



**Government of West Bengal  
Health & Family Welfare Department  
GN 29, Sector V, Salt Lake City, Kolkata-700091.**

Memo No. HFW-28023/1/2023-BS SEC-Dept. of H&FW/ 308

Date: 04.01.2024

**ORDER**

Blood Transfusion is an indispensable life saving measure for the treatment of patient in need of blood around the world. It is by now well-established that transfusion of blood components is appropriate and safer than transfusion of whole blood as such. Even in exchange transfusion whole blood is re-constituted with blood components in specific volume to achieve target haematocrit.

In this perspective, whole blood transfusion is to be phased out gradually and a mechanism is therefore developed by which Blood Centres without any Component Separation unit (non-BCSUs) will also issue blood components as per need of the patients like that of the blood centres with Component Separation units (BCSUs).

To make this happen, each and every non-BCSU will be tagged with nearest BCSU. The non-BCSUs will collect blood in Double/Triple (with or without SAGM) blood bag, using the code of BCSUs they are tagged with.

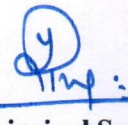
The blood units thus collected by non-BCSUs will be supplied on the same day directly from the camp site to the BCSUs for component separation and in return they (non-BCSUs) will receive the separated and tested components from the BCSUs as a bulk, following existing norms, as per their need, preferably on the same day using the same vehicle.

The components thus received by the non-BCSUs may be issued now to the patients or tagged BSUs in bulk as per requisition received by them following existing norms.

The relevant SOP, Activity Flow Chart and list of non-BCSUs tagged with nearest BCSUs are enclosed herewith as Annexure-I, Annexure-II & Annexure-III respectively.

All the State Govt. Blood Centres are directed to follow the order with immediate effect.

All concerned are informed accordingly.

  
4/1/2024

**Principal Secretary  
Health & Family Welfare Department**



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Memo No. HFW-28023/1/2023-BS SEC-Dept. of H&FW/ 308/1(4)

Date: 04.01.2024

Copy forwarded for information to:

1. Dr. Krishna Kumar, CMO(SAG), NBTC/BTS Division, DGHS, MoH&FW, GoI, Nirmal Bhawan, New Delhi-110011.
2. Dr. Megha Pravin Khobragade, ADG, DGHS, MoH&FW, GoI, Nirmal Bhawan, New Delhi-110011.
3. Mr. M. C. Shukla, Director of STAT/BTS, CBHI, DGHS, MoH&FW, GoI, Nirmal Bhawan, New Delhi-110011.
4. Dy. Director, CDSCO (EZ), Nizam Palace, 234 A.J.C.Bose Road, Kolkata-700020.

*[Signature]*

**Spl. Secretary & PD, WBSAP&CS  
Health & Family Welfare Department**

Memo No. HFW-28023/1/2023-BS SEC-Dept. of H&FW/ 308/2(36)

Date: 04.01.2024

Copy forwarded for information and taking necessary action to the:

1. DHS, Swasthya Bhawan
2. DME, Swasthya Bhawan
3. MD. NHM, Swasthya Bhawan
4. Director, Directorate of Drugs Control, GoWB
5. Member Secretary, SBTC, WB
6. AMD, NHM
7. District Magistrate (All)
8. Director, Public Health
9. Jt. DHS & SFWO
10. Jt. DHS (PH&CD)
11. Jt. Director (Finance), WBSAP&CS and SBTC, WB
12. Jt. Director (Blood Safety), WBSAP&CS
13. Jt. Director, NCD
14. Principal/MSVP,.....MCH (All)
15. Dy. Director (Blood Safety), WBSAP&CS
16. Dy. Director, Hospital Administration
17. Dy. Director, NCD-I
18. Asstt. Director, NCD-I
19. SPO, State Blood Cell, NHM
20. Technical Advisor, State Blood Cell, NHM
21. SPO, NVHCP
22. Asstt. Director (Medical), SBTC, WB
23. CMOH, .....District (All)
24. Addl. Superintendent, .....MCH (All)
25. Dy. CMOH-I/II/III/IV, ..... District (All)
26. DTO (All)
27. Superintendent, .....DH/SDH/SSH /SGH (All)
28. Director, RBTC (All)
29. BMOH, ....RH/BPHC (All)
30. MOIC, .....Blood centre (All)
31. MO, TCU/BSU (All)
32. Asstt. Director (VBD), WBSAP&CS
33. Asstt. Director (Quality Manager-Blood Safety), WBSAP&CS
34. Consultant, State Blood Cell, NHM
35. System Coordinator, IT Cell, Swasthya Bhawan – for uploading in the departmental website.
36. Office copy.

*[Signature]*

**Spl. Secretary & PD, WBSAP&CS  
Health & Family Welfare Department**



**Government of West Bengal  
Health & Family Welfare Department  
GN 29, Sector V, Salt Lake City, Kolkata-700091.**

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**Annexure-I**

**Standard Operating Procedure (SOP)**

(In relation to Memo No. HFW-28023/1/2023-BS SEC-Dept. of H&FW/ 308 Date: 4.1.24)

The following Standard Operating Procedure (SOP) has been developed for transfusing components instead of Whole blood in a patient in need of blood.

Location	Subject
VBD Camp and Blood Centre	Formulation of a mechanism for preparation and promotion of component transfusion instead of whole blood.
Function	Distribution
Collection of blood in multiple blood bags by a non-BCSU using the Camp code of a designated BCSU for preparation of components in order to minimize use of Whole Blood and transfuse the right product in right patient.	MOICs of BCSU and tagged non-BCSU and their all categories of staff

**1. Scope of Application:**

The mechanism has been devised to phase out transfusion of Whole Human Blood as there is no absolute indication of its transfusion and to implement transfusion of appropriate components in its place. The procedure is to be used by authorized staff posted in Blood centres.

**2. Responsibility:**

Authorized personnel who are involved in providing services of Blood Centres are responsible for all activities.

**3. Materials and Equipment:**

- i) All equipment required for collection, transportation, processing and TTI screening, cross-matching and issuance of blood.
- ii) All registers and RFID based software system to document the activities.

**4. References:**

AABB Technical Manual 20<sup>th</sup> Edition,

**5. Procedure:**

- i) All state govt. non-BCSUs (until their up-gradation to BCSUs) have been tagged with nearest BCSU in order to implement the programme successfully.
- ii) All the non-BCSUs will make booking of VBD camps as they are doing at present to collect blood.

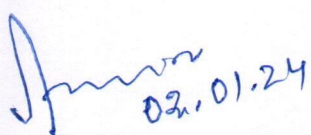


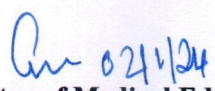
- iii) In all VBD camps that are booked by non-BCSUs, collection of blood will be made in Double/Triple (with or without SAGM) blood bags instead of single blood bag for the purpose of component separation except for those Camps where transportation of collected blood from the camp site to the designated BCSU is not possible within 6 hours. In such cases, collection will be made in single blood bag only.
- iv) The blood units thus collected in multiple bags in the camps by the non-BCSU will be sent to the designated BCSU for component preparation within 6 hours of collection as per existing norms of DCGI and shall always bear the Camp Code of that BCSU.
- v) The BCSU on their part will separate the blood so received into components and will perform TTI screening for 5 mandatory tests and grouping.
- vi) The non BCSUs after supplying the blood collected in multiple blood bags to the BCSUs, will receive tested components in return from the BCSU through bulk-transfer preferably on the same day from readily available inventories that have been prepared earlier by the BCSU. In case, readily available stock of components is unavailable in BCSU on that very day, components may be supplied on earliest suitable day.
- vii) The BCSU should supply at least a part of the PRBC inventory to non-BCSU (for thalassaemia patients) which is prepared preferably within 7 days prior to supply.
- viii) The non BCSUs after receiving such components from BCSUs, will enter those units into their own inventory.
- ix) Such components received by the non-BCSU from its designated BCSU, can be issued to any patient after cross-matching or can be transferred as a bulk to the BSU tagged with it.
- x) All expenses of the camps conducted by non-BCSU in the code of BCSU will be borne by the concerned non-BCSU. Such expenses are Refreshment charges for the donor, DA to the staff, Camp contingency, IEC support and POL and/or vehicle hiring charges. Accordingly, the non-BCSUs will assess the requirement of fund and place their demand to the SBTC in advance.
- xi) The SBTC will allot and release fund to the concerned facilities from time to time accordingly.
- xii) The non-BCSU will collect the Camp code from its BCSU before conducting the camp on their behalf.
- xiii) The MOIC of BCSU and of concerned non-BCSU will keep close liaison regularly with each other to implement the programme successfully.

**6. Documentation;**

Each and every activity must be documented and recorded in Registers and in RFID based software system by the concerned facilities.

**7. End of Document**

  
**Director of Health Services**  
**Health & Family Welfare Department**

  
**Director of Medical Education**  
**Health & Family Welfare Department**



(In relation to Memo No. HFW-28023/1/2023-BS SEC-Dept. of H&FW/ 308 Date: 4.1.24)

The flowchart illustrates the Blood Component Supply Chain (BCSU) process, showing the flow from blood collection to the recipient. The process is divided into eight main steps:

- 1 RBTC**
  - Logistics including Multiple Blood Bag Supply
  - Monitoring & Supervision
- 2 Non-BCSU**
  - HR
  - Logistics including Multiple Blood Bag
  - Blood Donation Van
  - Inventory
  - Cross Matching
  - Recipient Hemovigilance
- 3 Blood Donation Camp in the Code of BCSU**
  - Donor Registration
  - Donor Credit Card
  - Donor Certificate
  - Donor Refreshment
  - Donor Hemovigilance
- 4 BCSU**
  - Inventory
  - Blood Component Separation
  - TTI
  - Blood Grouping
- 5 Supply Blood Components in bulk**
- 6 Issue Cross Matched Blood**
- 8 Recipient**

The flow is as follows:

- Step 1 (RBTC)** feeds into **Step 2 (Non-BCSU)** and **Step 4 (BCSU)**.
- Step 2 (Non-BCSU)** feeds into **Step 3 (Blood Donation Camp)** and **Step 6 (Issue Cross Matched Blood)**.
- Step 3 (Blood Donation Camp)** feeds into **Step 4 (BCSU)** and **Step 8 (Recipient)**.
- Step 4 (BCSU)** feeds into **Step 5 (Supply Blood Components in bulk)** and **Step 8 (Recipient)**.
- Step 5 (Supply Blood Components in bulk)** feeds into **Step 6 (Issue Cross Matched Blood)**.
- Step 6 (Issue Cross Matched Blood)** feeds into **Step 8 (Recipient)**.

Additional labels in the diagram include:

- Transport of collected Blood** (vertical label on the right side, pointing from Step 3 to Step 4).
- Camp Organization** (horizontal label between Step 2 and Step 3).

**Director of Medical Education**  
**Health & Family Welfare Department**



## List of Non-BCSUs tagged with designated BCSUs (Intra &amp; Inter District)

Details of BCSUs			Details of Non-BCSUs tagged with BCSUs	
District	Sl. No. of BCSU	Blood Component Separation Unit (BCSU)	Sl. No. of Non-BCSU	Non-Blood Component Separation Unit (Non-BCSU)
Kolkata	1	IBTM&IH	1	CNCI Hospital BC (Hazra, Kolkata)
			2	Salt Lake SDH BC (North 24 Pgs.)
	2	Kolkata Medical College & Hospital	3	Metiaburuz SSH BC (South 24 Pgs.)
	3	R.G.Kar MC&H		NIL
	4	NRS MC&H	4	Serampore Walsh SDH (Hooghly)
	5	SSKM Hospital	5	M.R.Bangur DH (South 24 Pgs.)
	6	CNMC&H		NIL
	7	ESI Hospital		NIL
North 24 PGS	8	Dr. B. C. Roy PGIPS		NIL
	9	CoM & Sagore Dutta Hospital		NIL
Basirhat HD	10	Barasat Govt.MC&H	6	Barrackpore SDH (North 24 Pgs.)
Howrah	11	Basirhat DH	7	Bongaon SDH (North 24 Pgs.)
Hooghly	12	Howrah District Hospital	8	S.C.C. Govt. MC&H, Uluberia
Purba Bardhaman	13	Hooghly DH	9	Chandannagar SDH (Hooghly)
			10	P.C.Sen Govt. MC&H, Arambagh (Hooghly)
	14	Burdwan MC&H	11	Nabadwip SGH (Nadia)
			12	Kalna SDH (Purba Bardhaman)
Diamond Harbour HD	15	Diamond Harbour G MC&H	13	Katwa SDH (Purba Bardhaman)
South 24 Parganas	16	Canning SDH	14	Kakdwip SDH (South 24 Pgs.)
Nadia	17	CoM & JNM Hospital	15	Baruipur SDH (South 24 Pgs.)
	18	Krishnanagar DH	16	Gandhi Memorial Hospital (Nadia)
Paschim Bardhaman	19	Asansol DH	17	Tehatta SDH (Nadia)
Bankura	20	BSMC&H	18	Ranaghat SDH (Nadia)
Bishnupur HD	21	Bishnupur DH	19	Durgapur SDH (Paschim Bardhaman)
			20	Barjora SSH (Bankura)
Purulia	22	Purulia Govt. MC&H (Hatuara)	21	Chhatna SSH (Bankura)
Jhargram	23	Jhargram G MC&H	22	Onda SSH (Bankura)
			23	Khatra SDH (Bankura)
Paschim Medinipur	24	Medinipur MC&H	24	Deben Mahato G MC&H (Purulia)
			25	Raghunathpur SSH (Purulia)
			26	Gopiballavpur SSH (Jhargram)
			27	Nayagram SSH (Jhargram)
Purba Medinipur	25	Tamralipto G MC&H	28	Ghatal SDH (Paschim Medinipur)
Nandigram HD	26	Nandigram SSH	29	Kharagpur SDH (Paschim Medinipur)
Rampurhat HD	27	Rampurhat GMC&H	30	Salboni SSH (Paschim Medinipur)
			31	Debra SSH (Paschim Medinipur)
Birbhum	28	Suri DH	32	Haldia SDH (Purba Medinipur)
Murshidabad	29	Murshidabad MC&H	33	Panshkura SSH (Purba Medinipur)
			34	Contai SDH (Nandigram HD)
			35	Egra SSH (Purba Medinipur)
Malda	30	Malda MC&H	36	Kandi SDH (Murshidabad)
Dakshin Dinajpur	31	Balurghat DH	37	Sagardighi SSH (Murshidabad)
Uttar Dinajpur	32	Raiganj G MC&H	38	Bolpur SDH (Birbhum)
Darjeeling	33	NB MCH	39	Domkol SDH (Murshidabad)
	34	Darjeeling DH	40	Jangipur SDH (Murshidabad)
	35	Siliguri DH	41	Lalbagh SDH (Murshidabad)
Kalimpong	36	Kalimpong DH	42	Chanchol SSH (Malda)
Jalpaiguri	37	Jalpaiguri G MC&H	43	Gangarampur SDH (Dakshin Dinajpur)
	38	Mal SSH		NIL
Alipurduar	39	Alipurduar DH	44	Islampur SDH (Uttar Dinajpur)
Coochbehar	40	MJN Govt. MC&H	45	Kurseong SDH (Darjeeling)
				NIL
			46	Birpara SGH (Alipurduar)
				NIL
			47	Falakata SSH (Alipurduar)
			48	Dinhata SDH (Coochbehar)
			49	Mathabhanga SDH (Coochbehar)

Joint Director (Blood Safety)

WBSAP&amp;CS

Health &amp; Family Welfare Department