

ANNUAL STATISTICS REPORT 2023



National Blood Transfusion Service of Sri Lanka



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02 ABBREVIATIONS

Abbreviation	Meaning
ANC	Ante-Natal Clinic
AP	Apheresis Platelets
AS	Additive Suspended
BCR	Buffy Coat Removed
Cryo	Cryoprecipitate
CTP	Consultant Transfusion Physician
DAT	Direct Antiglobulin Test
ETRU	Education, Training and Research Unit
FFP	Fresh Frozen Plasma
Hb	Haemoglobin
HBB	Hospital Blood Bank
Hep	Hepatitis
HIV	Human Immunodeficiency Virus
HLA	Human Leucocyte Antigen
HNA	Human Neutrophil Antigen
MOIC	Medical Officer In-Charge
MP	Malaria Parasites
MSRS	Monthly Statistics Reporting System
NBC	National Blood Center
NBTS	National Blood Transfusion Service
NS	Nursing Sister
PC	Platelet Component
PLT	Platelets
PRPD	PRP Derived
QMU	Quality Management Unit
RCC	Red Cell Concentrate
RDP	Random Donor Platelets
TPE	Therapeutic Plasma Exchange
TPPA	<i>Treponema pallidum</i> Particle Agglutination Assays
TTI	Transfusion Transmitted Infections
VDRL	Venereal Disease Research Laboratory
WHO	World Health Organization

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05 INTRODUCTION

National Blood Transfusion Service is a special campaign under the Ministry of Health—Sri Lanka. Being the sole supplier of blood and blood products to all government hospitals and a vast majority of private hospitals island-wide, it holds the responsibility of ensuring the quality, safety, adequacy and cost effectiveness of the blood supply and other related services to fulfill national requirement as well as WHO recommendations.

NBTS consists of 108 hospital-based blood banks and 2 stand-alone blood centers affiliated to 24 cluster centers depending on the geographic distribution. Out of the 112 hospital-based blood banks, 106 are functioning in 2023.

The Director—NBTS, is the chief executive officer of the organization, who is responsible for implementation and supervision of the common decisions taken by the organization. Consultant Transfusion physicians provide clinical guidance to the NBTS, through their expertise. Each cluster center is headed by a Consultant Transfusion Physician.

Vision

To be a unique model for the world securing quality assured blood services, through a nationally coordinated system.

Mission

To ensure the quality, safety, adequacy and cost effectiveness of the blood supply and related laboratory, clinical, academic and research services in accordance with national requirements and WHO recommendations.

06 GEOGRAPHICAL DISTRIBUTION OF BLOOD BANKS

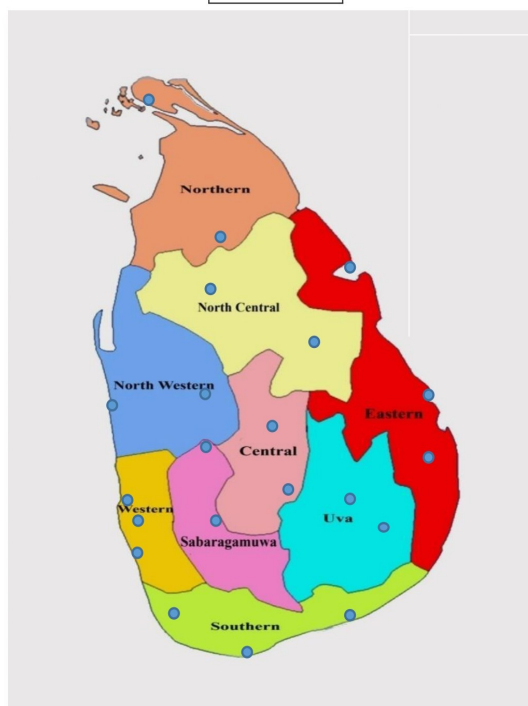
North Central	
ANURADHAPURA	
Anuradapura	
Padaviya	
Thambuthhegama	
Medawachchiya	
POLONNARUWA	
Polonnaruwa	
Medirigiriya	
Dehiattakandiya	
NNSH Polonnaruwa	

Northern	
VAVUNIYA	JAFFNA
Vavuniya	Jaffna
Chettikulam	Kilinochchi
Mannar	Point Pedro
Kaththankudi	Mullativu
	Thellippalai
	Kaits
	Chavakachcheri

Eastern		
BATTICALOA	TRINCOMALEE	AMPARA
Batticaloa	Trincomalee	Ampara
Valachchenai	Kantale	Akkarepattu
Kattankudy	Kinniya	Kalmunai North
Kalawanchikudi	Muththur	Kalmunai South
		Mahaoya
		Sammanthurai
		Pothuvil

Central	
KANDY	PERADENIYA
Kandy	Peradeniya
Theldeniya	Gampola
Matale	Nawalapitiya
Dambulla	
NUWARA ELIYA	
Nuwara Eliya	
Dikkoya	
Rikillagaskada	

North Western	
KURUNEGALA	CHILAW
Kurunegala	Chilaw
Dambadeniya	Marawila
Kuliyapitiya	Puttalam
Nikaweratiya	Kalpitiya
Galgamuwa	



Sabaragamuwa	
RATNAPURA	KEGALLE
Ratnapura	Kegalle
Embilipitiya	Mawanella
Eheliyagoda	Karawanella
Balangoda	Warakapola
Kahawatta	

UVA
BADULLA
Badulla
Diyatalawa
Mahiyanganaya
Welimada
MONARAGALA
Monaragala
Bibile
Wellawaya

Western				
COLOMBO	RAGAMA	GAMPAHA	MAHARAGAMA	KALUTARA
NBC	CNTH	Gampaha	CIM Apeksha	Kalutara
NHSL	Kiribathgoda	Wathupitiwala	Awissawella	Horana
CSHW	Negambo	Meerigama	Homagama	Kethumathi
CSTH	Welisara	Minuwangoda		Panadura
DMH				
LRH				
SJGH				
Accident Service				
IDH- Angoda				
CEBH-Mulleriyawa				
NINDT-				
Maligawaththa				
Army Hospital				
KDU				
NFTH				

Southern		
KARAPITIYA	MATARA	HAMBANTOTA
Karapitiya	SRBC	Hambantota
Mahamodara	Kamburugamuwa	Tangalle
Balapitiya	Matara	Tissamaharamaya
Elpitiya	Kamburupitiya	Walasmulla
Udugama	Deniyaya	
	New DGH	
	Kamburugamuwa	

07 BLOOD COLLECTION IN 2023

Cluster	Blood Bank	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Ampara Cluster	Akkarepattu	21	435	1205	1640
	Ampara	120	696	7557	8253
	Kalmunai North	27	256	942	1198
	Kalmunai South	14	373	1177	1550
	Mahaoya	23	275	1101	1376
	Pothuvil	8	155	279	434
	Sammanthurai	9	208	519	727
Anuradhapura Cluster	Anuradhapura	332	1978	23935	25913
	Medawachchiya	0	0	0	0
	Padaviya	16	242	976	1218
	Thambuttegama	0	0	0	0
Badulla Cluster	Badulla	194	876	11786	12662
	Diyatalawa	45	159	1715	1874
	Mahiyanganaya	37	450	2412	2862
	Welimada	142	171	0	171
Batticaloa Cluster	Batticaloa	147	713	7886	8599
	Kalawanchikudi	1	52	38	90
	Kattankudy	15	111	939	1050
	Valachchenai	3	79	152	231
Chilaw Cluster	Chilaw	66	367	5478	5845
	Kalpitiya	0	0	0	0
	Marawila	52	230	3531	3761
	Puttlam	57	289	3931	4220
CIM Cluster	Apeksha	318	5936	17784	23720
	Awissawella	54	696	2990	3686
	Homagama	27	70	2019	2089
CNTH Cluster	CNTH	227	1222	17700	18922
	Kiribathgoda	0	0	0	0
	Negambo	73	240	4581	4821
	Welisara	0	0	0	0
Colombo Cluster	Accident Service	0	0	0	0
	Army Hospital	6	105	420	525
	CEBH-Mulleriyawa	0	0	0	0
	CSHW	0	0	0	0
	CSTH	5	314	252	566
	DMH	0	0	0	0
	IDH-Angoda	0	0	0	0
	KDU	26	928	1318	2246
	LRH	0	0	0	0
	NBC	703	8795	60154	68949
	NFTH	0	0	0	0
	NHSL	3	408	230	638
	NINDT-Maligawaththa	0	0	0	0
SJGH	47	322	3319	3641	

BLOOD COLLECTION Cont...

Cluster	Blood Bank	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Gampaha Cluster	Gampaha	99	645	5209	5854
	Meerigama	11	120	383	503
	Minuwangoda	24	144	1410	1554
	Wathupitiwala	70	350	3146	3496
Hambantota Cluster	Hambantota	109	358	6734	7092
	Tangalle	31	292	1858	2150
	Tissamaharama	0	138	0	138
	Walasmulla	24	106	1169	1275
Jaffna Cluster	Chavakachcheri	0	0	0	0
	Jaffna	179	1936	7211	9147
	Kayts	0	0	0	0
	Kilinochchi	15	455	877	1332
	Mulathiv	18	170	1007	1177
	Point Pedro	21	283	444	727
	Tellippalai	47	207	1423	1630
Kalutara Cluster	Horana	27	271	2191	2462
	Kalutara	144	449	9111	9560
	Kethumathie	26	53	1599	1652
	Panadura	16	139	815	954
Kandy Cluster	Dambulla	43	477	2827	3304
	Kandy	242	1792	21715	23507
	Matale	67	379	3868	4247
	Theldeniya	17	198	1132	1330
Karapitiya Cluster	Balapitiya	23	161	1435	1596
	Elpitiya	28	176	1510	1686
	Karapitiya	196	1227	13702	14929
	Mahamodara	24	79	1086	1165
	Udugama	0	153	0	153
Kegalle Cluster	Karawanella	0	0	0	0
	Kegalle	131	442	8030	8472
	Mawanella	25	156	1617	1773
	Warakapola	0	0	0	0
Kurunegala Cluster	Dambadeniya	26	113	1629	1742
	Galgamuwa	0	188	0	188
	Kuliyapitiya	57	383	4381	4764
	Kurunegala	339	2338	33541	35879
	Nikaweratiya	53	60	4048	4108
Matara Cluster	Deniyaya	0	0	0	0
	Kamburugamuwa	177	439	16395	16834
	Kamburupitiya	0	130	0	130
	Matara	37	236	2161	2397
	New DGH Kamburugamuwa	0	0	0	0

BLOOD COLLECTION Cont...

Cluster	Blood Bank	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Monaragala Cluster	Bibila	8	296	263	559
	Monaragala	138	497	7145	7642
	Wellawaya	3	93	118	211
Nuwara Eliya Cluster	Dikkoya	10	108	516	624
	Nuwara Eliya	91	360	4350	4710
	Rikillagaskada	11	240	449	689
Peradeniya Cluster	Gampola	43	52	2122	2174
	Nawalapitiya	46	188	2925	3113
	Peradeniya	177	655	11483	12138
Polonnaruwa Cluster	Dehiattakandiya	16	413	1005	1418
	Medirigiriya	0	249	0	249
	NNSH Polonnaruwa	0	0	0	0
	Polonnaruwa	181	881	10256	11137
Ratnapura Cluster	Balangoda	31	370	1664	2034
	Eheliyagoda	0	0	0	0
	Embilipitiya	47	221	3210	3431
	Kahawatta	0	143	0	143
	Ratnapura	182	637	13474	14111
Trincomalee Cluster	Kantale	0	86	0	86
	Kinniya	0	21	0	21
	Muththur	9	95	358	453
	Trincomalee	66	513	3233	3746
Vavniya Cluster	Chettikulam	0	0	0	0
	Mannar	17	249	947	1196
	Vavniya	48	485	3307	3792
Total		6288	49246	416815	466061

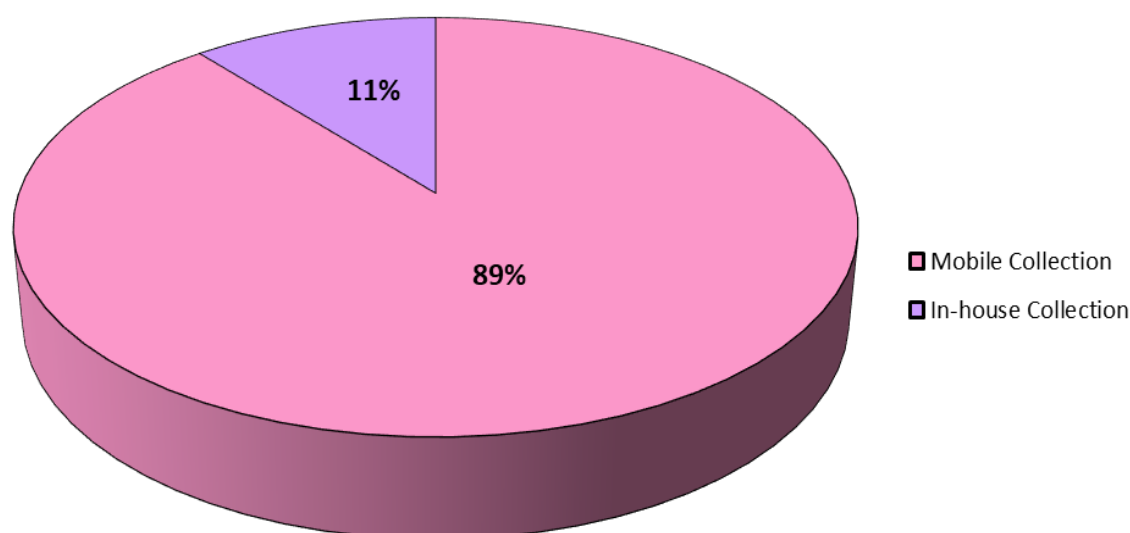


Figure 7.1 : Distribution of Total Blood Collection by Mode of Collection—2023

7.1 Analysis of Annual Blood Collection

Year	Voluntary Collection	Replacement Collection	Total Collection
2016	414 175	0	414 175
2017	423 668	0	423 668
2018	450 640	0	450 640
2019	444 515	0	444 515
2020	397 833	0	397 833
2021	385 054	0	385 054
2022	424127	0	424127
2023	466061	0	466061

Table 7.2 : Analysis of Annual Blood Collections

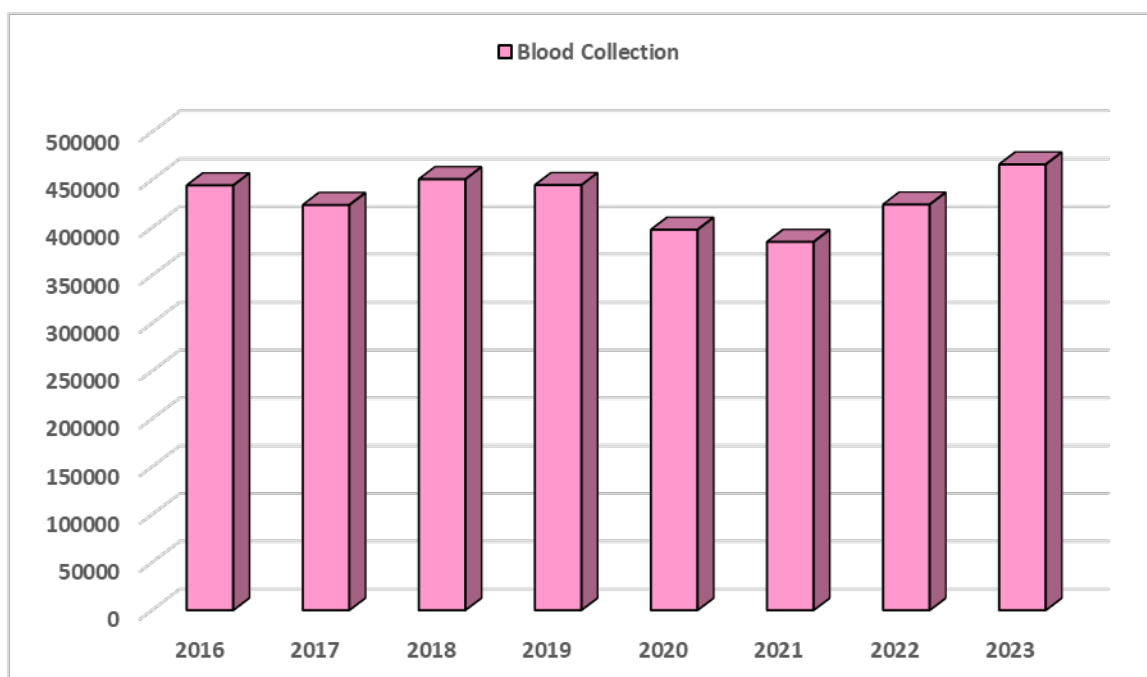


Figure 7.2: Yearly Comparison of Total Blood Collection

7.2 Analysis of Monthly Blood Collection

Period	2021	2022	2023
January	29083	36962	40726
February	30200	34727	40224
March	35865	35160	36590
April	31035	30656	37046
May	35692	35932	42097
June	26291	34929	39724
July	29143	34297	40379
August	30803	39497	39387
September	37380	37569	37769
October	31810	32819	37168
November	33670	33616	36733
December	34082	37963	38218
Total	385054	424127	466061

Table 7.3 : Yearly Comparison of Monthly Blood Collection

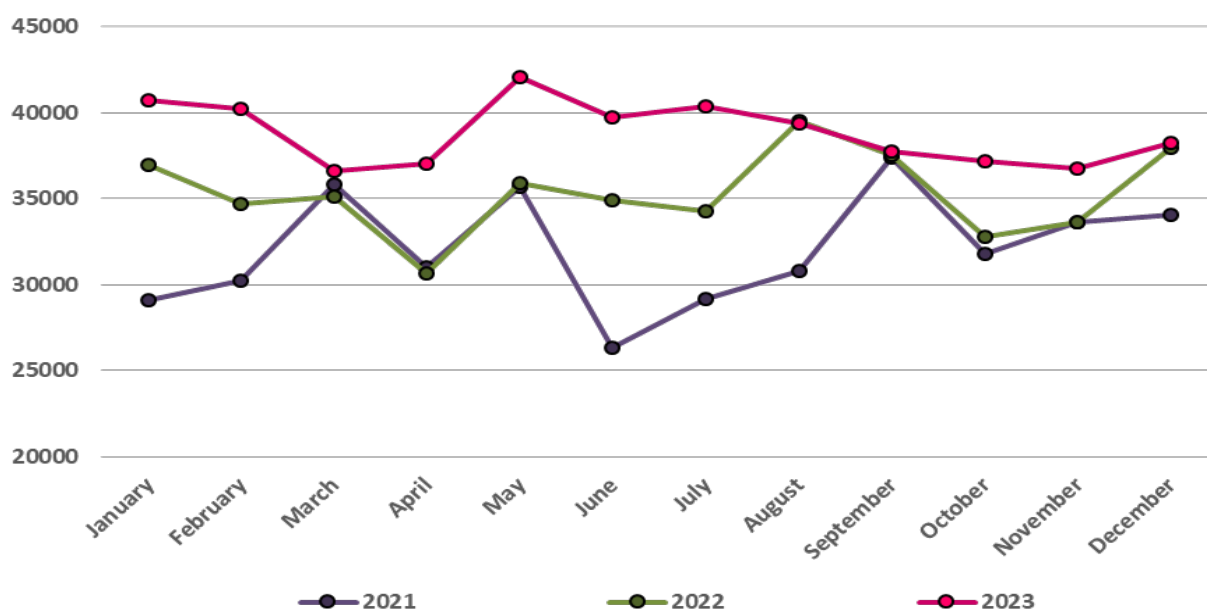


Figure 7.3: Yearly Comparison of Monthly Blood Collections

Period	Number of Mobiles	In-House Donations	Mobile Donations	Total Donations
January	495	4849	35877	40726
February	478	4079	36145	40224
March	517	4005	32585	36590
April	505	4444	32602	37046
May	488	4646	37451	42097
June	530	4427	35297	39724
July	544	3863	36516	40379
August	532	3767	35620	39387
September	535	3735	34034	37769
October	512	3622	33546	37168
November	601	3831	32902	36733
December	551	3978	34240	38218
Total	6288	49246	416815	466061

Table 7.4 : Analysis of Monthly Variations in Blood Collection - 2023

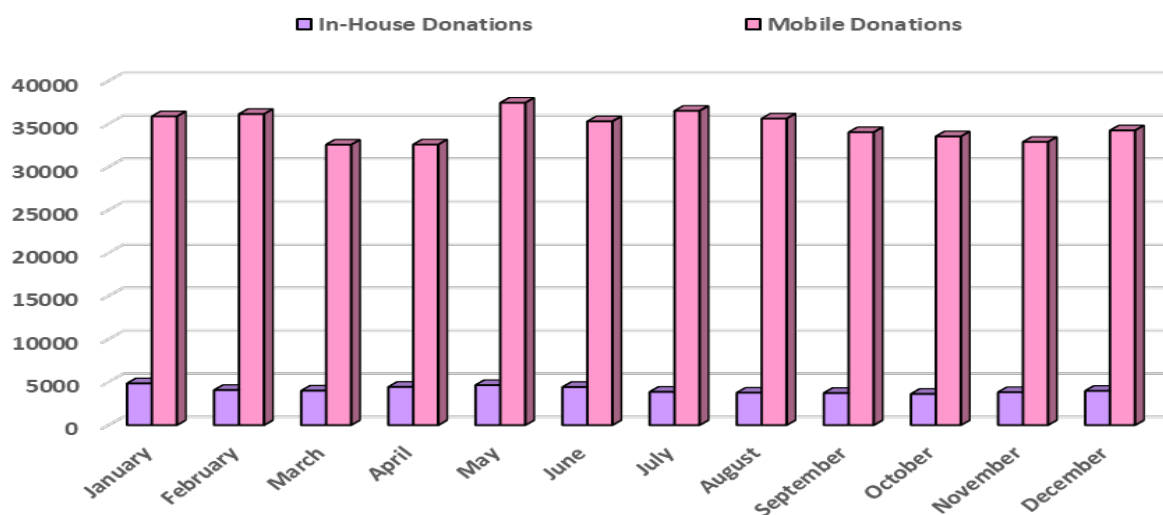


Figure 7.4: Analysis of Monthly Variations in Blood Collection – 2023

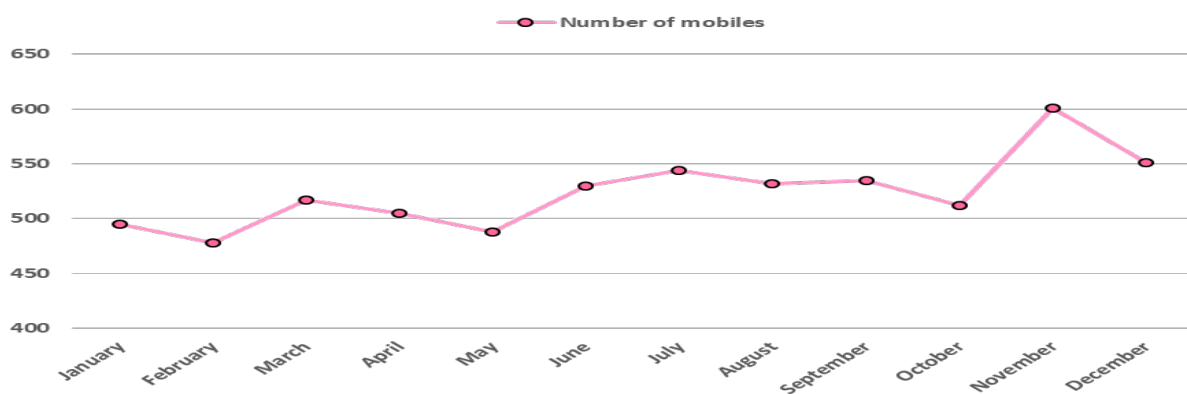


Figure 7.5: Monthly Variation in Number of Mobiles—2023

7.3 Cluster-wise Blood Collection

Cluster	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Ampara Cluster	222	2398	12780	15178
Anuradhapura Cluster	348	2220	24911	27131
Badulla Cluster	418	1656	15913	17569
Batticaloa Cluster	166	955	9015	9970
Chilaw Cluster	175	886	12940	13826
CIM Cluster	399	6702	22793	29495
CNTH Cluster	300	1462	22281	23743
Colombo Cluster	790	10872	65693	76565
Gampaha Cluster	204	1259	10148	11407
Hambantota Cluster	164	894	9761	10655
Jaffna Cluster	280	3051	10962	14013
Kalutara Cluster	213	912	13716	14628
Kandy Cluster	369	2846	29542	32388
Karapitiya Cluster	271	1796	17733	19529
Kegalle Cluster	156	598	9647	10245
Kurunegala Cluster	475	3082	43599	46681
Matara Cluster	214	805	18556	19361
Monaragala Cluster	149	886	7526	8412
Nuwara Eliya Cluster	112	708	5315	6023
Peradeniya Cluster	266	895	16530	17425
Polonnaruwa Cluster	197	1543	11261	12804
Ratnapura Cluster	260	1371	18348	19719
Trincomalee Cluster	75	715	3591	4306
Vavniya Cluster	65	734	4254	4988
Total	6288	49246	416815	466061

Table 7.5 : Total Blood Collection—Cluster wise 2023

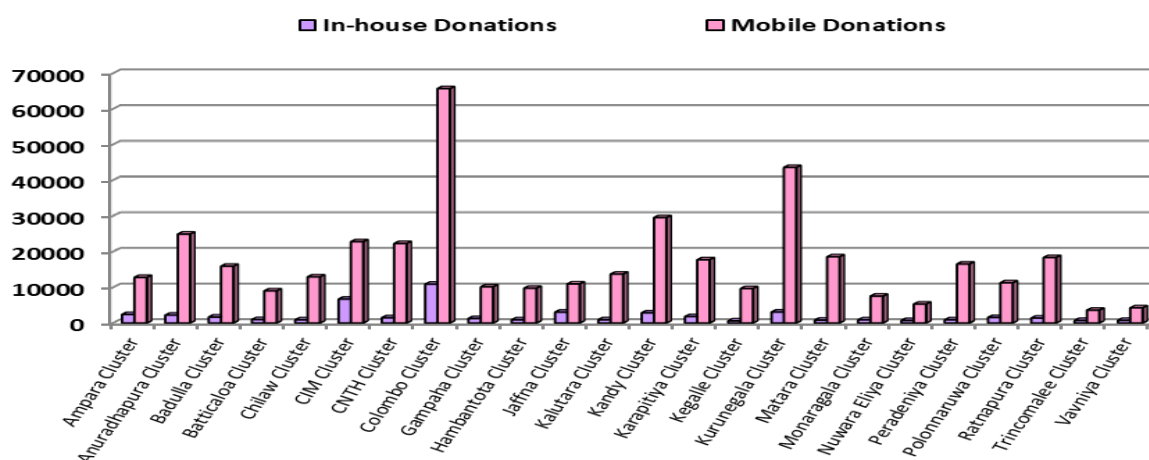


Figure 7.6: Total Blood Collection—Cluster wise 2023

7.4 Yearly Analysis of Cluster Collection

Cluster	2021	2022	2023
Ampara Cluster	11360	13105	15178
Anuradhapura Cluster	25535	23523	27131
Badulla Cluster	15692	15687	17569
Batticaloa Cluster	5098	7547	9970
Chilaw Cluster	13186	14068	13826
CIM Cluster	19936	24839	29495
CNTH Cluster	18295	20535	23743
Colombo Cluster	59450	71080	76565
Gampaha Cluster	9137	13565	11407
Hambantota Cluster	9786	10974	10655
Jaffna Cluster	11532	12985	14013
Kalutara Cluster	11915	13295	14628
Kandy Cluster	22689	27349	32388
Karapitiya Cluster	18955	18648	19529
Kegalle Cluster	8172	9086	10245
Kurunegala Cluster	35803	41682	46681
Matara Cluster	19983	19417	19361
Monaragala Cluster	7551	7566	8412
Nuwara Eliya Cluster	12341	5996	6023
Peradeniya Cluster	14138	15522	17425
Polonnaruwa Cluster	11079	11608	12804
Ratnapura Cluster	16132	17199	19719
Trincomalee Cluster	3779	4022	4306
Vavniya Cluster	3510	4829	4988
Total	385054	424127	466061

Table 7.6 : Yearly Comparison of Cluster Collection

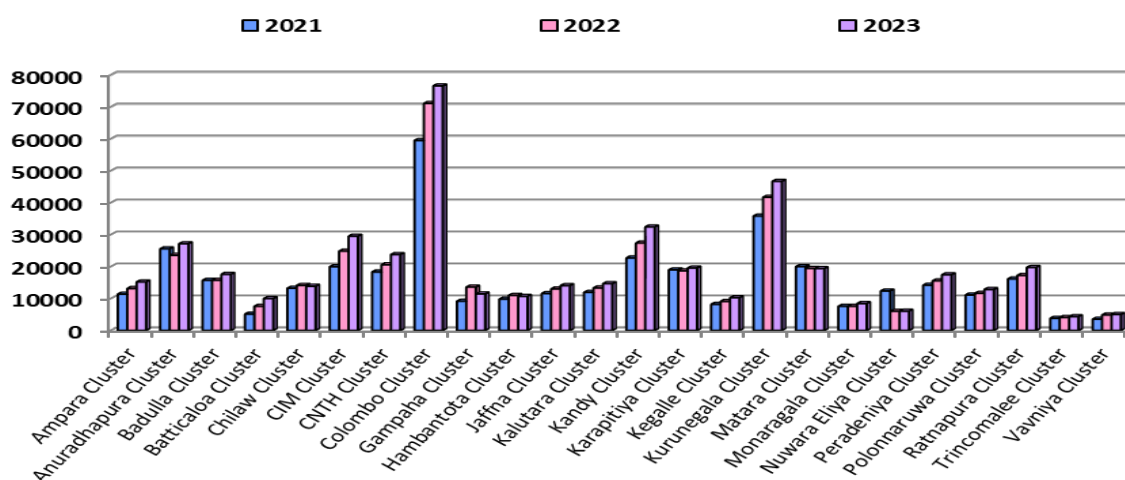


Figure 7.7: Yearly Comparison of Cluster Collection

7.5 Demographics of Blood Donors

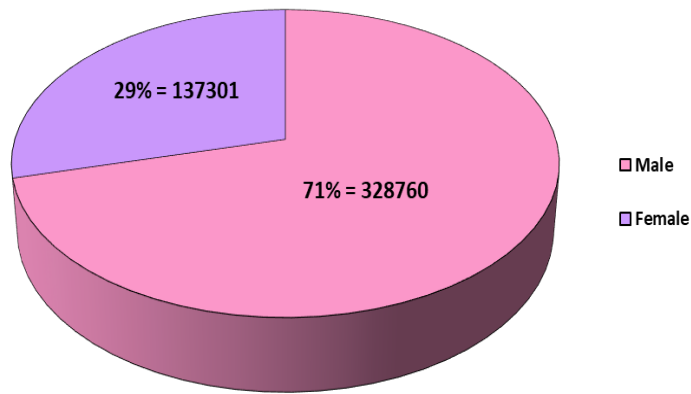


Figure 7.8: Gender Distribution of Blood Donors—2023

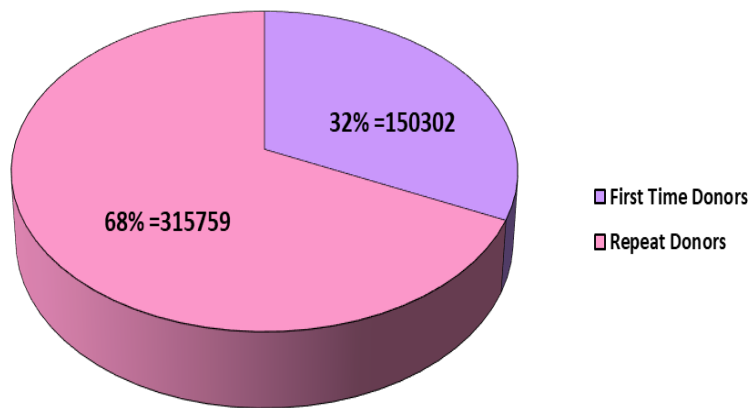


Figure 7.9: Donor Population According to Number of Donors—2023

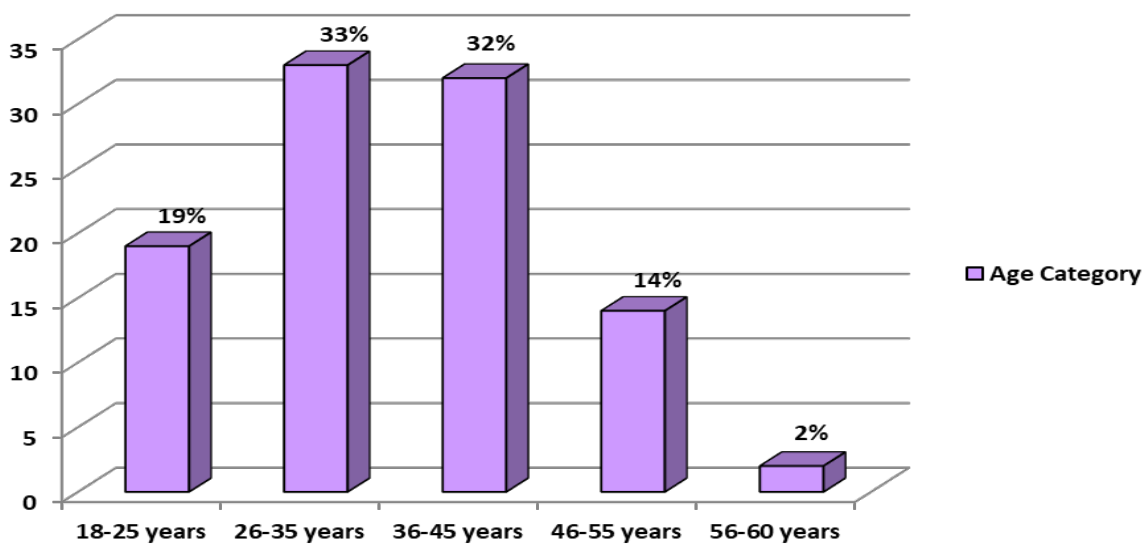


Figure 7.10: Donor Population According to Age Category—2023

7.6 ABO and Rh Group Distribution of Blood Collection

	A	B	AB	O	Bombay O	Other	Total
Rh +	94443	121250	22942	192663	28	1976	433302
%	20.44	26.24	4.96	41.69	0.01	0.43	93.76
Rh -	5656	6915	1427	12406	0	125	26529
%	1.22	1.50	0.31	2.68	0.00	0.03	5.74
Weak D	314	599	135	923	0	319	2290
%	0.07	0.13	0.03	0.20	0.00	0.07	0.5
Total	100413	128764	24504	205992	28	2420	462121

Table 7.7 : ABO and Rh Group Analysis of Collection—2023

■ Group A ■ Group B ■ Group AB ■ Group O ■ Bombay O ■ Other

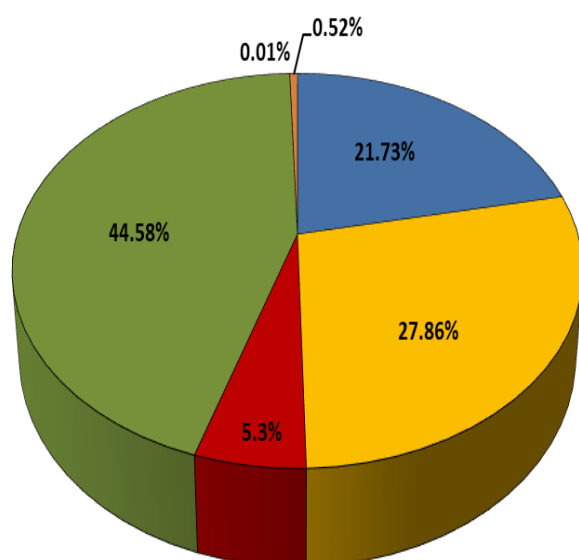


Figure 7.11: ABO Distribution of Donor Population—2023

■ Rh D Positive ■ Rh D Negative ■ Weak D

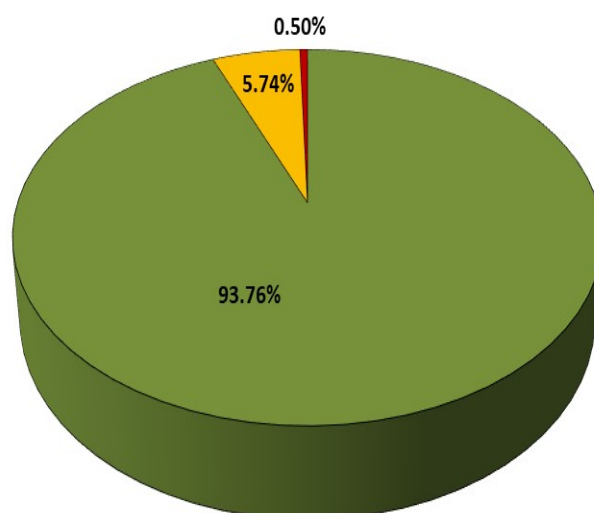


Figure 7.12: Rh Distribution of Donor Population—2023

08 PREPARATION OF BLOOD COMPONENTS

Cluster	Blood Bank	RCC	PLT	FFP	CSP	Cryo	Stored Plasma	Buffy Coat
Ampara Cluster	Akkarepattu	434	0	0	0	0	148	0
	Ampara	12940	8873	12939	1937	1948	0	0
	Kalmunai North	249	0	0	0	0	249	0
	Kalmunai South	511	0	0	0	0	511	0
	Mahaoya	274	0	0	0	0	162	0
	Pothuvil	273	0	0	0	0	238	0
	Sammanthurai	160	0	0	0	0	159	0
Anuradhapura Cluster	Anuradhapura	28054	13846	28054	1856	1856	0	0
	Medawachchiya	0	0	0	0	0	0	0
	Padaviya	182	0	0	0	0	0	0
	Thambuttegama	0	0	0	0	0	0	0
Badulla Cluster	Badulla	17145	13095	17140	35	618	0	0
	Diyatalawa	0	0	0	0	0	0	0
	Mahiyanganaya	0	0	0	0	0	448	0
	Welimada	168	0	168	0	0	0	0
Batticaloa Cluster	Batticaloa	10091	4184	9410	1096	1078	755	0
	Kalawanchikudi	0	0	0	0	0	0	0
	Kattankudy	0	0	0	0	0	0	0
	Valachchenai	0	0	0	0	0	0	0
Chilaw Cluster	Chilaw	12757	4033	5634	118	204	0	0
	Kalpitiya	0	0	0	0	0	0	0
	Marawila	230	0	230	0	0	0	0
	Puttlam	284	0	284	0	0	0	0
CIM Cluster	Apeksha	28415	28231	28415	0	0	0	16557
	Awissawella	766	0	766	0	0	0	0
	Homagama	2070	0	64	0	0	0	0
CNTH Cluster	CNTH	20816	12700	17230	4277	5725	0	12560
	Kiribathgoda	0	0	0	0	0	0	0
	Negambo	247	0	0	0	0	247	0
	Welisara	0	0	0	0	0	0	0
Colombo Cluster	Accident Service	0	0	0	0	0	0	0
	Army Hospital	0	0	0	0	0	0	0
	CEBH-Mulleriyawa	0	0	0	0	0	0	0
	CSHW	0	0	0	0	0	0	0
	CSTH	109	0	109	0	0	0	0
	DMH	0	0	0	0	0	0	0
	IDH-Angoda	0	0	0	0	0	0	0
	KDU	1424	1360	1333	0	0	53	0
	LRH	0	0	0	0	0	0	0
	NBC	76554	55105	64671	10790	11064	0	3441
	NFTH	0	0	0	0	0	0	0
	NHSL	0	0	0	0	0	0	0
	NINDT-Maligawaththa	0	0	0	0	0	0	0
SJGH	3559	2359	2844	806	706	0	0	

PREPARATION OF BLOOD COMPONENTS Cont...

Cluster	Blood Bank	RCC	PLT	FFP	CSP	Cryo	Stored Plasma	Buffy Coat
Gampaha Cluster	Gampaha	6713	3288	5899	564	369	5	0
	Meerigama	0	0	0	0	0	0	0
	Minuwangoda	13	0	13	0	0	0	0
	Wathupitiwala	3679	1634	3049	503	503	2	0
Hambantota Cluster	Hambantota	10094	4241	6530	2732	2732	0	3525
	Tangalle	278	115	276	0	0	0	0
	Tissamaharama	0	0	0	0	0	0	0
	Walasmulla	3	0	0	3	0	0	0
Jaffna Cluster	Chavakachcheri	0	0	0	0	0	0	0
	Jaffna	12260	7334	8075	3051	3051	103	4333
	Kayts	0	0	0	0	0	0	0
	Kilinochchi	608	413	608	0	0	0	0
	Mulathiv	595	0	595	0	0	0	0
	Point Pedro	270	0	270	0	0	0	0
	Tellippalai	94	0	91	0	0	0	0
Kalutara Cluster	Horana	270	0	270	0	0	0	0
	Kalutara	11503	5665	7735	3617	3683	66	0
	Kethumathie	39	0	31	0	0	8	0
	Panadura	139	0	0	139	0	0	0
Kandy Cluster	Dambulla	3295	0	527	0	0	0	0
	Kandy	20552	12482	16219	0	1799	0	7053
	Matale	4437	2849	4225	347	492	145	0
	Theldeniya	0	0	0	0	0	0	0
Karapitiya Cluster	Balapitiya	1583	54	114	59	102	1367	0
	Elpitiya	1685	140	200	0	30	1292	0
	Karapitiya	14820	11474	14553	2273	2273	0	7154
	Mahamodara	0	54	76	59	74	805	0
	Udugama	149	0	147	0	0	0	0
Kegalle Cluster	Karawanella	0	0	0	0	0	0	0
	Kegalle	9044	4612	6537	1479	1652	173	403
	Mawanella	151	17	24	0	0	127	0
	Warakapola	0	0	0	0	0	0	0
Kurunegala Cluster	Dambadeniya	92	0	0	0	0	92	0
	Galgamuwa	0	0	0	0	0	0	0
	Kuliyapitiya	335	0	335	0	0	0	0
	Kurunegala	46077	35622	42465	4642	4642	0	27136
	Nikaweratiya	58	0	58	0	0	0	0
Matara Cluster	Deniyaya	0	0	0	0	0	0	0
	Kamburugamuwa	18935	12110	18833	4543	4536	101	7019
	Kamburupitiya	0	0	0	0	0	0	0
	Matara	0	0	0	0	0	0	0
	New DGH Kamburugamuwa	0	0	0	0	0	0	0
Monaragala Cluster	Bibila	0	0	0	0	0	0	0
	Monaragala	8233	4165	6651	1619	1652	0	0
	Wellawaya	0	0	0	0	0	0	0
Nuwara Eliya Cluster	Dikkoya	9	0	9	0	0	0	0
	Nuwara Eliya	5587	2048	4963	600	600	0	0
	Rikillagaskada	251	0	0	0	0	0	0

PREPARATION OF BLOOD COMPONENTS Cont...

Cluster	Blood Bank	RCC	PLT	FFP	CSP	Cryo	Stored Plasma	Buffy Coat
Peradeniya Cluster	Gampola	52	0	43	0	0	0	0
	Nawalapitiya	188	0	0	0	0	2088	0
	Peradeniya	17109	10901	9348	1364	1417	0	5786
Polonnaruwa Cluster	Dehi-attakandiya	410	0	249	0	0	38	0
	Medirigiriya	238	0	0	0	0	0	0
	NNSH Pol-onnaruwa	0	0	0	0	0	0	0
	Polonnaruwa	11971	5323	11910	515	524	0	353
Ratnapura Cluster	Balangoda	0	0	0	0	0	0	0
	Eheliyagoda	0	0	0	0	0	0	0
	Embilipitiya	0	0	0	0	0	0	0
	Kahawatta	0	0	0	0	0	0	0
	Ratnapura	16875	7319	16915	466	1075	0	0
Trincomalee Cluster	Kantale	0	0	0	0	0	0	0
	Kinniya	0	0	0	0	0	0	0
	Muththur	0	0	0	0	0	0	0
	Trincomalee	4381	2237	4537	1394	1387	0	0
Vavniya Cluster	Chettikulam	0	0	0	0	0	0	0
	Mannar	0	0	0	0	0	0	0
	Vavniya	3120	982	2356	527	527	0	0
Total		453907	278865	384027	51411	56319	9382	95320

Table 8.1 : Statistics of Blood Component Preparation 2023

8.1 Component Preparation Analysis

	2016	2017	2018	2019	2020	2021	2022	2023
RCC	408 959	417 792	446 098	443 235	395 319	382 422	422080	453907
PLT	248 644	252 865	263 720	274 499	272 613	251 055	230480	278865
FFP	369 299	378 983	390 671	399 052	344 779	326 349	361061	384027

Table 8.2: Yearly Comparison of Component Preparation

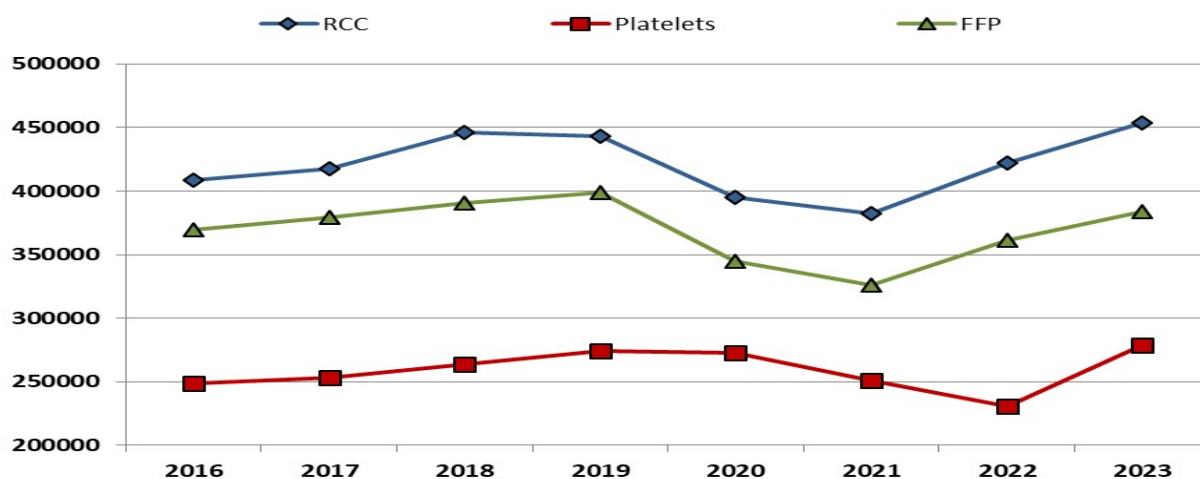


Figure 8.1: Yearly Comparison of Component Preparation

Blood Bank	No. of Procedures	No. of Units Collected
Ampara	4	29
Anuradhapura	2	22
Apeksha	146	1783
Jaffna	16	189
Kandy	19	283
NBC	276	3752.8
Total	464	6058.8

Table 8.3: Platelet Apheresis Donations 2023

9 STATISTICS OF RCC CROSSMATCHES AND ISSUES

Cluster	Blood Bank	Requests	Cross Matches	Issues	C:I Ratio
Ampara Cluster	Akkarepattu	5965	5811	1956	3
	Ampara	16061	10665	8996	1.2
	Kalmunai North	3430	3322	1211	2.7
	Kalmunai South	5636	5647	1629	3.5
	Mahaoya	1251	1451	984	1.5
	Pothuvil	258	427	240	1.8
	Sammanthurai	1292	1178	499	2.4
Anuradhapura Cluster	Anuradhapura	43934	31094	21836	1.4
	Medawachchiya	0	0	0	0
	Padaviya	603	590	487	1.2
	Thambuttegama	4684	3750	2103	1.8
Badulla Cluster	Badulla	24604	14674	11635	1.3
	Diyatalawa	2837	3046	1453	2.1
	Mahiyanganaya	10004	9823	3196	3.1
	Welimada	3821	3821	1323	2.9
Batticaloa Cluster	Batticaloa	17987	17879	9980	1.8
	Kalawanchikudi	1514	1514	349	4.3
	Kattankudy	387	317	159	2
	Valachchenai	1147	926	403	2.3
Chilaw Cluster	Chilaw	13021	7420	7143	1
	Kalpitiya	0	0	0	0
	Marawila	6176	6063	2474	2.5
	Puttlam	11769	7187	4988	1.4
CIM Cluster	Apeksha	36824	29063	20809	1.4
	Awissawella	10771	9420	3745	2.5
	Homagama	7990	6613	2350	2.8
CNTH Cluster	CNTH	41743	26047	20489	1.3
	Kiribathgoda	0	0	0	0
	Negambo	16684	7316	4288	1.7
	Welisara	6645	4641	1185	3.9
Colombo Cluster	Accident Service	27143	8524	6266	1.4
	Army Hospital	3866	2331	1516	1.5
	CEBH-Mulleriyawa	2893	2771	1420	2
	CSHW	12360	7947	2358	3.4
	CSTH	30350	13123	11096	1.2
	DMH	9118	6550	1882	3.5
	IDH-Angoda	3983	3770	1373	2.7
	KDU	3890	2688	1884	1.4
	LRH	13432	12799	4186	3.1
	NBC	25313	22221	10677	2.1
	NFTH	1175	1171	618	1.9
	NHSL	75957	34939	25443	1.4
	NINDT-Maligawaththa	3197	3155	1385	2.3
SJGH	15997	7151	4448	1.6	

RCC CROSSMATCHES AND ISSUES Cont...

Cluster	Blood Bank	Requests	Cross Matches	Issues	C:I Ratio
Gampaha Cluster	Gampaha	14851	8515	4932	1.7
	Meerigama	1218	1138	643	1.8
	Minuwangoda	1000	909	535	1.7
	Wathupitiwala	10540	5877	3376	1.7
Hambantota Cluster	Hambantota	14185	8038	5225	1.5
	Tangalle	8763	5820	2974	2
	Tissamaharama	2599	1921	969	2
	Walasmulla	2949	2915	942	3.1
Jaffna Cluster	Chavakachcheri	0	0	0	0
	Jaffna	37220	14211	9907	1.4
	Kayts	0	0	0	0
	Kilinochchi	4852	2307	1905	1.2
	Mulathiv	1688	1503	771	1.9
	Point Pedro	2260	2264	956	2.4
	Tellippalai	3255	2247	1501	1.5
Kalutara Cluster	Horana	8876	8744	3801	2.3
	Kalutara	19809	10611	8098	1.3
	Kethumathie	3360	1337	439	3
	Panadura	5589	4599	2213	2.1
Kandy Cluster	Dambulla	8497	8071	3553	2.3
	Kandy	67539	32725	23007	1.4
	Matale	10183	9063	3259	2.8
	Theldeniya	3850	3615	1798	2
Karapitiya Cluster	Balapitiya	7114	7134	2278	3.1
	Elpitiya	6378	6338	2442	2.6
	Karapitiya	54041	39652	17762	2.2
	Mahamodara	9026	9266	1656	5.6
	Udugama	1902	1847	835	2.2
Kegalle Cluster	Karawanella	8818	7863	2363	3.3
	Kegalle	16429	15208	4733	3.2
	Mawanella	5628	5479	2163	2.5
	Warakapola	4920	4655	1736	2.7
Kurunegala Cluster	Dambadeniya	4040	1841	1374	1.3
	Galgamuwa	3808	3344	1147	2.9
	Kuliyapitiya	9656	10123	3968	2.6
	Kurunegala	64460	46085	35932	1.3
	Nikaweratiya	9936	7943	3544	2.2
Matara Cluster	Deniyaya	1380	1272	472	2.7
	Kamburugamuwa	0	0	0	0
	Kamburupitiya	4221	4416	1287	3.4
	Matara	14819	10417	6992	1.5
	New DGH Kamburugamuwa	4897	1735	827	2.1

RCC CROSSMATCHES AND ISSUES Cont...

Cluster	Blood Bank	Requests	Cross Matches	Issues	C:I Ratio
Monaragala Cluster	Bibila	3005	3175	1431	2.2
	Monaragala	12921	11890	6687	1.8
	Wellawaya	673	613	491	1.2
Nuwara Eliya Cluster	Dikkoya	2687	4891	2141	2.3
	Nuwara Eliya	8620	7788	3268	2.4
	Rikillagaskada	2443	3631	1144	3.2
Peradeniya Cluster	Gampola	5946	5283	2092	2.5
	Nawalapitiya	8171	7597	2805	2.7
	Peradeniya	24852	15039	10351	1.5
Polonnaruwa Cluster	Dehiattakandiya	1726	1682	916	1.8
	Medirigiriya	2547	2395	1287	1.9
	NNSH Polonnaruwa	1122	1290	823	1.6
	Polonnaruwa	21532	13064	8844	1.5
Ratnapura Cluster	Balangoda	5165	5271	2198	2.4
	Eheliyagoda	35	30	19	1.6
	Embilipitiya	8588	8664	3573	2.4
	Kahawatta	3854	3863	1785	2.2
	Ratnapura	31734	13278	13034	1
Trincomalee Cluster	Kantale	1309	1347	575	2.3
	Kinniya	1817	1105	345	3.2
	Muththur	556	912	313	2.9
	Trincomalee	7971	5633	3525	1.6
Vavniya Cluster	Chettikulam	0	0	0	0
	Mannar	3869	3849	1385	2.8
	Vavniya	9870	6062	3829	1.6
Total		1161281	798245	455638	1.8

Table 9.1 : Statistics of RCC Requests, Cross-matches and Issues 2023

10 STATISTICS OF OTHER BLOOD COMPONENT ISSUES

Cluster	Blood Bank	PC-Total	AP	FFP	Cryo	CSP	Buffy Coat
Ampara Cluster	Akkarepattu	164	0	151	100	0	0
	Ampara	1484	7	1502	516	0	0
	Kalmunai North	68	0	442	104	0	0
	Kalmunai South	97	6	258	100	0	0
	Mahaoya	0	0	75	0	0	0
	Pothuvil	0	0	21	0	0	0
	Sammanthurai	42	0	94	90	0	0
Anuradhapura Cluster	Anuradhapura	4727	60	3093	1092	75	24
	Medawachchiya	0	0	0	0	0	0
	Padaviya	0	0	0	0	0	0
	Thambuttegama	124	0	355	63	0	0
Badulla Cluster	Badulla	5038	6	5479	648	4	0
	Diyatalawa	193	0	865	34	0	0
	Mahiyanganaya	571	12	459	60	0	0
	Welimada	0	0	100	10	0	0
Batticaloa Cluster	Batticaloa	3132	24	4175	1621	47	0
	Kalawanchikudi	15	0	58	0	0	0
	Kattankudy	0	6	0	0	0	0
	Valachchenai	0	0	0	0	0	0
Chilaw Cluster	Chilaw	1034	0	1295	944	85	0
	Kalpitiya	0	0	0	0	0	0
	Marawila	167	0	2349	100	0	0
	Puttlam	730	0	3054	392	264	0
CIM Cluster	Apeksha	58698	2119	7463	902	0	2643
	Awissawella	881	0	600	610	0	0
	Homagama	407	0	899	50	0	0
CNTH Cluster	CNTH	3087	32	3669	3831	547	0
	Kiribathgoda	0	0	0	0	0	0
	Negambo	526	0	1400	579	37	0
	Welisara	303	0	495	510	139	0
Colombo Cluster	Accident Service	4758	24	4336	1682	340	0
	Army Hospital	575	6	801	330	26	0
	CEBH-Mulleriyawa	195	0	168	108	0	0
	CSHW	327	39	758	474	0	0
	CSTH	3303	12	3573	1027	1079	106
	DMH	334	27	303	210	0	22
	IDH-Angoda	348	6	540	270	4	10
	KDU	341	19	371	93	40	0
	LRH	3505	21	2181	2059	37	92
	NBC	6422	304.2	2531	1007	81	244
	NFTH	86	10	105	20	0	4
	NHSL	10602	1115	11187	4417	330	340
	NINDT-Maligawaththa	416	0	426	289	7	211
	SJGH	2331	0	2348	600	93	0

OTHER BLOOD COMPONENT ISSUES Cont...

Cluster	Blood Bank	PC-Total	AP	FFP	Cryo	CSP	Buffy Coat
Gampaha Cluster	Gampaha	811	7	2910	478	172	0
	Meerigama	16	0	137	0	0	0
	Minuwangoda	0	0	291	0	0	0
	Wathupitiwala	957	0	2146	787	0	0
Hambantota Cluster	Hambantota	915	0	1140	474	0	0
	Tangalle	281	0	428	170	69	0
	Tissamaharama	25	0	105	30	0	0
	Walasmulla	16	0	20	40	0	0
Jaffna Cluster	Chavakachcheri	0	0	0	0	0	0
	Jaffna	2231	92	3485	1845	31	0
	Kayts	0	0	0	0	0	0
	Kilinochchi	297	0	585	78	0	0
	Mulathiv	16	0	45	0	0	0
	Point Pedro	24	0	110	58	0	0
	Tellippalai	1067	121	116	655	0	0
Kalutara Cluster	Horana	713	0	1507	60	56	0
	Kalutara	1819	0	5694	246	311	0
	Kethumathie	24	0	81	11	0	0
	Panadura	356	0	1029	219	10	30
Kandy Cluster	Dambulla	463	0	948	70	0	0
	Kandy	16682	562.5	8787	2932	98	133
	Matale	406	0	1054	130	0	0
	Theldeniya	74	0	452	80	0	0
Karapitiya Cluster	Balapitiya	237	0	669	586	0	0
	Elpitiya	166	0	784	219	0	0
	Karapitiya	8387	12	9929	1989	264	0
	Mahamodara	737	0	269	252	0	0
	Udugama	72	0	115	20	0	0
Kegalle Cluster	Karawanella	429	0	785	506	0	0
	Kegalle	1069	0	2224	160	0	0
	Mawanella	339	0	1503	17	0	0
	Warakapola	106	0	704	205	77	0
Kurunegala Cluster	Dambadeniya	176	0	521	155	389	0
	Galgamuwa	82	0	166	71	0	0
	Kuliyapitiya	279	0	2224	122	5	0
	Kurunegala	7553	0	6367	732	707	0
	Nikaweratiya	282	0	469	85	0	0
Matara Cluster	Deniyaya	0	0	16	0	0	0
	Kamburugamuwa	0	0	0	0	0	0
	Kamburupitiya	103	0	333	88	0	0
	Matara	1689	0	1753	1060	88	0
	New DGH Kamburugamuwa	268	0	192	810	0	0

OTHER BLOOD COMPONENT ISSUES Cont...

Cluster	Blood Bank	PC-Total	AP	FFP	Cryo	CSP	Buffy Coat
Monaragala Cluster	Bibila	63	12	388	20	0	0
	Monaragala	1432	4	1456	1122	0	10
	Wellawaya	93	0	31	10	0	0
Nuwara Eliya Cluster	Dikkoya	257	0	535	145	3	0
	Nuwara Eliya	1400	0	2096	225	528	0
	Rikillagaskada	266	0	337	114	0	0
Peradeniya Cluster	Gampola	431	0	698	50	0	0
	Nawalapitiya	133	0	1024	60	0	0
	Peradeniya	2863	36	5010	1146	86	0
Polonnaruwa Cluster	Dehiattakandiya	0	0	24	0	0	0
	Medirigiriya	51	0	362	0	0	0
	NNSH Pol-onnaruwa	22	0	26	0	0	0
	Polonnaruwa	1279	36	1973	217	183	0
Ratnapura Cluster	Balangoda	201	0	501	86	209	0
	Eheliyagoda	0	0	0	0	0	0
	Embilipitiya	467	0	426	682	0	0
	Kahawatta	59	0	357	5	0	0
	Ratnapura	3475	0	4129	764	39	0
Trincomalee Cluster	Kantale	12	0	117	10	0	0
	Kinniya	0	10	48	0	16	0
	Muththur	4	0	25	0	0	0
	Trincomalee	588	0	810	265	0	0
Vavniya Cluster	Chettikulam	0	0	0	0	0	0
	Mannar	154	0	284	70	0	0
	Vavniya	569	0	826	396	0	10
Total		178017	4747.7	149555	45769	6576	3879

Table 10.1 : Statistics of Other Blood Components Issues 2023

	RCC	FFP	PC-Total	AP	Cryo	CSP	Buffy Coat
2021	376576	134736	155405	9552.6	46341	3117	1244
2022	418834	155355	151509	10215.4	42807	8858	1134
2023	455638	149555	178017	4747.7	45769	6576	3879

Table 10.2: Yearly Comparison of Blood Component Issues

11 SCREENING OF DONATED BLOOD FOR TRANSFUSION TRANSMITTED INFECTIONS

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total Number Of Units	380367	395500	414175	423668	450640	444515	397833	385054	424127	466061
HIV Screening Positives	648 (0.17%)	646 (0.16%)	696 (0.17%)	764 (0.18%)	797 (0.16%)	694 (0.16%)	533 (0.13%)	422 (0.109%)	1196 (0.282%)	1327 (0.284%)
HIV Confirmed Positives	26 (0.07%)	21 (0.005%)	25 (0.006%)	28 (0.0066%)	29 (0.006%)	44 (0.01%)	34 (0.008%)	56 (0.014%)	60 (0.014%)	73 (0.015%)
Hepatitis B Repeat Reactives	394 (0.10%)	409 (0.10%)	505 (0.12%)	618 (0.14%)	510 (0.11%)	528 (0.12%)	252 (0.06%)	751 (0.195%)	221 (0.052%)	208 (0.044%)
Hepatitis C Repeat Reactives	657 (0.17%)	800 (0.20%)	847 (0.20%)	905 (0.21%)	898 (0.20%)	804 (0.18%)	613 (0.15%)	495 (0.128%)	354 (0.083%)	449 (0.096%)
VDRL Positives	1265 (0.33%)	1125 (0.28%)	1027 (0.25%)	1411 (0.33%)	1577 (0.35%)	1344 (0.30%)	960 (0.24%)	1496 (0.388%)	2296 (0.541%)	1398 (0.299%)
TPPA/TPHA Positives	152 (0.04%)	175 (0.04%)	152 (0.036%)	152 (0.03%)	107 (0.02%)	119 (0.03%)	96 (0.02%)	153 (0.039%)	143 (0.033%)	211 (0.045%)
MP Positives	0	0	0	0	0	0	0	1 (0.0003%)	0	0

Table 11.1: Yearly Comparison of the Prevalence of TTI Markers

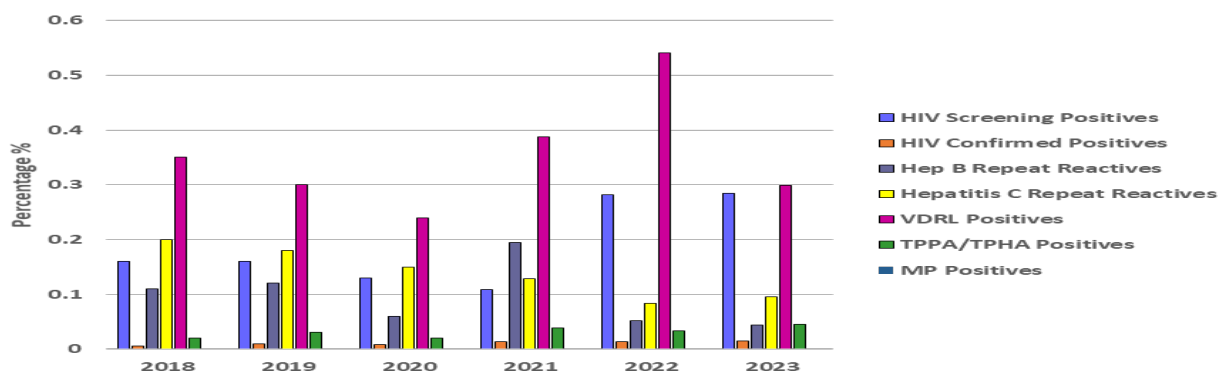


Figure 11.1: Yearly Comparison of the Prevalence of TTI Markers

11.1 Analysis of TTI Screening Statistics

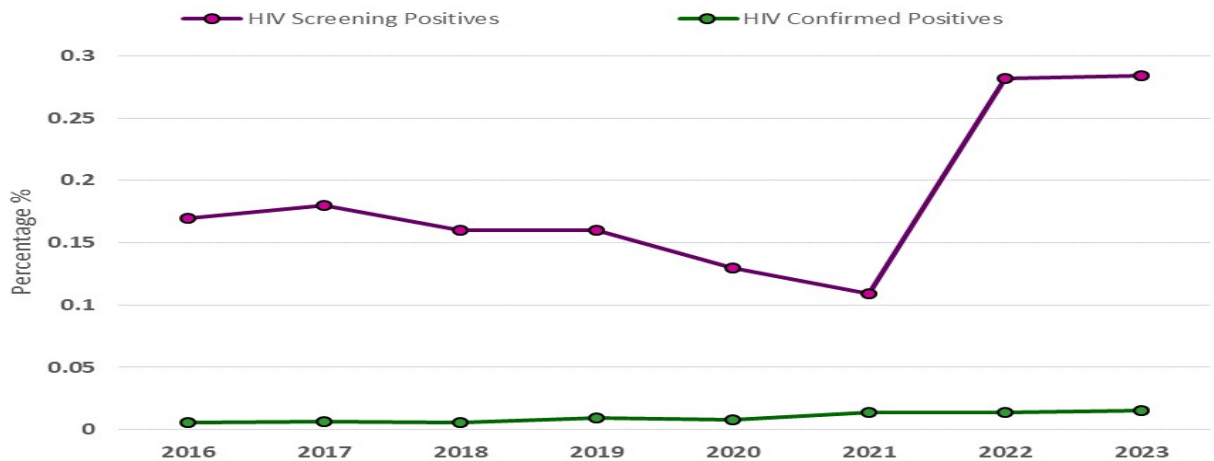


Figure 11.2: Yearly Comparison of the Prevalence of HIV Markers in Total Collection

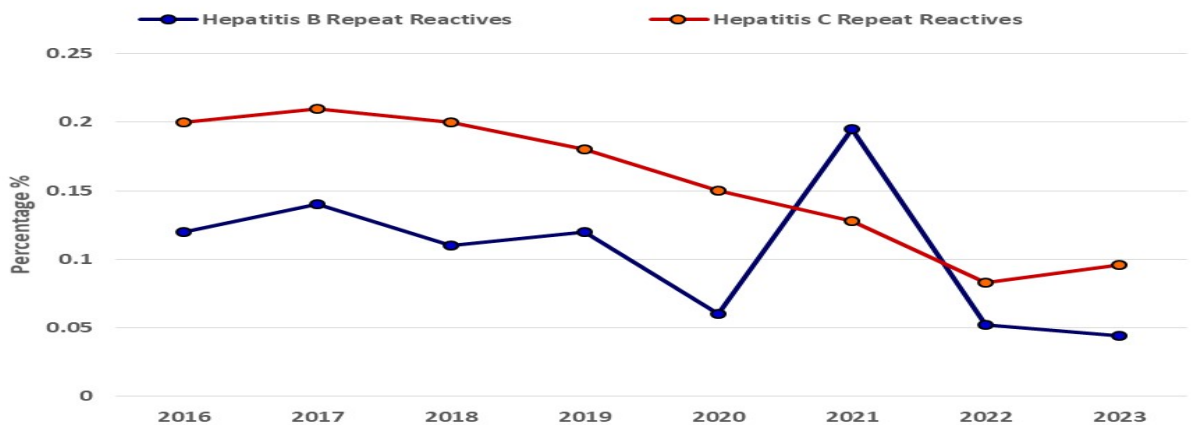


Figure 11.3: Yearly Comparison of the Prevalence of Hepatitis Markers in Total Collection

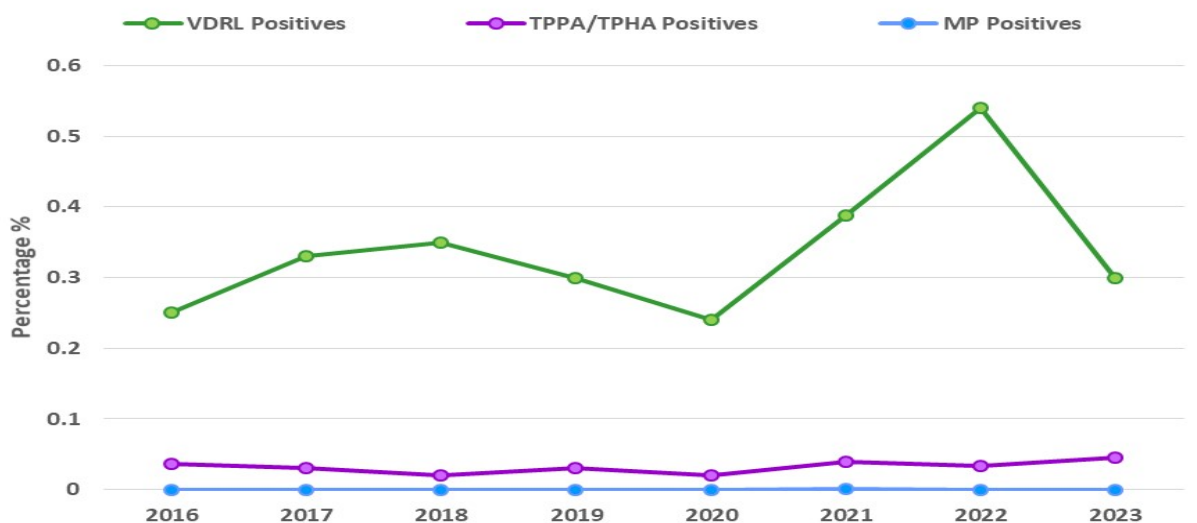


Figure 11.3: Yearly Comparison of the Prevalence of VDRL, TPPA and MP in Total Collection

12 RED CELL CONCENTRATE(RCC) DISCARDS

Cluster	Blood Bank	Scr +ve	Out Dated	Other	Total	RCC Discard Rate
Ampara Cluster	Akkarepattu	6	0	0	11	0.00
	Ampara	128	8	19	160	0.09
	Kalmunai North	3	9	0	12	0.74
	Kalmunai South	0	3	1	5	0.18
	Mahaoya	0	0	0	0	0.00
	Pothuvil	3	9	0	12	3.57
	Sammanthurai	0	3	1	5	0.60
Anuradhapura Cluster	Anuradhapura	244	83	7	378	0.37
	Medawachchiya	0	0	0	0	0.00
	Padaviya	1	0	0	4	0.00
	Thambuttegama	0	0	0	0	0.00
Badulla Cluster	Badulla	143	19	2	164	0.16
	Diyatalawa	21	62	1	94	4.01
	Mahiyanganaya	35	21	0	70	0.64
	Welimada	0	0	0	0	0.00
Batticaloa Cluster	Batticaloa	18	47	20	303	0.46
	Kalawanchikudi	0	0	0	0	0.00
	Kattankudy	0	0	0	0	0.00
	Valachchenai	0	0	0	0	0.00
Chilaw Cluster	Chilaw	0	20	12	111	0.28
	Kalpitiya	0	0	0		0.00
	Marawila	17	48	25	106	1.86
	Puttlam	17	6	0	25	0.12
CIM Cluster	Apeksha	160	10	34	343	0.05
	Awissawella	9	13	1	66	0.34
	Homagama	15	23	0	45	0.96
CNTH Cluster	CNTH	146	45	93	308	0.22
	Kiribathgoda	0	0	0	0	0.00
	Negambo	0	49	1	52	1.13
	Welisara	0	24	3	30	1.98
Colombo Cluster	Accident Service	0	41	6	49	0.65
	Army Hospital	0	5	0	5	0.33
	CEBH-Mulleriyawa	0	0	0	2	0.00
	CSHW	0	10	7	17	0.42
	CSTH	0	2	1	5	0.02
	DMH	0	1	4	16	0.05
	IDH-Angoda	0	5	0	5	0.36
	KDU	0	30	2	34	1.56
	LRH	0	1	0	3	0.02
	NBC	369	39	97	540	0.35
	NFTH	0	107	0	108	14.74
	NHSL	0	110	1	198	0.43
	NINDT-Maligawaththa	0	0	0	0	0.00
SJGH	14	0	0	20	0.00	

RCC DISCARDS Cont...

Cluster	Blood Bank	Scr +ve	Out Dated	Other	Total	RCC Discard Rate
Gampaha Cluster	Gampaha	28	10	8	87	0.20
	Meerigama	1	17	0	28	2.53
	Minuwangoda	0	5	0	6	0.92
	Wathupitiwala	19	10	1	47	0.29
Hambantota Cluster	Hambantota	109	0	31	154	0.00
	Tangalle	0	1	0	2	0.03
	Tissamaharama	0	0	0	0	0.00
	Walasmulla	0	0	0	0	0.00
Jaffna Cluster	Chavakachcheri	0	0	0	0	0.00
	Jaffna	119	6	133	268	0.06
	Kayts	0	0	0	0	0.00
	Kilinochchi	0	7	5	34	0.36
	Mulathiv	7	0	2	9	0.00
	Point Pedro	2	5	2	12	0.52
	Tellippalai	24	1	2	29	0.07
Kalutara Cluster	Horana	0	88	6	119	2.24
	Kalutara	103	4	34	164	0.05
	Kethumathie	7	0	1	17	0.00
	Panadura	0	24	0	28	1.07
Kandy Cluster	Dambulla	23	47	10	94	1.29
	Kandy	0	52	0	54	0.23
	Matale	24	3	14	88	0.09
	Theldeniya	4	8	2	16	0.44
Karapitiya Cluster	Balapitiya	19	62	0	97	2.61
	Elpitiya	0	34	6	69	1.35
	Karapitiya	97	87	14	298	0.48
	Mahamodara	2	85	0	100	4.84
	Udugama	0	6	0	6	0.71
Kegalle Cluster	Karawanella	0	5	0	6	0.21
	Kegalle	13	2	2	60	0.04
	Mawanella	2	10	1	29	0.46
	Warakapola	0	3	0	4	0.17

RCC DISCARDS Cont...

Cluster	Blood Bank	Scr +ve	Out Dated	Other	Total	RCC Discard Rate
Kurunegala Cluster	Dambadeniya	13	5	0	28	0.36
	Galgamuwa	0	2	0	5	0.17
	Kuliyapitiya	35	17	1	82	0.42
	Kurunegala	161	36	1	249	0.10
	Nikaweratiya	25	22	4	52	0.61
Matara Cluster	Deniyaya	0	0	0	0	0.00
	Kamburugamuwa	199	3	10	217	1.38
	Kamburupitiya	0	1	0	2	0.08
	Matara	0	18	0	21	0.26
	New DGH Kamburugamuwa	0	0	0	0	0.00
Monaragala Cluster	Bibila	0	18	2	20	1.24
	Monaragala	60	24	3	97	0.35
	Wellawaya	0	5	0	8	1.00
Nuwara Eliya Cluster	Dikkoya	0	1	0	3	0.05
	Nuwara Eliya	0	1	5	7	0.03
	Rikillagaskada	0	1	0	1	0.09
Peradeniya Cluster	Gampola	8	15	0	28	0.71
	Nawalapitiya	8	18	1	33	0.63
	Peradeniya	15	11	14	122	0.11
Polonnaruwa Cluster	Dehiattakandiya	0	0	1	1	0.00
	Medirigiriya	0	0	2	4	0.00
	NNSH Polonnaruwa	0	0	0	0	0.00
	Polonnaruwa	80	0	9	102	0.00
Ratnapura Cluster	Balangoda	14	42	16	95	1.83
	Eheliyagoda	0	0	0	0	0.00
	Embilipitiya	8	9	0	27	0.25
	Kahawatta	0	1	2	6	0.06
	Ratnapura	134	37	10	185	0.28
Trincomalee Cluster	Kantale	0	0	0	0	0.00
	Kinniya	0	0	0	0	0.00
	Muththur	0	0	0	0	0.00
	Trincomalee	34	11	5	76	0.31
Vavniya Cluster	Chettikulam	0	0	0	0	0.00
	Mannar	2	9	0	11	0.64
	Vavniya	0	0	0	35	0.00
Total		2748	1742	698	6748	0.38

Table 12.1 : Statistics of RCC Discards 2023

12.1 Analysis of RCC Discards Statistics

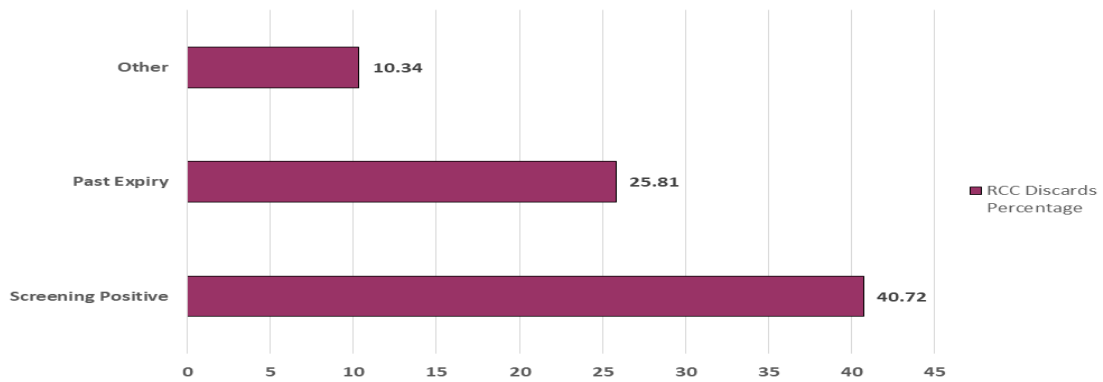


Figure 12.1: Distribution of RCC Discards in Percentage—2023

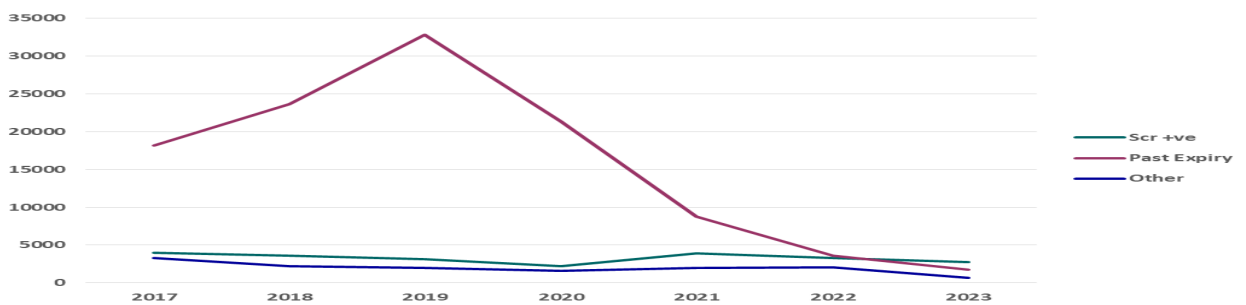


Figure 12.2: Yearly Comparison of RCC Discards Distribution

Year	Scr +ve	Past Expiry	Other	Total Discards	RCC Discard Rate
2017	3966	18153	3283	25402	4.34
2018	3586	23617	2192	30341	5.34
2019	3160	32838	1965	39065	7.40
2020	2250	21307	1605	26043	5.27
2021	3928	8734	1991	14653	2.23
2022	3313	3622	2043	8978	0.85
2023	2748	1742	698	6748	0.38

Table 12.2: Yearly Comparison of Total RCC Discards

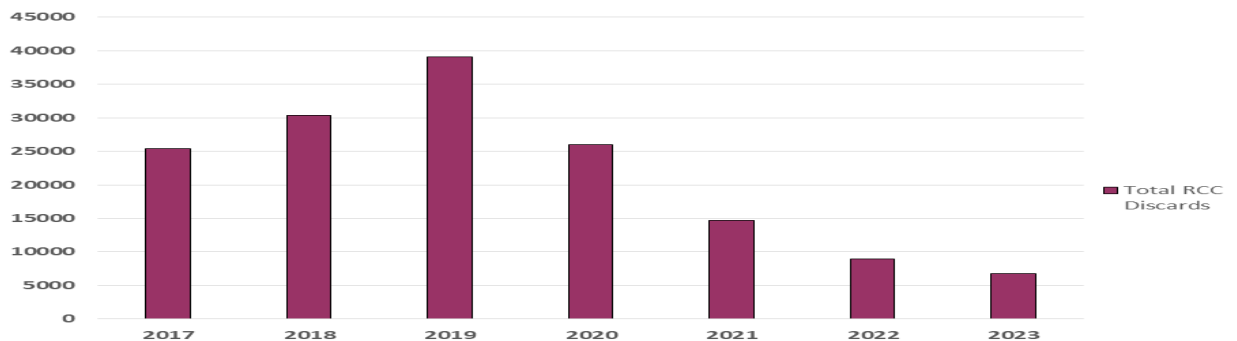


Figure 12.3: Yearly Comparison of Total RCC Discards

12.2 Analysis of Monthly Statistics of RCC

Period	Total Donations	RCC Issues	Out Dated RCC	RCC Discard Rate
January	40726	38730	146	0.37
February	40224	35959	140	0.38
March	36590	40231	279	0.68
April	37046	36816	165	0.44
May	42097	39445	186	0.46
June	39724	38851	210	0.53
July	40379	38807	179	0.45
August	39387	38850	139	0.35
September	37769	36816	83	0.22
October	37168	38326	51	0.13
November	36733	36217	57	0.16
December	38218	36590	107	0.29
Total	466061	455638	1742	0.38

Table 12.3: Comparison of Monthly Statistics of RCC - 2023

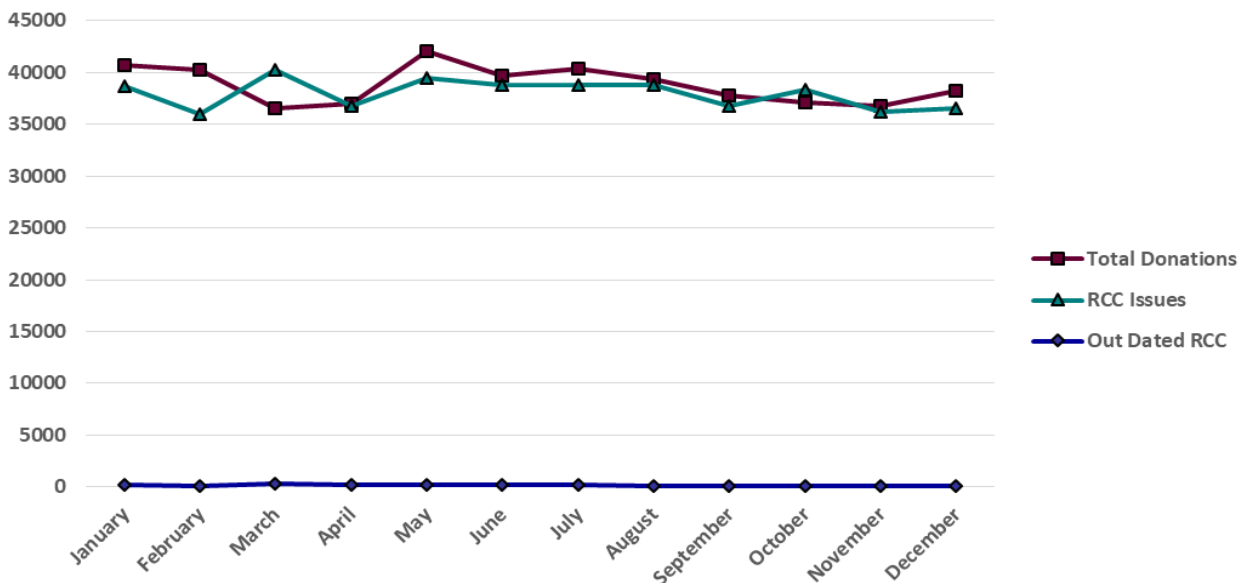


Figure 12.4: Comparison of Monthly Statistics of RCC - 2023

13 ANALYSIS OF MONTHLY STATISTICS OF PLATELETS

Period	Total PC Production	Total PC Issues	Out Dated PC-WBD	PC Discard Rate
January	20997	13570	5754	28.2
February	19256	12189	6013	31.8
March	22488	14109	6338	30.4
April	22307	13644	6878	31.2
May	22605	15778	7544	31
June	22974	14664	8264	35.3
July	23390	15953	8152	32.6
August	26139	16029	8296	33.3
September	25230	14710	8270	35
October	25131	17212	7997	30.8
November	24085	14673	7485	32.7
December	24263	15486	8117	33.4
Total	278865	178017	89108	32.2

Table 13.1 Comparison of Monthly Statistics of PC—2023

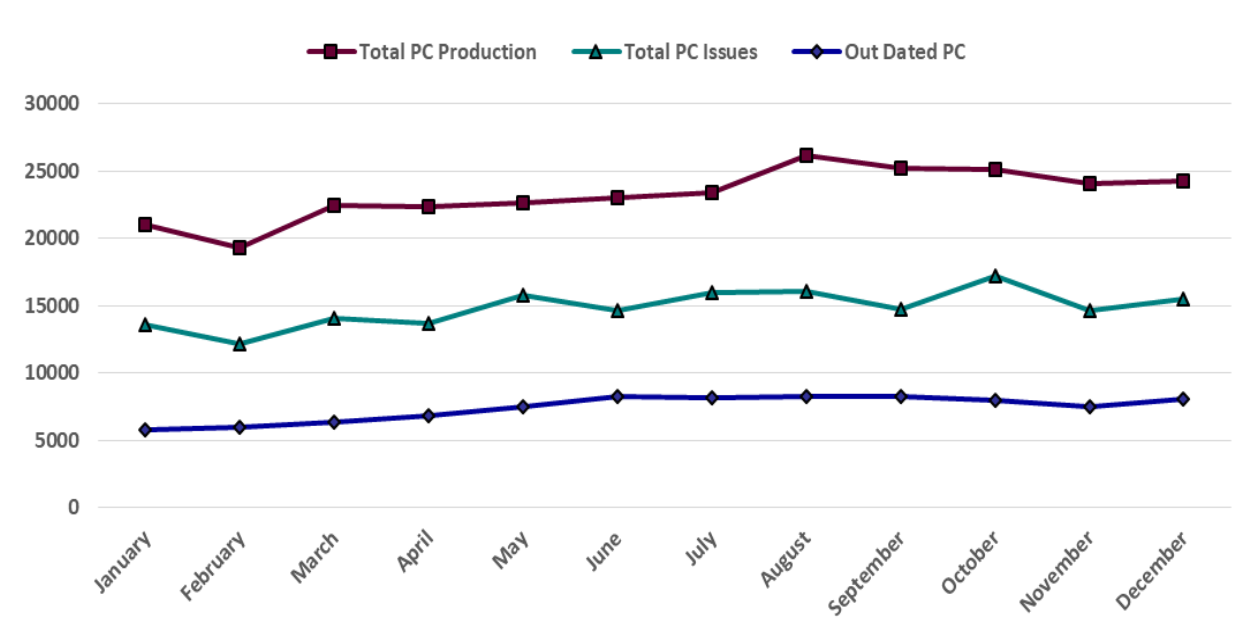


Figure 13.1: Comparison of Monthly Statistics of PC—2023

14 STATISTICS OF BLOOD GROUPING

Cluster	Blood Bank	Donor Grouping	Repeat Grouping	In ward	ANC	OPD/ Clinics	Pvt. Sect.	Other	Total
Ampara Cluster	Akkarepattu	445	1557	4074	1196	256	369	0	7897
	Ampara	14115	10603	15411	1406	703	0	2190	44428
	Kalmunai North	0	3136	2593	593	0	0	0	6322
	Kalmunai South	48	1966	925	758	1326	255	3024	8302
	Mahaoya	274	1449	811	440	167	0	0	3141
	Pothuvil		384	235	396	72	0	0	1087
	Sammanthurai	141	403	1616	696	108	0	0	2964
Anuradhapura Cluster	Anuradhapura	27854	27038	25992	4946	1549	232	280	87891
	Medawachchiya	0	0	0	0	0	0	0	0
	Padaviya	0	0	75	193	98	0	3	369
	Thambuttegama	0	1799	3966	200	29	0	593	6587
Badulla Cluster	Badulla	12663	18947	20203	1606	530	7	4754	58710
	Diyatalawa	1279	3046	3986	453	0	0	0	8764
	Mahiyanganaya		4533	7217	606	668	0	362	13386
	Welimada	171	3845	2794	56	322	0	40	7228
Batticaloa Cluster	Batticaloa	10192	508	17594	820	27	0	1074	30215
	Kalawanchikudi	79	0	280	246	346	0	0	951
	Kattankudy	0	330	549	150	169	0	0	1198
	Valachchenai	0	962	332	1002	3	0	1089	3388
Chilaw Cluster	Chilaw	12375	6152	16422	1577	22	133	23	36704
	Kalpitiya	0	0	0	0	0	0	0	0
	Marawila	140	3623	5261	494	95	258	0	9871
	Puttlam	288	6416	7337	2070	1807	213	1462	19593
CIM Cluster	Apeksha	23728	25239	13204	0	501	1420	2810	66902
	Awissawella	656	3899	7445	1161	36	260	1323	14780
	Homagama	1902	382	5344	319	36	0	742	8725
CNTH Cluster	CNTH	19646	16102	29014	352	1241	317	1177	67849
	Kiribathgoda	0	0	0	0	0	0	0	0
	Negambo	226	5223	8943	1005	46	1311	0	16754
	Welisara	0	1647	3179	0	417	0	142580	147823
Colombo Cluster	Accident Service	0	6456	23303	0	0	0	0	29759
	Army Hospital	0	1507	2706	289	122	0	0	4624
	CEBH-Mulleriyawa	0	1392	1528	104	283	0	0	3307
	CSHW	0	2872	19379	6386	64	0	18	28719
	CSTH	74	10224	24502	263	183	0	0	35246
	DMH	0	2866	8155	3655	0	727	8055	23458
	IDH-Angoda	0	1505	3320	0	34	0	591	5450
	KDU	0	1941	5136	227	28	541	0	7873
	LRH	0	7164	13827	0	0	0	6	20997
	NBC	10442	11494	2592	0	0	4925		29453
	NFTH	0	521	664	1	43	342	9	1580
	NHSL	0	33061	40786	0	377	0	6431	80655
	NINDT-Maligawaththa	0	1468	1472	0	152	0	790	3882
SJGH	3582	4449	16992	2265	3831	0	8450	39569	

BLOOD GROUPING STATISTICS Cont...

Cluster	Blood Bank	Donor Grouping	Repeat Grouping	In ward	ANC	OPD/ Clinics	Pvt. Sect.	Other	Total
Gampaha Cluster	Gampaha	6788	7303	13036	509	30	11	0	27677
	Meerigama	176	808	1070	118	73	0	0	2245
	Minuwangoda	0	862	648	2	27	0	224	1763
	Wathupitiwala	3829	4297	8216	66	16	94	1818	18336
Hambantota Cluster	Hambantota	8445	8872	9373	537	30	55	603	27915
	Tangalle	251	2499	6017	714	153	405	0	10039
	Tissamaharama	0	1299	2036	615	28	0	459	4437
	Walasmulla	7	845	2452	414	155	0	27	3900
Jaffna Cluster	Chavakachcheri	0	0	0	0	0	0	0	0
	Jaffna	13892	12030	24753	3264		11	5526	59476
	Kayts	0	0	0	0	0	0	0	0
	Kilinochchi	0	1903	783	921	16	33	339	3995
	Mulathiv	595	1592	2127	950	243	24	218	5749
	Point Pedro	0	1227	2385	1545	109	0	0	5266
	Tellippalai	138	2082	2349	629	30	0	46	5274
Kalutara Cluster	Horana	960	2352	9663	1710	10	0	0	14695
	Kalutara	10412	8472	13826	4894	1021	39	985	39649
	Kethumathie	463	1342	3235	110	1930	38	0	7118
	Panadura	852	2371	3421		239	0	335	7218
Kandy Cluster	Dambulla	3304	780	6724	145	879	0	728	12560
	Kandy	12855	270	16542	1339	1087	0	0	32093
	Matale	4124	0	11637	63	2891	3	2092	20810
	Theldeniya	127	2034	2311	35	140	10	22	4679
Karapitiya Cluster	Balapitiya	1591	3814	4518	110	434	45	645	11157
	Elpitiya	1682	2525	5534	549	288	0	833	11411
	Karapitiya	14934	14934	24439	2212	3638	2609	10195	72961
	Mahamodara	1158	2082	19381	2002	8	1033285	0	1057916
	Udugama	151	1763	1231	381	173	0	313	4012
Kegalle Cluster	Karawanella	0	2182	9317	368	100	0	1	11968
	Kegalle	8468	8957	7879	722	1106	596	52	27780
	Mawanella	1240	2853	4664	497	4	85	636	9979
	Warakapola	0	312	5342	318	15	0	0	5987

BLOOD GROUPING STATISTICS Cont...

Cluster	Blood Bank	Donor Grouping	Repeat Grouping	In ward	ANC	OPD/ Clinics	Pvt. Sect.	Other	Total
Kurunegala Cluster	Dambadeniya	1469	665	3009	250	76	0	0	5469
	Galgamuwa	184	1006	2445	43	4	0	0	3682
	Kuliyapitiya	402	2633	8011	841	58	122	45	12112
	Kurunegala	44829	36244	57006	4839	1499	3843	3940	152200
	Nikaweratiya	46	289	6199	428	170	0	0	7132
Matara Cluster	Deniyaya	0	734	1291	72	120	0	0	2217
	Kamburugamuwa	15534	2	0	0	0	0	0	15536
	Kamburupitiya	0	1550	3306	207	103	0	1095	6261
	Matara	2306	6232	8341	3009	697	0	2500	23085
	New DGH Kamburugamuwa	0	1461	4154	11	1074	0	335	7035
Monaragala Cluster	Bibila	0	1389	2500	489	225	0	0	4603
	Monaragala	8151	7179	8024	1888	705	5	0	25952
	Wellawaya	0	555	248	704	221	0	0	1728
Nuwara Eliya Cluster	Dikkoya	90	2100	3523	236	90	15	12	6066
	Nuwara Eliya	5380	5471	13083	506	250	0	0	24690
	Rikillagaskada	251	1788	2562	432	0	0	527	5560
Peradeniya Cluster	Gampola	341	2838	4613	271	222	15	860	9160
	Nawalapitiya	188	3023	6224	180	178	24	587	10404
	Peradeniya	17282	18499	11829	1073	181	0	4050	52914
Polonnaruwa Cluster	Dehiattakandiya	413	913	1476	356	4	0	0	3162
	Medirigiriya	38	1458	2198	43	251	1	4	3993
	NNSH Polonnaruwa	0	138	15	0	39	0	0	192
	Polonnaruwa	12176	15164	12121	1487	9	161	0	41118
Ratnapura Cluster	Balangoda	0	4857	6706	1060	221	1	31	12876
	Eheliyagoda	0	0	0	0	0	0	0	0
	Embilipitiya	3431	2927	5310	1303	666	20	1359	15016
	Kahawatta	90	3914	4698	68	167	0	556	9493
	Ratnapura	16763	12608	23255	2585	381	8	5029	60629
Trincomalee Cluster	Kantale	0	890	1070	23	124	0	511	2618
	Kinniya	0	0	807	141	242	0	431	1621
	Muththur	0	0	91	427	85	0	33	636
	Trincomalee	4420	4926	7329	1199	15	135	0	18024
Vavniya Cluster	Chettikulam	0	0	0	0	0	0	0	0
	Mannar	249	972	520	860	19	310	3209	6139
	Vavniya	3447	4580	6070	2611	154	138	10	17010
Total		374242	485776	812107	89312	38814	1053451	239097	3092799

Table 14.1 : Statistics of Blood Grouping—2023

15 STATISTICS OF SPECIAL PROCEDURES

Cluster	Blood Bank	Therapeutic Phlebotomy	Therapeutic Leukopheresis	Adult Red Cell Exchanges	TPE Cycles - Automated	TPE Cycles - Manual
Ampara Cluster	Akkarepattu	0	0	0	0	0
	Ampara	23	0	3	45	0
	Kalmunai North	0	0	0	0	0
	Kalmunai South	0	0	0	0	0
	Mahaoya	0	0	0	0	0
	Pothuvil	0	0	0	0	0
	Sammanthurai	0	0	0	0	0
Anuradhapura Cluster	Anuradhapura	0	0	17	336	0
	Medawachchiya	0	0	0	0	0
	Padaviya	0	0	0	0	0
	Thambuttegama	0	0	0	0	0
Badulla Cluster	Badulla	205	3	12	187	0
	Diyatalawa	0	0	1	0	0
	Mahiyanganaya	0	0	0	0	0
	Welimada	28	0	0	0	0
Batticaloa Cluster	Batticaloa	0	0	6	0	0
	Kalawanchikudi	0	0	0	0	0
	Kattankudy	0	0	0	0	0
	Valachchenai	0	0	0	0	0
Chilaw Cluster	Chilaw	0	0	0	7	0
	Kalpitiya	0	0	0	0	0
	Marawila	0	0	0	0	0
	Puttlam	0	0	0	0	0
CIM Cluster	Apeksha	0	0	0	0	0
	Awissawella	0	0	0	0	0
	Homagama	29	0	15	14	0
CNTH Cluster	CNTH	228	0	0	280	0
	Kiribathgoda	0	0	0	0	0
	Negambo	115	0	0	14	0
	Welisara	0	0	0	0	0
Colombo Cluster	Accident Service	0	0	0	0	0
	Army Hospital	15	2	0	20	0
	CEBH-Mulleriyawa	62	0	0	0	0
	CSHW	0	0	0	5	0
	CSTH	223	0	0	176	0
	DMH	0	0	0	0	0
	IDH-Angoda	54	0	0	0	0
	KDU	19	0	0	8	1
	LRH	0	0	0	364	0
	NBC	0	0	0	0	0
	NFTH	25	0	0	0	0
	NHSL	0	0	2	1138	0
	NINDT-Maligawaththa	54	0	0	138	0
SJGH	110	0	0	60	0	

STATISTICS OF SPECIAL PROCEDURES Cont...

Cluster	Blood Bank	Therapeutic Phlebotomy	Therapeutic Leukophoresis	Adult Red Cell Exchanges	TPE Cycles - Automated	TPE Cycles - Manual
Gampaha Cluster	Gampaha	70	0	0	53	0
	Meerigama	0	0	0	0	0
	Minuwangoda	0	0	0	0	0
	Wathupitiwala	75	0	0	66	0
Hambantota Cluster	Hambantota	40	0	1	22	0
	Tangalle	0	0	0	0	0
	Tissamaharama	25	0	0	0	0
	Walasmulla	0	0	0	0	0
Jaffna Cluster	Chavakachcheri	0	0	0	0	0
	Jaffna	86	0	0	116	0
	Kayts	0	0	0	0	0
	Kilinochchi	0	0	0	0	0
	Mulathiv	0	0	0	0	0
	Point Pedro	0	0	0	0	0
	Tellippalai	0	0	0	0	0
Kalutara Cluster	Horana	66	0	0	0	41
	Kalutara	8	0	0	138	0
	Kethumathie	0	0	0	0	0
	Maternity Hospital - Kalutara	0	0	0	0	0
	Panadura	52	0	0	22	3
Kandy Cluster	Dambulla	0	0	0	0	0
	Kandy	0	0	0	427	0
	Matale	92	0	0	7	6
	Theldeniya	0	0	0	0	0
Karapitiya Cluster	Balapitiya	0	0	0	0	0
	Elpitiya	0	0	0	0	0
	Karapitiya	0	0	0	356	80
	Mahamodara	0	0	0	0	0
	Udugama	0	0	0	0	0
Kegalle Cluster	Karawanella	0	0	0	0	0
	Kegalle	71	0	0	34	34
	Mawanella	0	0	0	0	0
	Warakapola	0	0	0	0	0

STATISTICS OF SPECIAL PROCEDURES Cont...

Cluster	Blood Bank	Therapeutic Phlebotomy	Therapeutic Leukapheresis	Adult Red Cell Exchanges	TPE Cycles - Automated	TPE Cycles - Manual
Kurunegala Cluster	Dambadeniya	0	0	0	0	0
	Galgamuwa	0	0	0	0	0
	Kuliyapitiya	0	0	0	0	0
	Kurunegala	33	0	0	175	70
	Nikaweratiya	0	0	0	0	0
Matara Cluster	Deniyaya	0	0	0	0	0
	Kamburugamuwa	0	0	0	0	0
	Kamburupitiya	9	0	0	0	0
	Matara	138	0	6	96	0
	New DGH Kamburugamuwa	0	0	0	0	0
Monaragala Cluster	Bibila	0	0	0	0	0
	Monaragala	79	0	1	0	15
	Wellawaya	19	0	0	0	0
Nuwara Eliya Cluster	Dikkoya	0	0	0	0	0
	Nuwara Eliya	154	10	0	10	3
	Rikillagaskada	0	0	0	0	0
Peradeniya Cluster	Gampola	0	0	0	0	0
	Nawalapitiya	0	0	0	0	0
	Peradeniya	0	0	0	220	16
Polonnaruwa Cluster	Dehiattakandiya	0	0	0	0	0
	Medirigiriya	0	0	0	0	0
	NNSH Polonnaruwa	3	0	0	0	0
	Polonnaruwa	144	0	0	125	12
Ratnapura Cluster	Balangoda	0	0	0	0	0
	Eheliyagoda	0	0	0	0	0
	Embilipitiya	0	0	0	0	0
	Kahawatta	0	0	0	0	0
	Ratnapura	41	0	0	157	25
Trincomalee Cluster	Kantale	0	0	0	0	0
	Kinniya	0	0	0	0	0
	Muththur	0	0	0	0	0
	Trincomalee	0	1	0	0	0
Vavniya Cluster	Chettikulam	0	0	0	0	0
	Mannar	0	0	0	0	0
	Vavniya	0	0	0	0	0
Total		2395	16	64	4816	306

Table 15.1 : Statistics of Special Procedures 2023

16 STATISTICS OF NBTS STAFF AVAILABILITY

Cluster	Blood Bank	CTP	MO	NS	NO	MLT	PHLT	PHI	Lab/O	Junior Staff
Ampara Cluster	Akkarepattu	0	3	0	3	0	0	0	0	3
	Ampara	1	7	1	8	2	1	2	0	7
	Kalmunai North	0	3	0	4	0	0	0	0	3
	Kalmunai South	0	4	0	4	0	0	0	0	0
	Mahaoya	0	2	0	2	0	0	0	0	0
	Pothuvil	0	2	0	3	0	0	0	0	1
	Sammanthurai	0	3	0	3	0	0	0	0	1
Anuradhapura Cluster	Anuradhapura	2	10	1	16	4	1	3	0	8
	Medawachchiya	0	0	0	0	0	0	0	0	0
	Padaviya	0	2	0	2	0	0	0	0	2
	Thambuttegama	0	4	0	3	0	0	0	0	1
Badulla Cluster	Badulla	1	8	1	9	3	0	3	3	11
	Diyatalawa	0	4	1	3	0	0	0	0	4
	Mahiyanganaya	0	4	1	4	0	0	0	0	3
	Welimada	0	4	0	2	0	0	0	0	1
Batticaloa Cluster	Batticaloa	1	8	0	10	2	0	1	0	5
	Kalawanchikudi	0	1	0	2	0	0	0	0	1
	Kattankudy	0	2	0	2	0	0	0	0	1
	Valachchenai	0	0	0	0	0	0	0	0	0
Chilaw Cluster	Chilaw	1	6	1	7	2	0	1	0	4
	Kalpitiya	0	0	0	0	0	0	0	0	0
	Marawila	0	5	0	4	0	0	0	0	1
	Puttlam	0	4	0	4	0	0	0	0	3
CIM Cluster	Apeksha	1	12	1	13	4	0	0	2	13
	Awissawella	0	5	0	9	0	0	0	2	0
	Homagama	0	7	0	6	0	0	0	0	2
CNTH Cluster	CNTH	1	12	1	17	4	1	1	1	1
	Kiribathgoda	0	0	0	0	0	0	0	0	0
	Negambo	1	9	0	7	0	0	1	0	3
	Welisara	0	2	0	5	0	0	0	0	1
Colombo Cluster	Accident Service	0	8	0	7	0	0	0	0	5
	Army Hospital	0	3	0	7	1	0	0	0	2
	CEBH-Mulleriyawa	0	4	0	4	0	0	0	0	0
	CSHW	0	8	0	6	0	0	0	0	3
	CSTH	1	8	1	7	0	0	0	0	4
	DMH	0	7	0	4	0	0	0	0	3
	IDH-Angoda	0	4	0	3	0	0	0	0	1
	KDU	1	4	0	7	2	0	0	0	3
	LRH	1	9	0	5	0	0	0	0	5
	NBC	4	36	1	27	30	4	10	7	43
	NFTH	0	1	0	3	0	0	0	0	1
	NHSL	1	16	1	13	0	0	0	0	8
	NINDT-Maligawaththa	0	2	1	4	0	0	0	0	2
SJGH	1	8	1	8	2	0	0	1	4	

STATISTICS OF NBTS STAFF AVAILABILITY Cont...

Cluster	Blood Bank	CTP	MO	NS	NO	MLT	PHLT	PHI	Lab/O	Junior Staff
Gampaha Cluster	Gampaha	1	9	0	8	1	0	0	0	3
	Meerigama	0	2	0	2	0	0	0	0	0
	Minuwangoda	0	2	0	5	0	0	0	0	0
	Wathupitiwala	0	7	0	8	1	0	0	0	4
Hambantota Cluster	Hambantota	1	6	1	10	2	0	1	0	5
	Tangalle	0	5	0	6	0	0	0	0	6
	Tissamaharama	0	3	0	5	0	0	0	0	0
	Walasmulla	0	3	0	6	0	0	0	0	3
Jaffna Cluster	Chavakachcheri	0	0	0	0	0	0	0	0	0
	Jaffna	1	6	1	6	2	0	1	0	7
	Kayts	0	0	0	0	0	0	0	0	0
	Kilinochchi	1	2	0	3	0	0	0	0	4
	Mulathiv	0	2	1	2	0	0	0	0	3
	Point Pedro	0	3	0	3	0	0	0	0	1
	Tellippalai	0	2	0	3	0	0	0	0	2
Kalutara Cluster	Horana	0	8	0	5	0	0	0	0	1
	Kalutara	1	8	1	11	3	1	1	0	9
	Kethumathie	0	8	0	6	0	0	0	0	1
	Panadura	0	8	0	6	0	0	0	0	1
Kandy Cluster	Dambulla	0	6	0	6	0	0	0	0	3
	Kandy	1	10	1	16	5	1	3	1	7
	Matale	0	7	0	8	1	0	0	0	3
	Theldeniya	0	2	0	3	0	0	0	0	1
Karapitiya Cluster	Balapitiya	0	5	0	6	0	0	0	0	3
	Elpitiya	0	5	0	6	0	0	0	0	3
	Karapitiya	1	7	1	17	3	1	1	0	7
	Mahamodara	0	8	0	7	0	0	0	0	4
	Udugama	0	4	0	4	0	0	0	0	3
Kegalle Cluster	Karawanella	0	3	0	4	0	0	0	0	3
	Kegalle	1	7	0	12	2	0	1	0	4
	Mawanella	0	5	0	7	0	0	0	0	3
	Warakapola	0	4	0	6	0	0	0	2	1

STATISTICS OF NBTS STAFF AVAILABILITY Cont...

Cluster	Blood Bank	CTP	MO	NS	NO	MLT	PHLT	PHI	Lab/O	Junior Staff
Kurunegala Cluster	Dambadeniya	0	5	0	5	0	0	0	0	1
	Galgamuwa	0	3	0	4	0	0	0	0	1
	Kuliyapitiya	0	6	0	10	0	0	0	0	2
	Kurunegala	1	12	1	20	7	2	2	0	12
	Nikaweratiya	0	5	5	0	0	0	0	0	3
Matara Cluster	Deniyaya	0	1	0	2	0	0	0	0	1
	Kamburugamuwa	0	3	1	12	4	2	2	2	7
	Kamburupitiya	0	6	0	5	0	0	0	0	3
	Matara	1	10	0	8	1	0	0	0	5
	New DGH Kamburugamuwa	0	6	0	4	0	0	0	0	4
Monaragala Cluster	Bibila	0	2	0	3	0	0	0	0	2
	Monaragala	1	6	0	7	1	1	1	0	6
	Wellawaya	0	1	0	2	0	0	0	0	1
Nuwara Eliya Cluster	Dikkoya	0	4	0	3	0	0	0	0	1
	Nuwara Eliya	1	5	0	6	1	0	0	2	3
	Rikillagaskada	0	1	0	1	0	0	0	0	0
Peradeniya Cluster	Gampola	0	4	1	6	0	0	0	0	1
	Nawalapitiya	0	4	0	5	0	0	0	0	3
	Peradeniya	1	9	1	12	2	1	2	1	6
Polonnaruwa Cluster	Dehiattakandiya	0	2	0	3	0	0	0	0	4
	Medirigiriya	0	3	0	3	0	0	0	0	3
	NNSH Polonnaruwa	0	2	0	2	0	0	0	0	2
	Polonnaruwa	1	6	0	9	2	0	1	0	10
Ratnapura Cluster	Balangoda	0	3	0	4	0	0	0	0	4
	Eheliyagoda	0	1	0	3	0	0	0	0	2
	Embilipitiya	0	5	0	7	1	0	0	1	7
	Kahawatta	0	3	0	6	0	0	0	0	4
	Ratnapura	1	10	0	13	3	0	1	2	4
Trincomalee Cluster	Kantale	0	2	0	2	0	0	0	0	1
	Kinniya	0	2	0	2	0	0	0	0	1
	Muththur	0	3	0	2	0	0	0	0	1
	Trincomalee	1	4	0	6	1	0	1	0	3
Vavniya Cluster	Chettikulam	0	0	0	0	0	0	0	0	0
	Mannar	0	3	0	2	0	0	0	0	3
	Vavniya	1	3	1	4	1	0	1	0	5
Total	Total	35	553	29	637	100	16	41	27	375

Table 16.1 : Statistics of Staff Availability 2023

17 STATISTICS OF HLA LABORATORY

HLA Testing is carried out in the National Blood Center and Blood Bank—National Hospital Kandy, in the government sector

HLA Typing by rSSO	No. of Tests
Renal - Patient	1149
Renal - Donor	787
BMT - Patient	99
BMT - Donor	279
AP Donors	85
Platelet Refractoriness Patients	27
Cadaveric Donor (NBC + Kandy)	25
B57 / B51/ B27	580
Luminex PRA and Antibody Identification	No. of Tests
Renal	1599
Platelet Refractoriness Patients	22
Others	46

(PRA - Panel Reactive Antibodies)

Table 17.1 : HLA Molecular Typing and PRA 2023 (At NBC)

By CDC Method	No. of tests
Class I Typing by CDC	0
B27	204
B57	127
B51	29
B15 / Others	03
Compatibility Tests (with Cadaveric)	868
Cadaveric Cross-match	138

Table 17.2 : HLA Serology Typing and Compatibility Testing 2023 (At NBC)

Typing and Cross Matches	2023
Cross Match	256
PRA (Class 1, Class 11)	151
Single Antigen Bead Assay	38
Transplantation	
Kidney (Patients, Donors)	768
Bone Marrow (Patients, Donors)	22
AP Donor	-
Cadaveric Donor	21
Cadaveric Donor Q-PCR	-

Table 17.3 : HLA Laboratory Statistics 2023 (At Blood Bank—National Hospital Kandy)

18 STATISTICS OF IMMUNE-HAEMATOLOGY REFERENCE LABORATORY

Category	2019	2020	2021	2022	2023
ABO/Rh Group Confirmation	350	292	266	295	367
Antibody Titers for ANC Follow-up	384	405	684	876	1006
Antibody Identification	4034	2792	3504	2216	2517
Antibody Screening	6064	4692	4952	3345	3843
Blood Grouping (ABO & Rh D)	7353	5817	6086	4263	4906
Cold Haemagglutinin Test	54	50	31	33	55
Confirmation of Bombay O	7	15	7	2	4
Cross-match	2082	1203	1702	1111	1677
DAT	5894	5522	6083	4228	4906
DAT Profile	1323	1012	1060	794	845
Difficult Compatibility	3142	409	457	351	402
Donath-Landsteiner Test (DL test)	13	10	5	13	24
Elution Studies	57	87	65	53	84
Enzyme Panel	69	19	15	8	12
Extended Phenotype	362	420	453	321	330
Haemolysin Test Anti A/B IgG Titer	178	98	95	54	125
Iso Haemagglutinin Test Anti A/B IgM Titer	72	14	44	17	23
Rh Phenotyping	4969	1985	7287	2440	610
Transfusion Reaction	67	40	39	27	22

Table 18.1 : Yearly Comparison of Immune-Haematology Reference Laboratory Statistics

19 STATISTICS OF REAGENT LABORATORY

Reagents Prepared	2023
Alserver's Solution	396L
Normal Saline	195 L
CuSO ₄	999 L
Screening Cells Sets	7039
ABO Cells Sets	5084
Anti H (Vials)	440
Anti A ₁ (Vials)	522
Anti A (Vials)	2400
Anti B (Vials)	2400
Lewis Panel	440
Antibody Identification Panel	120

Table 19.1 : Statistics on Reagent Preparation—2023

Reagents Prepared	2019	2020	2021	2022	2023
Alserver's Solution (L)	332	317	378	385	396
Anti H Vials	669	558	236	370	440
Anti A ₁ Vials	1734	1374	573	572	522
Lewis Panel	-	200	150	480	440

**Table 19.2 : Yearly Comparison of Statistics on Reagent Preparation
(on Selected Components)**

20 STATISTICS OF QUALITY MANAGEMENT UNIT

Component	Number
RCC – without AS	453
RCC- BCR-AS	421
Platelets - PRPD	420
Platelets - BCD	415
Platelets -AP	54
FFP	153
Cryoprecipitate	15

Table 20.1 : Statistics on Quality Monitoring of Blood Components and Reagents—2023

Reagent Testing	Number
QC testing of A,B,O cells	12 sets
QC testing antibody screening red cells	12 sets

Table 20.2 : Statistics on Quality Control Laboratory Performance—2023

	Component/Reagent	No of Incidents
Component Quality Related Incidents	RCC	20
	Platelet (RDP)	1
	Platelets (Apheresis)	9
	FFP	2
	Whole Blood	1
Procedural Quality Related Incidents	Post donation care	1
	Post donation call up	1

Table 20.3: Statistics on Investigations of Quality Related Incidents—2023

Evaluation Done	Number of Products Evaluated
Anti D	4
Anti A	16
Anti B	16
Anti AB	4
AHG poly	9
Minor Blood Group Anti Sera	10
Test tubes EDTA 2.5 ml	3
Test Tubes 12 x 75 mm	3
Copper Sulphate	1
Disposable Pasteur Pipettes	2
Thermal Printer Paper	2

Table 20.4: Statistics on Evaluations Done—2023

Program	No. Of cycles	No. of Test Kits Prepared
NEQAS Blood Group Serology	2	220
NEQAS TTI	2	40

Table 20.5: Statistics on SL-NEQAS Programmes Conducted—2023

Component	No of Units
RCC	23
Platelet	51
FFP	05

Table 20.6: Statistics on Special Quality Monitoring Tests (HBB Referrals) - 2023

Type of test	No. of Tests
Full Blood Count	3488
PH	1866
Blood Culture	129
% Haemolysis	1006
DAT	169
Antibody Screening	80
Microscopy testing for Agglutinations	172
Factor VIII Assay	143
Fibrinogen Assay	173
Evaluations	67

Table 20.7: Summary of Tests—2023

21 STATISTICS OF EDUCATION, TRAINING AND RESEARCH UNIT

	Staff Category	Number of Trainees
1	Medical Officers (Total)	122
	4 Weeks	101
	6 Weeks	21
2	Nursing Officers	71
3	Medical Laboratory Technologists	07
4	Public Health Inspectors	02
5	Junior Staff Members	18

Table 21.1: Statistics on the Training Programmes Conducted for NBTS Staff—2023

	Staff Category	Number of Trainees
1	Nephrology MD Trainees	03
2	Haematology Diploma Trainees	11
3	Microbiology MD Trainees	11
4	Medical Students University of Colombo	155
5	MLT Students	
	MLT Students	0
	MLS Interns	0
	MLS Undergraduates	184
6	PHI Students	98
7	Navy Health Assistants	55

Table 21.2: Statistics on the Training Programmes for Other Staff Categories—2023

EDUCATION, TRAINING AND RESEARCH UNIT Cont...

	Topic	Participants	Number
1	Blood Bank Statistics	CTP, MO, NO	209
2	Workshop on Glycerolization and Deglyzerolization of red cells	MLT	4
3	Role and Responsibility of Nursing Officer on Blood Safety	Matron, Sister, NO (NBC)	34
4	SWASTHA Training Programme for Blood Bank Staff	MO, MLT, NO	123
5	Advance Immune Haematology Workshop	CTP, MO, MLT	62
6	Donor Counselling Workshop	CTP, MOIC	140
7	Capacity Building for Blood Donation Teams (Jaffna Cluster)	MO, NO, PHI, JS	50
8	Workshop on Good Manufacturing Practices—Day 1	MLT	40
9	Workshop on Good Manufacturing Practices—Day 2	MLT	40
10	Capacity Building for Blood Donation Teams (Karapitiya Cluster)	MO, NO, PHI, JS	50
11	Capacity Building for Blood Donation Teams (Anuradhapura Cluster)	MO, NO, PHI, JS	50
12	Capacity Building for Blood Donation Teams (Kurunegala Cluster)	MO, NO, PHI, JS	50
13	Inland Revenue Department Awareness Programme	CTP, MO, NO, MLT, PHI, JS	34
14	Staff Training to Maintain Improved Blood Safety, Patient Safety and Quality Care	MLT	35
15	Staff Training to Maintain Improved Blood Safety, Patient Safety and Quality Care	MO	35
16	Capacity Building for Blood Donation Teams (Kandy Cluster)	MO, NO, PHI, JS	50
17	Staff Training to Maintain Improved Blood Safety, Patient Safety and Quality Care	NO	35
18	Capacity Building for Blood Donation Teams (Ampara Cluster)	MO, NO, PHI, JS	50
19	Malaria Workshop—Training of Trainers (TOT)	CTP, MO, NO, PHI	207

Table 21.3: Statistics on the CME Programmes—2023

22 STATISTICS OF STEM CELL TRANSPLANTATION

Haematopoietic stem cell transplantation (HSCT) involves the intravenous infusion of multi-potent haematopoietic stem cells to patients whose bone marrow or immune system is either defective or damaged, aiming to re-establish blood cell production.

Cells for HSCT can be either autologous (from the patient him or herself), allogenic (from a sibling or unrelated donor) or synergestic (from an identical twin) origin, derived from bone marrow, peripheral blood, umbilical cord blood and fetal liver (rarely).

HSCT procedure can be influenced by cytogenetic abnormalities, response to prior therapy, patient age and performance status, disease status (remission vs relapse), disease-specific prognostic factors and most importantly, availability of a suitable graft source, time of referral, and time to transplant.

It is commonly performed for patients with haematological malignancies such as leukaemia, Hodgekin and Non-Hodgekin lymphoma and multiple myeloma as well as congenital disorders of the blood and bone marrow such as thalassaemia and sickle cell disease.

One advantage of peripheral blood stem cell transplant (PBSCT) is a more rapid engraftment rate than the bone marrow-derived stem cells; where recovery in the PBSCT is around two weeks and the latter one takes around five days more.

Where as, the advantages of cord blood transplant include the rapid collection and administration times, which facilitate treating urgent conditions, less frequent infections, lower rates of GVHD and less need for a stringent identical HLA.

Complications associated with the procedure include mucositis, hemorrhagic cystitis, prolonged and severe pancytopenia, infection, graft-versus-host disease (GVHD) and graft failure.

Bone-marrow cells can be frozen (cryopreserved) for prolonged periods without damaging too many cells, which is a necessity with autologous HSCs because the cells must be harvested from the recipient months in advance of the transplant treatment. But allogenic transplants prefer fresh HSCs to avoid cell loss that might occur during the freezing and thawing process. Allogenic cord blood is stored frozen at a cord blood bank since it is only obtainable at the time of childbirth.

In Sri Lanka, Stem cell transplantations were done only in the National Cancer Institute of Maharakgama initially. It was started in the Lady Ridgeway Hospital for Children, in 2023. Hence, 2023 data includes the statistics of both centers.

	2018	2019	2020	2021	2022	2023
Number of Patients	27	25	28	46	46	51
Cryopreservation Procedures	33	26	30	40	47	40
Infusion Procedures	28	24	23	53	43	52

Table 22.1: Yearly Comparison of the Statistics on Stem Cell Transplantation

23 STATISTICS OF FROZEN RED CELL (FRC)

Red blood cells (RBCs) can be cryo-preserved, i.e. frozen and then thawed to be transfused, with shelf life of 10 years. To prevent the dehydration and mechanical trauma to RBC during freezing, a cryoprotecting agent is used. They are classified as penetrating and non-penetrating agents. Glycerol, a commonly used agent, is a penetrating cryoprotecting agent.

There are two methods in which glycerol are being used for frozen red cell preparation.

1. High Glycerol Concentration (HGC) method

Glycerol is used in 40% weight/volume (W/V) concentration and the frozen red cells are stored at -80 °C

2. Low Glycerol Concentration (LGC) method

Glycerol is used in 20% weight/volume (W/V) concentration and the frozen red cells are stored at -120 °C

This technique is used in many occasions, as

1. Autologous cells are used for anticipated surgery and potential future use, as insurance to minimize use of allogeneic blood.
2. Rare types such as Bombay O can be preserved for future usage.
3. Red cells with improved oxygen transport function are especially useful in coronary artery and cerebro-vascular disease, cardiopulmonary bypass surgery, and hypothermia.
4. Antigenically rare blood can be preserved to be used for patients with rare or multiple antibodies

The technique was first demonstrated in 1950, and the National Blood Transfusion Service of Sri Lanka started practicing it since 2015, following several international and local training programmes for the NBTS staff.

NBTS uses this technique to preserve red cells of rare reagent donors, for reagent cell production as well (Table 21.2).

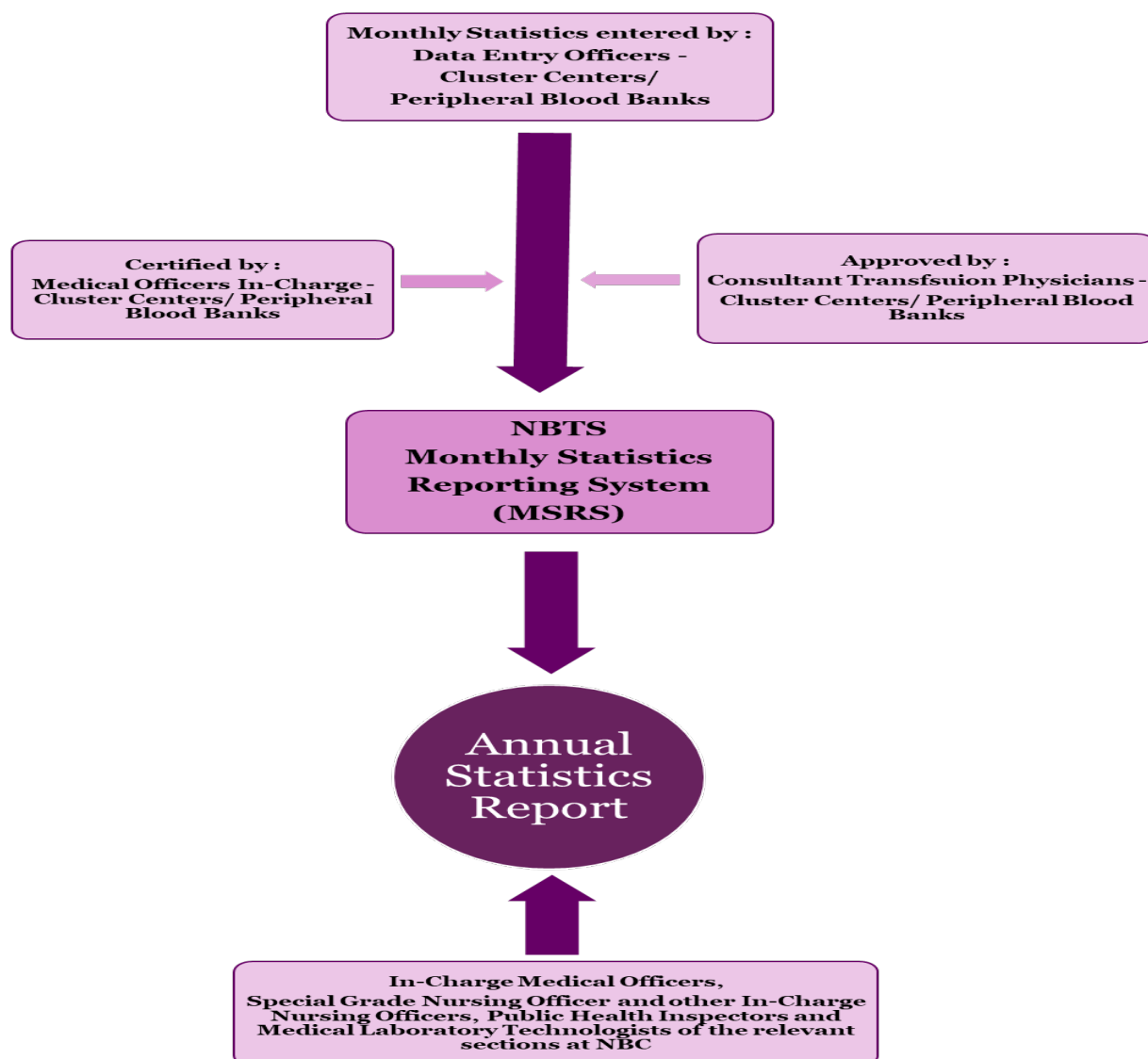
Blood Group	No. of Red Cell Units Frozen	No. of Red Cell Units Deglycerolized	No of Red Cell Units Transfused
Bombay O Rh Positive	1	-	-
Bombay O Rh Negative	1	-	-
A Rh Positive	-	-	-
A Rh negative	-	-	-
B Rh Positive	-	-	-
B Rh Negative	-	-	-
AB Rh Positive	-	-	-
AB Rh Negative	-	-	-
O Rh Positive	5	-	-
O Rh Negative	1	-	-
Total	8	-	-

Table 23.1: Statistics of Frozen Red Cell Procedures - 2023

Blood Group	No. of Red Cell Units Frozen	No. of Red Cell Units Deglycerolized
O Rh Positive	3	-
O Rh Negative	3	-
Total	6	-

Table 23.2: Statistics of Frozen Red Cell Procedures for Reagent Cells - 2023

24 Statistics Flow Chart



25 Other References

1. <https://emedicine.medscape.com>
2. <https://www.ncbi.nlm.nih.gov>
3. Previous Annual Statistics Reports up to 2022—National Blood Transfusion Service of Sri Lanka

Statistics Unit

National Blood Transfusion Service



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**Address: No 555/5D,
Elvtigala Mawatha,
Narahenpita,
Colombo 05**

**Phone : 0112 105 255
Fax : 0112 369 939
E-mail : moicstat@gmail.com**