

# ANNUAL STATISTICS REPORT 2022

*National Blood Transfusion Service of Sri Lanka*



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National Blood Center**

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## **01 ACKNOWLEDGEMENTS**

Annual Statistics Report 2022 consists of statistics obtained directly from the Monthly Statistics Reporting System as well as other details which are not available in the MSRS such as statistics of specific sections in NBC and NBTS (eg. QMU, ETRU, Stem Cell Transplantations etc.) obtained through the CTPs, MOICs and other staff members of relevant sections.

MSRS of the NBTS is updated on monthly basis, by the relevant data entry officers, while the accuracy of the entered statistics is ensured by the relevant MOICs and cluster consultants through continued monitoring of the system.

The continued support given by them through prompt update of the system is greatly valued and highly appreciated.

Furthermore, our special gratitude is paid for everybody who guided and supported this effort in numerous ways including,

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6. All the Consultant Transfusion Physicians of NBTS
7. Senior Medical Officer, all In-Charge Medical Officers and Medical Officers of NBC and NBTS
8. Medical Officer In-Charge and the Staff—IT Unit—NBC
9. All the Public Health Inspectors, Medical Laboratory Technicians and Nursing Officers of NBC and NBTS
10. Administrative Officer and the staff—Administration Branch/ NBC
11. Accountant and the staff—Accounts Branch/ NBC
12. All the other staff—NBC

Statistics Unit  
National Blood Transfusion Service

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## 03 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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## 06 INTRODUCTION

**N**ational 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 108 hospital-based blood banks, 103 are functioning in 2022.

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.



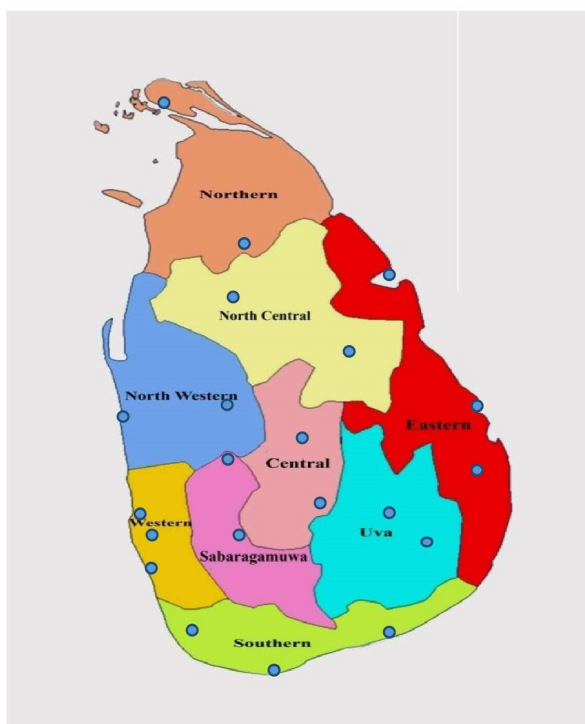
# 07 GEOGRAPHICAL DISTRIBUTION OF BLOOD BANKS

North Central	
ANURADHAPURA	
Anuradapura Padaviya Thambuththegama Medawachchiya	
POLONNARUWA	
Polonnaruwa Medirigiriya Dehiattakandiya	

Northern	
VAVUNIYA	JAFFNA
Vavuniya Chettikulam Mannar Kaththankudi	Jaffna Kilinochchi Point Pedro Mullativu Thellipalai

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

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



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

UVA
BADULLA
Badulla Diyatalawa Mahiyanganaya Welimada
MONARAGALA
Monaragala Bibile Wellawaya

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

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	Matara	Hambantota
Mahamodara	SRBC	Tangalle
	Kamburugamuwa	
Balapitiya	Kamburupitiya	Tissamaharamaya
Elpitiya	Deniyaya	Walasmulla
Udugama	New DGH Kamburugamuwa	



## 08 BLOOD COLLECTION IN 2022

Cluster	Blood Bank	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Ampara	Akkarepattu	19	344	1296	1640
	Ampara	110	804	6371	7175
	Kalmunai North	18	392	578	970
	Kalmunai South	17	588	813	1401
	Mahaoya	15	293	844	1137
	Pothuvil	10	82	326	408
	Sammanthurai	5	186	188	374
Anuradhapura	Anuradhapura	318	2207	20154	22361
	Medawachchiya	-	-	-	-
	Padaviya	15	228	934	1162
	Thambuttegama	0	0	0	0
Badulla	Badulla	181	937	10526	11463
	Diyatalawa	39	198	1460	1658
	Mahiyanganaya	29	559	1768	2327
	Welimada	137	239	0	239
Batticaloa	Batticaloa	96	1162	5590	6752
	Kalawanchikudi	0	41	34	75
	Kattankudy	7	81	572	653
	Valachchenai	0	67	0	67
Chilaw	Chilaw	76	548	5584	6132
	Kalpitiya	-	-	-	-
	Marawila	49	238	3458	3696
	Puttlam	58	430	3810	4240
CIM	Apeksha	179	5622	14798	20420
	Awissawella	30	687	1827	2514
	Homagama	22	64	1841	1905
CNTH	CNTH	199	1689	15109	16798
	Kiribathgoda	-	-	-	-
	Negambo	57	322	3415	3737
	Welisara	0	0	0	0
Colombo	Accident Service	0	0	0	0
	Army Hospital	6	165	692	857
	CEBH-Mulleriyawa	0	0	0	0
	CSHW	0	0	0	0
	CSTH	7	366	433	799
	DMH	0	0	0	0
	IDH-Angoda	0	0	0	0
	KDU	21	1049	1177	2226
	LRH	0	0	0	0
	NBC	613	9736	52984	62720
	NFTH	0	0	0	0
	NHSL	8	438	718	1156
	NINDT-Maligawaththa	0	0	0	0
	SJGH	42	416	2906	3322

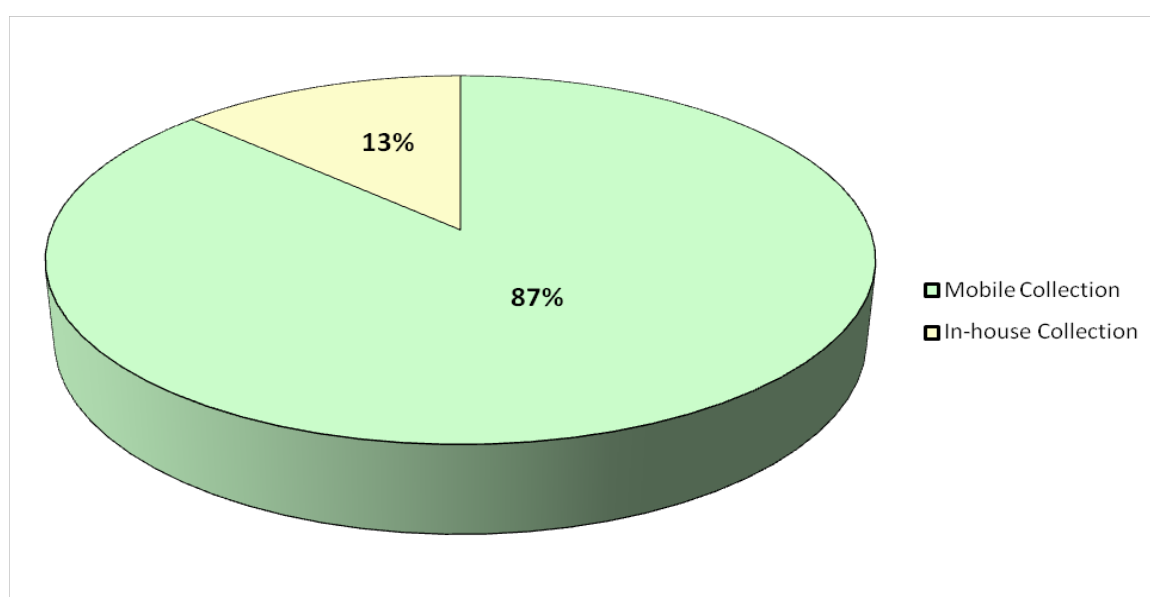
## BLOOD COLLECTION Cont...

Cluster	Blood Bank	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
<b>Gampaha</b>	Gampaha	95	808	6313	7121
	Meerigama	8	156	479	635
	Minuwangoda	33	111	2017	2128
	Wathupitiwala	62	377	3304	3681
<b>Hambantota</b>	Hambantota	105	467	6587	7054
	Tangalle	44	265	2627	2892
	Tissamaharama	7	133	357	490
	Walasmulla	11	37	501	538
<b>Jaffna</b>	Jaffna	156	2196	6668	8864
	Kilinochchi	15	583	714	1297
	Mulathiv	9	233	384	617
	Point Pedro	24	255	634	889
	Tellippalai	34	143	1175	1318
<b>Kalutara</b>	Horana	22	626	1112	1738
	Kalutara	143	585	8802	9387
	Kethumathie	22	122	1480	1602
	Panadura	6	241	327	568
<b>Kandy</b>	Dambulla	38	367	2602	2969
	Kandy	202	2602	17597	20199
	Matale	59	257	2996	3253
	Theldeniya	10	162	766	928
<b>Karapitiya</b>	Balapitiya	23	214	1390	1604
	Elpitiya	23	218	1078	1296
	Karapitiya	171	1447	13006	14453
	Mahamodara	18	122	946	1068
	Udugama	0	227	0	227
<b>Kegalle</b>	Karawanella	0	0	0	0
	Kegalle	122	462	7191	7653
	Mawanella	22	196	1237	1433
	Warakapola	0	0	0	0
<b>Kurunegala</b>	Dambadeniya	22	88	1493	1581
	Galgamuwa	3	84	0	84
	Kuliyapitiya	45	559	3333	3892
	Kurunegala	342	3380	29338	32718
	Nikaweratiya	41	269	3138	3407
<b>Matara</b>	Deniyaya	0	0	0	0
	Kamburugamuwa	172	557	16439	16996
	Kamburupitiya	0	156	0	156
	Matara	40	260	2005	2265
	New DGH Kamburugamuwa	0	0	0	0

## BLOOD COLLECTION Cont...

Cluster	Blood Bank	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Monaragala	Bibila	4	270	143	413
	Monaragala	123	569	6443	7012
	Wellawaya	1	87	54	141
Nuwara Eliya	Dikkoya	0	98	0	98
	Nuwara Eliya	98	357	4581	4938
	Rikillagaskada	12	301	659	960
Peradeniya	Gampola	32	67	1792	1859
	Nawalapitiya	37	306	2436	2742
	Peradeniya	151	778	10143	10921
Polonnaruwa	Dehiattakandiya	7	336	410	746
	Medirigiriya	0	245	0	245
	Polonnaruwa	168	935	9682	10617
Ratnapura	Balangoda	11	648	744	1392
	Embilipitiya	39	186	2825	3011
	Kahawatta	0	252	0	252
	Ratnapura	168	844	11700	12544
Trincomalee	Kantale	0	114	11	125
	Kinniya	0	7	0	7
	Muththur	13	101	369	470
	Trincomalee	55	411	3009	3420
Vavuniya	Chettikulam	-	-	-	-
	Mannar	18	251	991	1242
	Vavniya	55	543	3044	3587
<b>Total</b>		<b>5524</b>	<b>56849</b>	<b>367278</b>	<b>424127</b>

**Table 8.1 : Statistics of Blood Collection 2022**

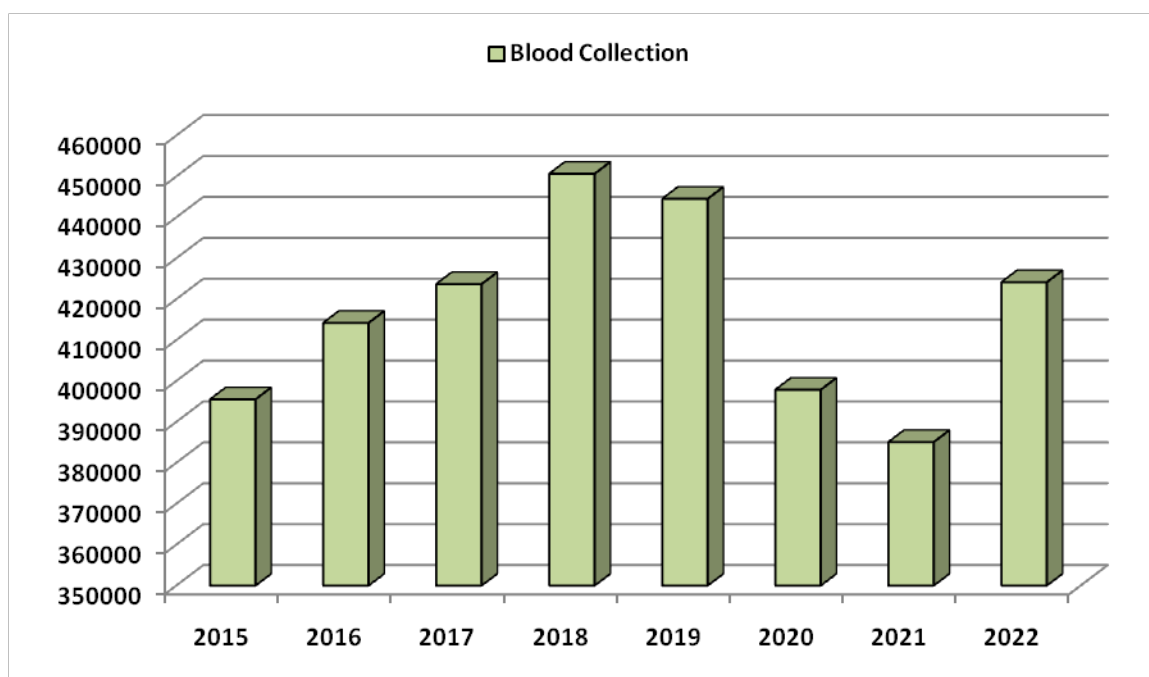


**Figure 8.1 : Distribution of Total Blood Collection by Mode of Collection—2022**

## 8.1 Analysis of Annual Blood Collection

Year	Voluntary Collection	Replacement Collection	Total Collection
2015	395 500	0	395 500
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

**Table 8.2 : Analysis of Annual Blood Collections**

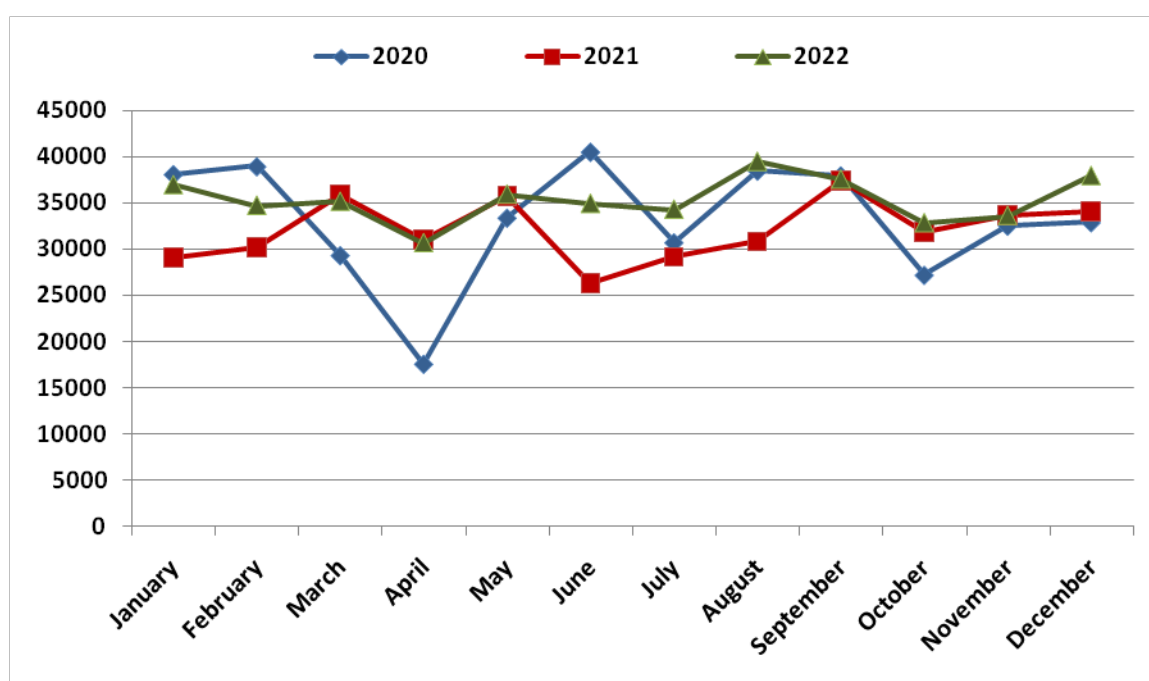


**Figure 8.2: Yearly Comparison of Total Blood Collection**

## 8.2 Analysis of Monthly Blood Collection

Period	2020	2021	2022
January 2022	38122	29083	36962
February 2022	38987	30200	34727
March 2022	29335	35865	35160
April 2022	17550	31035	30656
May 2022	33403	35692	35932
June 2022	40557	26291	34929
July 2022	30730	29143	34297
August 2022	38512	30803	39497
September 2022	37989	37380	37569
October 2022	27203	31810	32819
November 2022	32536	33670	33616
December 2022	32909	34082	37963
<b>Total</b>	<b>397833</b>	<b>385054</b>	<b>424127</b>

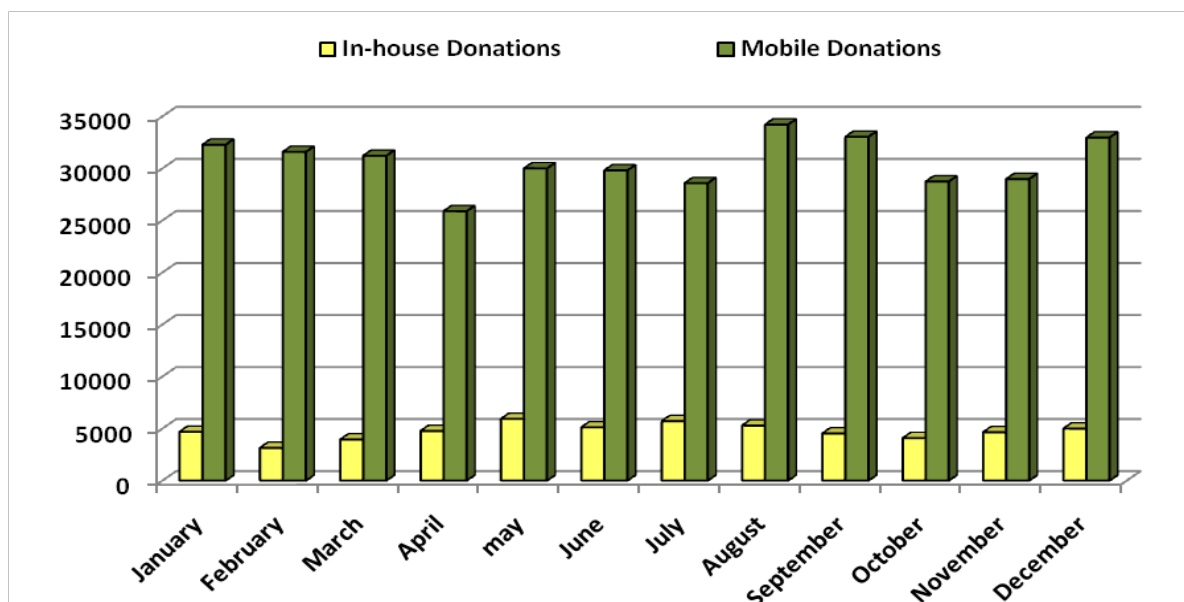
**Table 8.3 : Yearly Comparison of Monthly Blood Collection**



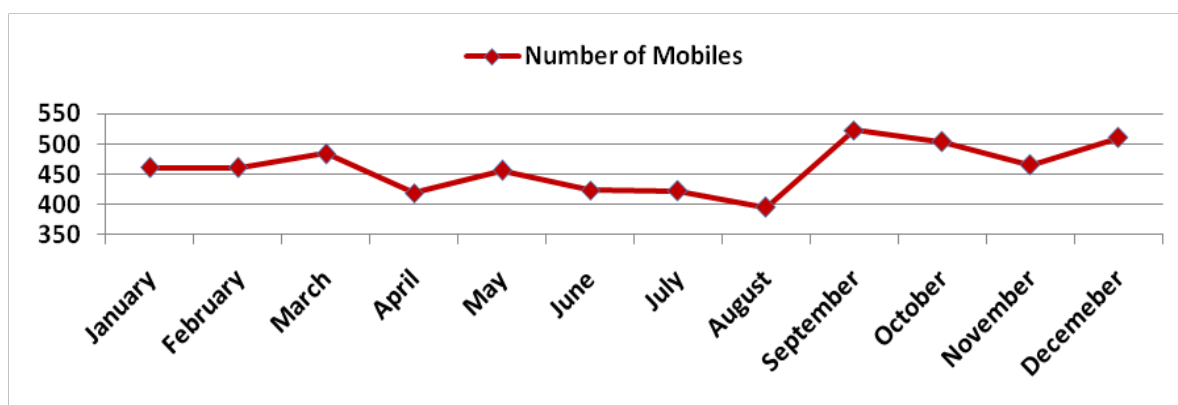
**Figure 8.3: Yearly Comparison of Monthly Blood Collections**

Period	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
January 2022	461	4686	32276	36962
February 2022	461	3139	31588	34727
March 2022	484	3944	31216	35160
April 2022	419	4768	25888	30656
May 2022	456	5929	30003	35932
June 2022	424	5122	29807	34929
July 2022	422	5714	28583	34297
August 2022	395	5289	34208	39497
September 2022	523	4532	33037	37569
October 2022	504	4081	28738	32819
November 2022	465	4645	28971	33616
December 2022	510	5000	32963	37963
<b>Total</b>	<b>5524</b>	<b>56849</b>	<b>367278</b>	<b>424127</b>

**Table 8.4 : Analysis of Monthly Variations in Blood Collection - 2022**



**Figure 8.4: Analysis of Monthly Variations in Blood Collection – 2022**

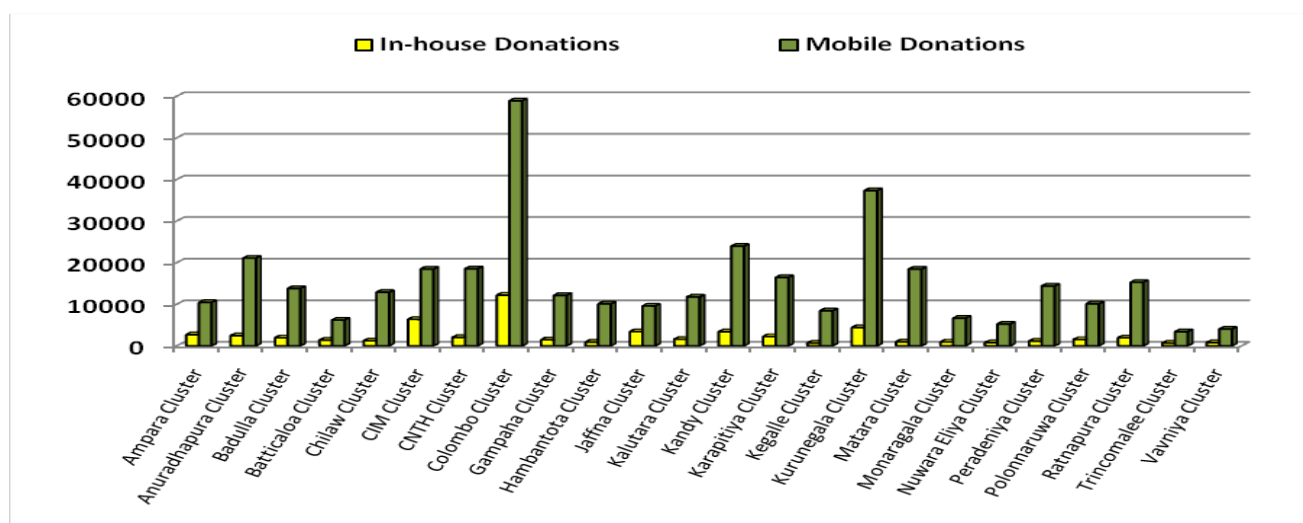


**Figure 8.5: Monthly Variation in Number of Mobiles—2022**

## 8.3 Cluster-wise Blood Collection

Cluster	Number of Mobiles	In-house Donations	Mobile Donations	Total Donations
Ampara Cluster	194	2689	10416	13105
Anuradhapura Cluster	333	2435	21088	23523
Badulla Cluster	386	1933	13754	15687
Batticaloa Cluster	103	1351	6196	7547
Chilaw Cluster	183	1216	12852	14068
CIM Cluster	231	6373	18466	24839
CNTH Cluster	256	2011	18524	20535
Colombo Cluster	697	12170	58910	71080
Gampaha Cluster	198	1452	12113	13565
Hambantota Cluster	167	902	10072	10974
Jaffna Cluster	238	3410	9575	12985
Kalutara Cluster	193	1574	11721	13295
Kandy Cluster	309	3388	23961	27349
Karapitiya Cluster	235	2228	16420	18648
Kegalle Cluster	144	658	8428	9086
Kurunegala Cluster	453	4380	37302	41682
Matara Cluster	212	973	18444	19417
Monaragala Cluster	128	926	6640	7566
Nuwara Eliya Cluster	110	756	5240	5996
Peradeniya Cluster	220	1151	14371	15522
Polonnaruwa Cluster	175	1516	10092	11608
Ratnapura Cluster	218	1930	15269	17199
Trincomalee Cluster	68	633	3389	4022
Vavniya Cluster	73	794	4035	4829
<b>Total</b>	<b>5524</b>	<b>56849</b>	<b>367278</b>	<b>424127</b>

**Table 8.5 : Total Blood Collection—Cluster wise 2022**



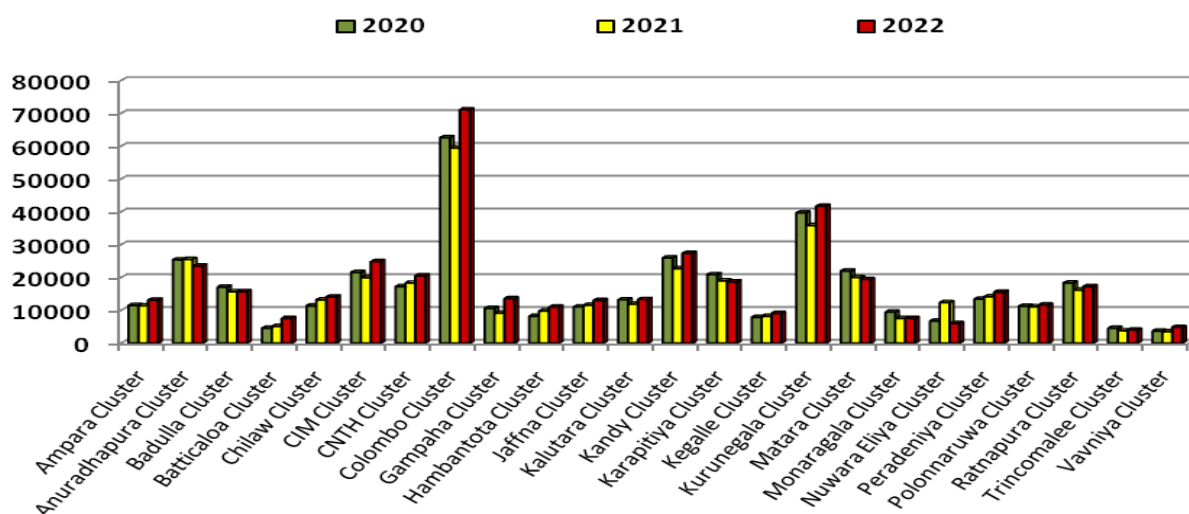
**Figure 8.6: Total Blood Collection—Cluster wise 2022**



## 8.4 Yearly Analysis of Cluster Collection

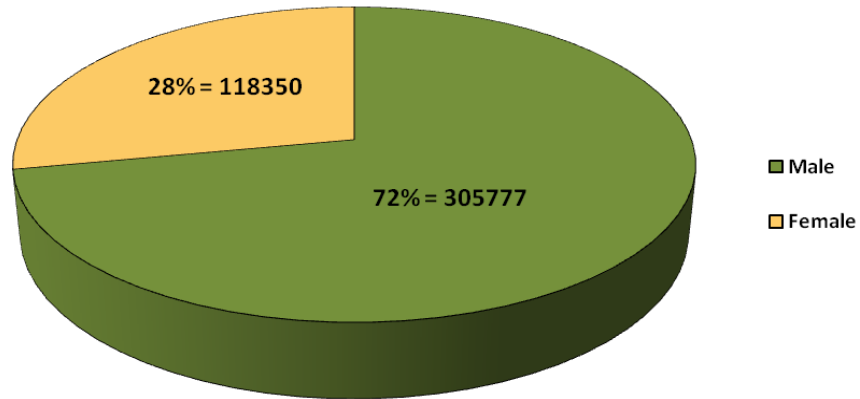
Cluster	2020	2021	2022
Ampara Cluster	11460	11360	13105
Anuradhapura Cluster	25379	25535	23523
Badulla Cluster	17055	15692	15687
Batticaloa Cluster	4559	5098	7547
Chilaw Cluster	11346	13186	14068
CIM Cluster	21521	19936	24839
CNTH Cluster	17211	18295	20535
Colombo Cluster	62589	59450	71080
Gampaha Cluster	10595	9137	13565
Hambantota Cluster	8200	9786	10974
Jaffna Cluster	11037	11532	12985
Kalutara Cluster	13212	11915	13295
Kandy Cluster	25984	22689	27349
Karapitiya Cluster	20869	18955	18648
Kegalle Cluster	7874	8172	9086
Kurunegala Cluster	39688	35803	41682
Matara Cluster	21959	19983	19417
Monaragala Cluster	9437	7551	7566
Nuwara Eliya Cluster	6698	12341	5996
Peradeniya Cluster	13405	14138	15522
Polonnaruwa Cluster	11250	11079	11608
Ratnapura Cluster	18299	16132	17199
Trincomalee Cluster	4536	3779	4022
Vavniya Cluster	3670	3510	4829
<b>Total</b>	<b>397833</b>	<b>385054</b>	<b>424127</b>

**Table 8.6 : Yearly Comparison of Cluster Collection**

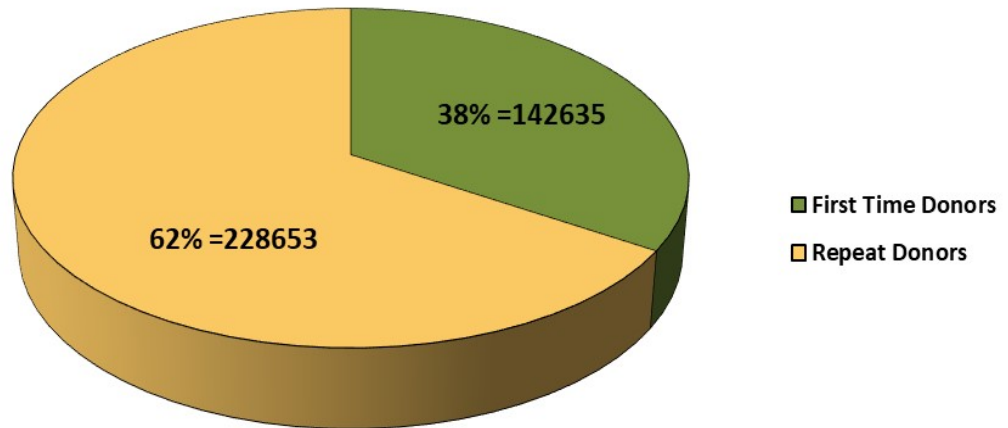


**Figure 8.7: Yearly Comparison of Cluster Collection**

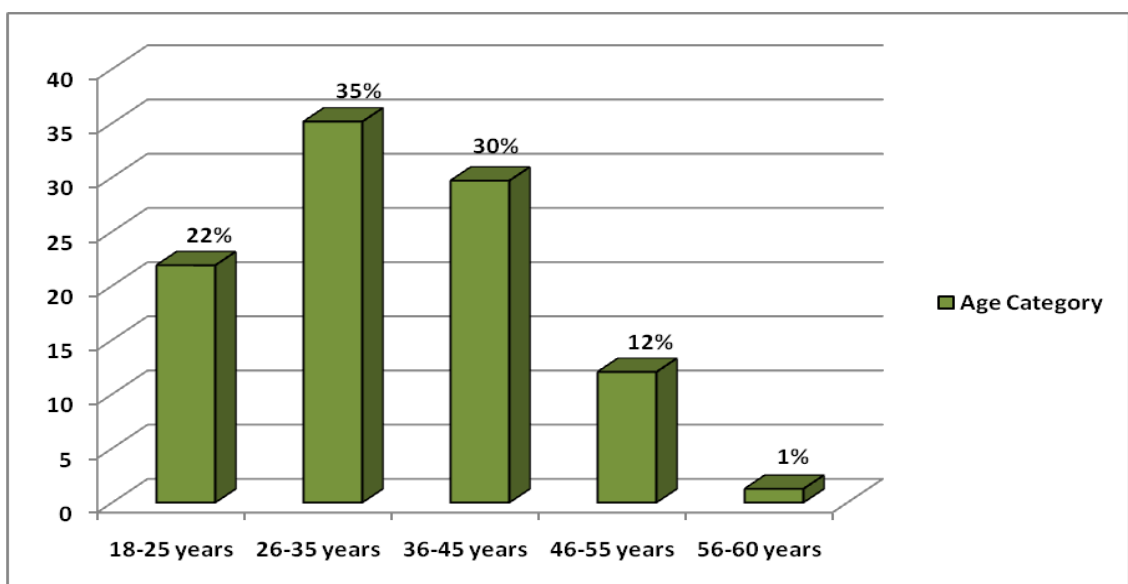
## 8.5 Demographics of Blood Donors



**Figure 8.8: Gender Distribution of Blood Donors—2022**



**Figure 8.9: Donor Population According to Number of Donors—2022**



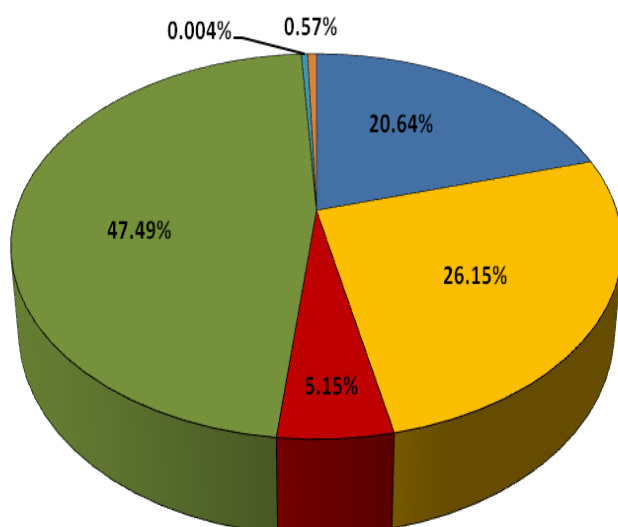
**Figure 8.10: Donor Population According to Age Category—2022**

## 8.6 ABO and Rh Group Distribution of Blood Collection

	A	B	AB	O	Bombay O	Other	Total
<b>Rh D Positive</b>	84710	107558	21141	170864	16	2331	386620
%	19.1432	24.3066	4.7776	38.6128	0.0036	0.5268	87.3706
<b>Rh D Negative</b>	5087	6237	1284	36041	1	168	48818
%	1.1496	1.4095	0.2902	8.1447	0.0002	0.0380	11.0322
<b>Weak D</b>	1553	1912	364	3238	1	0	7068
%	0.3510	0.4321	0.0823	0.7317	0.0002	0.0000	1.5973
<b>Total</b>	91350	115707	22789	210143	18	2499	442506

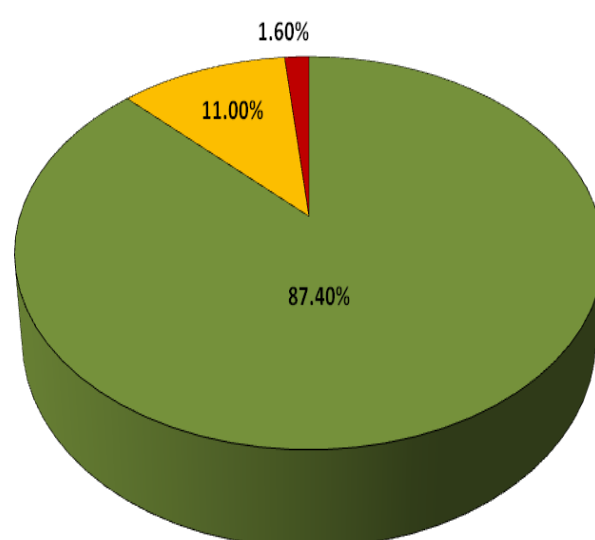
**Table 8.7 : ABO and Rh Group Analysis of Collection—2022**

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



**Figure 8.11: ABO Distribution of Donor Population—2022**

■ Rh D Positive ■ Rh D Negative ■ Weak D



**Figure 8.12: Rh Distribution of Donor Population—2022**

## 09 PREPARATION OF BLOOD COMPONENTS

Cluster	Blood Bank	RCC	PLT	FFP	CSP	Cryo	Stored Plasma	Buffy Coat
Ampara	Akkarepattu	287	0	0	0	0	0	0
	Ampara	11394	6113	11393	2795	2778	0	0
	Kalmunai North	361	0	16	0	0	345	0
	Kalmunai South	141	0	0	0	0	138	0
	Mahaoya	290	0	0	0	0	112	0
	Pothuvil	91	0	0	0	0	83	0
	Sammanthurai	84	0	0	0	0	78	0
Anuradhapura	Anuradhapura	25286	13221	25286	4070	4070	0	10
	Medawachchiya	-	-	-	-	-	-	-
	Padaviya	144	0	0	0	0	0	0
	Thambuttegama		0	0	0	0	0	0
Badulla	Badulla	15254	10556	14989	76	1498	0	0
	Diyatalawa	0	0	0	0	0	0	0
	Mahiyanganaya	0	0	0	0	0	523	0
	Welimada	213	0	213	25	0	0	0
Batticaloa	Batticaloa	7609	3376	6481	561	513	909	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	Chilaw	13284	5035	10847	1729	1729	0	0
	Kalpitiya	-	-	-	-	-	-	-
	Marawila	240	0	1440	0	0	0	0
	Puttlam	426	26	426	0	0	0	0
CIM	Apeksha	23798	23357	23800	75	75	0	14937
	Awissawella	804	0	1345	0	0	0	0
	Homagama	1799	0	36	0	0	0	0
CNTH	CNTH	20305	10336	17861	4052	4053		9735
	Kiribathgoda	-	-	-	-	-	-	-
	Negambo	292	0	0	0	0	292	0
	Welisara	0	0	0	0	0	0	0
Colombo	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	381	0	383	0	0	0	0
	DMH	0	0	0	0	0	0	0
	IDH-Angoda	0	0	0	0	0	0	0
	KDU	554	297	464	0	0	89	10
	LRH	0	0	0	0	0	0	0
	NBC	68202	42905	51844	7196	7742	0	1018
	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	3258	2409	3199	58	58	0	140	

## PREPARATION OF BLOOD COMPONENTS Cont...

Cluster	Blood Bank	RCC	PLT	FFP	CSP	Cryo	Stored Plasma	Buffy Coat
Gampaha	Gampaha	6951	1797	6440	542	548	0	0
	Meerigama	15	0	0	0	0	15	0
	Minuwangoda	4	0	3	1	0	0	0
	Wathupitiwala	4246	1080	2615	771	771	0	0
Hambantota	Hambantota	10509	3643	8267	2241	2241	0	3225
	Tangalle	367	207	367	0	0	0	0
	Tissamaharama	0	0	0	0	0	0	0
	Walasmulla	0	0	0	0	0	0	0
Jaffna	Jaffna	11513	7327	8187	2687	2687	131	3603
	Kilinochchi	787	203	787	0	0	0	0
	Mulathiv	360	0	360	0	0	0	0
	Point Pedro	283	0	283	0	0	0	0
	Tellippalai	0	0	0	0	0	0	0
Kalutara	Horana	689	0	689	0	0	0	0
	Kalutara	12142	4648	10543	1085	1085	28	1794
	Kethumathie	76	0	0	9	0	67	0
	Panadura	178	0	64	114	0	0	0
Kandy	Dambulla	2888	0	367	0	0	611	0
	Kandy	21188	17006	19088	65	1401	0	8168
	Matale	3245	1638	3234	226	226	0	0
	Theldeniya	0	0	0	0	0	0	0
Karapitiya	Balapitiya	1585	0	138	0	0	1447	0
	Elpitiya	1208	0	0	0	0	260	0
	Karapitiya	14449	8358	14383	855	855	0	4073
	Mahamodara	895	0	0	0	0	930	0
	Udugama	156	0	148	0	0	6	0
Kegalle	Karawanella	0	0	0	0	0	0	0
	Kegalle	8630	3240	5758	1185	1185	0	543
	Mawanella	198	0	0	0	0	198	0
	Warakapola	0	0	0	0	0	0	0
Kurunegala	Dambadeniya	78	0	0	0	0	78	0
	Galgamuwa	0	0	0	0	0	0	0
	Kuliyapitiya	430	0	430	0	0	0	0
	Kurunegala	40519	27659	32718	2385	2545	160	26616
	Nikaweratiya	203	0	203	0	0	0	0
Matara	Deniyaya	0	0	0	0	0	0	0
	Kamburugamuwa	19091	7920	18976	4142	4138	116	3869
	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	Bibila	0	0	0	0	0	0	0
	Monaragala	7400	3310	6404	1056	1566	122	0
	Wellawaya	12	0	0	0	0	1	0
Nuwara Eliya	Dikkoya	73	0	74	0	0	0	0
	Nuwara Eliya	5542	2449	5011	601	601	0	0
	Rikillagaskada	301	0	0	0	0	0	0

## PREPARATION OF BLOOD COMPONENTS Cont...

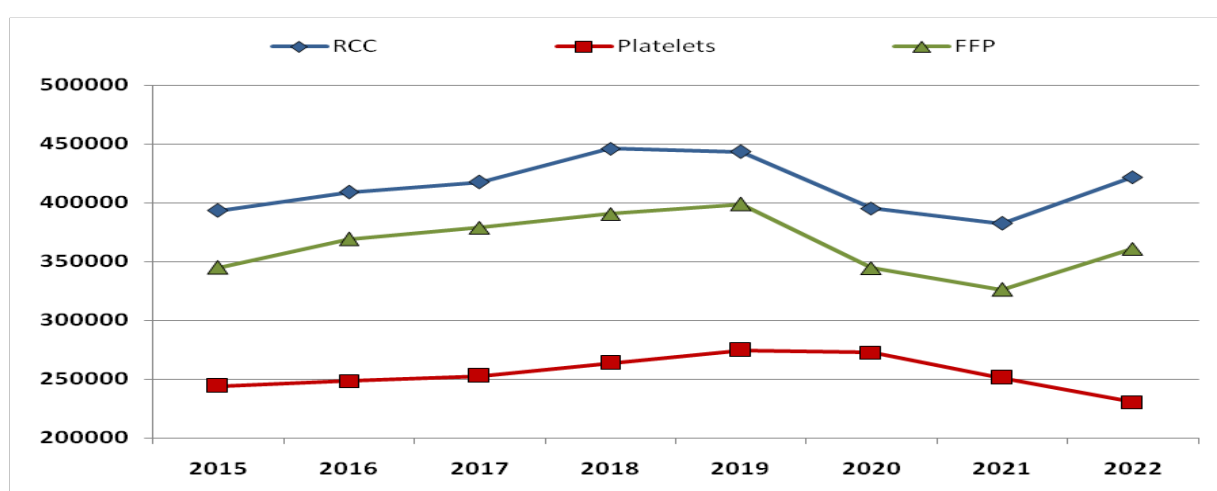
Cluster	Blood Bank	RCC	PLT	FFP	CSP	Cryo	Stored Plasma	Buffy Coat
Peradeniya	Gampola	68	0	68	0	0	0	0
	Nawalapitiya	306	0	0	55	0	251	0
	Peradeniya	15092	8453	11548	550	1396	796	2653
Pol-onnaruwa	Dehiattakandiya	336	0	0	0	0	0	0
	Medirigiriya	242	0	0	0	0	0	0
	Polonnaruwa	10948	5098	10948	837	838	0	656
Ratnapura	Balangoda	0	0	0	0	0	0	0
	Embilipitiya	0	0	0	0	0	0	0
	Kahawatta	0	0	0	0	0	0	0
	Ratnapura	17051	6408	17052	1142	2868	0	0
Trincomalee	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	4286	1876	4280	816	1450	43	0
Vavuniya	Chettikulam	-	-	-	-	-	-	-
	Mannar	0	0	0	0	0	0	0
	Vavuniya	3043	529	1605	563	834	0	0
<b>Total</b>		<b>422080</b>	<b>230480</b>	<b>361061</b>	<b>42565</b>	<b>49751</b>	<b>7829</b>	<b>81050</b>

**Table 9.1 : Statistics of Blood Component Preparation 2022**

## 9.1 Component Preparation Analysis

	2015	2016	2017	2018	2019	2020	2021	2022
<b>RCC</b>	393 348	408 959	417 792	446 098	443 235	395 319	382 422	422080
<b>PLT</b>	244 071	248 644	252 865	263 720	274 499	272 613	251 055	230480
<b>FFP</b>	344 788	369 299	378 983	390 671	399 052	344 779	326 349	361061

**Table 9.2: Yearly Comparison of Component Preparation**



**Figure 9.1: Yearly Comparison of Component Preparation**

Blood Bank	No. of Procedures	No. of Units Collected
Ampara	11	124
Anuradhapura	2	8
Apeksha	333	3762
Army Hospital	2	18
Badulla	3	22
Batticaloa	4	24
CNTH	3	46
Jaffna	68	876
Kandy	165	2333
NBC	350	4855.7
<b>Total</b>	<b>941</b>	<b>9735.7</b>

**Table 9.3: Platelet Apheresis Donations 2022**



## 10 STATISTICS OF RCC CROSSMATCHES AND ISSUES

Cluster	Blood Bank	Requests	Cross Matches	Issues	C:I Ratio
Ampara	Akkarepattu	5653	5634	1623	3.5
	Ampara	14902	9379	7112	1.3
	Kalmunai North	3070	2623	915	2.9
	Kalmunai South	5276	5170	1753	2.9
	Mahaoya	978	975	703	1.4
	Pothuvil	513	602	275	2.2
	Sammanthurai	1203	1254	354	3.5
Anuradhapura	Anuradhapura	45911	28948	20414	1.4
	Medawachchiya	-	-	-	-
	Padaviya	742	708	518	1.4
	Thambuttegama	4355	4251	1785	2.4
Badulla	Badulla	21443	11236	9373	1.2
	Diyatalawa	3802	4102	1699	2.4
	Mahiyanganaya	11539	11055	3075	3.6
	Welimada	4379	4494	1439	3.1
Batticaloa	Batticaloa	17821	16092	8647	1.9
	Kalawanchikudi	442	515	282	1.8
	Kattankudy	270	239	66	3.6
	Valachchenai	963	739	278	2.7
Chilaw	Chilaw	13564	7992	6743	1.2
	Kalpitiya	-	-	-	-
	Marawila	8553	7849	2965	2.6
	Puttlam	12489	11709	4819	2.4
CIM	Apeksha	34086	26523	18055	1.5
	Awissawella	7899	7075	2892	2.4
	Homagama	6585	5187	2070	2.5
CNTH	CNTH	38207	27058	19912	1.4
	Kiribathgoda	-	-	-	-
	Negambo	12477	6789	3479	2
	Welisara	5769	4778	811	5.9
Colombo	Accident Service	27469	9034	6547	1.4
	Army Hospital	3730	2426	1449	1.7
	CEBH-Mulleriyawa	2914	2772	1186	2.3
	CSHW	11202	6626	2576	2.6
	CSTH	31195	13610	11094	1.2
	DMH	10485	7280	1971	3.7
	IDH-Angoda	3595	4365	1260	3.5
	KDU	4745	2704	1906	1.4
	LRH	12942	12152	4121	2.9
	NBC	25015	18730	11442	1.6
	NFTH	1801	1718	834	2.1
	NHSL	71651	33949	23365	1.5
	NINDT-Maligawaththa	1913	1952	799	2.4
SJGH	15526	7606	4575	1.7	

## RCC CROSSMATCHES AND ISSUES Cont...

Cluster	Blood Bank	Requests	Cross Matches	Issues	C:I Ratio
Gampaha	Gampaha	15763	10930	5298	2.1
	Meerigama	1177	1137	595	1.9
	Minuwangoda	602	616	320	1.9
	Wathupitiwala	9189	6898	3289	2.1
Hambantota	Hambantota	14097	10883	5225	2.1
	Tangalle	8959	7195	3288	2.2
	Tissamaharama	3492	3090	963	3.2
	Walasmulla	1952	1989	673	3
Jaffna	Jaffna	42548	14675	9349	1.6
	Kilinochchi	4945	1927	1484	1.3
	Mulathiv	1632	1983	769	2.6
	Point Pedro	1881	1862	871	2.1
	Tellippalai	3015	2422	1446	1.7
Kalutara	Horana	7528	7144	3267	2.2
	Kalutara	19957	10319	7694	1.3
	Kethumathie	5230	1301	473	2.8
	Panadura	5842	4641	2165	2.1
Kandy	Dambulla	8249	7330	3229	2.3
	Kandy	64026	29964	21115	1.4
	Matale	9181	8224	2792	2.9
	Theldeniya	3021	2784	1298	2.1
Karapitiya	Balapitiya	5937	5903	1720	3.4
	Elpitiya	5974	5518	1826	3
	Karapitiya	52937	48328	17332	2.8
	Mahamodara	8619	10066	1356	7.4
	Udugama	1914	2174	714	3
Kegalle	Karawanella	8311	7127	2045	3.5
	Kegalle	15510	12987	4284	3
	Mawanella	4965	4952	1593	3.1
	Warakapola	4212	4104	1278	3.2
Kurunegala	Dambadeniya	4543	3000	1393	2.2
	Galgamuwa	3196	2846	870	3.3
	Kuliyapitiya	9307	9797	3781	2.6
	Kurunegala	68751	43569	32074	1.4
	Nikaweratiya	9484	8111	2998	2.7
Matara	Deniyaya	964	918	490	1.9
	Kamburugamuwa	-	-	-	-
	Kamburupitiya	4631	4842	1126	4.3
	Matara	18608	13268	8257	1.6
	New DGH Kamburugamuwa	101	100	55	1.8

## RCC CROSSMATCHES AND ISSUES Cont...

Cluster	Blood Bank	Requests	Cross Matches	Issues	C:I Ratio
Monaragala	Bibila	3155	2811	1200	2.3
	Monaragala	13433	12372	6454	1.9
	Wellawaya	621	448	398	1.1
Nuwara Eliya	Dikkoya	2961	4620	1987	2.3
	Nuwara Eliya	7577	6818	2743	2.5
	Rikillagaskada	2244	3753	915	4.1
Peradeniya	Gampola	5842	5512	2068	2.7
	Nawalapitiya	7017	6645	1906	3.5
	Peradeniya	23528	14557	9727	1.5
Polonnaruwa	Dehiattakandiya	1737	1714	834	2.1
	Medirigiriya	2014	1921	1012	1.9
	Polonnaruwa	22025	11481	9259	1.2
Ratnapura	Balangoda	4990	5128	1503	3.4
	Embilipitiya	9575	9658	3391	2.8
	Kahawatta	4333	4289	1512	2.8
	Ratnapura	29123	12710	10696	1.2
Trincomalee	Kantale	1368	1420	526	2.7
	Kinniya	1910	918	291	3.2
	Muththur	1074	1546	417	3.7
	Trincomalee	7071	5052	3119	1.6
Vavuniya	Chettikulam	-	-	-	-
	Mannar	3626	3619	1320	2.7
	Vavniya	8557	5718	3579	1.6
<b>Total</b>		<b>1 131 105</b>	<b>785 534</b>	<b>418 834</b>	<b>1.9</b>

**Table 10.1 : Statistics of RCC Requests, Cross-matches and Issues 2022**

## 11 STATISTICS OF OTHER BLOOD COMPONENT ISSUES

Cluster	Blood Bank	PC-Total	AP	FFP	Cryo	CSP	Buffy coat
Ampara	Akkarepattu	68	0	191	81	0	0
	Ampara	1165	35	1366	350	0	0
	Kalmunai North	133	1	247	100	0	0
	Kalmunai South	101	0	339	145	0	0
	Mahaoya	0	0	55	0	0	0
	Pothuvil	0	0	13	10	0	0
	Sammanthurai	7	0	55	30	0	0
Anuradhapura	Anuradhapura	5449	18	3490	1705	449	10
	Medawachchiya	-	-	-	-	-	-
	Padaviya	0	0	4	0	0	0
	Thambuttegama	36	0	158	7	0	0
Badulla	Badulla	3206	46	5099	588	101	0
	Diyatalawa	401	0	474	76	0	0
	Mahiyanganaya	387	3	860	155	9	0
	Welimada	46	0	231	40	0	0
Batticaloa	Batticaloa	2466	46	2774	888	56	0
	Kalawanchikudi	0	0	41	0	0	0
	Kattankudy	0	0	2	0	0	0
	Valachchenai	-	-	-	-	-	-
Chilaw	Chilaw	1662	0	2087	339	47	0
	Kalpitiya	-	-	-	-	-	-
	Marawila	147	0	1787	50	0	0
	Puttlam	754	9	3275	358	158	0
CIM	Apeksha	44441	4541	5423	331	0	423
	Awissawella	340	0	693	502	2	0
	Homagama	361	0	537	112	84	0
CNTH	CNTH	3283	184	5453	2060	1292	20
	Kiribathgoda	-	-	-	-	-	-
	Negambo	315	0	2039	920	11	0
	Welisara	191	0	389	180	302	6

## OTHER BLOOD COMPONENT ISSUES Cont...

Cluster	Blood Bank	PC-Total	AP	FFP	Cryo	CSP	Buffy coat
Colombo	Accident Service	3920	0	4245	1703	404	0
	Army Hospital	265	36	1132	228	16	0
	CEBH-Mulleriyawa	104	5	215	10	0	0
	CSHW	274	40	823	685	0	0
	CSTH	2881	11	3789	835	1298	0
	DMH	277	6	560	439	0	0
	IDH-Angoda	460	18	423	293	20	0
	KDU	372	0	395	95	16	62
	LRH	3224	30	2580	2298	23	36
	NBC	6760	454	2237	897	60	83
	NFTH	183	18	105	20	3	6
	NHSL	8985	1469	13666	4547	836	264
	NINDT-Maligawaththa	108	0	189	31	6	20
SJGH	2552	0	2795	830	183	0	
Gampaha	Gampaha	861	0	3266	400	36	0
	Meerigama	8	0	430	30	0	0
	Minuwangoda	0	0	60	0	0	0
	Wathupitiwala	565	0	2021	757	2	0
Hambantota	Hambantota	795	6	1443	467	26	0
	Tangalle	266	0	707	160	0	0
	Tissamaharama	22	0	172	60	0	0
	Walasmulla	18	0	21	40	0	0
Jaffna	Jaffna	2371	461	3945	1419	326	0
	Kilinochchi	320	0	742	132	0	0
	Mulathiv	4	160	134	40	0	0
	Point Pedro	59	0	121	63	0	0
	Tellippalai	884	208.4	174	338	0	0
Kalutara	Horana	388	0	810	226	21	0
	Kalutara	1671	0	5190	169	276	0
	Kethumathie	15	0	63	30	0	0
	Panadura	335	3	1364	65	73	0
Kandy	Dambulla	554	0	832	183	0	0
	Kandy	12776	2248	7723	2631	220	180
	Matale	560	0	901	303	3	0
	Theldeniya	95	0	217	56	0	0
Karapitiya	Balapitiya	152	0	1181	406	0	0
	Elpitiya	139	0	514	190	0	0
	Karapitiya	7174	28	10125	1869	234	3
	Mahamodara	166	0	205	155	0	0
	Udugama	11	0	28	25	0	0
Kegalle	Karawanella	266	0	1183	279	5	0
	Kegalle	763	0	2184	102	53	0
	Mawanella	201	0	670	10	0	0
	Warakapola	152	0	607	153	44	0

## OTHER BLOOD COMPONENT ISSUES Cont...

Cluster	Blood Bank	PC-Total	AP	FFP	Cryo	CSP	Buffy coat
Kurunegala	Dambadeniya	88	0	347	327	114	0
	Galgamuwa	82	0	140	80	0	0
	Kuliyapitiya	354	0	3069	100	0	0
	Kurunegala	5313	0	6994	668	676	0
	Nikaweratiya	166	0	759	69	6	0
Matara	Deniyaya	0	0	2	0	0	0
	Kamburugamuwa	-	-	-	-	-	-
	Kamburupitiya	111	0	379	130	0	0
	Matara	3531	13	2472	1783	137	0
	New DGH Kambu-rugamuwa	57	0	42	120	0	0
Monaragala	Bibila	54	0	230	30	0	0
	Monaragala	1084	2	1404	1390	0	0
	Wellawaya	40	0	15	0	0	0
Nuwara Eliya	Dikkoya	271	0	723	48	0	0
	Nuwara Eliya	1692	6	2300	322	259	0
	Rikillagaskada	129	0	195	35	0	0
Peradeniya	Gampola	388	0	713	147	0	0
	Nawalapitiya	160	6	598	50	0	0
	Peradeniya	3748	60	5515	1010	140	0
Polonnaruwa	Dehiattakandiya	84	0	48	20	0	0
	Medirigiriya	56	0	173	0	0	0
	Polonnaruwa	1304	10	3173	637	404	0
Ratnapura	Balangoda	204	0	419	125	228	0
	Embilipitiya	626	0	567	209	6	0
	Kahawatta	66	0	318	45	3	0
	Ratnapura	4012	34	5224	1590	62	21
Trincomalee	Kantale	17	0	292	50	0	0
	Kinniya	30	0	53	30	0	0
	Muththur	0	0	55	40	0	0
	Trincomalee	574	0	840	627	0	0
Vavuniya	Chettikulam	-	-	-	-	-	-
	Mannar	92	0	184	40	0	0
	Vavuniya	261	0	843	389	128	0
Total		151509	10215	155355	42807	8858	1134

**Table 11.1 : Statistics of Other Blood Components Issues 2022**

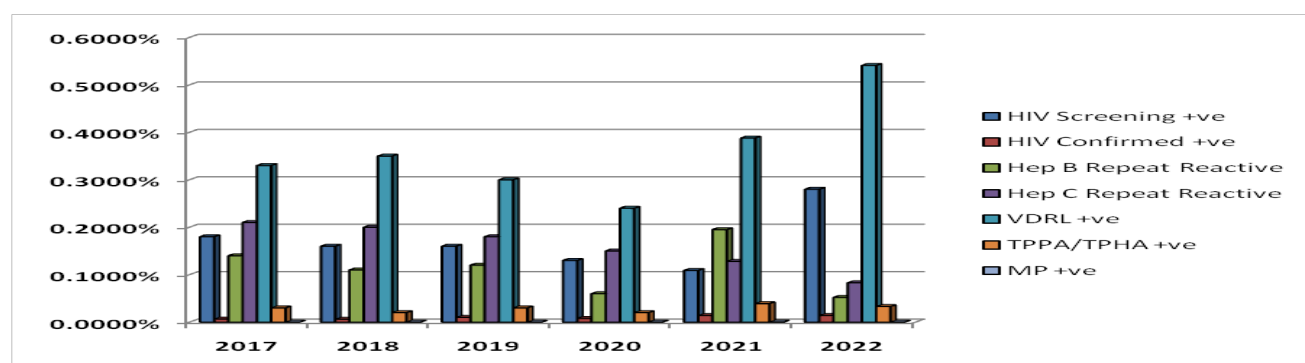
	RCC	FFP	PC-Total	AP	Cryo	CSP	Buffy Coat
<b>2020</b>	375848	146470	155363	10215.5	44454	3872	662
<b>2021</b>	376576	134736	155405	9552.6	46341	3117	1244
<b>2022</b>	418834	155355	151509	10215.4	42807	8858	1134

**Table 11.2: Yearly Comparison of Blood Component Issues**

## 12 SCREENING OF DONATED BLOOD FOR TRANSFUSION TRANSMITTED INFECTIONS

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Total Number Of Units</b>	380808	380367	395500	414175	423668	450640	444515	397833	385054	424127
<b>HIV Screening Positives</b>	625 (0.16%)	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%)
<b>HIV Confirmed Positives</b>	16 (0.004%)	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%)
<b>Hepatitis B Repeat Reactives</b>	273 (0.07%)	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%)
<b>Hepatitis C Repeat Reactives</b>	953 (0.25%)	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%)
<b>VDRL Positives</b>	1016 (0.27%)	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%)
<b>TPPA/TPHA Positives</b>	180 (0.05%)	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%)
<b>MP Positives</b>	0	0	0	0	0	0	0	0	1 (0.0003%)	0

**Table 12.1: Yearly Comparison of the Prevalence of TTI Markers**



**Figure 12.1: Yearly Comparison of the Prevalence of TTI Markers**



## 12.1 Analysis of TTI Screening Statistics

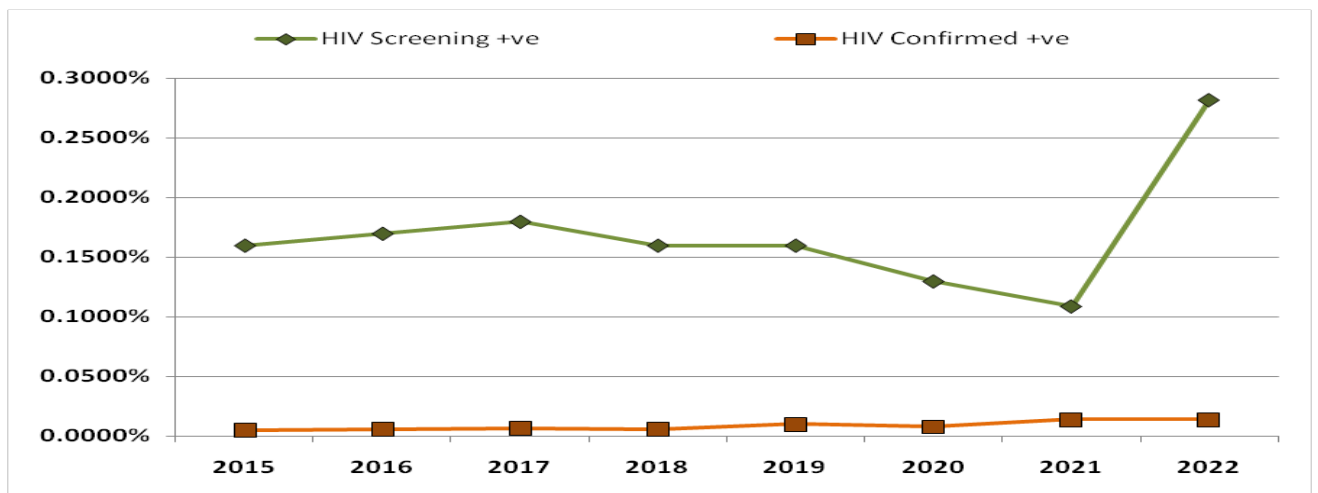


Figure 12.2: Yearly Comparison of the Prevalence of HIV Markers in Total Collection

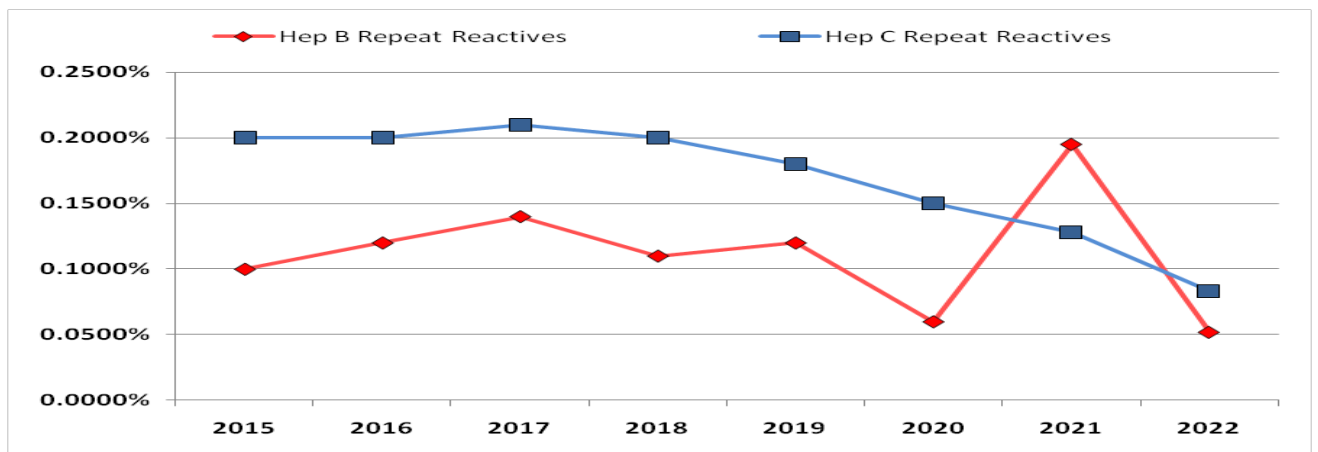


Figure 12.3: Yearly Comparison of the Prevalence of Hepatitis Markers in Total Collection

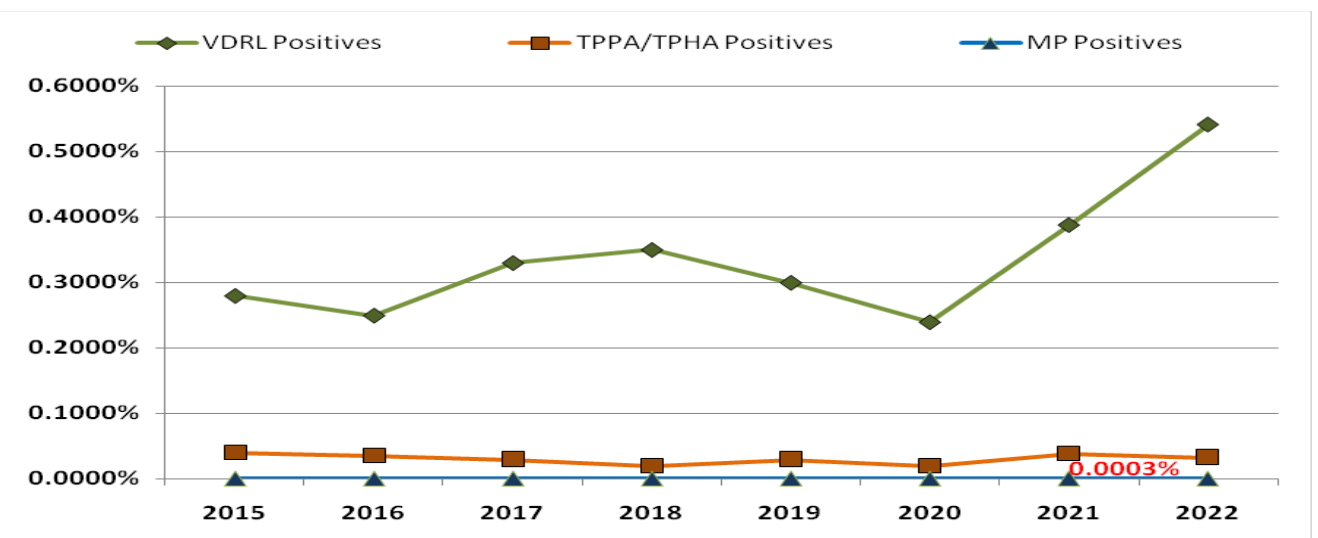


Figure 12.3: Yearly Comparison of the Prevalence of VDRL, TPPA and MP in Total Collection

## 13 RED CELL CONCENTRATE(RCC) DISCARDS

Cluster	Blood Bank	Scr +ve	Out Dated	Other	Total RCC Discards	RCC Discard Rate
Ampara	Akkarepattu	21	0	5	26	0.00
	Ampara	135	41	40	216	0.49
	Kalmunai North	4	4	1	9	0.22
	Kalmunai South	0	13	6	19	0.73
	Mahaoya	0	0	0	0	0.00
	Pothuvil	0	1	0	1	0.36
	Sammanthurai	0	0	1	1	0.00
Anuradhapura	Anuradhapura	221	119	19	359	0.57
	Medawachchiya	-	-	-	-	-
	Padaviya	0	1	1	2	0.19
	Thambuttegama	0	1	1	2	0.02
Badulla	Badulla	175	83	9	267	0.86
	Diyatalawa	23	99	19	141	5.33
	Mahiyanganaya	30	27	30	87	0.85
	Welimada	1	0	0	1	0.00
Battacaloo	Batticaloo	51	112	104	267	1.24
	Kalawanchikudi	0	1	0	1	0.35
	Kattankudy	0	0	0	0	0.00
	Valachchenai	0	0	0	0	0.00
Chialw	Chilaw	64	12	75	151	0.98
	Kalpitiya	-	-	-	-	-
	Marawila	25	16	26	67	0.52
	Puttlam	49	0	2	51	0.00
CIM	Apeksha	145	26	229	400	0.14
	Awissawella	2	28	37	67	0.93
	Homagama	0	12	23	35	0.16
CNTH	CNTH	193	73	38	304	0.36
	Kiribathgoda	-	-	-	-	-
	Negambo	46	88	26	160	0.63
	Welisara	0	96	0	96	10.58
Colombo	Accident Service	0	79	5	84	1.19
	Army Hospital	0	19	0	19	0.05
	CEBH-Mulleriyawa	0	36	0	36	2.95
	CSHW	0	3	20	23	0.11
	CSTH	0	0	5	5	0.00
	DMH	0	1	17	18	0.05
	IDH-Angoda	0	2	1	3	0.16
	KDU	0	32	0	32	1.65
	LRH	0	6	0	6	0.15
	NBC	448	42	91	581	0.35
	NFTH	0	173	4	177	17.04
	NHSL	0	161	123	284	15.05
	NINDT-Maligawaththa	0	2	4	6	0.25
SJGH	8	0	4	12	0.00	

## RCC DISCARDS Cont...

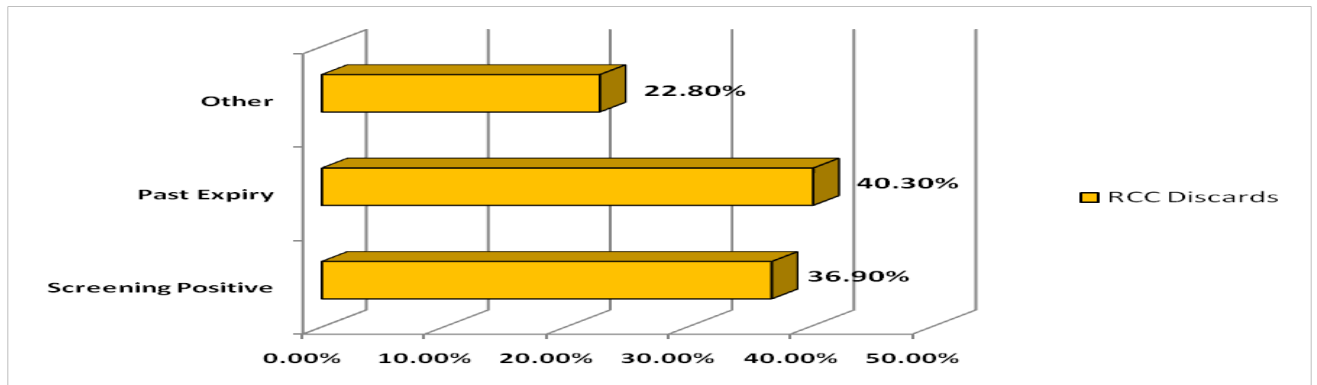
Cluster	Blood Bank	Scr +ve	Out Dated	Other	Total RCC Discards	RCC Discard Rate
<b>Gampaha</b>	Gampaha	20	4	93	117	0.09
	Meerigama	1	8	1	10	1.32
	Minuwangoda	0	0	0	0	0.00
	Wathupitiwala	7	75	39	121	3.81
<b>Hamabantota</b>	Hambantota	136	5	45	186	0.09
	Tangalle	0	0	1	1	0.00
	Tissamaharama	0	1	0	1	0.10
	Walasmulla	0	1	2	3	0.15
<b>Jaffna</b>	Jaffna	121	8	122	251	0.17
	Kilinochchi	0	1	26	27	0.07
	Mulathiv	2	0	1	3	0.00
	Point Pedro	0	0	1	1	0.00
	Tellippalai	2	0	0	2	0.00
<b>Kalutara</b>	Horana	0	106	19	125	3.11
	Kalutara	117	10	42	169	0.56
	Kethumathie	7	0	21	28	0.00
	Panadura	0	24	7	31	0.73
<b>Kandy</b>	Dambulla	32	72	28	132	2.12
	Kandy	0	69	50	119	4.83
	Matale	29	131	32	192	4.34
	Theldeniya	1	5	2	8	0.38
<b>Karapitiya</b>	Balapitiya	23	103	19	145	5.47
	Elpitiya	6	52	21	79	1.35
	Karapitiya	206	498	54	758	2.74
	Mahamodara	0	132	6	138	0.36
	Udugama	0	4	2	6	0.55
<b>Kegalle</b>	Karawanella	0	16	1	17	0.09
	Kegalle	2	13	31	46	0.65
	Mawanella	3	10	13	26	0.61
	Warakapola	0	11	2	13	0.85

## RCC DISCARDS Cont...

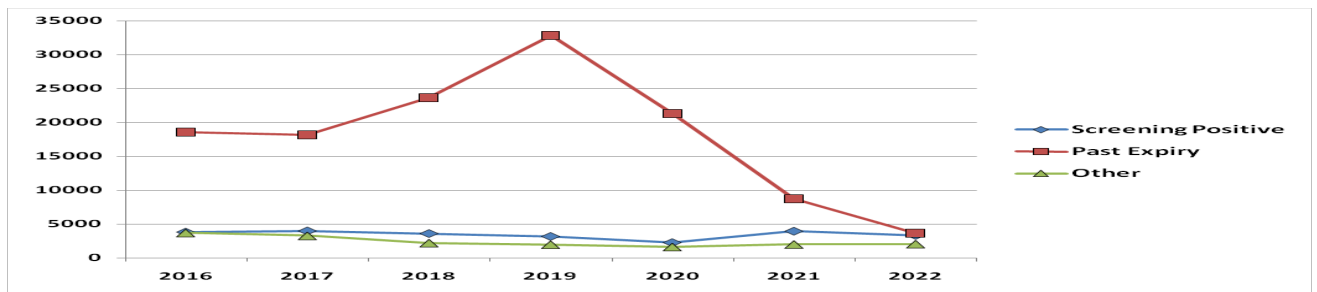
Cluster	Blood Bank	Ser +ve	Out Dated	Other	Total RCC Discards	RCC Discard Rate
Kurunegala	Dambadeniya	15	0	3	18	0.00
	Galgamuwa	0	0	0	0	0.00
	Kuliyapitiya	56	10	19	85	0.43
	Kurunegala	204	52	95	351	0.16
	Nikaweratiya	52	15	12	79	0.49
Matara	Deniyaya	0	0	1	1	0.00
	Kamburugamuwa	266	1	17	284	0.33
	Kamburupitiya	0	1	0	1	0.09
	Matara		119	0	119	1.96
	New DGH Kamburugamuwa	0	0	0	0	0.00
Monaragala	Bibila	0	15	0	15	0.14
	Monaragala	71	86	8	165	1.30
	Wellawaya	0	65	0	65	2.77
Nuwara Eliya	Dikkoya	0	5	2	7	0.08
	Nuwara Eliya	0	2	4	6	0.07
	Rikillagaskada	1	17	0	18	1.82
Peradeniya	Gampola	4	58	20	82	2.67
	Nawalapitiya	14	1	14	29	0.05
	Peradeniya	41	27	73	141	0.27
Polonnaruwa	Dehiattakandiya	0	0	1	1	0.00
	Medirigiriya	0	0	4	4	0.00
	Polonnaruwa	92	0	19	111	0.00
Ratnapura	Balangoda	14	238	13	265	1.88
	Embilipitiya	8	29	11	48	0.84
	Kahawatta	0	11	9	20	0.71
	Ratnapura	92	53	10	155	1.03
Trincomalee	Kantale	0	0	0	0	0.00
	Kinniya	0	0	0	0	0.00
	Muththur	0	0	0	0	0.00
	Trincomalee	24	43	38	105	1.89
Vavuniya	Chettikulam	-	-	-	-	-
	Mannar	0	3	0	3	0.08
	Vavuniya	3	3	23	29	0.30
<b>Total</b>		<b>3313</b>	<b>3622</b>	<b>2043</b>	<b>8978</b>	<b>0.85</b>

**Table 13.1 : Statistics of RCC Discards 2022**

## 13.1 Analysis of RCC Discards Statistics



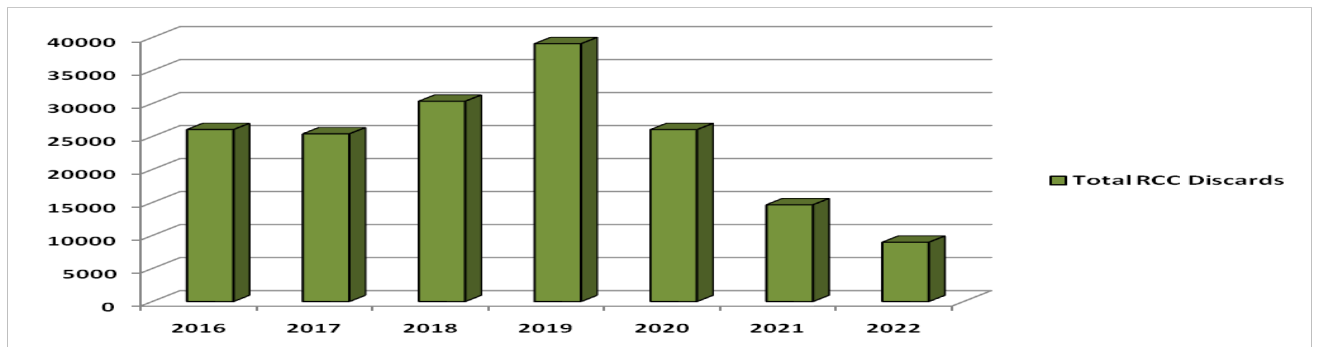
**Figure 13.1: Distribution of RCC Discards in Percentage—2022**



**Figure 13.2: Yearly Comparison of RCC Discards Distribution**

Year	Scr +ve	Past Expiry	Other	Total Discards	RCC Discard Rate
2016	3797	18545	3711	26052	4.53
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

**Table 13.2: Yearly Comparison of Total RCC Discards**

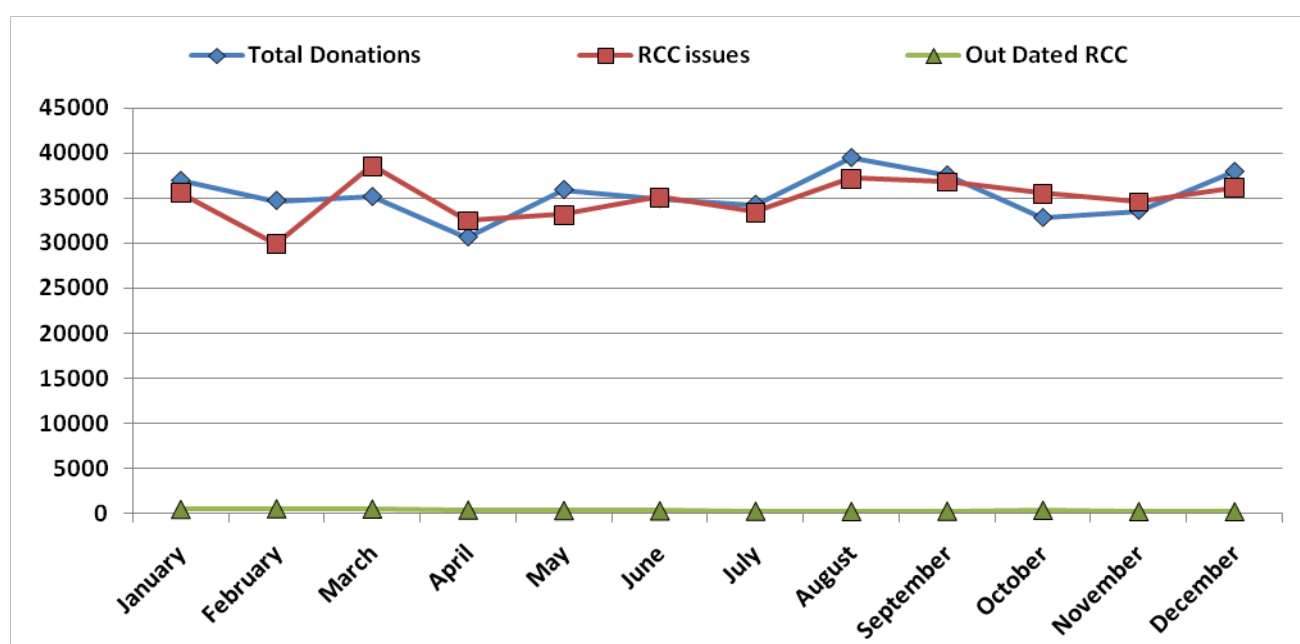


**Figure 13.3: Yearly Comparison of Total RCC Discards**

## 13.2 Analysis of Monthly Statistics of RCC

Period	Total Donations	RCC Issues	Out Dated RCC	RCC Discard Rate
January	36962	35613	415	1.13
February	34727	29947	489	1.58
March	35160	38587	462	1.16
April	30656	32540	351	1.05
May	35932	33193	291	0.86
June	34929	35131	261	0.73
July	34297	33475	229	0.67
August	39497	37207	203	0.54
September	37569	36819	233	0.62
October	32819	35544	338	0.93
November	33616	34597	181	0.52
December	37963	36181	169	0.46
<b>Total</b>	<b>424127</b>	<b>418834</b>	<b>3622</b>	<b>0.85</b>

**Table 13.3: Comparison of Monthly Statistics of RCC - 2022**



**Figure 13.4: Comparison of Monthly Statistics of RCC - 2022**

# 14 ANALYSIS OF MONTHLY STATISTICS OF PLATELETS

Period	Total PC Production	Total PC Issues	Out Dated PC	PED Discard Percentage
January	24495	14717	8482	34.6
February	20657	10888	7813	37.8
March	21552	13721	7131	33.1
April	18807	11352	6807	36.2
May	16339	10994	5988	36.6
June	17406	11073	4875	28.0
July	18323	11450	4844	26.4
August	16425	12950	5491	33.4
September	19069	13092	5268	27.6
October	18227	14053	4035	22.1
November	18896	13122	4647	24.6
December	20284	14097	5858	28.9
<b>Total</b>	<b>230480</b>	<b>151509</b>	<b>71239</b>	<b>30.9</b>

Table 14.1 Comparison of Monthly Statistics of PC—2022

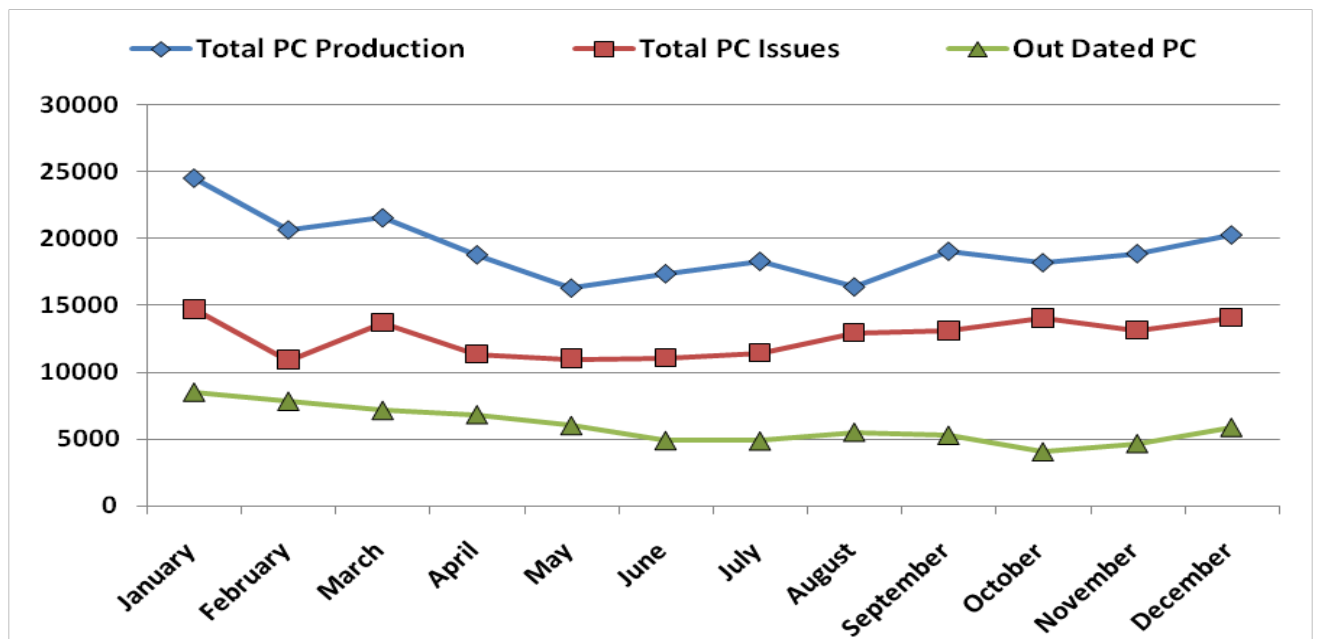


Figure 14.1: Comparison of Monthly Statistics of PC—2022

# 15 STATISTICS OF BLOOD GROUPING

Cluster	Blood Bank	Donor Grouping	Repeat Grouping	In ward	ANC	OPD/ Clinics	Pvt. Sect.	Other	Total
Ampara	Akkarepattu	327	1168	4765	1188	244	151	0	7843
	Ampara	12173	9333	13827	1604	625	0	2190	39752
	Kalmunai North	0	2665	2740	1039	183	0	0	6627
	Kalmunai South	0	2842	1729	1017	269	219	2231	8307
	Mahaoya	290	975	550	456	184	0	0	2455
	Pothuvil	33	611	492	363	93	0	0	1592
	Sammanthurai	89	390	1435	579	138	0	327	2958
Anuradhapura	Anuradhapura	29082	22795	27520	5572	1553	3735	539	90796
	Medawachchiya	-	-	-	-	-	-	-	-
	Padaviya	0	49	288	146	89	0	6	578
	Thambuttegama	0	1627	3730	302	43	0	0	5702
Badulla	Badulla	11458	15071	17494	1323	350	8	4068	49772
	Diyatalawa	1549	3176	4093	427	0	0	0	9245
	Mahiyanganaya	0	3232	6798	764	577	0	405	11776
	Welimada	238	4085	3474	32	215	0	0	8044
Batticaloa	Batticaloa	7460	624	16238	1687	407	0	833	27249
	Kalawanchikudi	0	0	214	272	85	0	0	571
	Kattankudy	0	239	711	164	114	0	0	1228
	Valachchenai	0	743	122	1383	2	119	865	3234
Chilaw	Chilaw	13247	5565	12806	2290	368	245	2572	37093
	Kalpitiya	-	-	-	-	-	-	-	-
	Marawila	223	3763	7811	588	161	349	0	12895
	Puttlam	426	7032	7986	2466	2068	217	1434	21629
CIM	Apeksha	20838	20487	17000	0	1083	1334	978	61720
	Awissawella	804	3152	6526	1576	199	47	0	12304
	Homagama	1808	524	4390	313	169	0	0	7204
CNTH	CNTH	19310	22770	32925	329	1886	48	271	77539
	Kiribathgoda	-	-	-	-	-	-	-	-
	Negambo	1667	2635	7552	1025	226	1581	0	14686
	Welisara	0	1181	2334	0	112	0	861	4488
Colombo	Accident Service	0	6722	16575	0	0	0	0	23297
	Army Hospital	0	1468	2732	280	124	0	460	5064
	CEBH-Mulleriyawa	0	1074	2033	103	65	0	58	3333
	CSHW	0	2941	18935	4668	0	0	0	26544
	CSTH	329	10085	22471	195	294	0	0	33374
	DMH	0	2684	7960	5642	0	0	9274	25560
	IDH-Angoda	0	1367	2242	0	30	0	814	4453
	KDU	0	1868	5386	305	34	707	0	8300
	LRH	0	4233	11474	0	5	0	918	16630
	NBC	7051	11116	2589		604	4832	0	26192
	NFTH	0	359	921	25	26	554	27	1912
	NHSL	0	20378	33707	0	212	0	0	54297
	NINDT-Maligawaththa	0	1141	1080	0	87	0	0	2308
SJGH	3267	2914	17869	2802	5416	20	0	32288	



## BLOOD GROUPING STATISTICS Cont...

Cluster	Blood Bank	Donor Grouping	Repeat Grouping	In ward	ANC	OPD/ Clinics	Pvt. Sect.	Other	Total
Gampaha	Gampaha	7489	8317	12191	378	314	18	0	28707
	Meerigama	125	986	877	77	77	0	0	2142
	Minuwangoda	2	624	440	1	5	0	145	1217
	Wathupitiwala	3778	3328	7597	27	165	122	0	15017
Hambantota	Hambantota	9829	10159	11448	697	222	55	589	32999
	Tangalle	239	2550	4941	404	140	431	70	8775
	Tissamaharama	0	1231	2685	641	27	0	540	5124
	Walasmulla	67	880	1772	416	32	0	245	3412
Jaffna	Jaffna	13264	11212	24679	7168	8	493	4716	61540
	Kilinochchi	0	1445	629	1096	215	0	333	3718
	Mulathiv	142	1499	736	1064	518	0	291	4250
	Point Pedro	0	1070	1977	1826	149	0	0	5022
	Tellippalai	1318	1828	137	626	84	0	79	4072
Kalutara	Horana	1687	2198	7655	1887	79	0	0	13506
	Kalutara	9866	7654	14105	5657	1205	28	1194	39709
	Kethumathie	1317	1581	3022	293	1971	55	0	8239
	Panadura	434	2312	3410	0	266	0	628	7050
Kandy	Dambulla	2784	744	8006	130	306	115	700	12785
	Kandy	17456	704	26147	2053	943	0	0	47303
	Matale	2974	123	9422	278	2074	280	1104	16255
	Theldeniya	0	1409	2364	38	114	0	33	3958
karapitiya	Balapitiya	1518	4036	4028	164	522	74	705	11047
	Elpitiya	1219	2066	4279	328	294	0	552	8738
	Karapitiya	11479	11478	19796	46	806	1877	0	45482
	Mahamadara	1068	2284	16221	2981	6	1357	0	23917
	Udugama	225	2011	1390	304	134	0	0	4064
Kegalle	Karawanella	0	2089	9594	980	59	0	0	12722
	Kegalle	7646	7959	8781	655	2880	146	318	28385
	Mawanella	1117	1408	3845	367	160	54	606	7557
	Warakapola	0	691	5788	196	0	0	552	7227

## BLOOD GROUPING STATISTICS Cont...

Cluster	Blood Bank	Donor Grouping	Repeat Grouping	In ward	ANC	OPD/ Clinics	Pvt. Sect.	Other	Total
Kurunegala	Dambadeniya	1429	628	49521	217	79	0	0	51874
	Galgamuwa	84	615	1482	25	141	0	0	2347
	Kuliyapitiya	516	1492	7441	836	362	178	66	10891
	Kurunegala	32754	359	45042	4854	575	11	3448	87043
	Nikaweratiya	211	859	6366	969	355	0	0	8760
Matara	Deniyaya	0	698	896	67	63	0	110	1834
	Kamburugamuwa	17298	0	0	100	0	0	0	17398
	Kamburupitiya	0	1653	2743	158	148	93	1002	5797
	Matara	2222	7678	12999	2947	437	888	3734	30905
	New DGH Kamburugamuwa	0	144	59	0	0	84	183	470
Monaragala	Bibila	0	1036	2376	353	136	0	0	3901
	Monaragala	7385	6500	7840	1922	887	1	1968	26503
	Wellawaya	6	448	42	911	168	0	0	1575
Nuwara Eliya	Dikkoya	76	1604	2359	183	71	20	0	4313
	Nuwara Eliya	5545	5545	11489	401	6209	0	0	29189
	Rikillagaskada	301	665	2462	329	106	0	0	3863
Peradeniya	Gampola	68	2287	6776	487	234	21	0	9873
	Nawalapitiya	306	1930	5290	159	168	33	442	8328
	Peradeniya	15217	12164	15014	1005	196	0	114	43710
Polonnaruwa	Dehiat-takandiya	358	834	1464	505	91	0	0	3252
	Medirigiriya	183	1224	1917	2	118	0	26	3470
	Polonnaruwa	10820	10999	11833	4104	382	174	0	38312
Ratnapura	Balangoda	0	4141	8165	1261	804	18	44	14433
	Embilipitiya	3012	3234	5318	1778	748	33	145	14268
	Kahawatta	6	2313	5151	117	141	54	1209	8991
	Ratnapura	17257	12516	21976	2309	298	24	3516	57896
Trincomalee	Kantale	0	578	878	17	139	27	178	1817
	Kinniya	0	0	1341	509	214	0	0	2064
	Muththur	0	0	101	454	103	0	0	658
	Trincomalee	4320	5185	6866	1424	230	168	0	18193
Vavuniya	Chettikulam								
	Mannar	256	97	516	1180	125	0	2936	5110
	Vavuniya	3666	3064	1572	2413	334	53	66	11168
<b>Total</b>		<b>352008</b>	<b>391450</b>	<b>816781</b>	<b>103699</b>	<b>46177</b>	<b>21151</b>	<b>61718</b>	<b>1792984</b>

**Table 15.1 : Statistics of Blood Grouping—2022**

## 16 STATISTICS OF SPECIAL PROCEDURES

Cluster	Blood Bank	Therapeutic Phlebotomy	Therapeutic Leukopheresis	Adult Red Cell Exchanges	TPE Cycles Automated	TPE Cycles Manual
Ampara	Akkarepattu	0	0	0	0	0
	Ampara	21	0	3	27	3
	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	Anuradhapura	0	1	2	210	4
	Medawachchiya	-	-	-	-	-
	Padaviya	0	0	0	0	0
	Thambuttegama	0	0	0	0	0
Badulla	Badulla	379	1	5	207	0
	Diyatalawa	0	0	0	0	0
	Mahiyanganaya	0	0	0	0	0
	Welimada	0	0	0	0	0
Batticaloa	Batticaloa	0	0	18	0	12
	Kalawanchikudi	0	0	0	0	0
	Kattankudy	0	0	0	0	0
	Valachchenai	0	0	0	0	0
Chilaw	Chilaw	0	0	0	0	2
	Kalpitiya	-	-	-	-	-
	Marawila	0	0	0	0	0
	Puttlam	0	0	0	0	0
CIM	Apeksha	0	0	0	0	0
	Awissawella	0	0	0	0	0
	Homagama	0	0	0	0	0
CNTH	CNTH	267	0	3	303	4
	Kiribathgoda	-	-	-	-	-
	Negambo	87	0	0	0	0
	Welisara	0	0	0	0	0
Colombo	Accident Service	0	0	0	0	0
	Army Hospital	3	0	0	22	0
	CEBH-Mulleriyawa	59	0	0	0	0
	CSHW	0	0	0	6	0
	CSTH	140	0	0	147	13
	DMH	0	0	0	0	0
	IDH-Angoda	35	0	0	0	0
	KDU	12	0	0	9	0
	LRH	0	0	0	512	0
	NBC	0	0	0	0	0
	NFTH	34	0	0	0	0
	NHSL	0	2	0	1073	113
	NINDT-Maligawaththa	25	0	0	71	12
SJGH	115	8	0	72	2	

## STATISTICS OF SPECIAL PROCEDURES Cont...

Cluster	Blood Bank	Therapeutic Phlebotomy	Therapeutic Leukopheresis	Adult Red Cell Exchanges	TPE Cycles Automated	TPE Cycles Manual
<b>Gampaha</b>	Gampaha	81	0	0	50	2
	Meerigama	0	0	0	0	0
	Minuwangoda	0	0	0	0	0
	Wathupitiwala	64	0	0	20	7
<b>Hambantota</b>	Hambantota	39	0	0	37	0
	Tangalle	0	0	0	0	0
	Tissamaharama	16	0	0	0	0
	Walasmulla	0	0	0	0	0
<b>Jaffna</b>	Jaffna	123	0	0	180	0
	Kilinochchi	1	0	0	0	0
	Mulathiv	0	0	0	0	0
	Point Pedro	0	0	0	0	0
	Tellippalai	0	0	0	0	0
<b>Kalutara</b>	Horana	30	0	0	0	10
	Kalutara	18	0	0	134	0
	Kethumathie	0	0	0	0	0
	Panadura	58	0	0	42	0
<b>Kandy</b>	Dambulla	0	0	0	0	0
	Kandy	0	1	0	526	0
	Matale	61	0	0	0	10
	Theldeniya	0	0	0	0	0
<b>Karapitiya</b>	Balapitiya	0	0	0	0	0
	Elpitiya	17	0	0	0	0
	Karapitiya	381	0	1	241	12
	Mahamodara	0	0	0	0	0
	Udugama	0	0	0	0	0
<b>Kegalle</b>	Karawanella	0	0	0	0	0
	Kegalle	21	0	0	13	28
	Mawanella	0	0	0	0	0
	Warakapola	0	0	0	0	0

## STATISTICS OF SPECIAL PROCEDURES Cont...

Cluster	Blood Bank	Therapeutic Phlebotomy	Therapeutic Leukophoresis	Adult Red Cell Exchanges	TPE Cycles Automated	TPE Cycles Manual
Kurunegala	Dambadeniya	0	0	0	0	0
	Galgamuwa	0	0	0	0	0
	Kuliyapitiya	0	0	0	0	0
	Kurunegala	154	16	0	134	0
	Nikaweratiya	0	0	0	0	0
Matara	Deniyaya	0	0	0	0	0
	Kamburugamuwa	0	0	0	0	0
	Kamburupitiya	26	0	0	0	0
	Matara	189	0	0	98	0
	New DGH Kamburugamuwa	0	0	0	0	0
Monaragala	Bibila	0	0	0	0	0
	Monaragala	109	0	2	3	10
	Wellawaya	10	0	0	0	0
Nuwara Eliya	Dikkoya	0	0	0	0	0
	Nuwara Eliya	192	0	0	14	4
	Rikillagaskada	0	0	0	0	0
Peradeniya	Gampola	0	0	0	0	0
	Nawalapitiya	0	0	0	0	0
	Peradeniya	0	0	0	193	0
Polonnaruwa	Dehiattakandiya	0	0	0	0	0
	Medirigiriya	0	0	0	0	0
	Polonnaruwa	130	0	10	105	24
Ratnapura	Balangoda	0	0	0	0	0
	Embilipitiya	0	0	0	0	0
	Kahawatta	0	0	0	0	0
	Ratnapura	93	0	4	147	3
Trincomalee	Kantale	0	0	0	0	0
	Kinniya	0	0	0	0	0
	Muththur	0	0	0	0	0
	Trincomalee	0	0	0	0	0
Vavuniya	Chettikulam	-	-	-	-	-
	Mannar	0	0	0	0	0
	Vavniya	0	0	0	0	0
<b>Total</b>		<b>2990</b>	<b>29</b>	<b>48</b>	<b>4596</b>	<b>275</b>

**Table 16.1 : Statistics of Special Procedures 2022**

## 17 STATISTICS OF STAFF AVAILABILITY

Cluster	Blood Bank	CTP	MO	NS	NO	MLT	PHLT	PHI	Lab/O	Junior staff
Ampara	Akkarepattu	0	2	0	4	0	0	0	0	0
	Ampara	1	7	1	8	2	1	2	0	7
	Kalmunai North	0	3	0	5	0	0	0	0	3
	Kalmunai South	0	0	0	4	0	0	0	0	0
	Mahaoya	0	2	0	5	0	0	0	0	1
	Pothuvil	0	3	0	5	0	0	0	0	1
	Sammanthurai	0	2	0	3	0	0	0	0	0
Anuradhapura	Anuradhapura	2	11	1	16	4	1	3	0	8
	Medawachchiya									
	Padaviya	0	2	0	3	0	0	0	0	2
	Thambuttegama	0	4	0	4	0	0	0	0	1
Badulla	Badulla	1	8	1	12	2	0	3	2	11
	Diyatalawa	0	5	0	4	0	0	0	0	4
	Mahiyanganaya	0	3	1	4	0	0	0	0	3
	Welimada	0	4	0	3	0	0	0	0	1
Batticaloa	Batticaloa	1	7	0	11	2	0	1	0	5
	Kalawanchikudi	0	1	0	2	0	0	0	0	1
	Kattankudy	0	1	0	2	0	0	0	0	1
	Valachchenai	0	1	0	2	0	0	0	0	1
Chilaw	Chilaw	2	5	1	7	2	0	1	0	2
	Kalpitiya									
	Marawila	0	7	0	5	0	0	0	0	1
	Puttlam	0	4	0	6	0	0	0	0	4
CIM	Apeksha	1	12	1	18	4	0	1	2	12
	Awissawella	0	5	0	9	0	0	0	0	2
	Homagama	0	5	0	6	0	0	0	1	0
CNTH	CNTH	1	12	1	16	4	1	1	1	8
	Kiribathgoda									
	Negambo	1	7	0	6	0	0	1	0	3
	Welisara	0	2	0	5	0	0	0	0	1
Colombo	Accident Service	0	8	0	8	0	0	0	0	4
	Army Hospital	0	3	0	7	1	0	0	0	3
	CEBH-Mulleriyawa	0	7	0	3	0	0	0	0	0
	CSHW	1	8	0	6	0	0	0	0	3
	CSTH	1	8	1	8	0	0	0	0	4
	DMH	0	7	0	6	0	0	0	0	3
	IDH-Angoda	0	4	0	4	0	0	0	0	0
	KDU	1	2	0	7	1	0	0	0	3
	LRH	1	9	0	9	0	0	0	0	5
	NBC	4	46	1	36	34	4	10	7	48
	NFTH	1	1	0	3	0	0	0	0	1
	NHSL	1	17	1	14	0	0	0	0	8
	NINDT-Maligawaththa	1	2	0	5	0	0	0	0	2
SJGH	1	8	1	6	3	0	0	0	4	

## STATISTICS OF STAFF AVAILABILITY Cont...

Cluster	Blood Bank	CTP	MO	NS	NO	MLT	PHLT	PHI	Lab/O	Junior staff
Gampaha	Gampaha	1	8	0	9	1	0	0	0	3
	Meerigama	0	3	0	4	0	0	0	0	1
	Minuwangoda	0	3	0	6	0	0	0	0	0
	Wathupitiwala	0	8	0	8	1	0	0	0	4
Hambantota	Hambantota	1	5	1	11	2	0	1	0	5
	Tangalle	0	0	0	7	0	0	0	0	6
	Tissamaharama	0	4	4	0	0	0	0	0	0
	Walasmulla	0	3	0	5	0	0	0	0	3
Jaffna	Jaffna	1	7	1	7	2	0	1	0	6
	Kilinochchi	1	4	0	3	0	0	0	0	4
	Mulathiv	0	2	1	2	0	0	0	0	4
	Point Pedro	0	3	0	4	0	0	0	0	1
	Tellippalai	0	2	4	0	0	0	0	0	2
Kalutara	Horana	0	6	0	6	0	0	0	0	1
	Kalutara	1	8	1	12	2	1	1	0	9
	Kethumathie	0	8	0	6	0	0	0	0	1
	Panadura	0	6	0	6	0	0	0	0	1
Kandy	Dambulla	0	6	0	6	0	0	0	0	3
	Kandy	1	10	1	17	5	1	3	1	0
	Matale	1	6	0	8	1	0	0	0	3
	Theldeniya	0	2	0	4	0	0	0	0	0
Karapitiya	Balapitiya	0	5	0	7	0	0	0	0	3
	Elpitiya	0	3	0	7	0	0	0	0	3
	Karapitiya	0	11	1	17	2	1	2	1	6
	Mahamodara	0	8	0	8	0	0	0	0	4
	Udugama	0	3	0	4	0	0	0	0	3
Kegalle	Karawanella	0	2	0	6	0	0	0	0	2
	Kegalle	0	7	0	13	2	0	0	0	4
	Mawanella	0	7	0	8	0	0	0	0	4
	Warakapola	0	4	0	4	0	0	0	0	2

## STATISTICS OF STAFF AVAILABILITY Cont...

Cluster	Blood Bank	CTP	MO	NS	NO	MLT	PHLT	PHI	Lab/O	Junior staff
Kurunegala	Dambadeniya	0	6	0	5	0	0	0	0	0
	Galgamuwa	0	2	0	2	0	0	0	0	0
	Kuliyapitiya	0	5	0	10	0	0	0	0	0
	Kurunegala	2	13	1	19	7	2	3	0	10
	Nikaweratiya	0	4	0	6	0	0	0	0	4
Matara	Deniyaya	0	3	0	3	0	0	0	0	1
	Kamburugamuwa	1	4	1	12	4	2	2	2	8
	Kamburupitiya	0	6	0	5	0	0	0	0	3
	Matara	1	9	0	10	1	0	0	0	5
	New DGH Kamburugamuwa	0	3	0	5	0	0	0	0	4
Monaragala	Bibila	0	1	0	4	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	Dikkoya	0	3	0	3	0	0	0	0	0
	Nuwara Eliya	1	5	0	6	1	0	0	0	5
	Rikillagaskada	0	2	0	3	0	0	0	0	1
Peradeniya	Gampola	0	4	1	7	0	0	0	0	1
	Nawalapitiya	0	4	0	5	0	0	0	0	3
	Peradeniya	1	7	1	13	2	0	2	2	6
Polonnaruwa	Dehiattakandiya	0	2	4	0	0	0	0	0	4
	Medirigiriya	0	2	0	3	0	0	0	0	3
	Polonnaruwa	0	6	0	9	2	0	1	0	11
Ratnapura	Balangoda	0	5	0	8	0	0	0	0	4
	Embilipitiya	0	4	0	6	0	0	0	0	7
	Kahawatta	0	3	0	6	0	0	0	4	0
	Ratnapura	1	7	0	13	3	0	1	2	7
Trincomalee	Kantale	0	2	0	3	0	0	0	0	1
	Kinniya	0	2	0	4	0	0	0	0	1
	Muththur	0	3	0	3	0	0	0	1	0
	Trincomalee	1	7	0	8	2	0	1	0	3
Vavuniya	Chettikulam									
	Mannar	1	3	0	3	0	0	0	0	4
	Vavuniya	1	4	1	4	1	1	0	0	0
<b>Total</b>		<b>40</b>	<b>547</b>	<b>34</b>	<b>699</b>	<b>101</b>	<b>16</b>	<b>42</b>	<b>26</b>	<b>364</b>

**Table 17.1 : Statistics of Staff Availability 2022**



## 18 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	960
Renal - Donor	740
BMT - Patient	96
BMT - Donor	228
AP Donors	-
Platelet Refractoriness Patients	21
Cadaveric Donor (NBC + Kandy)	48
B57 / B51/ B27	516
Luminex PRA and Antibody Identification	No. of Tests
Renal	1385
Platelet Refractoriness Patients	04
Others	31

(PRA - Panel Reactive Antibodies)

**Table 18.1 : HLA Molecular Typing and PRA 2022 (At NBC)**

By CDC Method	No. of tests
Class I Typing by CDC	36
B27	169
B57	21
B51	23
B15 / Others	-
Cadaveric Compatibility Tests	228
Total Compatibility Tests (with cadaveric)	928

**Table 18.2 : HLA Serology Typing and Compatibility Testing 2022 (At NBC)**

Typing and Cross Matches	2022
Cross Match	224
PRA (Class 1, Class 11)	83
Single Antigen Bead Assay	42
Transplantation	
Kidney (Patients, Donors)	784
Bone Marrow (Patients, Donors)	19
AP Donor	-
Cadaveric Donor	17
Cadaveric Donor Q-PCR	-

**Table 18.3 : HLA Laboratory Statistics 2022 (At Blood Bank—National Hospital Kandy)**

## 19 STATISTICS OF IMMUNE-HAEMATOLOGY REFERENCE LABORATORY

Category	2018	2019	2020	2021	2022
ABO/Rh group confirmation	411	350	292	266	295
Antibody Titers for ANC follow up	399	384	405	684	876
Antibody Identification	3356	4034	2792	3504	2216
Antibody Screening	4525	6064	4692	4952	3345
Blood Grouping (ABO & Rh D)	5755	7353	5817	6086	4263
Cold Haemagglutinin test	48	54	50	31	33
Confirmation of Bombay O	14	7	15	7	2
Cross match	2127	2082	1203	1702	1111
DAT	4384	5894	5522	6083	4228
DAT Profile	1027	1323	1012	1060	794
Difficult compatibility	3702	3142	409	457	351
Donath Landsteiner test (DL test)	25	13	10	5	13
Elution studies	82	57	87	65	53
Enzyme Panel	82	69	19	15	8
Extended phenotype	395	362	420	453	321
Haemolysin test Anti A/B IgG titer	132	178	98	95	54
Iso Haemagglutinin test Anti A/B IgM titer	102	72	14	44	17
Rh Phenotyping	5270	4969	1985	7287	2440
Transfusion Reaction	48	67	40	39	27

**Table 19.1 : Yearly Comparison of Immune-Haematology Reference Laboratory Statistics**

## 20 STATISTICS OF REAGENT LABORATORY

Reagents Prepared	2022
Alserver's Solution	385 L
Normal Saline	335 L
CuSO <sub>4</sub>	1116 L
Screening Cells Sets	6741
ABO Cells Sets	4903
Anti H (Vials)	370
Anti A <sub>1</sub> (Vials)	572
Anti A (Vials)	2743
Anti B (Vials)	3548
Lewis Panel	480
Antibody Identification Panel	140

**Table 20.1 : Statistics on Reagent Preparation—2022**

Reagents Prepared	2018	2019	2020	2021	2022
Alserver's Solution (L)	328	332	317	378	385
Anti H	990	669	558	236	370
Anti A <sub>1</sub>	1281	1734	1374	573	572
Lewis Panel	-	-	200	150	480

**Table 20.2 : Yearly Comparison of Statistics on Reagent Preparation  
(on Selected Components)**

## 21 STATISTICS OF QUALITY MANAGEMENT UNIT

Component	Number
RCC – without AS	365
RCC- BCR-AS	348
Platelets - PRPD	308
Platelets - BCD	329
Platelets -AP	46
FFP	81
Cryoprecipitate	5

**Table 21.1 : Statistics on Quality Monitoring of Blood Components and Reagents—2022**

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

**Table 21.2 : Statistics on Quality Control Laboratory Performance—2022**

	Component/Reagent	No of Incidents
Component Quality related incidents	RCC	35
	Platelet(RDP)	5
	Platelets (Apheresis)	5
	Visual checking of platelets	11447
	Cryo precipitate	1
	Whole Blood	2
Consumables Quality related incidents	Anti sera	1
	Reagent red cells	3
Procedural quality related incidents	Blood grouping error	1
	Post donation care	1
	Post donation call up	1

**Table 21.3: Statistics on Investigations of Quality Related Incidents—2022**

Special Study Type	No. of Units
Descriptive prospective study on validating the new component separator LMB machine.	38
Validation of Triple SAG-M blood bags.	60
Evaluation of volume deviated platelet components	42
Descriptive, prospective study on quality of EDTA and clotted samples stored at different temperature for blood group serology testing	71

**Table 21.4: Statistics on Special Studies—2022**

Evaluation done	Number of products evaluated
Anti D	3
Anti A	6
Anti B	8
Anti AB	2
AHG poly	2
LISS	1
Anti E	1
Anti M	1
Copper Sulphate	3
Khan tubes	15
Test tubes EDTA 2.5 ml	1
Glass slides	1
Quadruple blood bags	2
Quintuple blood bags	1
Wash bottles	2
Disposable graduated transfer pipettes	1

**Table 21.5: Statistics on Evaluations Done—2022**

Program	No. Of cycles	No. of test kits prepared
NEQAS Blood Group Serology	1	110
NEQAS TTI	0	0

**Table 21.6: Statistics on SL-NEQAS Programmes Conducted—2022**

## QUALITY MANAGEMENT UNIT Cont...

Component	No of Units
RCC	09
Platelet	11
FFP	0
Cryo	08

**Table 21.7: Statistics on Special Quality Monitoring Tests (HBB Referrals) - 2022**

Type of test	No. of Tests
Full Blood Count	3915
PH	1434
Blood Culture	0
% Haemolysis	507
DAT	37
Antibody Screening	74
Microscopy testing for Agglutinations	108
Factor VIII Assay	78
Fibrinogen Assay	89
Evaluations	15

**Table 21.8: Summary of Tests—2022**

## 22 STATISTICS OF EDUCATION, TRAINING AND RESEARCH UNIT

	Staff Category	Number of Trainees
1	<b>Medical Officers (Total)</b>	<b>116</b>
	4 Weeks	106
	6 Weeks	10
2	<b>Nursing Officers (Total)</b>	<b>103</b>
	6 Weeks + NBTSIS	56
3	Medical Laboratory Technologists	12
4	Public Health Inspectors	08
5	Junior Staff Members & Other Categories	27

**Table 22.1: Statistics on the Training Programmes Conducted for NBTS Staff—2022**

	Staff Category	Number of Trainees
1	Nephrology MD Trainees	4
2	Haematology Diploma Trainees	10
3	Microbiology MD Trainees	10
4	Medical Students University of Colombo	426
5	<b>MLT Students</b>	
	MLT Students	240
	MLS Interns	82
	MLS Undergraduates	40
	MLS Students (KDU etc)	31
6	PHI Students	35
7	Navy Health Assistants	30

**Table 22.2: Statistics on the Training Programmes for Other Staff Categories—2022**

	Topic	Participants	Number
1	Safe Blood Practices in Transfusion Service	Medical Officers	111
		Nursing Officers	97
		Junior Staff	68
		Nursing Sisters	24

**Table 22.3: Statistics on the CME Programmes—2022**

## 23 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.

	2017	2018	2019	2020	2021	2022
Number of Patients	22	27	25	28	46	46
Cryopreservation Procedures	29	33	26	30	40	47
Infusion Procedures	18	28	24	23	53	43

**Table 23.1: Yearly Comparison of the Statistics on Stem Cell Transplantation**



## 24 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 De-glycerolized	No of Red Cell Units Trans-fused
Bombay O Rh Positive	4	3	-
Bombay O Rh Negative	2	-	1
A Rh Positive	1	1	-
A Rh negative	-	-	-
B Rh Positive	1	-	-
B Rh Negative	-	-	-
AB Rh Positive	-	-	-
AB Rh Negative	-	-	-
O Rh Positive	4	1	1
O Rh Negative	-	-	-
<b>Total</b>	<b>12</b>	<b>5</b>	<b>4</b>

**Table 24.1: Statistics of Frozen Red Cell Procedures - 2022**

Blood Group	No. of Red Cell Units Frozen	No. of Red Cell Units Deglycerolized
O Rh Positive	11	3
O Rh Negative	10	2
<b>Total</b>	<b>21</b>	<b>5</b>

**Table 24.2: Statistics of Frozen Red Cell Procedures for Reagent Cells - 2022**

## **25 REFERENCES**

1. <https://emedicine.medscape.com>
2. <https://www.ncbi.nlm.nih.gov>
3. Previous Annual Statistics Reports up to 2021—National Blood Transfusion Service of Sri Lanka



# Statistics Unit

## National Blood Transfusion Service