



ZAMBIA NATIONAL BLOOD TRANSFUSION SERVICE

MANSA PROVINCIAL BLOOD BANK CENTRE

ANNUAL PROGRESS REPORT 2025

1. THE MANDATE FOR THE ZNBTS

The Zambia National Blood Transfusion Service (ZNBTS) is a statutory board under the Ministry of Health (MoH), established under SI 147 of 1997. The ZNBTS is the only institution mandated to ensure availability, sufficient and equitable access to blood and blood products throughout Zambia. The National Blood Transfusion Service is centrally coordinated through the ZNBTS Head office in Lusaka but sufficiently decentralized to render blood transfusion services to the hospitals countrywide through its ten (10) Provincial Blood Transfusion Centers (PBTC) which include Luapula Provincial Blood Centre located in Mansa. The Luapula Provincial Blood Centre is responsible

- Blood Donor Recruitment,
- Donor Sensitization and Education
- Blood Collection, Post Donation Counselling,
- Mandatory testing for Transfusion Transmissible Infectious markers on donated blood (HIV, Hepatitis B & C, Syphilis),
- Blood Processing into Blood Components,
- Bulk storage of safe blood products and subsequent distribution of safe blood to hospitals.
- To Provide technical support to hospitals on blood transfusion services and clinical interface

1. BRIEF HISTORY OF THE OPERATIONS OF THE ZNBTS

The ZNBTS is the sole institution responsible for ensuring the availability and equitable access to blood and blood products across Zambia. It operates in all 10 provinces through provincial blood centres, which supply over 210 transfusing hospitals nationwide. In Luapula, the Mansa Provincial Blood Centre fulfills this role.

During its initial operations, ZNBTS received financial support from the EU between 1988 and 2003. From 2004 to March 2017, PEPFAR provided funding.

Since April 2017, funding support has been provided by the Government of the Republic of Zambia and continues to strengthen the nationally coordinated

Blood Services amidst this transition, which negatively impacted program implementation and blood and blood product availability.

From 2017 to 2023, the number of blood units collected per annum in Luapula Province on average was **9,925**, with a crude discard rate of around 19% (4.0% attributable to HIV, 5% to HBV, 4% to HCV, and 6% to syphilis). This resulted in more than 30% of the need for blood and blood products not met due to a number of factors, such as Inadequate funding to support all operational inputs; Procurement of Donor Therapeutic Supplies, Screening reagents, consumables, fuel, and logistics to conduct blood collection activities.

Additionally, as the annual population growth rises, the demand for blood and blood products increases each year as well. To meet this need, the Ministry of Health continues to mobilize resources through the Ministry of Finance. MoH works with key donors, such as the **Basel Association for Medical Cooperation, under the Memorandum of Understanding (MOU) for the Improving Blood and Blood Product Availability Project.**

The Provincial Health Office received support from BMAC totalling K1,364,097.65 from December 2023 to December 2025. With this joint effort with the Basal Medical Cooperation Association, the province has recorded remarkable achievements in making blood and blood products for therapeutic use.

2. KEY ACHIEVEMENTS

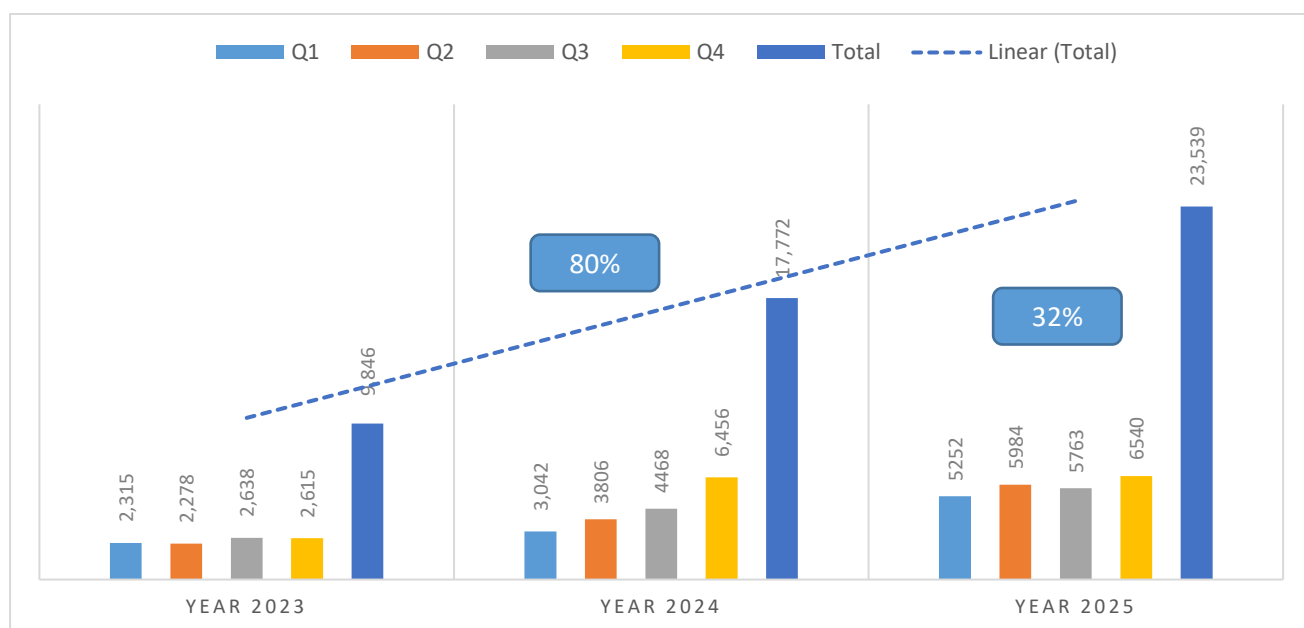
Year 2024

- I. Collected 17772/19400 **(92%)** units in 2024.
- II. Collection increased by 80% (from 9846 units in 2023 to 17772 units in 2024)
- III. Blood Availability was at 90%

Year 2025

- I. Collected 23,539/23,400 **(101%)** Blood units in 2025
- II. Collection increased by 32% (From 17772 units in 2024 to 23539 units in 2025)
- III. Blood Availability stands at 94% in 2025
- IV. **Note: 139% increment from 2023 to 2025 was recorded**
- V. Shared over 500 units with other Provinces (Lusaka, Northern, Central and Copperbelt)
- VI. Placement of Additional 10 Human Resources to improve efficiency and quality of blood bank operations
- VII. Procurement of Solar Back up power to prevent power interruption of sensitive equipment at the provincial centre
- VIII. Minor renovations to improve work flow, outlook and environmental facilities
- IX. Timely Distribution of blood and blood products to transfusion centres

3. COMPARATIVE PERFORMANCE 2023 VS 2024 VS 2025



Comment: From the commencement of support blood collection improved by 58% from 2023 to 2025.

4. PERFORMANCE PROGRESS 2025.

Month	Target	Collected	Deficit	%
January	1,950	1,354	596	69%
February	1,950	1,684	266	86%
March	1,950	2,214	- 264	114%
April	1,950	2,111	- 161	108%
May	1,950	1,979	- 29	101%
June	1,950	1,894	56	97%
July	1,950	1,995	- 45	102%
August	1,950	1,781	169	91%
September	1,950	1,987	- 37	102%
October	1,950	3,001	- 1,051	154%
November	1,950	1,777	173	91%
December	1,950	1,762	188	90%
Total	23,400	23,539	- 139	101%

Comment: Collection target for 2025 achieved @100

5. SAFE BLOOD VS DISCARDS

Month	Target	Collected	Safe	Discard	% Discard
January	1,950	1,354	1,153	201	15%
February	1,950	1,684	1,456	228	14%
March	1,950	2,214	1,977	237	11%
April	1,950	2,111	1,798	313	15%
May	1,950	1,979	1,733	246	12%
June	1,950	1,894	1,687	207	11%
July	1,950	1,995	1,635	360	18%
August	1,950	1,781	1,488	293	16%
September	1,950	1,987	1,777	210	11%
October	1,950	3,001	2,650	351	12%
November	1,950	1,777	1,574	203	11%
December	1,950	1,762	1,576	186	11%
Total	23,400	23,539	20,504	3,035	13%

Comment: Donor Discard rate still higher than the 10% target despite the degrees from 18% in 2024 to 13% in 2025 representing 4% decrease

6. DISCARD RATE 2025

Total 1s Time Units Tested	10555					
Total Repeat Donor Units Tested	12,989					
Total Units Tested	23,539					
Disease Marker	Counts 1st Time	Counts Repeat	First Time Donors	Repeat Donors	Total counts	Total %
HIV	365	296	3%	2%	661	3%
HBV	480	310	5%	2%	790	3%
HCV	398	318	4%	2%	716	3%
SYPHILIS	644	507	6%	4%	1151	5%
TOTAL DISCARDS	1,887	1,431	18%	11%	3,318	13%

Comment: Discard is lower in repeat donor as expected compared to new or first-time donors underscoring the need to intensify donor retention

7. DONOR RETENTION

Month	1st Time Donors	Repeat Donors	1st Time Donors %	Repeat Donors	Repeat Donor Target
Jan-25	899	455	66%	34%	80%
Feb-25	1431	253	85%	15%	80%
Mar-25	1599	615	72%	28%	80%
Apr-25	510	1601	24%	76%	80%
May-25	1077	902	54%	46%	80%
Jun-25	798	1098	42%	58%	80%
Jul-25	605	1390	30%	70%	80%
Aug-25	483	1298	27%	73%	80%
Sept-25	984	1003	50%	50%	80%
Oct-25	1440	1561	48%	52%	80%
Nov-25	341	1439	19%	81%	80%
Dec-25	388	1374	22%	78%	80%
	10555	12989	45%	55%	80%

Comment: Average Donor Retention stands at 55% due to expansion of collection sites: Opening of new sites and new donor in already existing sites

8. ANNUAL BLOOD DISTRIBUTION 2025

NO	FACILITY	TOTAL	% CONSUMPTION
1	Chembe Rural Health Center	0	0.0%
2	Home Of Compassion	0	0.0%
3	Titus Mukupo Min Hospital	46	0.2%
4	Nchelenge District Hospital	82	0.4%
5	Musaila Min Hospital	95	0.5%
6	Kasoma Lunga Rural Health	97	0.5%
7	Chipili Rural Health Center	129	0.6%
8	Lwela Mission	163	0.8%
9	Kabole Rural Health Center	168	0.8%
10	Mwense District Hospital	477	2.4%
11	Mambilima Mission Hospital	521	2.6%
12	Mansa District Hospital	552	2.7%
13	Mbereshi Mission Hospital	610	3.0%
14	Chembe Mini Hospital	633	3.1%
15	Senama Level 1	668	3.3%
16	Lubwe Mission Hospital	676	3.3%
17	Kasaba Mission Hospital	687	3.4%
18	Milenge District Hospital	725	3.6%
19	Nganda Bilonda Hospital	791	3.9%
20	Kawambwa District Hospital	943	4.7%
21	Chienge District Hospital	1087	5.4%
22	Samfya District Hospital	1211	6.0%
23	St. Paul's General Hospital	1443	7.1%
24	Mansa General Hospital	8452	41.7%
	Provincial Summary	20256	100.0%

9. SUPPORTING OTHER PROVINCES 2025

CENTER NAME	KASAMA BLOOD BANK	KABWE BLOOD BANK	KITWE BLOOD BANK	UTH BLOOD BANK	TOTAL ISSUANCE
JAN-25	0	0	0	0	0
FEB-25	0	0	0	0	0
MAR-25	0	0	0	0	0
APR-25	0	0	0	0	0
MAY-25	100	0	0	0	100
JUN-25	0	50	0	0	50
JUL-25	0	0	0	0	0
AUG-25	0	0	0	0	0
SEPT-25	0	0	0	0	0
OCT-25	0	0	0	0	0
NOV-25	0	0	90	0	90
DEC-25	0	88	40	200	328
TOTAL	100	138	130	200	568

Comment: Total of 568 Units supplied to other provinces in nee

10. CUMULATIVE BLOOD DISTRIBUTION BY BLOOD TYPE

No	Facility	A	B	AB	O	Total	STATUS
1	Chembe Rural Health Center	0	0	0	0	0	Not Active
2	Home Of Compassion	0	0	0	0	0	Not Active
3	Titus Mukupo Min Hospital	13	12	3	18	46	Active
4	Nchelenge District Hospital	22	20	5	35	82	Active
5	Musaila Min Hospital	28	26	5	36	95	Active
6	Kasoma Lunga Rural Health	23	23	9	42	97	Active
7	Chipili Rural Health Center	33	31	0	65	129	Active
8	Lwela Mission	31	29	5	98	163	Active
9	Kabole Rural Health Center	45	44	14	65	168	Active
10	Mwense District Hospital	115	104	30	228	477	Active
11	Mambilima Mission Hospital	139	115	26	241	521	Active
12	Mansa District Hospital	137	118	37	260	552	Active
13	Mbereshi Mission Hospital	152	146	26	286	610	Active
14	Chembe Mini Hospital	149	152	39	293	633	Active
15	Senama Level 1	154	130	41	343	668	Active
16	Lubwe Mission Hospital	169	149	37	321	676	Active
17	Kasaba Mission Hospital	176	154	37	320	687	Active
18	Milenge District Hospital	164	158	42	361	725	Active
19	Nganda Bilonda Hospital	188	173	36	394	791	Active
20	Kawambwa District Hospital	235	206	41	461	943	Active
21	Chienge District Hospital	244	244	43	556	1087	Active
22	Samfya District Hospital	311	260	53	587	1211	Active
23	St. Paul's General Hospital	340	274	80	749	1443	Active
24	Mansa General Hospital	2266	1806	487	3893	8452	Active
		5134	4374	1096	9652	20256	

11. ACTION PLAN REVIEW 2025

No	Challenges	Proposed Intervention	Status	Comment
1	Low donor turnouts in School as primary blood collections sites	School Sensitization Activities	Done	On-going as new schools are being activated
		Strengthened Appointment systems	Done	On-going as new schools are being activated
2	Unstable Power supply for the blood testing	Use of the Backup Generator	Done	Supplying Fuel for Generator Weekly (Supplemental Intervention when needed)
		Procure and install Solar Back up system	Done	15kv Solar Back up Procured and installed
3	Storage space at central blood bank 4/6 are functional	Repair the 2 non-Functional refrigerators	Done	PHO Cold Room Holding on Excess Blood
		Expand Cold Facilities via renovations	Pending	Major Center Renovation still pending
4	Delayed Procurement lead times	Quarterly Procurements Fuel, DTFs and Supplies	Done	Continue monitoring implementation

12. FOCUS AREA 2026

No	Challenges	Proposed Intervention	Time lines	Responsible
1	Low donor turnouts in Chembe and Chipili District	Hold Engagement meeting with Chief and Head men in Chiefdoms	January 2026	PBS/Senor Health Promotions Officer
		Hold Engagement meeting with CBVs/DHO/ Facility Staff	January 2026	PBS/Senor Health Promotions Officer
2	Inadequate local Collection Sites in Mansa District and Camping Site	Expansion of Collection sites in Mansa District by Holding Engagement meeting with 7 Chiefs and Head men in Chiefdoms	January 2026	Blood Bank Coordinator /Senor Health Promotions Officer
		School identification and Targeted Sensitization with Ministry of Education (PEO and DEBS)	End of Q1 2026	Blood Bank Coordinator /Donor Recruiter
3	Week Coordination with DHO on Feedback mechanism for post Donation Counselling and Donation Sensitization	Share the Year 2025 TTIs mapping for each site in the district	January 2026	Blood Bank Coordinator
		Engage DHOs on Health promotion regarding Transfusion Transmissible infection and donor health	January 2026	Blood Bank Coordinator
4	High TTIs in Chiengwe and Nchelenge Sites	Share the Year 2025 TTIs mapping for each site in the district	Monthly	Blood Bank Coordinator
		Conduct Radio Programs		
		Targeted Post Donation Counselling Exercise and deferral		
5	High Donor Discard Rate (Reduce from 14% to less than 10% in 2026)	In house Training and Competency for blood Bank Teams and optimise donor selection and pre-screening	February 2025	Donor Recruiter/Blood Bank Coordinator
		Strengthen Donor Retention in Sites (Notification) and Objective Site Selection	Monthly	Donor Recruiter

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