This can also be at regional blood bank or Indian Red Cross Banks with necessary training infrastructure.

## **Duration of Training**

Three days for Medical officer and six working days for laboratory technicians.

## **Training Material**

Standard operation procedure manuals of GOI can be adopted which is developed by the core group.

## **Key contents of the training program**

- Pre-transfusions checking
- Cross matching
- Compatibility
- Problem in grouping and cross matching
- Trouble shooting
- Issue of blood
- Transfusions reactions and its management
- Disposal of blood bags

Normally 35/42 days depending upon the type of blood bag used for collection. The medical officer incharge of blood storage should ensure that unused blood bags should be returned to the mother/regional center, at least 10 days before the expiry of blood and will obtain fresh blood bags of the required blood group. The

hemolysed/change in color of blood bag is to be discarded and will be the responsibility of the medical officer incharge of blood storage unit.

### **Name of payment**

#### **fund flow-**

Procurement of blood bags: It has become compulsory for the authorized blood banks to test whole blood/components for mandatory tests as per the drugs and cosmetic Act. The regional blood banks have fixed certain charges for the required tests ranging between Rs 250-300 per bag decided by the DHS, includes the cost of blood bag. Therefore the MRS of the institution will make advance payment to the amount of bags required, to the mother blood bank. This amount will be collected back from the client to whom blood unit was supplied and this will again be deposited with the MRS of the institution. The charges of BPL client will be borne by the MRS of the institution. The cost of hemolysed blood will also be borne by the society after certifications from incharge storage unit.

#### **Budget for one team of training**

S. No.	Description	Amount (In Rs.)
1	Honorarium to Resource persons Doctor Rs 200 per Day for 6 days LT Rs 125 per day for 6 days	1200.00 750.00
2	Honorarium to Participants 2 Doctors Rs 200 per day per participants*3 days*2 2 LT Rs 125 per day per participants for 6 days *2	1200.00 1500.00
3	Traveling Amount (Actual) As per state govt. rules Rs 500*4	2000.00
4	Working lunch + 2 time tea At the rate Rs 75 per candidate (For facilitator & participants)	2250.00
5	Consumables	3700.00
6	Miscellaneous	150.00
	<b>Total</b>	<b>12750.00</b>

#### **Monitoring and Management Quality**

SIHFW/PMO/CM&HO should visit the training site and interact with the trainer and trainee during training period to ensure quality of training and to solve any problem emerged out during training.

The key facilitator/SIHFW will make visit of the blood storage center once in a quarter to ensure the quality of storage of blood bags and the cold chain system during transportation, storage, issues and maintenance of records.

The CM&HO/RCHO will make arrangement of vehicle for quality monitoring visit of facilitator.

#### **Management of training program:**

- CM&HO/RCHO will identify one medical officer and one-laboratory technician from identified CEmOC/IPHS institutions. They will prepare the roster of training and nominate them well in time.
- CM&HO/DPM will ensure availability of training material/aids at training site well ahead of the start of trainings so that they can be provided to the trainees.

- The key facilitator will develop datewise training schedule, of theory as well as practical.

#### **Guidelines for obtaining approval/license for operationalisation of Blood storage Center:**

The applicant shall furnish the following documents to the licensing authority.

- Name of medical officer responsible for conduction, operation of blood storage Center.
- Attested certified copy of MBBS/PG degree qualification of medical officer
- Name, attested certified copy of qualification of laboratory technician.
- Attested copy of certificate of training for BSU of medical officer and laboratory Technician.
- Plan of the premises a minimum area of 10 sq. meter is essential for the blood storage center.
- Enclosed list of equipments available i.e. blood bank refrigerator, microscope, centrifuge machine, insulated carrier boxes with ice packs, Deep freezer for freezing ice (available under immunization program).
- A Letter of consent from regional blood bank who intends to supply tested whole Human Blood/Blood Components to BSU.

The validity of approval/license will be for a period of two years from the date of issue. In case of transfer of medical officer before expiry of validity period, the incoming medical officer shall undergo blood storage/transfusion training and he has to apply again for revalidation. An application for renewal of storage unit will have to be made three months prior to the date of expiry.

#### **Guidelines for operational procedure**

##### **Mode of supply**

The tested whole blood will be supplied by the Regional blood bank to the storage center as per the need assessment of the institution, through vehicle with having proper insulated boxes while maintaining proper cold chain system at least twice a month. In order to meeting out the requirements of additional blood units at regional blood bank, voluntary blood donation camps are be organized by local organizations, NGOs, students organization, government department officials and staff at institutional headquarters or in nearby towns. The dates for organization of voluntary blood donation camps are to be fixed in consultation with the incharge of district/regional blood bank. The CM&HO/ PMO will be responsible for making arrangements of vehicle for travel and transportation of team to the camp site. All due care should be taken to maintain the sterilization and cold chain mechanism.

  
**Director RCH**