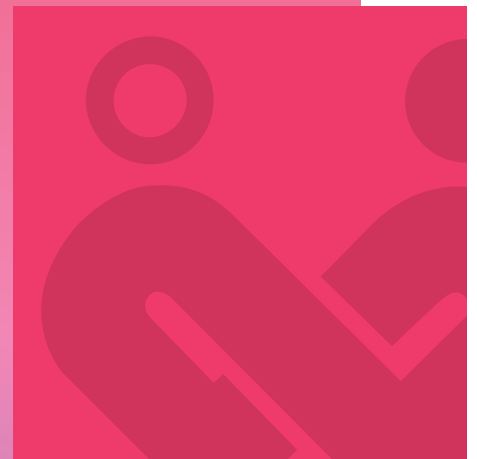


醫藥財團法人

台灣血液基金會  
Taiwan Blood Services Foundation

# 2015 Annual Report





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## Chairman's Message



Another year has passed quickly! The entire staffs of the foundation and every blood center had been working hard during this year. I would like to appreciate all our blood donors and hope all satisfy the efforts that we made.

Considering to improve our blood donor services, we focused and paid more attention on donors' healthcare. During the year 2015, we had offered three extra tests—Cholesterol, LDL-C, and an HbA1c — for frequent donors who are over the age 40 triennially. We also add BMI data to test reports to help donors manage self-health and prevent various chronic diseases caused by obesity and metabolic syndrome. To offer a comfortable environment for our donors, some small donation sites were moved to spacious locations. We also continuously upgrade the facilities and hope our donors have pleasant experiences.

The blood recipients can truly benefit from blood transfusion only when supervision of blood usage, blood quality, and blood safety adheres to the highest standards. For this reason, we have proactively cooperated with Taiwan Society of Blood Transfusion to establish a national haemovigilance program. And since 1<sup>st</sup> July 2015, we have also introduced and carried out two new strategies, male plasmas were predominantly provided for transfusion

usage and implement leukocyte antibody screening for female apheresis platelet donors, to reduce the risk of transfusion related acute lung injury. By doing these, we aim to meet the highest level of blood safety and quality control.

Unfortunately, there were many disasters including air-craft accidents, dust explosion, and the outbreak of dengue fever happening in south Taiwan in 2015. After a calamity, we had immediately integrated the blood inventory of six blood centers, increased blood collection, allocated blood products to meet the medical needs and transport blood to anywhere in need. Donors and we provide our full support and hope all of the patients will soon recover.

Encouraging young people to develop the habit of donating blood regularly is a key task that the foundation is working on. In the current situation where Taiwan is transforming into an aging society with fewer children, the available sources of blood will decrease if young people stop giving blood. To date, there are no blood substitutes for medical use. We intend to supply sufficient blood for medical purpose by particularly promoting a “Young Blood” recruitment program to invite young people to enthusiastically respond to the activity of blood donation and become a happy blood donor.

We have more plans for the future including information system upgrade and overall automation in two years, which is going to reduce manual labor of our frontline staffs and avoid errors by automatizing and standardizing the operation procedure. We in this digital age expect to provide faster and more efficient web-based services.

The mission of Taiwan Blood Services Foundation is not just to maintain a balance between blood donations and blood demands, but also provide the safest and highest-quality blood. Moreover, we also aim to take care of the health of our precious donors since only healthy donors can give safe blood. Considering social responsibility and improving medical and health care system, continuous innovation, research and development are our goals for the future. At the beginning of a new year, I expect that we will further integrate with the world and keep abreast with more advanced countries.

*Ching-Chuan Yeh*

## Brief History

Prior to 1974, almost all blood for transfusion in Taiwan was supplied by paid donation. This practice was considered uncivilized and was also negative to the national image. It was also unsafe and could transmit diseases. Subsequently, a number of public-spirited organizations, societies, schools, business enterprises and factories, under the leadership of Mr. Pei-Huo Tsai, joined together to start a movement to promote voluntary blood donation by appealing to the goodwill of the society and to help patients in need of blood. The Chinese Blood Donation Association (CBDA) was thus founded on April 19, 1974. Taiwan then entered the age of non-remunerated blood donation services. The CBDA set up four blood centers in Taipei, Taichung, Kaohsiung and Tainan to actively promote blood donation from 1974 to 1981.

To coordinate with the national health policies, and to improve the voluntary blood supply system, the CBDA financially supported the establishment of the Blood Transfusion Services Foundation of the Republic of China on 1<sup>st</sup> January, 1990. In 1991 and 1992, two more blood centers in Hualien and Hsinchu were set up. All six blood centers in Taiwan

were then placed under the Foundation. Also in 1991, the blood donation rate was 5.18% of Taiwan population, which firstly exceeded the internationally accepted rate of 5% in developed countries.

Upon the approval of the Ministry of Health and Welfare (the former Department of Health), the Foundation was renamed the Chinese Blood Services Foundation (CBSF) on 1<sup>st</sup> July, 1992. For more efficient operation and quality results, the testing laboratory was centralized in Taipei and Kaohsiung blood centers and are in charge of the screening tests of all blood products in 2001.

In response to international trends, the Foundation was renamed the Taiwan Blood Services Foundation (TBSF) in 2004. The CBDA supports and supplements the activities of the TBSF by coordinating its members through liaison offices set up in the blood centers. Its monthly publication, “the Warm Blood”, is widely circulated and serves as an important tool for the promotion of blood donation.

In accordance with regulations of the Civil Law and the Medical Care Act, the non-profit corporate



medical institutions TBSF was set up by the CBDA to supply more than 99% of blood for transfusion in the country, 781 hospitals. The competent authority is the Ministry of Health and Welfare. Under the leadership of the government, with the support from the society and the effort of our staffs, TBSF has reach current stage. We shall supply safe blood for transfusion, and provide best services to donors and recipients. We'll achieve our goals: happy blood donation and safe blood use.

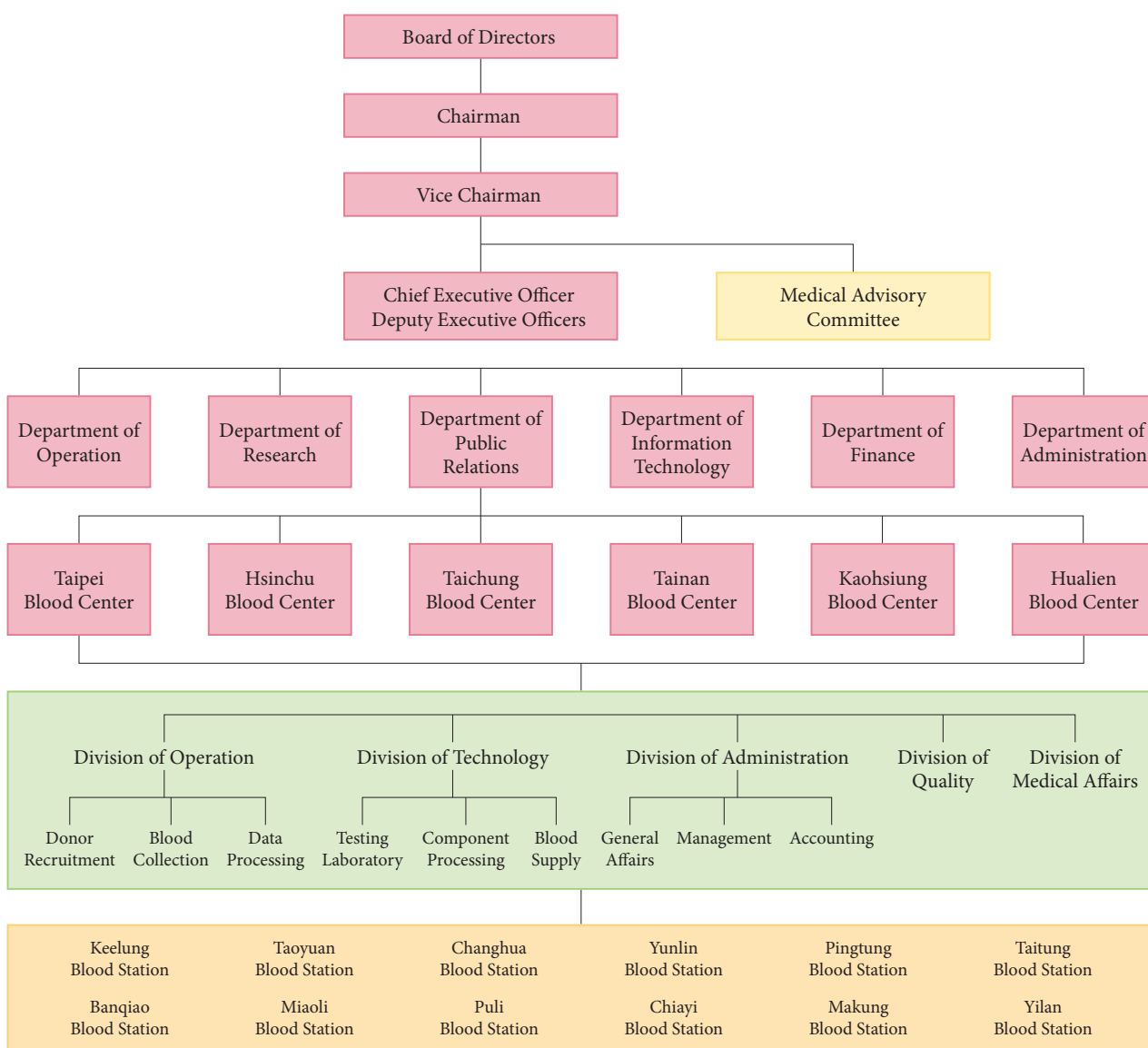
## Goals and Missions

The Foundation is to establish a non-remunerated blood donation and supply system, to conduct donation and supply of blood, to improve the quality of blood for medical use, to protect the rights of patients, and to enhance the health of the citizens. Specifically, the missions of the Foundation are:

1. To plan and implement blood donation services;
2. To establish blood donation systems, and to conduct research and development on safe blood use;
3. To conduct research on blood science and technology;
4. To collect, laboratory-test, and supply blood for patients of public and private hospitals;
5. To conduct research on the health maintenance of blood donors;
6. To conduct matters concerning the use and safety management of blood suitable for transfusion;
7. To plan and supply blood in large quantity at times of major disasters or wars;
8. To commission toll fractionation, to storage and supply domestic plasma derived products;
9. Other matters concerning blood donation and supply.



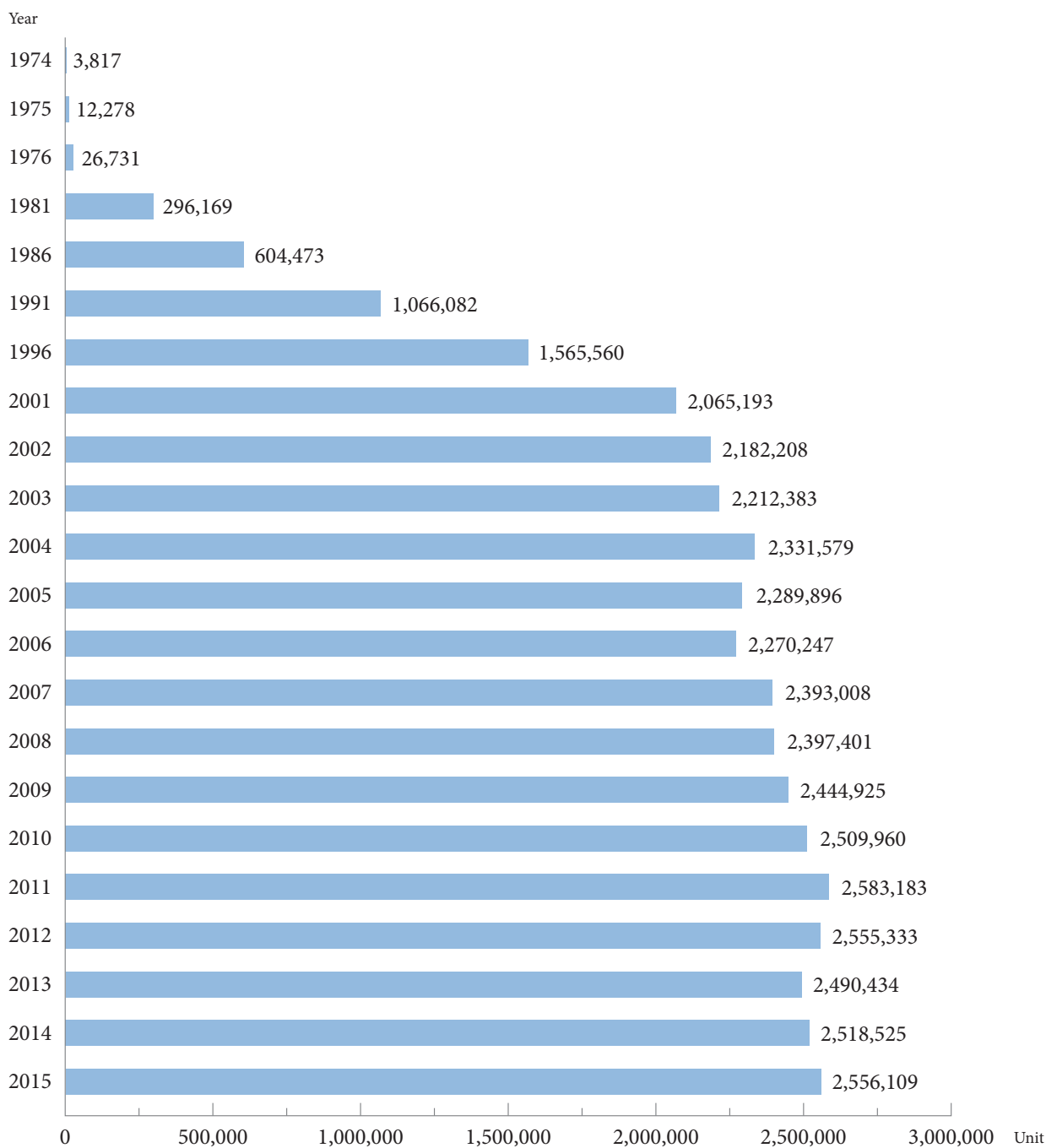
# Organization





# Statistics

## Annual Blood Collection



**Note:**

1. Total blood collection units: calculated by both whole blood and apheresis collection.
2. Whole blood: 250ml/1 unit; 500ml/2 units.
3. Apheresis platelet: 200-300ml/1 unit (equivalent to 12 units of platelet concentrate).

## Annual Blood Collection by Blood Centers

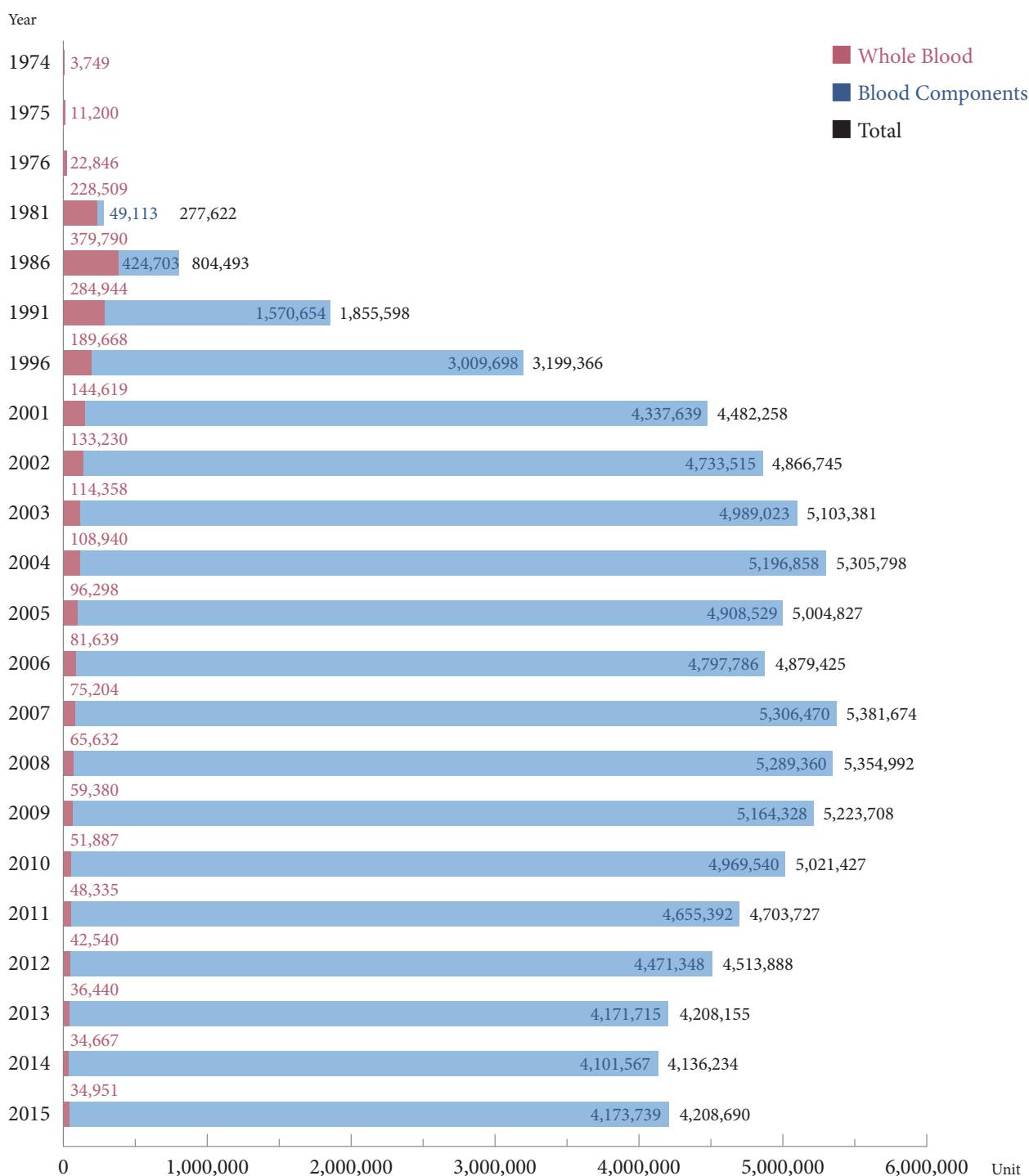
Unit

Blood Centers Year	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
1974	3,817						3,817
1975	11,734		544				12,278
1976	22,976		3,539		216		26,731
1981	141,944		58,861	22,535	72,829		296,169
1986	244,830		157,679	75,742	126,222		604,473
1991	421,109		252,561	156,192	205,905	30,315	1,066,082
1996	459,619	220,519	303,393	209,790	295,052	77,187	1,565,560
2001	579,618	294,690	425,953	285,551	381,998	97,383	2,065,193
2002	624,408	307,553	439,269	301,756	406,502	102,720	2,182,208
2003	618,458	313,214	462,180	305,455	411,132	101,944	2,212,383
2004	642,945	333,898	489,079	321,441	437,362	106,854	2,331,579
2005	650,850	320,732	463,553	322,630	429,914	102,217	2,289,896
2006	659,268	322,197	453,015	326,286	403,243	106,238	2,270,247
2007	694,060	338,614	488,984	348,662	413,210	109,478	2,393,008
2008	684,968	342,069	491,754	358,126	413,348	107,136	2,397,401
2009	718,841	326,619	487,230	382,251	420,616	109,368	2,444,925
2010	738,274	343,531	500,298	389,938	423,333	114,586	2,509,960
2011	753,611	347,807	507,104	405,553	453,274	115,834	2,583,183
2012	752,304	343,225	504,362	405,409	434,767	115,266	2,555,333
2013	737,642	336,853	487,170	401,442	414,876	112,451	2,490,434
2014	743,926	337,408	485,767	409,314	431,181	110,929	2,518,525
2015	744,106	355,943	498,956	418,909	423,721	114,474	2,556,109

**Note:**

1. Total blood collection units: calculated by both whole blood and apheresis collection.
2. Whole blood: 250ml/1 unit; 500ml/2 units.
3. Apheresis platelet: 200-300ml/1 unit (equivalent to 12 units of platelet concentrate).

## Annual Blood Supply



**Note:**

1. Whole blood: 250ml/1 unit; 500ml/2 units.
2. Blood component issued: total number of blood issued except whole blood.
3. The numbers of blood supply are for transfusion only, plasma for fractionation is not included.

## Blood Components Supply

Unit

Blood		Blood Centers						
		Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
RBCs	Packed RBCs	582,141	285,936	365,249	344,272	353,521	89,457	2,020,576
	Washed RBCs	10,089	2,626	3,402	3,461	4,403	532	24,513
	Leukocyte-Reduced RBCs	37,197	16,850	71,903	14,476	10,724	7,682	158,832
	Frozen Thawed Deglycerolized RBCs	0	0	2	0	0	0	2
	Subtotal	629,427	305,412	440,556	362,209	368,648	97,671	2,203,923
WBCs	WBC Concentrate	3,750	74	142	12	0	42	4,020
Platelets	Platelet Concentrate	65,088	60,614	71,828	56,192	518	126	254,366
	Apheresis Platelets	55,265	20,803	23,285	29,997	25,452	5,749	160,551
	Leukocyte-Reduced Apheresis Platelets	30,032	6,982	14,910	6,854	17,545	2,623	78,946
Plasma	Fresh Frozen Plasma	269,481	168,591	189,882	178,756	180,185	38,707	1,025,602
	Frozen Plasma	41,225	39,870	30,121	43,210	59,135	18,738	232,299
	Cryoprecipitate	85,266	24,478	33,504	42,534	18,080	10,170	214,032
Total		1,179,534	626,824	804,228	719,764	669,563	173,826	4,173,739
Whole Blood		12,939	7,105	4,708	7,088	1,592	1,519	34,951
Total Units Issued		1,192,473	633,929	808,936	726,852	671,155	175,345	4,208,690
Rate of Components		98.91%	98.88%	99.42%	99.02%	99.76%	99.13%	99.17%

**Note:**

1. Whole blood: 250ml/1 unit; 500ml/2 units.
2. Blood component issued: total number of blood issued except whole blood.
3. The numbers of blood supply are for transfusion only, plasma for fractionation is not included.

## Monthly Blood Collection

Unit

Blood Centers Month	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
Jan.	65,457	31,597	42,910	33,577	39,545	9,604	222,690
Feb.	62,226	30,062	39,696	34,382	30,034	9,820	206,220
Mar.	61,651	28,031	41,717	39,685	38,090	10,216	219,390
Apr.	58,789	28,705	38,363	30,881	34,008	8,692	199,438
May	64,773	29,513	40,845	33,387	34,439	10,196	213,153
Jun.	63,991	30,244	44,041	35,739	36,021	9,755	219,791
Jul.	64,474	32,277	41,523	35,161	33,913	9,311	216,659
Aug.	60,828	28,156	42,056	32,998	34,463	10,200	208,701
Sept.	56,893	26,855	39,933	33,451	36,983	8,832	202,947
Oct.	61,986	32,691	44,142	37,567	36,019	10,058	222,463
Nov.	62,096	29,384	41,657	38,493	33,990	9,122	214,742
Dec.	60,942	28,428	42,073	33,588	36,216	8,668	209,915
Total	744,106	355,943	498,956	418,909	423,721	114,474	2,556,109

**Note:**

1. Total blood collection units: calculated by both whole blood and apheresis collection.
2. Whole blood: 250ml/1 unit; 500ml/2 units.
3. Apheresis platelet: 200-300ml/1 unit (equivalent to 12 units of platelet concentrate).

## Whole Blood Collection per 1,000 Population

Year	Blood Centers	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
	Item							
2011	Blood Collection (Liter)	168,680	81,785	120,913	93,291	102,674	27,168	594,511
	Population	7,054,442	3,498,987	4,484,098	3,400,813	3,737,885	1,026,326	23,202,551
	Liter/1,000 population	23.91	23.37	26.96	27.43	27.47	26.47	25.62
2012	Blood Collection (Liter)	167,283	80,345	118,749	92,669	98,441	25,880	583,367
	Population	7,086,152	3,525,575	4,496,195	3,397,242	3,734,579	1,021,830	23,261,573
	Liter/1,000 population	23.61	22.79	26.41	27.28	26.36	25.33	25.08
2013	Blood Collection (Liter)	163,347	78,323	113,190	91,759	93,637	25,359	565,613
	Population	7,131,766	3,555,325	4,510,598	3,394,334	3,733,713	1,018,477	23,344,213
	Liter/1,000 population	22.90	22.03	25.09	27.03	25.08	24.90	24.23
2014	Blood Collection (Liter)	164,463	78,068	112,667	93,876	97,458	25,009	571,541
	Population	7,160,559	3,579,347	4,517,652	3,388,101	3,728,935	1,017,442	23,392,036
	Liter/1,000 population	22.97	21.81	24.94	27.71	26.14	24.58	24.43
2015	Blood Collection (Liter)	164,554	81,996	114,808	95,724	95,492	25,681	578,254
	Population	7,187,196	3,623,818	4,532,292	3,379,761	3,724,569	1,013,926	23,461,562
	Liter/1,000 population	22.90	22.63	25.33	28.32	25.64	25.33	24.65

Note: Mid-year population, data from the ministry of interior.



## Blood Donation and Donation Rate by Blood Centers

Year	Blood Centers	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
	Item							
2011	Blood Donation	534,349	254,731	377,883	303,895	329,804	85,445	1,886,107
	Population	7,054,442	3,498,987	4,484,098	3,400,813	3,737,885	1,026,326	23,202,551
	Donation Rate	7.57%	7.28%	8.43%	8.94%	8.82%	8.33%	8.13%
2012	Blood Donation	526,216	248,420	371,259	304,184	300,906	83,536	1,834,521
	Population	7,086,152	3,525,575	4,496,195	3,397,242	3,734,579	1,021,830	23,261,573
	Donation Rate	7.43%	7.05%	8.26%	8.95%	8.06%	8.18%	7.89%
2013	Blood Donation	513,907	241,765	351,790	294,771	278,740	79,992	1,760,965
	Population	7,131,766	3,555,325	4,510,598	3,394,334	3,733,713	1,018,477	23,344,213
	Donation Rate	7.21%	6.80%	7.80%	8.68%	7.47%	7.85%	7.54%
2014	Blood Donation	509,548	239,797	345,234	295,028	287,690	76,822	1,754,119
	Population	7,160,559	3,579,347	4,517,652	3,388,101	3,728,935	1,017,442	23,392,036
	Donation Rate	7.12%	6.70%	7.64%	8.71%	7.72%	7.55%	7.50%
2015	Blood Donation	509,230	251,630	349,238	296,569	282,832	78,382	1,767,881
	Population	7,187,196	3,623,818	4,532,292	3,379,761	3,724,569	1,013,926	23,461,562
	Donation Rate	7.09%	6.94%	7.71%	8.77%	7.59%	7.73%	7.54%

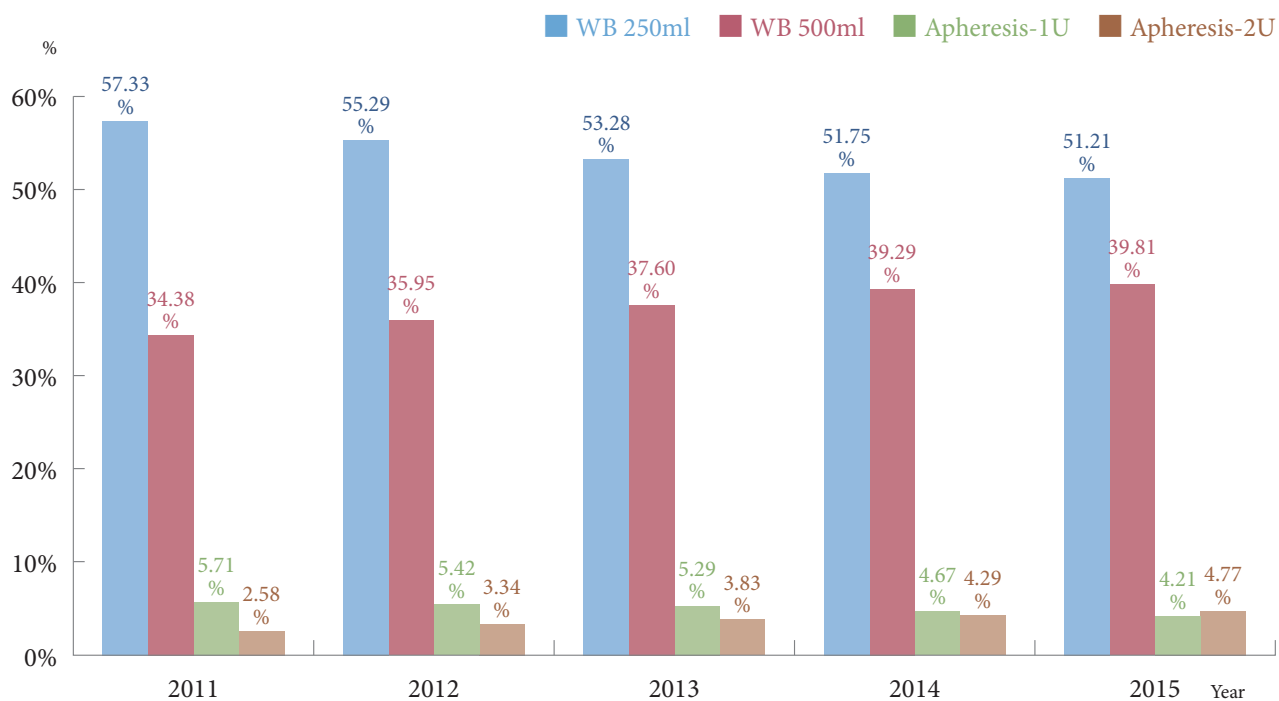
**Note:**

1. Mid-year population, data from the ministry of interior.
2. Both whole blood and apheresis donations are included.

## Types of Blood Donation

Donation

Type Blood Centers	Whole blood				Apheresis				Total
	250ml	%	500ml	%	Apheresis - 1U	%	Apheresis - 2U	%	
Taipei	241,791	47.48%	208,213	40.89%	32,563	6.39%	26,663	5.24%	509,230
Hsinchu	129,952	51.64%	99,015	39.35%	17,365	6.90%	5,298	2.11%	251,630
Taichung	191,738	54.90%	133,746	38.30%	7,782	2.23%	15,972	4.57%	349,238
Tainan	159,556	53.80%	111,670	37.65%	14,673	4.95%	10,670	3.60%	296,569
Kaohsiung	141,943	50.19%	120,012	42.43%	0	0.00%	20,877	7.38%	282,832
Hualien	40,296	51.41%	31,214	39.82%	1,994	2.54%	4,878	6.22%	78,382
Subtotal	905,276	51.21%	703,870	39.81%	74,377	4.21%	84,358	4.77%	1,767,881



## The Rate of 500ml Whole Blood Donation

Year	Blood Centers Item	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
2011	500ml Blood Donation	197,849	90,362	124,561	94,016	112,939	28,650	648,377
	Whole Blood Donation	476,872	236,777	359,089	279,148	297,758	80,023	1,729,667
	% of 500ml Whole Blood Donations	41.49%	38.16%	34.69%	33.68%	37.93%	35.80%	37.49%
2012	500ml Blood Donation	203,374	91,627	125,776	93,284	116,992	28,521	659,574
	Whole Blood Donation	465,757	229,754	349,220	277,393	276,770	74,999	1,673,893
	% of 500ml Whole Blood Donations	43.67%	39.88%	36.02%	33.63%	42.27%	38.03%	39.40%
2013	500ml Blood Donation	200,638	91,306	125,092	98,812	117,175	29,047	662,070
	Whole Blood Donation	452,749	221,984	327,667	268,223	257,372	72,387	1,600,382
	% of 500ml Whole Blood Donations	44.32%	41.13%	38.18%	36.84%	45.53%	40.13%	41.37%
2014	500ml Blood Donation	209,352	93,383	127,939	105,666	122,817	30,044	689,201
	Whole Blood Donation	448,501	218,889	322,728	269,839	267,016	69,990	1,596,963
	% of 500ml Whole Blood Donations	46.68%	42.66%	39.64%	39.16%	46.00%	42.93%	43.16%
2015	500ml Blood Donation	208,213	99,015	133,746	111,670	120,012	31,214	703,870
	Whole Blood Donation	450,004	228,967	325,484	271,226	261,955	71,510	1,609,146
	% of 500ml Whole Blood Donations	46.27%	43.24%	41.09%	41.17%	45.81%	43.65%	43.74%

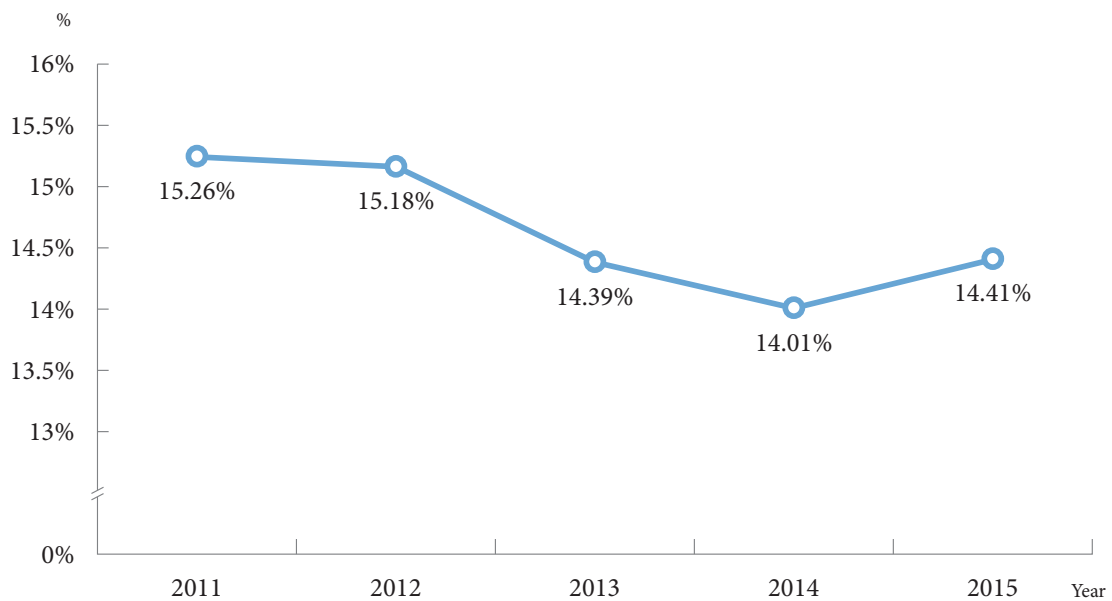
## First-time Donors

Donor

Blood Centers Item		Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
		Total Donors (A)	293,468	149,733	216,629	180,787	164,669	47,854
First-time Donors	No. (B)	37,527	21,253	31,157	31,442	22,339	8,091	151,809
	% (B/A)	12.79%	14.19%	14.38%	17.39%	13.57%	16.91%	14.41%
First-time Donors Age ≤ 24	No. (C)	22,521	14,076	22,139	25,028	16,502	6,189	106,455
	% (C/B)	60.01%	66.23%	71.06%	79.60%	73.87%	76.49%	70.12%

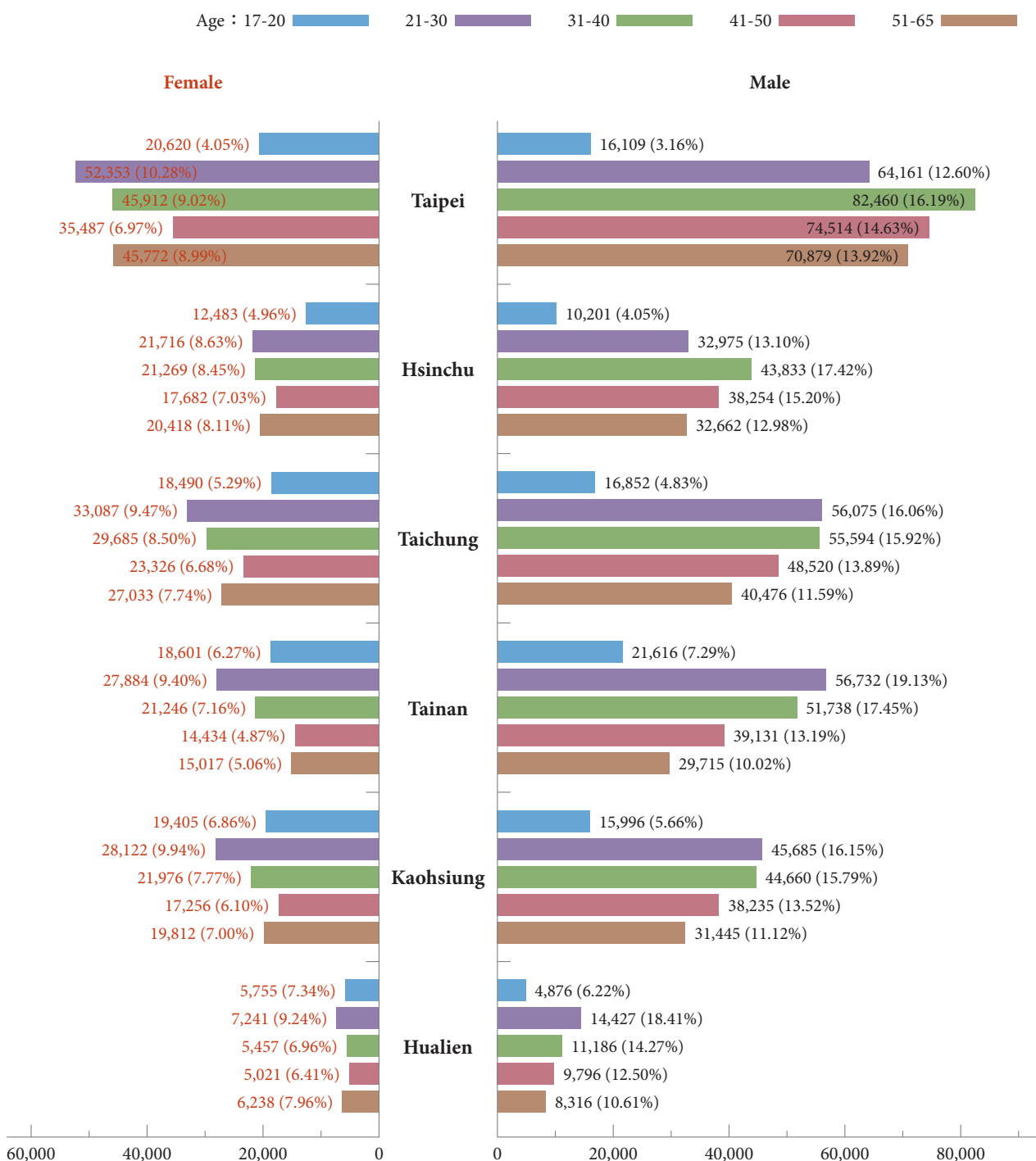
Note: Total donors refer to the sum of individuals donating blood one or more times in the year.

## Trends in the Rate of First-time Donors



## Distribution of Blood Donation by Gender and Age

Donation

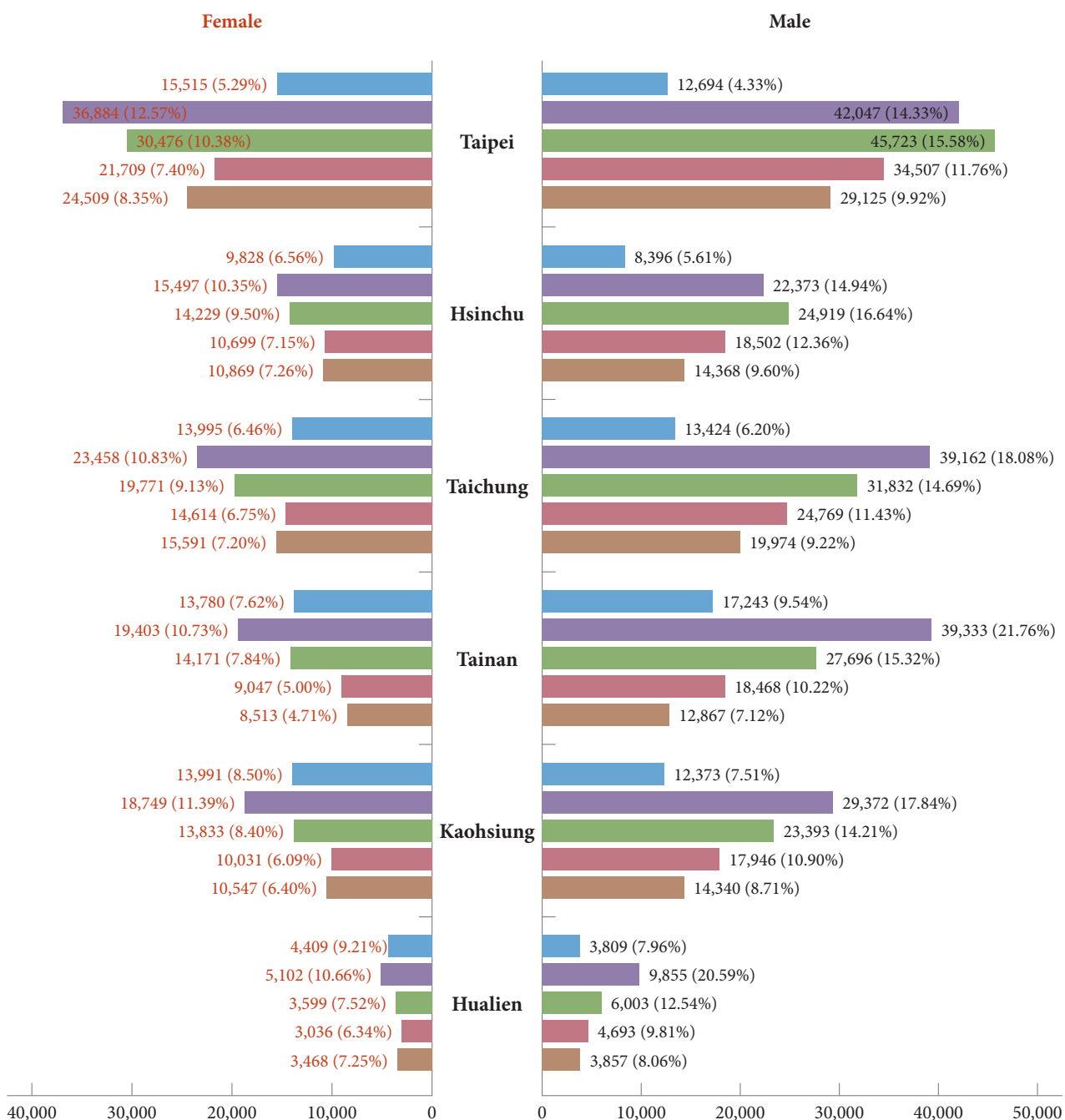


Gender	Age						Total
	17-20	21-30	31-40	41-50	51-65	>65	
Male	85,650 ( 4.84%)	270,055 (15.28%)	289,471 (16.37%)	248,450 (14.05%)	213,493 (12.08%)	1,435 (0.08%)	1,108,554 (62.71%)
Female	95,354 ( 5.39%)	170,403 ( 9.64%)	145,545 ( 8.23%)	113,206 ( 6.40%)	134,290 ( 7.60%)	529 (0.03%)	659,327 (37.29%)
Total	181,004 (10.24%)	440,458 (24.91%)	435,016 (24.61%)	361,656 (20.46%)	347,783 (19.67%)	1,964 (0.11%)	1,767,881

# Distribution of Blood Donor by Gender and Age

Donor

Age : 17-20 (Blue) 21-30 (Purple) 31-40 (Green) 41-50 (Red) 51-65 (Brown)



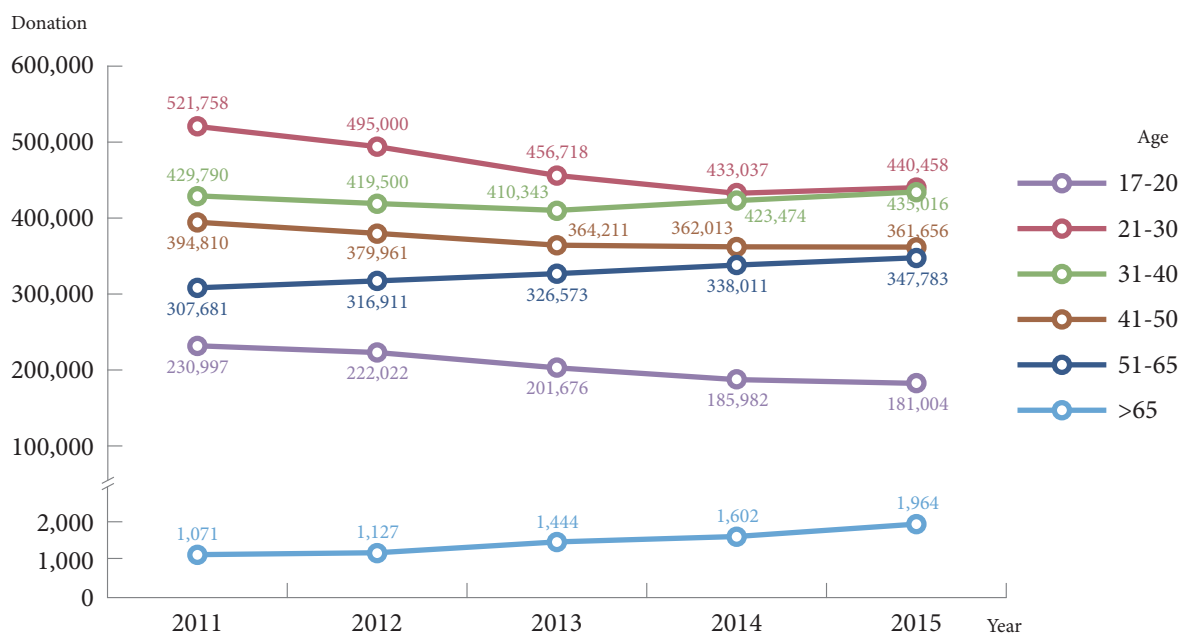
Gender \ Age	Age					>65	Total
	17-20	21-30	31-40	41-50	51-65		
Male	67,939 ( 6.45%)	182,142 (17.30%)	159,566 (15.15%)	118,885 (11.29%)	94,531 ( 8.98%)	475 (0.05%)	623,538 (59.21%)
Female	71,518 ( 6.79%)	119,093 (11.31%)	96,079 ( 9.12%)	69,136 ( 6.56%)	73,497 ( 6.98%)	279 (0.03%)	429,062 (40.79%)
<b>Total</b>	<b>139,457 (13.24%)</b>	<b>301,235 (28.60%)</b>	<b>255,645 (24.27%)</b>	<b>188,021 (17.85%)</b>	<b>168,028 (15.95%)</b>	<b>754 (0.07%)</b>	<b>1,053,140</b>

## Donation Frequency by Gender and Age

Donation Times / Year

Age	Gender	Blood Centers						Donation Times	
		Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien		
17-20	Male	1.27	1.21	1.26	1.25	1.29	1.28	1.26	1.30
	Female	1.33	1.27	1.32	1.35	1.39	1.31	1.33	
21-30	Male	1.53	1.47	1.43	1.44	1.56	1.46	1.48	1.46
	Female	1.42	1.40	1.41	1.44	1.50	1.42	1.43	
31-40	Male	1.80	1.76	1.75	1.87	1.91	1.86	1.81	1.70
	Female	1.51	1.49	1.50	1.50	1.59	1.52	1.51	
41-50	Male	2.16	2.07	1.96	2.12	2.13	2.09	2.09	1.92
	Female	1.63	1.65	1.60	1.60	1.72	1.65	1.64	
51-65	Male	2.43	2.27	2.03	2.31	2.19	2.16	2.26	2.07
	Female	1.87	1.88	1.73	1.76	1.88	1.80	1.83	
>65	Male	4.04	2.82	2.89	1.96	2.80	4.21	3.02	2.60
	Female	2.46	2.00	1.83	1.34	2.09	1.11	1.90	
Subtotal	Male	1.88	1.78	1.68	1.72	1.81	1.72	1.78	1.68
	Female	1.55	1.53	1.51	1.50	1.59	1.51	1.53	
Donation Times		1.74	1.68	1.61	1.64	1.72	1.64	1.68	

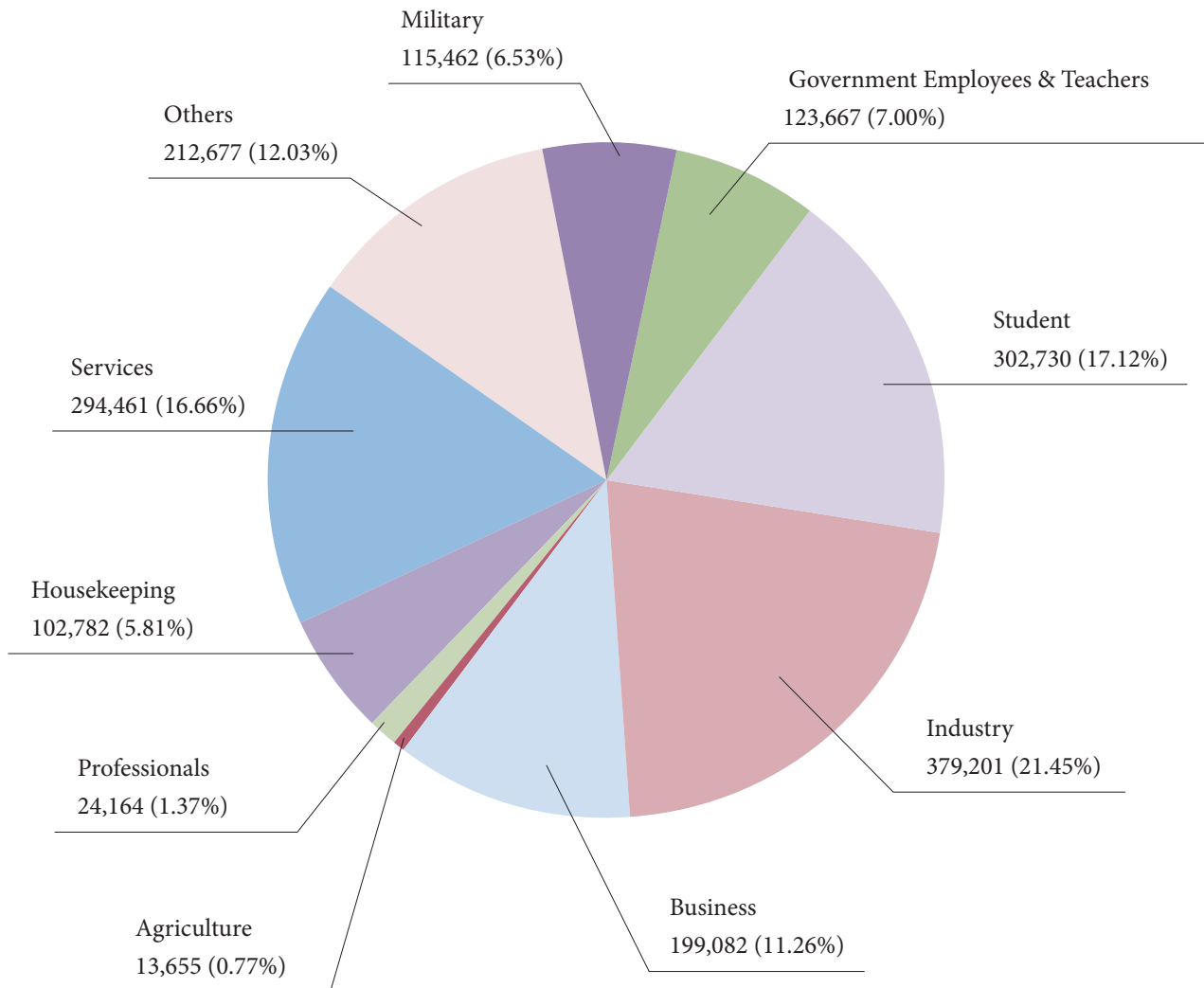
## Distribution of Donations by Age



Note: Both whole blood and apheresis donations are included.

## Occupational Distribution of Donors

Total: 1,767,881 Donations



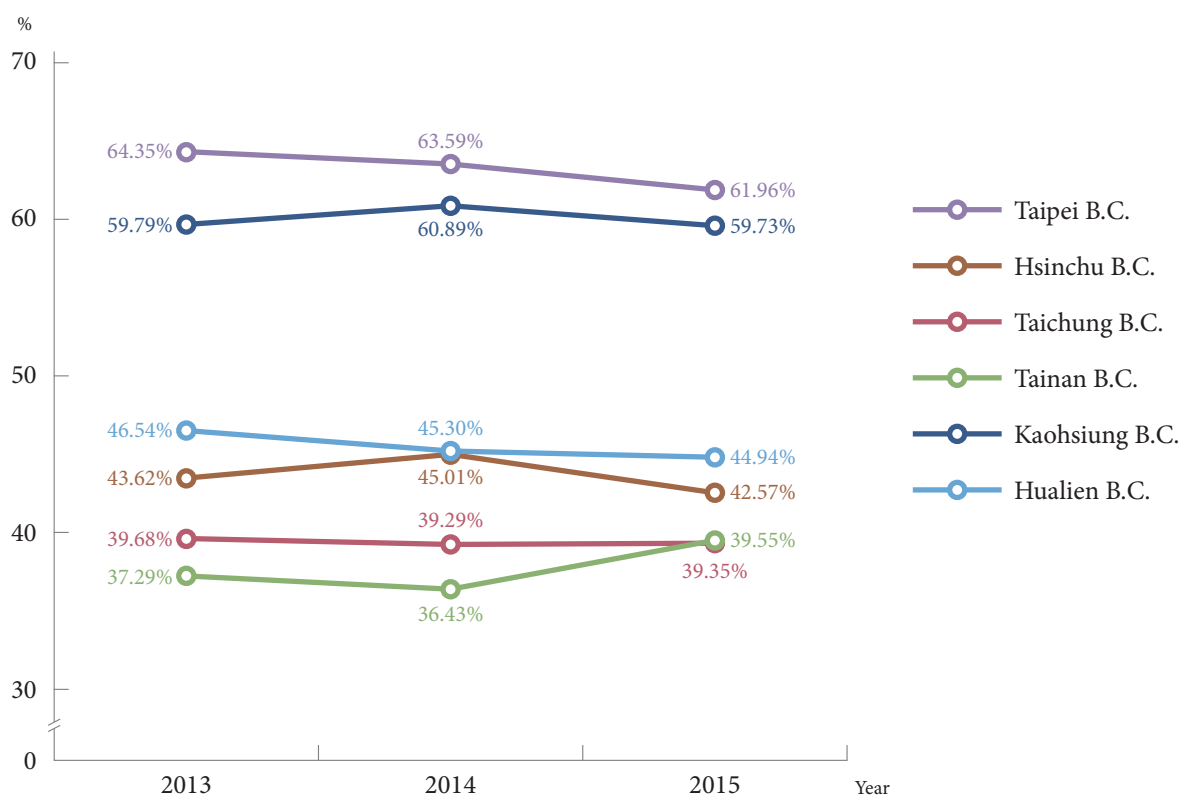


## Blood Donation by Sites

Donation

Sites \ Blood Centers	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
	Donor rooms	159,034 31.23%	107,107 42.57%	88,782 25.42%	72,831 24.56%	151,946 53.72%	28,128 35.89%
Fixed Mobiles	156,495 30.73%	0 0.00%	48,639 13.93%	44,456 14.99%	17,002 6.01%	7,096 9.05%	273,688 15.48%
Mobiles	193,701 38.04%	144,523 57.43%	211,817 60.65%	179,282 60.45%	113,884 40.27%	43,158 55.06%	886,365 50.14%
Total	509,230	251,630	349,238	296,569	282,832	78,382	1,767,881

## Blood Donation Rates From Fixed Sites



Note: Fixed Sites includes donor rooms and fixed mobiles.

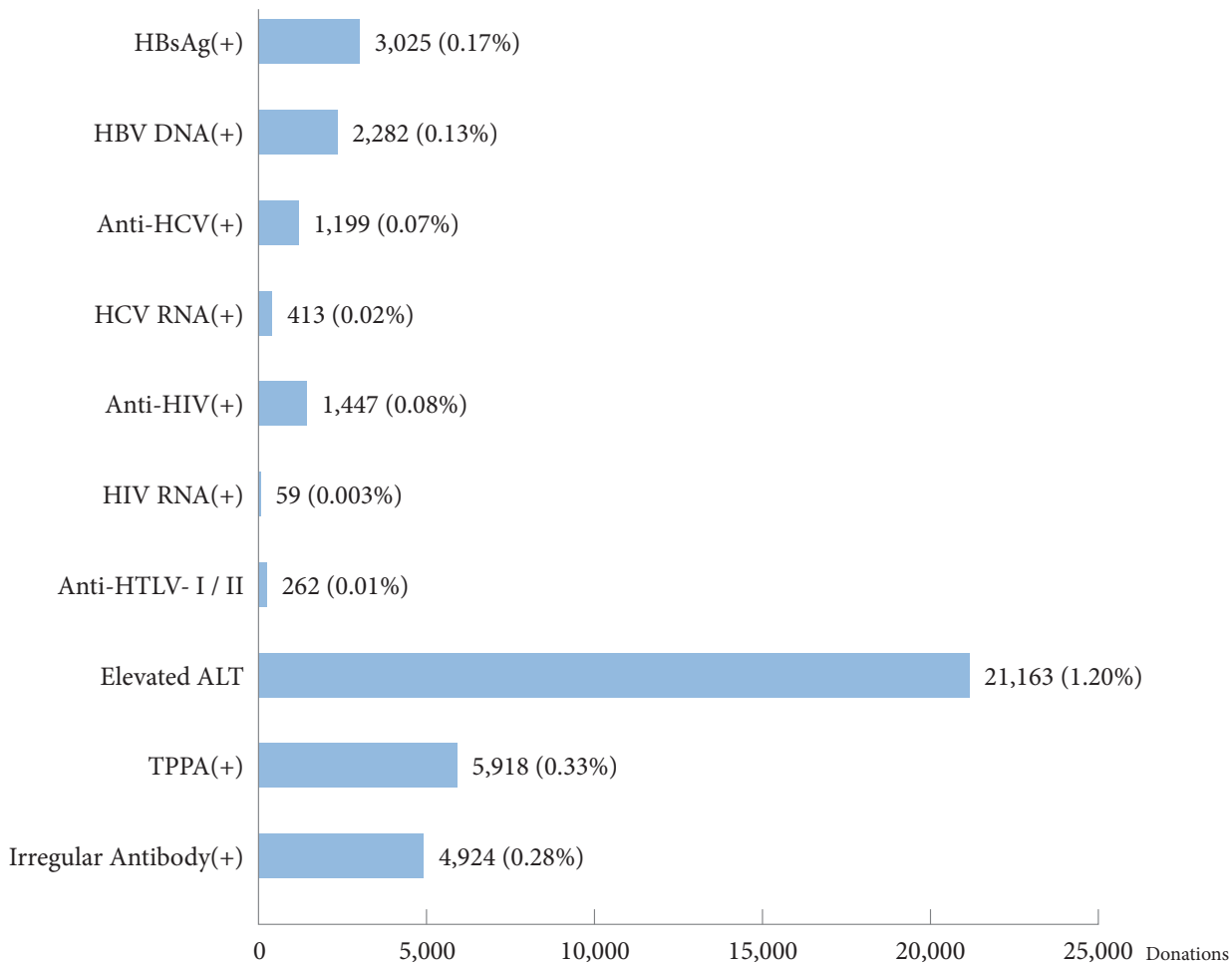
## Pre-Donation Donor Defferal Rate

Donation

Blood Centers Reasons of Deferral		Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
		1	Low Hemoglobin	43,348	11,506	26,984	20,399	23,487
2	Blood Pressure too High or too Low	12,276	2,567	6,647	2,465	5,341	1,054	30,350
3	Aspirin or other medications	9,487	3,930	4,454	3,761	3,726	1,609	26,967
4	Temporary Deferral	6,935	739	8,246	1,103	5,038	251	22,312
5	Interval of Donations	3,876	417	6,621	172	5,256	27	16,369
6	Lack of Sleeping	3,373	1,285	2,872	1,747	2,617	280	12,174
7	Recent Transfusion or Surgery	3,819	1,734	2,294	2,544	527	733	11,651
8	Under Medical Treatment	5,059	181	3,128	1,542	785	443	11,138
9	Abroad Within Past 1 Year	2,849	616	1,997	624	286	227	6,599
10	Acupuncture, Dental Extraction, Tatoo	1,885	1,455	1,076	821	511	378	6,126
11	High-Risk Sexual Behaviors	2,316	247	2,387	588	281	58	5,877
12	Heart, Kidney, Lung Disease or Cancer	1,912	504	490	2,103	146	168	5,323
13	Low Body Weight	2,138	508	922	538	932	270	5,308
14	Vaccinations	2,021	829	815	916	430	159	5,170
15	Menstruation	2,009	338	1,542	555	558	144	5,146
16	Other Abnormalities	11,670	6,141	11,078	4,895	5,971	1,229	40,984
Deferred Donations		114,973	32,997	81,553	44,773	55,892	14,310	344,498
Total Donations		624,203	284,627	430,791	341,342	338,724	92,692	2,112,379
%		18.42%	11.59%	18.93%	13.12%	16.50%	15.44%	16.31%

**Note:** Total donations include deferred and successful donations.

## Blood Screening Tests



## Statistics of ABO and RhD

Donation

Blood Group	RhD+	RhD-	Total	%
<b>A</b>	470,153	1,968	472,121	26.71%
<b>B</b>	414,836	1,819	416,655	23.57%
<b>O</b>	769,230	3,270	772,500	43.70%
<b>AB</b>	106,056	549	106,605	6.03%
<b>Total</b>	1,760,275	7,606	1,767,881	100.00%
<b>%</b>	99.57%	0.43%		

## Statistics of ABO subgroups

Donation

A subgroups		B subgroups		AB subgroups		Para-Bombay	
<b>A<sub>2</sub></b>	3	<b>B<sub>3</sub></b>	653	<b>A<sub>2</sub>B</b>	141	<b>O<sub>Hm</sub><sup>A</sup></b>	77
<b>A<sub>3</sub></b>	1	<b>B<sub>el</sub></b>	40	<b>A<sub>3</sub>B</b>	8	<b>O<sub>Hm</sub><sup>B</sup></b>	72
<b>A<sub>el</sub></b>	107			<b>A<sub>el</sub>B</b>	21	<b>O<sub>Hm</sub></b>	55
<b>A<sub>m</sub></b>	2			<b>AB<sub>3</sub></b>	191	<b>O<sub>Hm</sub><sup>AB</sup></b>	8
<b>A<sub>x</sub></b>	1			<b>AB<sub>el</sub></b>	3		
				<b>AB<sub>m</sub></b>	1		
				<b>cisAB</b>	1		

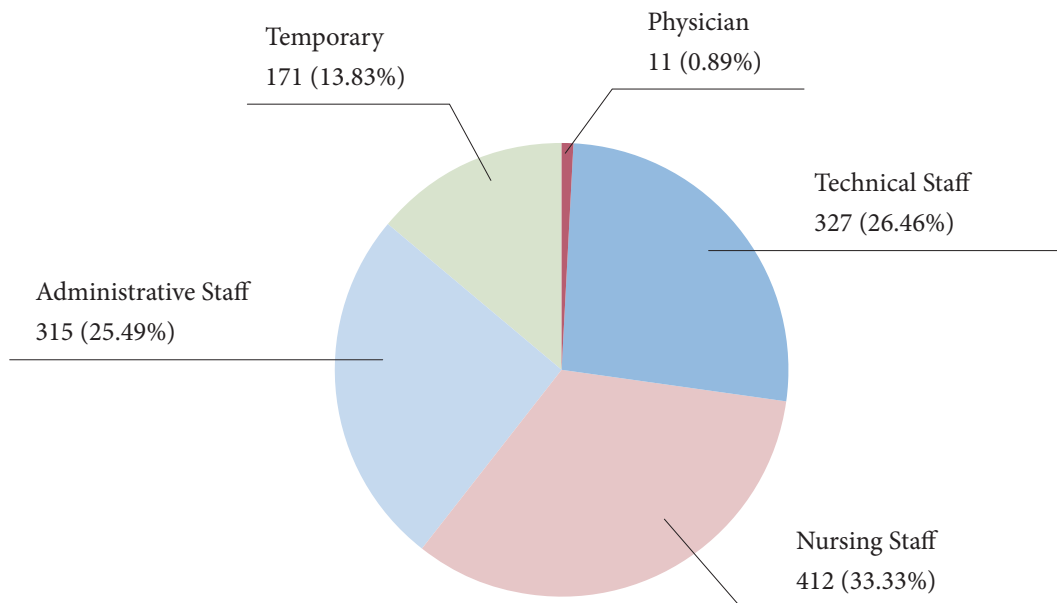
### Inventory of Rare RBCs (on 31<sup>st</sup> Dec. 2015)

Blood groups		Unit	Donor
Rare blood groups	ABO blood groups		
s(-)	O	22	37
RzRz	O	4	13
Lu(a-b-)	A	10	1
	O	8	1
ko	A	5	4
Fy(a-b+)	A	2	49
	B	2	20
	O	20	109
Jk(a-b-)	A	6	51
	B	10	43
	O	14	91
Dia(a+b-)	A	6	1
	O	6	6
i adult cell	A	6	5
	O	4	6
p(-)	A	4	1
Jr(a-)	O	4	1

## Human Resources

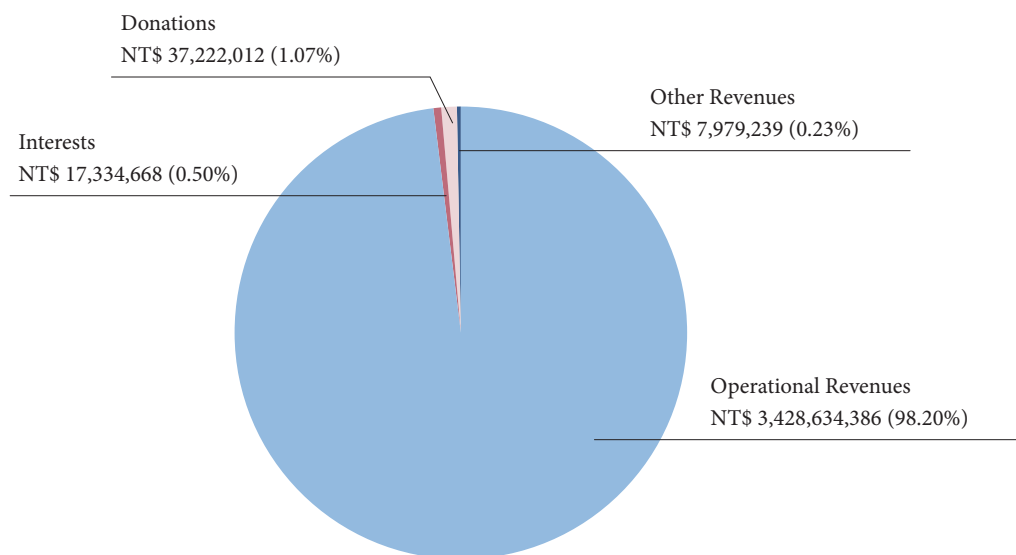
Person

	Physician	Technical Staff	Nursing Staff	Administrative Staff	Temporary	Total	%
Head Office	1	9	0	31	2	43	3.48
Taipei	2	119	135	86	44	386	31.23
Hsinchu	1	42	42	44	14	143	11.57
Taichung	2	43	76	56	35	212	17.15
Tainan	3	39	77	46	30	195	15.78
Kaohsiung	1	64	60	35	36	196	15.86
Hualien	1	11	22	17	10	61	4.94
<b>Total</b>	<b>11</b>	<b>327</b>	<b>412</b>	<b>315</b>	<b>171</b>	<b>1,236</b>	

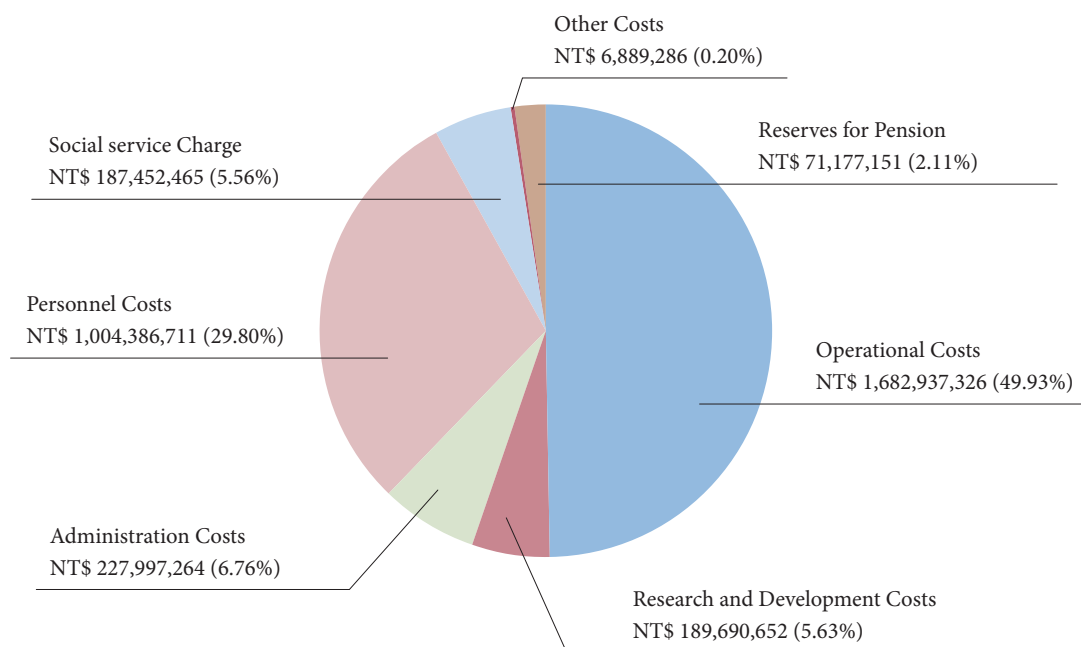


## Incomes and Expenditures

### 1. Total Incomes: NT\$ 3,491,170,305



### 2. Total Expenditures: NT\$ 3,370,530,855



### 3. Balance: NT\$ 120,639,450

### 4. Capital expenditures: NT\$ 70,211,956



# Appendix



# Blood Centers and Stations



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## Head Office

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### Taiwan Blood Services Foundation

3F., No.3, Nanhai Rd., Zhongzheng Dist., Taipei City 10066, Taiwan, R.O.C.

TEL: 886-2-2351-1600 FAX: 886-2-2395-1002

Website: <http://www.blood.org.tw>

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## Regional Office

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### Taipei Blood Center

No.123, LiDe Rd, Beitou Dist., Taipei City 112,  
Taiwan, R.O.C.

TEL: 886-2-2897-1600 FAX: 886-2-2897-1601

**Executive Region:** Taipei City, New Taipei City,  
Keelung City, Kinmen County, Matsu County

### Tainan Blood Center

No.85, Sec. 1, Yonghua Rd, West Central Dist.,  
Tainan City 700, Taiwan, R.O.C.

TEL: 886-6-213-1212 FAX: 886-6-213-3201

**Executive Region:** Tainan City, Chiayi County,  
Yuenlin County

### Hsinchu Blood Center

No.8, Ln. 215, Guangming 11th Rd., Zhubie City,  
Hsinchu County 302, Taiwan, R.O.C.

TEL: 886-3-555-6111 FAX: 886-3-555-0305

**Executive Region:** Taoyuan City, Hsinchu County,  
Miaoli County

### Kaohsiung Blood Center

No.1837, Gaonan Highway, Nanzi Dist., Kaohsiung  
City 811, Taiwan, R.O.C.

TEL: 886-7-366-0999 FAX: 886-7-364-1556

**Executive Region:** Kaohsiung City, Pingtung  
County, Penghu County

### Taichung Blood Center

No.1176, Sec. 4, Taiwan Blvd., Xitun Dist., Taichung  
City 407, Taiwan, R.O.C.

TEL: 886-4-2461-2345 FAX: 886-4-2461-3939

**Executive Region:** Taichung City, Changhwa  
County, Nantou County

### Hualien Blood Center

No.170, Sec. 1, Zhongshan Rd., Hualien City,  
Hualien County 970, Taiwan, R.O.C.

TEL: 886-3-856-0990 FAX: 886-3-857-5190

**Executive Region:** Hualien County, Yilan County,  
Taitung County





醫療財團法人

台灣血液基金會  
捐血救人 Taiwan Blood Services Foundation

### Taiwan Blood Services Foundation

3F, No.3, Nanhai Rd., Zhongzheng Dist., Taipei City 10066, Taiwan

Tel : (02)2351-1600 FAX : (02)2395-1002

<http://www.blood.org.tw>