

**GOVERNMENT OF WEST BENGAL**  
**DEPARTMENT OF HEALTH & FAMILY WELFARE**  
**SBTC, WB**

Swasthya Bhawan, 1st Floor, GN29, Sector V, Salt Lake, Kolkata -700091

HFW-28013(99)/3/2021-SBTC SEC-Dept. of H&FW/ 319

Date: 25/02/2025


**Guidelines for maintenance of critical blood stock at blood centre**

**Objectives:-**

Maintenance of critical stock in every blood centre is necessary for saving the life of some extremely emergency patients in need of blood like Disaster, PPH, RTA, intra-operative surgical bleeding, DIC, De- Compensated chronic anemia, acute GI bleeding, stab injury etc.that might be encountered by the facility now and then without prior notice.

Such critical stock will not be displayed as the available stock on mobile app for routine utilization.

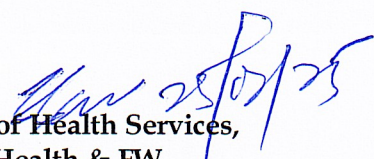
The following guidelines are to be followed by the blood centres for maintenance of critical stock:-

1. Each and every blood centre must maintain such critical inventory to support obstetrical/ medical/ surgical emergency patients who are in need of blood transfusion to save their lives.
2. Such stock may differ from one blood centre to another according to their actual necessity.
3. The decision regarding the critical stock along with its specific quantity shall be taken in the facility level transfusion committee meeting which may subsequently be endorsed by the district level transfusion committee.
4. The critical stock of each specific type of unit (e.g. A+/ B+/ AB+ etc.) **should not exceed 20%** of annual average daily issued number of that specific type of unit.
5. While estimating the precise quantity of critical stock to be set aside in a particular blood centre, the following factors may be taken into account for convenience :-Average number of extremely emergency patients (like PPH, RTA, acute severe haemorrhage, trauma requiring massive transfusion protocol reserve i.e. **MTP pack**) needing blood transfusion in a day or a week.
  - i. Average number of high-risk pregnant mother is admitted in a hospital.
  - ii. The critical stock will preferably comprise group specific PRBC/RDP/ FFP including negative groups. 



- iii. The blood centre will try to preserve and maintain this stock round the year as per their anticipated requirement.
- iv. The quantity and composition of such stock may vary or can be changed from time to time as per the estimated unit requirement of a particular blood centre.
- v. All MOICs will actively and stringently monitor the up to date status of the stock regularly with periodic replacement and replenishment of blood units as per their requirement taking into consideration the expiry date and utilization of critical stock.
- vi. Blood Centres will try to keep the critical stock undisturbed round the year and will replenish the stock immediately after its utilization.
- vii. Blood Centres will keep additional quantity of 'O PRBC' (both positive & negative) in their critical stock as O group PRBC is lifesaving and O positive PRBC can be transfused to all positive recipients and O negative PRBC can be transfused to all recipients (positive & negative) safely in emergency. Thus in case of life-saving emergency situations or other special circumstances (minor group incompatibility/rare group) AHG compatible O group red cells may be transfused crossing ABO blood group barrier. (Reference: Transfusion Medicine Technical Manual, DGHS, 3<sup>rd</sup> edition 2023).
- viii. Similarly, it may always be kept in mind that AB subjects can alternatively be transfused with A or B group PRBC in emergency, if AB group PRBC is not available in inventory.
- ix. Additional effort should be given on the blood centre's part to keep such critical stock intact particularly during summer and festival season due to want of inventory.

  
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Medical Education

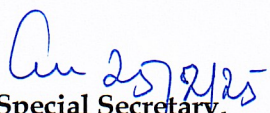
  
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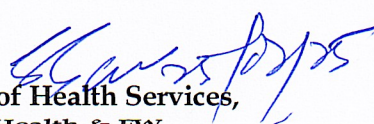
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