



101年報

The Taiwan Blood Services Foundation
Annual Report **2012**

台灣血液基金會





中華民國總統用牋

親愛的全國父老兄弟姊妹們：



捐全血達133次的視障捐血人喻家貞小姐於
101年12月14日在總統府榮獲馬總統接見。

臺灣推動自願無償捐血事業至今已邁入第39年，在社會愛心人士及健全機制運作下，從初期資源極度缺乏的艱困環境，到今日百分之百充分供應醫療用血無虞，同時也受到國際重視與肯定。這些得來不易的成就，端賴社會各界的熱心支持、捐血人士無私的奉獻、以及捐血機構全體工作人員戮力以赴，才有如此豐碩成果。英九謹向所有熱心的捐血人士及社會團體，致上最崇高的敬意與謝意。

捐血不僅是分享健康，也是人文關懷的體現。國人熱心參與捐血救人運動已蔚為風氣，捐血觀念的普及，主要歸功於宣導策略的運用、政府的倡導及企業社團的動員等因素。而教育素質的提升，已成功打破國人「身體髮膚受之父母，不可毀傷」的傳統思維，使民眾在捐血態度上，由早期的逃避、排斥，逐漸轉變為欣然接受並積極參與。目前臺灣捐過血的人口已超過700萬人，以臺灣總人口2,300萬人計算，大約每4個人就有1人捐過血，居世界之冠。臺灣的自願無償捐血由點、線、面，進而推廣到全體民眾，是一個成功的社會改革運動，值得國人欣慰與驕傲。

隨著人口老化及外來人口的增加，稀有及特殊血型的需求亦不斷增加，建置臺灣「稀有血型庫」實為當務之急。目前臺灣血液基金會已積極進行建檔作業，並已建立2,000多位Rh陰性血液及500多位稀有血型的資料，隨時提供傷病患者的需求。

時逢歲末年終，農曆春節將至，連續假期遊子返鄉，各地捐血人數驟減，庫存血量恐將不足。因此，臺灣血液基金會以「捐血有愛，捨我其誰」為主題，於1月8日至2月8日舉辦「捐血月」活動。希望大家在春節過年前踴躍響應，充裕血庫，讓醫院裡急需輸用血液的傷病患者也能安心的過年，也讓臺灣成為充滿愛與關懷的溫馨社會。

敬祝

新年快樂！
萬事如意！



總統 馬英九

中華民國102年1月8日

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董事長的話

歐、美、日等先進國家為防止輸血感染疾病、減低輸血反應、增進病人福祉並提高血液品質，已陸續實施血品之全面儲存前減除白血球措施。本會為提升血液品質及用血安全並配合國際趨勢，近年來積極推廣減除白血球血品；目前本會減除白血球血品供應包括「減除白血球之紅血球濃厚液」及「減除白血球之分離術血小板」。今（101）年全國總捐血量達到2,555,333單位（每單位250西西），供應各類血品共4,632,796單位；國民捐血率達7.89%。

為配合政府「國血國用」衛生政策並紓解國內血液製劑短缺情況，本會所屬捐血中心自96年1月起開始收集血漿原料，並分批運至澳洲CSL血漿工廠加工製成四種血液製劑，分別為：人血清白蛋白注射劑、人類免疫球蛋白靜脈注射劑、第八凝血因子注射劑及第九凝血因子注射劑等。其中「國血製劑益康」人類免疫球蛋白靜脈注射劑為目前國內唯一之供應來源，持續供應國內醫療院所病患輸用，為國人健康挹注心力。此外，基於人道救援並妥善運用寶貴的血液資源，本會第二度將第八凝血因子3,820瓶捐贈給「世界血友病聯盟（World Federation of Hemophilia）」並轉贈其他國家，讓國人的愛心遍及全球。

為提昇捐供血服務品質並強化資訊系統功能，本會積極導入eProgesa套裝軟體作業系統，大幅改善目前採血、檢驗、成分、醫

務、供應等作業流程。此套系統主要以參數設定方式以符合世界各國法規及流程的需求；該系統也是專門針對捐血機構及血庫管理的作業軟體系統，且經美國FDA認證，目前有50多個國家使用。

為提升輸血安全並有效縮短檢驗空窗期、降低輸血感染之風險，本會於99年7月起階段性執行病毒核酸擴大試驗（NAT），至101年底共完成篩檢774,384捐血人次。經多年爭取，今年11月29日行政院衛生署通過由健保支付NAT篩檢費用；本會並配合於102年1月16日起正式全面執行常規「血液NAT篩檢」。

為強化血液檢驗品質，並達到國際水準，各捐血中心持續參加國內外之品管調查，包括：台灣醫檢學會、美國病理學會（CAP）、澳洲國家血清實驗室(EQAS)及美國組織相容免疫基因協會（ASHI）之精確度調查，其一致性均獲得肯定與認可。

血液諮詢實驗室自成立以來，協助國內醫療機構處理輸血相關臨床檢驗問題；也持續提供臨床醫療機構輸血安全相關的教育訓練，以確保國內的輸血安全作業。此外，隨著人口老化及外來人口的增加，稀有及特殊組合血型的需求亦不斷增加。本年度持續進行捐血者紅血球抗原建檔作業，目前各捐血中心計有四萬多位Rh D陰性及五百多位稀有血型的捐血者資料，隨時提供病患特殊血品的需求。

自個人資料保護法於今年10月1日正式實施以來，本會為落實執行相關法規與要求，積極成立「個資管理委員會」並規劃建置「個人資訊管理系統」，進行各項保護捐血人隱私與資料安全之措施；同時也進行教育訓練及風險評估等作業。

本會成立迄今已邁入第38年。未來，除持續達成捐供血平衡目標外，將提供更安全、更優質的血品為傷病患者服務。今後努力的重點包含：（1）完成更新全國單一血液管理資訊系統（2）加強防範輸血感染（3）持續各項品質驗證並逐步導入美國血庫協會（AABB）作業規範（4）提升「減除白血球血品」供應，降低輸血不良反應（5）推動血液科技研究計畫等。

最後，期盼本會全體同仁秉持誠信、和諧、效能、創新的原則永續發展，讓捐血事業成為台灣安全醫療用血來源的領航者。



Message from the Chairman

In Europe, America, Japan, and other advanced countries, white blood cell reduction practices are being fully implemented before storing blood products--to prevent transfusion infections, reduce transfusion reactions, enhance the well-being of patients, and improve blood quality. We have been actively promoting the reduction of the white blood cells of blood products to improve blood quality and safety of blood in order to keep up with the international trend in recent years; currently, we have white cell reduction blood products including, "Leukocyte-Reduced red blood cell" and "Leukocyte-reduced Apheresis Platelets". This year (2012), the country's total blood donation reached 2,555,333 units (250 cc per unit), and 4,632,796 units of various types of blood products were supplied; the national blood donation rate was 7.89%.

To be in line with the Government's "Our Blood For Our People" health policy and to relieve domestic blood product shortage, our blood donation centers began to collect the source plasma since January, 1996, and delivered shipments of the batches to Australia CSL plasma processing factory to produce four types of blood plasma derived products, and they are: human serum albumin injection, the human immunoglobulin intravenous injection, coagulation factor VIII injection, and coagulation factor IX injection. Of which, the "TBSF" human immune globulin intravenous injection is currently the only continuous supply of the domestic medical institutes patients for transfusion. In addition, to properly utilize the valuable blood resources upon the humanitarian aid, we have donated 3,820 bottles of coagulation factor VIII injection for the second time to the "World Federation of Hemophilia" to help out other nations, and spread Taiwan's love throughout the world.

To enhance the blood donation/supply service quality and strengthen the information system function, we have actively imported the eProgesa operating system package, which

significantly improved the operating procedures for blood collection, testing, processing, medical, supply, and more. This system parameter setting procedure is to meet the world demand for regulations and processes; it is also an operating system designed specifically for blood donation organizations and blood bank management with certification by the United States FDA and is used by more than 50 countries as of today.

To minimize risks of infections through blood transfusion, we implemented NAT blood testing for selective donations since 2010 and accomplished 800,000 NAT testings at the end of 2011. On November 2012, Tiawan Department of Health passed the legal procedures to cover NAT expense through the budget of National Health Insurance. NAT blood testings were implemented as a routine in Taiwan since January 2013.

To ensure the accuracy of laboratory testings, we take part in the proficiency programs provided by CAP (USA), ASHI (USA), EQAS (Australia), and Taiwan Society of Laboratory Medicine (Taiwan) in a regular basis. The consistency of our testing results with those by the majority of the laboratories are therefore validated.

The TBSF's reference laboratories provides immunohematology testing services and consultation to assist hospitals in the resolution of patient antibody problems and to locate suitable units of blood for transfusion. We maintains over 40,000 RhD-negative donors, over 500 rare donors, and an inventories of frozen donor red cells units to support patients who need antigen-negative units for transfusion.

Since the formal implementation of the Privacy Protection Act on October 1st this year, to enforce relevant regulations and requirements, we have actively set up a Privacy Management Committee and planned to build a personal information management system

for the protection of donors' privacy and data security measures; as well as educational training and risk assessment.

This will be the 38th year at work. In the future, in addition to continue reaching the blood donation supply balance target, we will provide a safer, better quality of blood products to serve the sick and the injured. The focus of future efforts include: (1) the completion of the updated single national blood management information system (2) to strengthen the prevention of transfusion-transmitted infections (3) to maintain operation standards of quality validation and gradually adopt the American Association of Blood Banks (AABB) operation procedures (4) to enhance the "Leukocyte-reduced blood product supply, reduce adverse transfusion reactions (5) promote blood scientific and technological research projects.

Lastly, I look forward to witness all of my colleagues in this Council to uphold integrity, harmony, performance, and innovative principles of sustainable development, so that the blood donation cause become the pioneer source of safe medical blood.



捐血事業 簡史

民國63年以前，台灣的醫療用血幾乎全面機起會有價供應，不僅有違文明，損害國家體的醫益的公關，更傳染疾病之虞。於是一些熱心公關、社團、學校、公司、工廠等，共同懷社的公德心，推動愛心人士捐獻熱血運動，提振中華民國捐血運動協會遂於63年4月19日，在當時紅十字會台灣省分會會長蔡培火先生倡導下成立，從此台灣逐步走入無償捐血時代。

捐血運動協會為有效執行捐供血作業，從63年8月起相繼成立台北、台中、高雄、台南等4個捐血中心，在各地積極展開捐供血工作。

為配合國家醫療政策、健全無償捐供血制度，中華民國捐血運動協會第6屆第2次會員代表大會決議捐助設置「財團法人中華民國捐血事業基金會」，奉行政院衛生署79年1月3日衛署醫字第850280號函核定於民國79年1月1日成立。原捐血運動協會所屬台北、台中、台南、高雄等捐血中心於同日起改隸基金會。民國80年以後，又相繼成立花蓮、新竹捐血中心。

台灣血液機構擴大與世界先進國家聯繫，提高血液研究水準，是一種必然趨勢。為了便於運作，奉行政院衛生署核定於81年7月1日起，更名為「財團法人中華血液基金會」。中華血液基金會成立後，中華民國捐血運動協會繼續運作，並於86年3月第8屆第一次會員代表大會決議更名為「中華捐血運動協會」，目前擁有團體及個人會員千餘，和基金會的事業，相輔相成，對於支持捐血運動之推展，有正面而關鍵性影響。協會之運作，係在各捐血中心內成立聯絡中心，負責會員服務聯繫。所經辦的「熱血雜誌」，每個月出刊一次，為捐血文宣工作重要工具。

為因應國際交流及實際情況需要，「財團法人中華血液基金會」經第4屆第7次董事會議通過，更名為「財團法人台灣血液基金會」，奉行政院衛生署核復同意，於93年10月18日完成法人登記。本會於97年4月21日修正法人名稱為「醫療財團法人台灣血液基金會」。

本會係依據民法及醫療法之規定由中華捐血運動協會捐助設立之非營利性財團法人，主管機關為行政院衛生署，供應全國百分之九十九以上之醫療用血。多年來，台灣血液事業在政府的領導、社會大眾的支特以及本會全體工作人員的努力下才有了今日的規模。未來更應百尺竿頭，以捐血快樂、用血安全為經營理念，為醫療用血嚴格把關，為捐血者與用血者做最完善的服務。

A Brief History of Blood Donation Services in Taiwan

Prior to 1974, almost all blood for medical use 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 infections. Subsequently, a number of public-spirited organizations, societies, schools, business enterprises and factories 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 Blood Donation Association of the Republic of China (BDA) was thus, under the initiation of Mr Pei-Huo Tsai, then President of the Red Cross Society of the Republic of China Taiwan Provincial Chapter, founded on April 19, 1974. Taiwan then entered the age of non-remunerated blood donation services.

To effectively promote blood donation, the BDA set up four blood centers in Taipei, Taichung, Kaoshiung and Tainan to actively promote blood donation since August 1974.

To coordinate with the national health policies and to strengthen the non-remunerated blood service system, the BDA, at its second meeting of representatives of the sixth session, resolved that the Blood Services Foundation of the Republic of China be established. Upon approval of the Department of Health of the Executive Yuan, the Foundation was officially inaugurated on January 1, 1990. The four blood centers in Taipei, Taichung, Kaohsiung and Tainan of the BDA were then placed under the Foundation. In 1991, two more blood centers in Hualien and Hsinchu were set up.

For Taiwan's blood services institutions to upgrade their levels in blood technologies and research, close international exchange and collaboration are essential. For the convenience of business operation, upon approval of the Department of Health of the Executive Yuan, the Foundation was renamed the Chinese Blood Services Foundation (CBSF) on July 1, 1992. The Blood Donation Association of

the Republic of China continued to function alongside of the Foundation. In March 1997, at its first meeting of representatives of the 8th session, the Association was renamed the Chinese Blood Donation Association. The Association currently has a membership of some 1,000 institutions and individuals. It supports and supplements the activities of the Foundation by coordinating its members through liaison centers 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.

For more effective international exchange and to face realistic situations, at the 7th meeting of the 4th Board of Directors, a resolution was reached to change the name of the Chinese Blood Services Foundation to the Taiwan Blood Services Foundation (TBSF). Upon approval of the Department of Health of the Executive Yuan, the Foundation was registered as a corporate body on October 18, 2004. On April 21, 2008, the name of the Corporate was amended to Medical Corporate Taiwan Blood Services Foundation.

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 Chinese Blood Donation Association to supply more than 99% of blood for medical use in the country. The competent authority is the Department of Health of the Executive Yuan. That the blood services of Taiwan have reached the stage of what they are now owe primarily to the leadership of the government, support of the society, and the hard work of the staff of the Foundation. We shall continue to promote further the goals of happy blood donation and safe blood use to supply blood for medical use and to provide blood donors and recipients with the best possible services.



目的與任務

Goals and Functions

本會以建立無償捐供血制度，辦理捐、供血業務，提高醫療用血品質，保障病患權益，增進國民健康為目的。任務包括：

1. 捐血事業之策劃與執行事項。
2. 捐血制度之建立及用血安全之研究發展事項。
3. 血液科技之研究事項。
4. 各地公私立醫院病患用血之採集、檢驗、與供應事項。
5. 捐血人健康維護研究事項。
6. 不適輸用血液之利用及安全處理事項。
7. 重大災變或戰時大量用血之籌劃供應事項。
8. 國產血漿製劑之委託製造、儲存及供應事項。
9. 其他有關捐供血事項。

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 functions 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 unsuitable 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.



組織架構

Organization

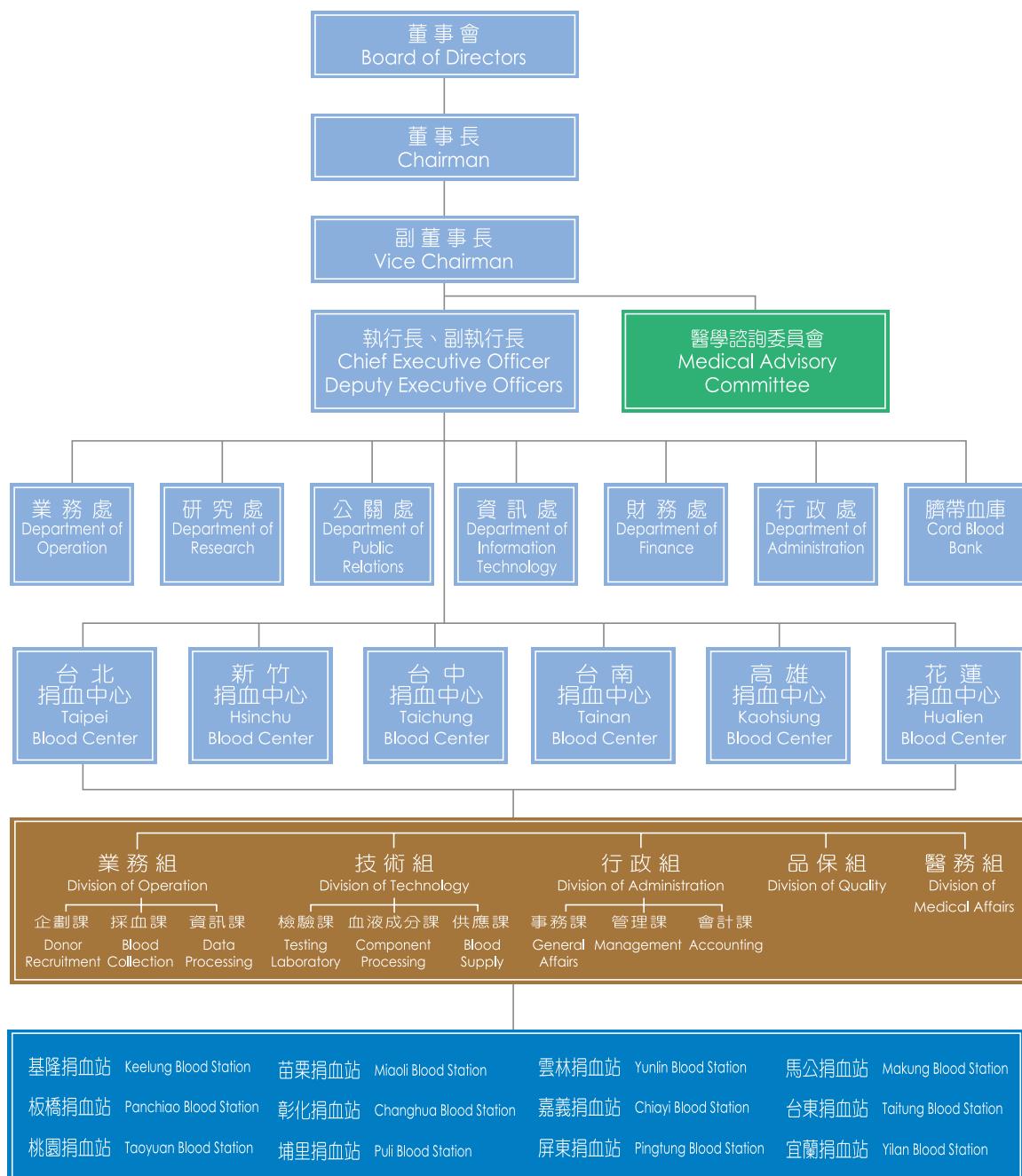
本會設董事會為最高權力機構，由董事13人所組成，均為無給職，任期4年，其中4人由中央衛生主管機關推薦之人選充任之。中央衛生主管機關推薦董事人選，須就醫政、藥政、防疫及血液科技等專業領域推薦適當之代表；本職異動時，應更改推薦人選繼任，至屆滿原任期為止。其餘董事首屆由捐助人遴聘之，後屆董事由前屆董事會選聘，連選得連任。董事互選董事長、副董事長各1人綜理會務，並置執行長1人、副執行長2人，另設有醫學諮詢委員會協助醫療技術有關問題。執行長之下設業務、研究、公關、資訊、財務、行政六處，並在全國適當地點設置台北、新竹、台中、台南、高雄、花蓮6個捐血中心及12個捐血站。

The Board of Directors is the highest authority of the Foundation. The Board has 13 non-salaried members, each for a term of four years. Four of the Board members are recommended by the central competent health authority from appropriate representatives in the professional fields of medical affairs, pharmaceutical affairs, disease control, and blood science and technology. When there is a shift of position of a member, a new member shall be recommended to serve the rest of the term. The rest members of the first Board are appointed by contributors; members of the subsequent Boards are appointed by the previous Board of Directors. They may be re-elected. Members elect among themselves one each Chairman and Vice Chairman to manage the Foundation. A Chief Executive Officer and two Deputy Executive Officers operate the Secretariat, which has six divisions of Business Operation, Research, Public Relations, Information Technology, Finance, and Administration. A Medical Advisory Committee advises on matters concerning medical care. Six blood centers are set up in Taipei, Hsinchu, Taichung, Tainan, Kaohsiung and Hualien. In addition, there are 12 blood stations throughout the country.



組織體系

Organization



第六屆董事會

The 6th Term of the Board of Directors

(民國99年1月至102年12月 / Jan.2010-Dec.2013)

董事長 / Chairman
林國信 Lin, Kuo-Sin

副董事長 / Vice Chairman
胡惠德 Hu, Huey-Te

董事 / Directors
吳伯雄 Wu, Po-Hsiung 侯勝茂 Hou, Sheng-Mou
羅光瑞 Lo, Kwang-Juei 王鏡山 Wang, Ching-Shan
郝維善 Hao, Wei-Shann 戴東原 Tai, Tung-Yuan
楊漢漣 Yang, Han-Chuan 劉麗玲 Liu, Li-Ling
張峰義 Chang, Feng-Yee 王宗曦 Wang, Tsung-Hsi
林四海 Lin, Szu-Hai (101年10月30日接任)

監察人 / Supervisor
李悌元 Li, Ti-Yuan

執行長 / Chief Executive Officer
魏昇堂 Wei, Sheng-Tang (101年7月1日接任)

副執行長 / Deputy Executive Officer
楊炳炘 Yang, Ping-Cin

各捐血中心主任

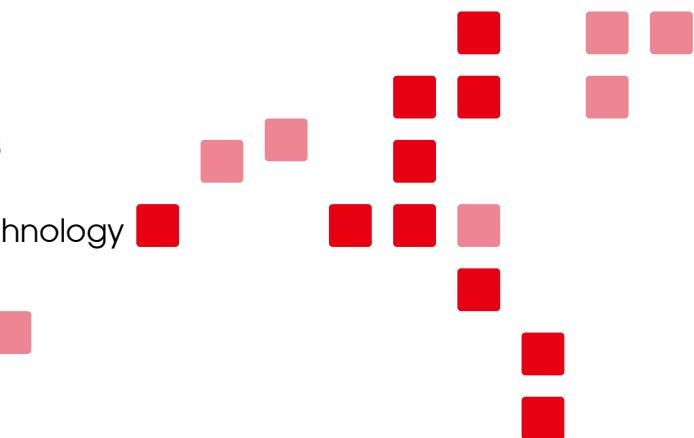
台北捐血中心	/	Director of Taipei Blood Center 洪正昇 Hung, Cheng-Shen
新竹捐血中心	/	Director of Hsinchu Blood Center 楊炳炘 Yang, Ping-Cin
台中捐血中心	/	Director of Taichung Blood Center 林啟靈 Lin, Chi-Ling
台南捐血中心	/	Director of Tainan Blood Center 蔡光昭 Tsai, Kuang-Chao
高雄捐血中心	/	Director of Kaohsiung Blood Center 洪啟民 Hung, Chi-Ming
花蓮捐血中心	/	Director of Hualien Blood Center 王雲龍 Wang, Yun-Lung



業務報告

Program Activities

- 業務 Business Operation
- 研究 Research
- 公關 Public Relations
- 資訊 Information Technology
- 財務 Finance
- 行政 Administration





業務處

BUSINESS OPERATION

捐供血業務

本會101年捐血目標：全血捐血2,307,000單位（250cc /單位）；分離術捐血197,500單位；500ml捐血率達35.2%。實際達成：全血捐血2,333,467單位；分離術捐血221,866單位；500ml捐血率達35.95%，均達成預訂之目標。

101年捐血人口比率為7.89%，仍超越許多先進國家水準；今年捐血總量由於醫院需求量減少，因此較去（100）年負成長1.08%。此外，為提昇血液品質並滿足醫療需求，今年持續推廣製備分離術血小板，年度供應計達219,007單位，佔全部血小板供應量86.1%。其中「減除白血球之分離術血小板」佔分離術血小板供應量21.01%，較去年成長7.7%。

歐、美、日等先進國家為防止輸血感染疾病、減低輸血不良反應、增進病人福祉及提高血液品質，已陸續實施血品之全面儲存前減除白血球措施。該類血品較醫院自行於病床邊製備方式有降低輸血不良反應之優點。本會目前減除白血球血品供應包括減白紅血球濃厚液及減白分離術血小板，為近年本會積極推廣之重點，也陸續獲多所公私立醫療院所輸用。

國人血液製劑—「國血製劑益康」

血液製劑如白蛋白、免疫球蛋白、第八凝血因子、第九凝血因子等，為許多醫院一般病患或特殊病患如血友病等所必需，但國內歷來幾乎完全仰賴外國進口。本會為配合政

府「國血國用」衛生政策，紓解國內血液製劑短缺窘境，所屬捐血中心自96年1月起開始收集血漿原料。所收集之血漿原料分批運至澳洲CSL血漿工廠加工製成血液製劑。96年度運至澳洲CSL血漿原料量合計30,385.3公斤；97年度合計31,055.5公斤；98年度合計41,646.1公斤；99年度合計10,350.6公斤。製成四種「國血製劑益康」血液製劑：包括20%人血清白蛋白注射劑、人類免疫球蛋白靜脈注射劑、250IU第八凝血因子注射劑及500IU第九凝血因子注射劑。其中「國血製劑益康」人類免疫球蛋白靜脈注射劑為目前國內唯一之供應來源，並且已達到百分之百自給自足，持續供應國內醫療院所病患輸用並為國人健康挹注心力。

另外，本會基於人道救援立場並妥善運用寶貴的醫療資源，於101年8月將國血製劑第八凝血因子3,820瓶捐贈給世界血友病聯盟（World Federation of Hemophilia）並轉贈其他國家，捐血人的愛心不僅嘉惠國人也廣及世界。

加強血液安全，防範輸血感染

- 為加強捐血前篩檢並杜絕HIV輸血後感染案例發生，本會今年持續推動「減少HIV捐入專案」。各捐血中心於各捐血場所利用宣傳短片及海報宣導。今年特別參考衛生署疾病管制局海報製作「請捐血人切勿藉由捐血途徑以達檢驗目的」宣導海報，以提醒高危險群切勿捐血。此外，各捐血



中心、捐血站、捐血室、及捐血車均設置「私密性面談空間」，讓捐血人在隱密環境下，能誠實回答問卷及相關問題。另外，各捐血中心也聘請專業講師講授「如何提昇血液安全」教育訓練，以增進採血人員面談篩檢技巧。另更新「良心回電」單張及製作海報，主動提供愛滋病匿名篩檢醫院資訊，呼籲捐血人勿利用捐血途徑進行愛滋病篩檢。經統計，101年所有捐血者中愛滋病毒（HIV）陽性率達十萬分之3.76，為過去4年來最低；顯見減少高危險捐血者捐入相關措施獲得成效。

- 為提昇病患用血品質，減少輸血引起之不良反應，本會各捐血中心今年持續加強「儲存前減除白血球血品」之製備，及宣導本會各捐血中心均依照GMP標準製備血品及品管，如能多加利用減白血品將有助於減輕醫院醫護人員輸血工作負擔及訓練、耗材管理等。
- 為加強面談人員面談技巧及實務訓練，今年持續邀請專家辦理各捐血中心「採血面談作業教育訓練」課程，並進行神秘客稽核調查，落實面談作業並減少高危險族群捐入。



國泰人壽舉辦捐血活動

Current Status of Blood Collection and Supply

2012 blood donation targets: Whole blood donation 2,307,000 units (250cc/unit); aphaeresis donation 197,500 units; 500ml donation 35.2%. Actual donation: Whole blood donation 2,333,467 units; aphaeresis donation 221,866 units; 500ml donation 35.95%. All targets met for the year.

The blood donation rate per population in 2012 was 7.89%, which was still way ahead of many developed countries; due to the decreased hospital demands in 2012, blood donations were less than 2011 and resulted with a negative growth of 1.08%. Moreover, to improve the quality of blood and satisfy medical needs, the blood centers of the TBSF continued to strengthen the preparation of pre-stored aphaeresis platelets with the annual distribution of 219,007 units, which accounted for 86.1% of total platelets supply. Of the 219,007 units, Leukocyte-reduced Aphaeresis Platelets amounted for 21.01% of the aphaeresis platelets; showing a 7.7% growth from 2010.

The pre-storage prepared Leukocyte-reduced blood components had been widely used in most developed countries such as Japan, America, and Europe--to reduce adverse reactions of blood transfusion and improve blood quality. The advantage is especially significant compared to bed-side preparation by hospitals in reducing adverse reactions of blood transfusion. Our Leukocyte-reduced products supply includes Leukocyte-reduced red blood cells and Leukocyte-Reduced Aphaeresis Platelets; both are our highly promoted focus for the recent years, and have been increasingly used by numerous public and private hospitals.

Blood Plasma Derived Products from Domestic Blood

Blood preparations such as Human Albumin, Immunoglobulin, Coagulation Factor VIII, and Coagulation Factor IX are essential to many patients in hospitals, such as hemophilia patients. Yet, for many years, almost all of them have been imported. To comply with the "Domestic Blood For Domestic Use" policy of the government health policy, and to help lessen the shortage of blood products in the country, TBSF had started in January 2007 to collect source plasma. The source plasma collected is commissioned by batch for forwarding to the Bioplasma Division of the Australian CSL Limited for the manufacturing of various plasma products. A total of 30,385.3 kg in 2007, 31,055.5 kg in 2008, 41,646.1 kg in 2009, and 10,350.6 kg in 2010 of plasma had been shipped to the Australian CSL. The source plasma are manufactured into four blood plasma products: 20% Human Albumin solutions, Human Immunoglobulin for intravenous use, 250 IU Coagulation Factor VIII injection, and 500 IU Coagulation Factor IX injection for supply to medical care institutions. Currently TBSF's Immunoglobulin was the only source of supply in Taiwan, which had already reached the goal of 100% self-sufficiency.

Furthermore, based on the humanitarian aids purpose and to effectively utilize the valuable medical resources, TBSF had donated 3,820 vials of Coagulation Factor VIII injection through the World Federation of Hemophilia in August 2012, to benefit other countries in need.



Strengthening of Blood Safety for Prevention of Post-Transfusional Infections

- To strengthen the donor interview screening before blood donation to stop the occurrence of HIV infection through blood transfusion--TBSF continued in 2011 to promote the "Minimizing HIV Blood Donation" project. The blood centers used educational videos and posters to remind people of high-risk groups to refrain from donating blood. A "private interview space" was set up in each blood center, blood station and mobile van to allow donors to respond honestly in a private environment to the interview and relevant questions. Experts have also been invited to conduct on-job training on the improvement of blood safety, and to improve the skills of workers in screening and interviewing the high-risk groups. In addition, contents of the "Conscientious Call-back" leaflet have been revised periodically. On the back-page of the leaflet, names and addresses of hospitals commissioned by the Department of Health for anonymous screening of AIDS are listed and provided. Blood donors are urged not to use blood donation as a means for screening AIDS. The ratio of HIV positive among donation was 3.76 per hundred thousand donations, which reached the lowest in the last 4 years. It's apparently a great achievement and proves the effectiveness of our efforts.
- To increase the quality of blood and reduce transfusion adverse reaction, our blood centers continued to promote the use of pre-stored Leukocyte-reduced blood components and increase the inventory which completely fulfills the requirements of the GMP standard. Furthermore, through this practice from blood centers, hospitals can reduce training cost and work load.

- To strengthen the technique and practical training of interviewers, in 2011, training programs on blood collection interview had been extensively conducted by specialists; auditing and investigation by mysterious customers had been conducted to analyze the interviewing practice to reduce donations from the high-risk groups.



孫越熱血薪火傳外孫



研究處

RESEARCH

食品藥物管理局GMP評鑑

食品藥物管理局針對本會製備血漿原料之5個捐血中心於100年9月21日至12月9日進行GMP評鑑。稽核人員依藥事法、捐血機構設置標準、捐血者健康標準、血漿原料製備作業查核要點及PIC/S GMP等法規對捐血中心、捐血站、捐血室及捐血車進行稽核，並陸續於101年4月至7月間取得GMP評鑑通過。

醫學實驗室認證

台北捐血中心、高雄捐血中心檢驗課及會本部諮詢實驗室，分別於101年3至5月通過全國認證基金會（TAF）認證。

落實ISO品質保證制度

本會暨各捐血中心於90年10月通過ISO 9001認證。各捐血中心各項血液作業均依據作業手冊嚴格執行，並利用網路系統進行SOP的新增、修訂、簽核、發行、審查、閱讀等。此外，每年執行2次業務督導訪查；1次內部稽核及2次管理審查會議，落實品保制度。

提升血液安全、強化檢驗品質

為有效縮短檢驗空窗期、降低輸血感染之風險，本會於99年7月起階段性執行病毒核酸擴大試驗（NAT），至100年12月底前共完成篩檢774,384捐血人次。101年11月29日衛生署正式通過由健保財務支付NAT篩檢費用，本會亦積極籌備所有檢驗作業，於102年1月16日正式執行全面常規NAT篩檢，以提升輸血安全。

為強化檢驗品質達到國際水準，各捐血中心持續參加國內外之品管調查，包括：台灣醫檢學會、美國病理學會（CAP）、澳洲國家血清實驗室（EQAS）、美國組織相容免疫基因協會（ASHI）之精確度調查，其一致性均獲得肯定與認可。

安全、自動化的血液檢驗作業

本會各捐血中心血液檢驗集中於台北、高雄捐血中心二地進行，每日檢驗作業量高達6,000人次。全面採用自動化檢驗設備，包括：Tecan Genesis RMP、PK7300、AU2700、VITROS ECI、Abbott AxSYM、CHIRON TIGRIS System等先進儀器，並依據標準作業程序進行各項病毒、血型、梅毒及生化等檢驗；檢驗結果以專屬網路系統傳送至各捐血中心，以達到快速、精確、安全之目的，為血液安全做最嚴格的把關。

強化血液諮詢實驗室

血液諮詢實驗室自成立以來，協助國內醫療機構處理輸血相關臨床檢驗問題，也持續提供臨床醫療機構輸血安全相關的教育訓練，以確保國內的輸血安全作業。此外，隨著人口老化及外來人口的增加，稀有及特殊組合血型的需求亦不斷增加，建置台灣稀有血型庫實為當務之急。本年度持續進行捐血者紅血球抗原建檔作業，目前各捐血中心共有四萬多位Rh D陰性及五百多位稀有血型的捐血者資料，隨時提供病患特殊血品的需求。



推動血液科技研究

為推動血液科技研究發展，本會各捐血中心101年度執行之研究計畫有：「儲存時間對洗滌血小板品質之影響」、「紅血球血品庫存管理與血品供應效期分析」、「首次捐血者血紅素不足被暫緩捐血者回捐率之分析」、「中台灣捐血人回捐行為之研究」、「分離術捐血者服用鐵劑對鐵蛋白的變化探討」、「長期分離術捐血者體內血清蛋白質、紅血球流失探討」、「環境溫控下隔夜製備冷凍沉澱品活性探討」、「捐血者異體抗體產生之分析探討」、「分離術血小板sCD40L檢測方法與TRALI之相關性研究」、「血液運送及分離、儲存過程中血漿游離血紅素及鉀離子的變化」、「儲存於不含DEHP塑化劑血袋之血小板功能分析」等。

加強研究計畫倫理審查作業

為落實受試者保護並強化研究計畫之倫理審查，本會於97年1月成立「倫理委員會」，99年8月通過行政院衛生署認證。委員並於101年8月10日至本會進行「101年度人體研究倫理審查會不定時追蹤查核」；11月16日召開研究計畫「研究倫理」實質審查會議，對於本會年度血液科技研究計畫進行審查，並不定時地進行研究計畫期中報告及結案報告之追蹤審查。



德國青年公務人員聯盟巴伐利亞邦分會前往成功嶺替代役訓練班參觀捐血活動

Assessment by Taiwan FDA

Taiwan Food and Drug Administration conducted assessment, during September through December 2011, on the blood centers, donor rooms and mobile collecting sites of TBSF that collect plasma for further manufacturing. The assessment was carried out for the procedures in collection, preparation, testing and storage of plasma for further manufacturing. The assessment was completed and TBSF was found in compliance with GMP requirements.

Accreditation by TAF

The laboratories in TBSF Head Office, Taipei Blood Center, and Kaohsiung Blood Center had been certified by Taiwan Accreditation Foundation (TAF) in the field of medical testing in 2012.

Accreditation by ISO

TBSF has achieved ISO 9001 accreditation since 2001. Procedures for blood collection and preparation were executed with strict observance to operation manual. An internal network system is used in the control of documents within TBSF. Internal audit and management review are held each year to guarantee the quality assurance system.

Blood Safety

To minimize risks of infections through blood transfusion, we have implemented NAT testing for selective donations since 2010. On the end of 2012, Taiwan Department Of Health passed the required procedures to cover NAT expense through the budget of National Health Insurance. NAT was introduced as a routine for donation screening since January 2013.

Laboratory Testing

The blood tastings, ABO and infectious diseases, are performed at Taipei and Kaohsiung blood centers with the testing capacity of 6,000 specimens per day. Fully automated instruments, such as Tecan Genesis RMP, PK7300, AU2700, VITROS ECi, Abbott AxSYM, and CHIRON TIGRIS, are used to detect transfusion-transmitted viruses, syphilis, ABO/RhD blood types and biochemical testing. Testing results are transferred to each blood centers through an internal web system for final labeling of blood and blood components.

To ensure the accuracy of lab testing, we has actively taken part in proficiency programs including those provided by College of American Pathologists (USA), American Society for Histocompatibility and Immunogenetics (USA), National Serology Reference Laboratory (Australia), and those by Taiwan Society of Laboratory Medicine as well. The consistency of our laboratory testing has met the approval standards.

Reference Laboratory

The reference laboratory, since its establishment, has assisted hospitals in solving clinical problems associated with blood transfusion and provided education related to blood safety. Since the aging of donor population and the increase of immigrants, demands for rare bloods are increased. In this year, work continued to detect donors for RBC antigens. Currently, we have maintain over 40,000 RhD negative donors and 500 rare blood donors to meet clinical demands for rare bloods.



Research Activities

In 2012, we have conducted the following studies.

1. Quality of washed platelets after storage
2. Inventory management for Red Cells
3. Analysis of low-Hb donor deferral and subsequent donation of these donors
4. Analysis of donors' behavior in frequent donation
5. Change of serum ferritin in apheresis donors with iron supplement
6. Change of serum protein and loss of red cells in frequent apheresis donors
7. Coagulation activity in cryoprecipitate prepared from FP24
8. Study on red cell alloantibodies in blood donors
9. Study on soluble CD40 ligand and their correlation with TRALI
10. Change in plasma Hb and K⁺ during preparation and storage of blood and blood components
11. Change in function of platelets stored in DEHP-free container



捐血人陳瑩珊一家五位都是O型Rh陰性血型

Institutional Reviewing Board (IRB)

To protect the study subjects and to strengthen the ethical review of research projects, TBSF established Institutional Reviewing Board (IRB) in 2008. Annually, the study projects carried out within TBSF are submitted to the Board for ethical review. In 2010 and 2012, TBSF's IRB was inspected by DOH for compliance with current regulation.



公關處

PUBLIC RELATIONS

捐血一袋袋 愛心一代代

今（101）年全國「捐血月」活動，其主題為「捐血一袋袋 愛心一代代」。於100年12月20日舉辦啟動記者會，會中除了鼓勵國人定期捐血救人外；也邀請內政部役政署長郭清泉與2位替代役男一同參與盛會。役政署自民國97年起持續推動「有情有役，替代役百萬西西捐血活動」，累計至101年，捐血量已高達962萬餘西西，成效卓著。此外，記者會中也邀請「捐血家庭」共襄盛舉，說明捐血傳承的意義與重要性，同時也呼籲更多人加入捐血大家庭，當個快樂捐血人。今年捐血月期間，中華捐血運動協會也製作精美「緹花布手提袋」贈送熱心捐血朋友。

此外，為彰顯捐血傳承的精神，本會舉辦「大手牽小手，首捐族一起來」活動，歡迎捐血人邀請家中「首捐族」獻出第一袋熱血，並留下「親子捐血留影」的珍貴合照。其中，曾擔任捐血代言人孫越先生在雙胞胎外孫滿17歲的生日當天，由外公見證，共同捐出人生的第一袋熱血；孫叔叔表示，可以捐血救人代表他們已長大成人，為捐血傳承的最佳典範。同時，為鼓勵熱血的網友們加入定期捐血的行列，本會i-Blood（愛捐血）網站配合捐血月主題舉辦捐血照片上傳活動；只要在期間內將捐血照片上傳成功者，即可獲得捐血「幸福御守」乙枚，共有258位熱情捐血人共襄義舉。

捐血真英雄 愛在最高點

今年6月14日「世界捐血人日」的主題是「Every Blood Donor is a Hero 捐血真英雄」。因適逢建國101年，特別選在台灣的地標101大樓舉辦捐血宣導活動，同時與101金融大樓共同舉辦「捐血真英雄 愛在最高點」記者會。會中邀請10+1位捐血達到101次捐血人參與盛會，期望這些默默奉獻的「捐血真英雄」能在台灣最高點，登高一呼，帶動社會向善的力量。

當天，本會特別致贈紀念牌給定期舉辦全國性捐血活動超過10年以上之企業社團，包括：中華郵政股份有限公司、國際佛光會中華總會、新光人壽股份有限公司等；同時也致贈紀念牌給當天捐血達到101次的捐血人。



新光人壽保險公司協理壽以祥獲頒感謝牌



熱情奉獻 讓愛不間斷

長久以來，社團及企業均大力支持捐血事業並積極辦理各項捐血活動。今年全國性社團及醫療機構共捐得血液748,352單位，佔總捐血量的29.29%，詳如下表：

單位	台北 捐血中心	新竹 捐血中心	台中 捐血中心	台南 捐血中心	高雄 捐血中心	花蓮 捐血中心	合計
國際獅子會	143,653	78,928	126,064	20,815	18,437	11,452	399,349
國際同濟會	26,835	15,324	56,679	7,253	2,569	3,108	111,768
國軍部隊	12,861	11,906	14,947	30,793	15,258	7,385	93,150
國際扶輪社	9,910	2,686	8,398	16,258	22,384	5,400	65,036
國際佛光會 中華總會	18,900	7,180	13,239	10,013	11,334	2,921	63,587
醫療院所	2,145	204	4,876	4,803	1,688	1,746	15,462
合計	214,304	116,228	224,203	89,935	71,670	32,012	748,352

此外，各企業機構亦定期舉辦全國性大型捐血活動，嘉惠用血病患。今年全國性捐血活動如下：（按活動日期排列）

- 群益集團：舉辦「群起獻愛心 热血傳公益」活動，共捐得血液1,967單位（每單位250西西）。
- 新光集團：舉辦「捐血 讓我們分享幸福」活動，共捐得血液1,064單位。
- 富邦慈善基金會：舉辦「熱心捐血 热捐愛」活動，共捐得血液7,493單位。
- 中華郵政公司：舉辦「寒冬送暖熱血情 郵政壽險捐血月」活動，共捐得血液24,800單位。
- 中華民國青年創業協會總會：舉辦「創業熱血大募集」活動，共捐得血液4,059單位。
- 南山人壽慈善基金會：舉辦「2012年南山捐血月」活動，共捐得血液12,594單位。
- 國際生命線台灣總會：舉辦「101年全國生命線日」愛心活動，共捐得血液2,057單位。
- 國泰公益集團：舉辦「2012年國泰夏日捐血」活動，共捐得血液11,833單位。
- 和泰汽車股份有限公司：舉辦「和泰全國捐血月」活動，共捐得血液4,843單位。
- 青年發展基金會：舉辦「2012年青年捐血月」活動，共捐得血液10,365單位。
- 國華人壽股份有限公司：舉辦「熱血一袋 讓愛傳遞」活動，共捐得血液4,936單位。
- 逢甲大學校友會：舉辦全國校友會捐血活動，共捐得血液2,316單位。

社團企業 回饋社會

歷年來，社團、企業與民間團體出錢又出力，除了辦理各項捐血活動外，更熱心捐贈各項物資。今年各捐血中心共募得大型捐血車7輛、血液運送車2輛、行政宣傳車1輛、空血袋共100,744個。

值得一提的是，和泰汽車股份有限公司已連續2年，分別捐贈大型捐血車給台南捐血中心（和泰號）與台中捐血中心（和泰2號）。賴樹旺社會福利慈善事業基金會與國際獅子會合贈大型捐血車乙輛；另外捐贈行政宣傳車乙輛給台中捐血中心。詳如下表：

項目 中心別	空血袋 (個)	大型 捐血車	血 液 運送車	行 政 宣稱車
台北捐血中心	66,998			
台中捐血中心	27,229	2 輛		1 輛
台南捐血中心	1,321	4 輛	1 輛	
高雄捐血中心	3,936	1 輛		
花蓮捐血中心	1,260		1 輛	

捐血救人 績優表揚

今年各捐血中心的捐血績優表揚大會分別於4~5月間於轄區內舉辦。今年接受表揚的學校計有113所獲頒教育部獎狀；社團機構共有336個單位獲頒內政部獎狀；國軍部隊共有45個單位獲頒國防部獎狀；另有128個單位或個人榮獲本會特殊貢獻績優狀。

個人績優表揚：捐全血100~410次有4,900人；分離術捐血100~1,500次有5,164人。其中分離術捐血達500次（含）以上；男性捐全血達150次（含）以上、女性捐全血100次（含）以上的績優捐血者共349位（全血198位；分離術捐血151位）除獲頒行政院衛生署獎狀外；並由中華捐血運動協會分別致贈榮譽紀念章乙枚。

各捐血中心表揚大會時間、地點如下：

- 台北捐血中心 4月19日/新北市政府多功能集會堂
- 新竹捐血中心 5月18日/新竹市國賓飯店國際會議廳
- 台中捐血中心 4月22日/台中東海大學中正紀念堂
- 台南捐血中心 4月26日/臺南市生活美學館演藝廳
- 高雄捐血中心 4月28日/高雄國立海洋科技大學國際會議廳
- 花蓮捐血中心 5月9日/宜蘭市龍園會館

100年度績優捐血人代表晉見總統活動於12月14日在總統府舉行。值得一提的是，今年晉見代表中有一位視障捐血人，她捐全血133次，已連續捐血20多年；她表示捐血是她回饋社會的唯一管道。今年榮獲晉見總統的績優捐血代表計有：倪章茂、蔡宗霖、卓泰山、段偉宇、張永森、陳羽山、陳佳炳、李保麟、賴廷彰、喻家貞(視障)、鄧秋芳、黃永吉、范寶蓮、溫瑞全、林品宏、楊澤銘、陳惠堅、許瑞欽、張稚慧、陳文堂、劉明政、鍾明宏、林琮普、吳耀義、柯清誥、張編顯、黃建勳、楊煌川、黃惠玲、邱文雄、連永輝、李東林、洪清泉、徐學榮、張明杰、黃淑珍、鄭義豐、廖慧文等共38位。

滿意度調查 服務再提升

101年「捐血服務需求及滿意度調查」於10月15日至11月5日在各捐血中心捐血點展開。本次是針對「分離術捐血人」進行問卷調查；總計回收問卷6,643份。經統計分析後，主要的結論為：（1）「捐血環境舒適度」與「服務人員親切度」之滿意度最高（2）「捐血環境整潔舒適」與「採血人員扎針技術」的重要性最高（3）「捐血地點」配置上的改善可以提高民眾捐血意願（4）多數分離術捐血者，其捐血目的是為了幫助病患（5）捐血服務的滿意度高達九成七；另外，針對「捐血地點是否便利」乙項仍有顯著改善空間。

調查結果顯示，捐血者對「捐血環境整潔舒適」、「面談清楚詢問與尊重隱私」及「面談人員態度與面談技巧」均獲99%以上的滿意度；捐血者認為重要的項目分別為「採血人員扎針技術」、「捐血環境整潔舒適」與「工作人員態度與關心狀況」等項目。

加強交流 蹟身國際

本會於101年7月19日與中國紅十字會總會簽署「醫療財團法人台灣血液基金會與中國紅十字會總會交流備忘錄」，並於7月31日函報行政院衛生署准予備查。

台灣捐血事業經多年努力，成果優異，並吸引中國大陸及蒙古國的醫事人員來台學習交流。今年共有蒙古國國家輸血中心主任Tserendejid Magvansuren及Nomingerel Lantuu 2位前往台北捐血中心；江蘇省血液中心業務科長應侃及蘇州市中心血站湯龍海醫師分別至高雄、台北捐血中心見習，並針對捐血人召募、篩選、血液採集、檢驗、成分血製作、供應及人事管理等項目進行交流學習。

此外，為精進血液科技，本會積極參與各項國際會議，吸取相關新知。今年參加之國際會議如下：

- 第32屆國際輸血學會（ISBT）國際會議，於7月5日至12日在墨西哥坎昆市舉行。本次會議由本會董事長林國信率團，團員有楊副執行長、台北捐血中心洪主任、台南捐



血中心蔡主任、高雄捐血中心洪主任、本會研究處陳技正、台北捐血中心技術組洪組長及品保組黎組長、高雄捐血中心成分課盧課長等。

- 第65屆美國血庫協會（AABB）國際年會於10月4日至12日在美國波士頓舉行。本次會議由魏執行長率團，團員有台中捐血中心林主任、花蓮捐血中心王主任、台北捐血中心楊技正、新竹捐血中心張技士及高雄捐血中心王技士等。會後並參訪位於羅德島的血液中心（由美國FDA管轄並經AABB、ASHI、CLIA、NMD等單位認證的非營利社區血液中心），並瞭解其捐供血的作業情形。
- 亞太血液連線（APBN）2012年會，於7月3至4日在墨西哥坎昆市舉辦，由楊副執行長代表參加。
- 本會公關處叢處長於11月7日至9日應中國輸血協會邀請，前往廣州市參加「中國輸血協會第6屆輸血大會」，並專題演講「台灣的無償獻血招募和管理」。
- 本會公關處叢處長與台南捐血中心業務組張組長受邀參加IFRC（International Federation of Red Cross）第10屆亞洲地區自願無償捐血者召募研討會；研討會於12月3日至6日在尼泊爾加德滿都市舉行。

志工服務 傳遞愛心

各捐血中心志工積極參與捐血宣導及服務捐血人事務，服務成果受到肯定。一年來各中心志工榮獲獎項如下：

台北捐血中心：呂紹旭、高振杰榮獲台北市政府社會局頒發「台北市志願服務貢獻獎」。

新竹捐血中心：楊銘仙獲頒「101年度新竹縣志願服務人員金質獎」；吳玉蘭獲頒「101年度新竹縣志願服務人員榮譽獎」。

台中捐血中心：蘇芳霈獲頒「第十二屆保德信青少年志工菁英獎」。

台南捐血中心：楊美玲分別榮獲「雲林縣101年度地方衛生保健績優志工金質獎」及「雲林縣101年度績優志工金質獎」；羅素真、廖重坤、鄭文淵等3位獲頒「嘉義市志願服務績優志工銅質獎」；林居樹獲頒「內政部志工服務績優志工銀質獎」；劉志誠、張祐綸等榮獲「臺南市志願服務績優志工銅質獎」。

高雄捐血中心：任志鴻獲頒「行政院衛生署101年度全國衛生保健績優志工德馨獎」；林正忠、李淑花、林永川等獲頒「高雄市志願服務金質徽章」；陳惠芬等6位獲頒「高雄市志願服務銀質徽章」；陳涵宣等11位獲頒「高雄市志願服務銅質徽章」；高雄捐血中心志工團榮獲「101年度高雄市衛生保健志願服務業務考評甲等獎」。

花蓮捐血中心：游勝雄獲頒「行政院衛生署101年度全國衛生保健績優志工愛馨獎」；洪明和獲頒「內政部101年度全國績優志工金牌獎」；廖慧文獲頒「內政部101年度全國績優志工銅牌獎」。

近年來，為使捐血觀念向下扎根並鼓勵年輕人捐血，各捐血中心特別與大專院校配合召募「學生意工」。利用課餘閒暇擔任捐血大使，並於校園捐血或大型活動時協助宣導正確的捐血觀念，同時也鼓勵年青族群加入服務行列。

網路行銷 無遠弗屆

網路行銷是未來的趨勢也是宣傳的主力。近年來，本會鼓勵捐血人以電子郵件收取檢驗報告，不僅省時也更環保；捐血人也可透過本會的網站查詢捐血地點及相關資訊。此外，本會官網也提供查詢各種疫區限制及藥物、手術等相關規定；各捐血中心也會提供

地區性最新的活動訊息並鼓勵民眾參與。同時，i-Blood（愛捐血）網站也提供「血液小百科」及兒童版網站，以活潑雙向溝通的方式與捐血人交流。

除了官方網站外，本會各捐血中心也有臉書（FB）粉絲專頁，提供FB朋友獲得最新訊息。捐血，不只是單向的付出，藉著網路也可以分享更多關懷與愛！目前各捐血中心粉絲（Fans）人數：台北中心32,276人；新竹中心11,240人；台中中心9,727人；台南中心10,809人；高雄中心5,124人；花蓮中心950人。



陸軍第十軍團指揮官趙中將(前排右5)為捐血弟兄加油打氣



Blood Donation-- Bags of Love From Generations

The theme for the Blood Donation Month of the year was "Blood Donation-Bags of Love From Generations". A press conference to initiate the Blood Donation Month was held on December 20, 2011 to encourage people to regularly donate blood; the Registration and Conscription Director of the Ministry of the Interior Guo Chin Chuan along with two military alternative service personnel were also invited to join the event. Since 2008, The Conscription Agency continued to promote the "Serve Enthusiastically, Million cc of Blood From the Military Alternative Services" campaign, cumulative to 2012, the blood donation amounted to an outstanding result of more than 962 million cc. In addition, the "Blood Donation Family" was also invited to the press conference to join the festivities and explain the significance and the importance of blood donation heritage, also called for more people to join the Blood Donation Family, and become a happy blood donor. During this year's blood donation month, the Chinese Blood Donation Association made exquisite jacquard bags as souvenir gifts for our fellow enthusiastic blood donors.

In addition, to highlight the spirit of donated blood heritage, the Council held "Big Hands Holding Little Hands, First Time Donor Family Come Together" activities to invite first time donors from families to donate their first bag of blood, and take precious "parent-child blood donation" pictures. As a member of the Donor Family, served as the the blood donation spokesperson, Mr. Sun Yue witnessed his twin grandsons donating their first bag of blood with him on their 17th birthday; uncle Sun (Mr. Sun Yue) stated that by the twins donating blood proves that they have grown up, which was the best example of passing on the blood donation heritage. At the same time, to encourage netizens to fall in the ranks as regular blood donors, there will be an i-Blood (the love blood donation) website hosting monthly blood-donating photo upload events; a blessing lucky charm is given to anyone successfully uploading a blood donation picture within the event period. A total of 258 passionate blood donors had participated.

True Heroes Donate Blood; Show Your Fullest Love

On June 14 this year, the theme of the World Blood Day was "Every Blood Donor Is A Hero". To coincide with Taiwan's 101st independence anniversary year, the blood donation advocacy campaign was held at Taiwan's landmark--The Taipei 101. A joint press conference was held with The Taipei 101 to promote the "True Heroes Donate Blood, Show Your Fullest Love" campaign. 101 donors who had donated blood 101 times were invited to participate in the event-- in hopes of these quietly dedicated "Blood Donating True Heroes" can stand on the highest point in Taiwan, call out and lead the community to perform good deeds.

On the campaign day, we have presented a commemorative plaque to organizations that had organized regular nation-wide blood donation events for more than 10 years, including: The Chunghwa Post Co., Ltd., the Buddha's Light International Association, Shin Kong Life Insurance Co., Ltd.; also presented a commemorative plaque to 101 donors that had donated blood for 101 times.



和泰全國捐血月--海報

Enthusiastic Dedication To Sustain Love

For years, community organizations and businesses have been vigorously supporting blood donation deeds and actively conducting various blood donations. This year, a total of 748,352 units of blood had been collected by these groups, which accounted for 29.29% of the total blood collected. They are as followed:

Organization	Taipei	Hsinchu	Taichung	Tainan	Kaohsiung	Hualien	Total
The Lions	143,653	78,928	126,064	20,815	18,437	11,452	399,349
The Kiwanis	26,835	15,324	56,679	7,253	2,569	3,108	111,768
The Armed Forces	12,861	11,906	14,947	30,793	15,258	7,385	93,150
The Rotary	9,910	2,686	8,398	16,258	22,384	5,400	65,036
The Buddha International	18,900	7,180	13,239	10,013	11,334	2,921	63,587
Medical Care Institutions	2,145	204	4,876	4,803	1,688	1,746	15,462
Total	214,304	116,228	224,203	89,935	71,670	32,012	748,352

In addition, enterprise and institutions held regularly large-scale national blood donation campaigns to help patients in need of blood. Some major campaigns were as followed (listed by activity date):

1. The Capital Group: had collected 1,967 units of blood. (250 cc per unit).
2. The Shin Kong Groups: had collected 1,064 units of blood.
3. The Fubon Charity Foundation: had collected 7,493 units of blood.
4. The Chunghwa Post: had collected 24,800 units of blood.
5. The Youth Career Development Association Headquarters R. O.C.: had collected 4,059 units of blood.
6. Nan Shan Life Charity Foundation: had collected 1,064 units of blood.
7. The Taiwan Lifeline International: had collected 2,057 units of blood.
8. The Cathay Charity Foundation: had collected 11,833 units of blood.
9. The Hotai Motor Co., Ltd.: had collected 4,843 units of blood.
10. The Youth Development Foundation: had collected 10,365 units of blood.
11. The Kuo Hua Life Insurance Co., Ltd.: had collected 4,936 units of blood.
12. Feng Chia Alumni Association: had collected 1,064 units of blood.

Organizations and Enterprises Paying Back to the Community

Over the years, organizations, enterprises, and non-governmental organizations have been donating money, efforts, and supplies in addition to conducting various blood donation drives. The blood donor centers this year had raised a total of seven large bloodmobiles, two blood transport trucks, one publicity vehicle, and 100,733 empty blood bags.

It is worth mentioning that the Hotai Automobile Co., Ltd. has donated one large bloodmobile to the Tainan Blood Donation Center (HoTai) and the Taichung Blood Donation Center (HoTai 2) for the past two consecutive years. The Lai Shu Wong Social Welfare Charity Foundation teamed up with the Lions Club International to donate one large bloodmobile vehicle; one publicity vehicle was donated to the Taichung Blood Donation Center. Details are as followed:

Item Blood Center	Blood Bags (piece)	Large Bloodmobiles	Blood Transport Trucks	Publicity Vehicle
Taipei	66,998			
Taichung	27,229	2 vans		1 van
Tainan	1,321	4 vans	1 van	
Kaohsiung	3,936	1 van		
Hualien	1,260		1 van	



Blood Donation Outstanding Merit Recognition

This year, each Blood Donation Center held their outstanding merit recognition ceremony between April and May within their respective regions. There were 113 schools receiving the recognition this year, and were awarded certificates from the Ministry of Education; community organizations have a total of 336 units, and were awarded certificates from the Ministry of the Interior; the National Army has a total of 45 units, and was awarded from the Department of Defense; another 128 units or individuals received outstanding contribution recognition certificates from our organization.

Personal outstanding merit recognition: 4,900 people to donate whole blood from 100 to 410 times; apheresis blood donation from 100 to 1,500 times were 5,164 people. Of which, apheresis blood donation was above 500 times; male whole blood donation above 150 times, female whole blood donation above 100 times, the above mentioned outstanding donors were 349 (198 whole blood; apheresis blood donation 151) not only did they receive a recognition certificate from the Department of Health, they were also awarded an honorary medal by the Chinese Blood Donation Association.

Ceremonies took place at the following times and locations:

- The Taipei Blood Center on April 19th/New Taipei City Multi-Functional Hall 3rd floor
- The Hsinchu Blood Center on May 18th/Hsinchu Ambassador Hotel International Meeting Hall 10th floor
- The Taichung Blood Center on April 22nd/Taichung Tunhai University Chiang Kai Shek Memorial Hall
- The Tainan Blood Center on April 26th/National Tainan Living Art Center Auditorium
- The Kaohsiung Blood Center on April 28th/National Kaohsiung Marine University International Meeting Hall
- The Hualien Blood Center on April 9th/Yilan City Dragon Garden

The 2011 annual outstanding blood donor representatives met with the president on December 14th at the Presidential Palace. It is worth mentioning that one of the representatives this year was a visually impaired blood donor. She has donated whole blood 133 times and have been donating blood for 20 consecutive years; she stated that blood donation is the only avenue for her to give back to the community. The outstanding blood donor representatives that met with the president at the presidential palace were: Ni Chung Mao, Tsai Tsong Ling, Chuo Tai Shan, Duan Wei Yu, Chang Yung Sen, Chen Yu Shan, Chen Chia Hsieh, Lee Bao Ling, Lai Ting Chung, Yu Chia Jen (visually impaired), Deng Cho Fung, Huang Yung Ji, Fan Bao Lian, Wen Rei Chuan, Lin Pin Hung, Yang Tse Min, Chen Heui Jian, Hsu Rei Chin, Chang Ya Huei, Chen Wen Tong, Liu Ming Cheng, Chung Ming Hung, Lin Tsong Pu, Wu Yao Yi, Kuh Chin Gao, Chang Ban Shian, Huang Chien Shun, Yang Huang Chuan, Huang Huei Ling, Chiu Wen Hsiung, Lian Yung Huei, Lee Dong Lin, Hung Chin Chuan, Hsu Hsueh Rong, Chang Min Jeh, Huang Shu Jen, Cheng Yi Fung, Liao Huei Wen.

Satisfaction Survey and Service Enhancement

The 2012 Blood Transfusion Service Needs and Satisfaction Survey was conducted from October 15th to November 5th at each Blood Donor Centers. This survey focused on the "apheresis blood donor"; total of 6,643 surveys were taken. After statistical analysis, the main conclusions were: (1) "blood donation environment comfortability" and "service staff friendliness" were the most satisfying (2) "blood donation environment cleanliness" with "phlebotomist needle injection technique" were the most important (3) improving the blood donation location allocation can raise public blood donation willingness (4) Most of the apheresis blood donors donate to help the patients (5) the Blood Transfusion Service satisfaction rate was at a superb 97%; in addition, in regards to "whether the blood donation location is convenient" had significant rooms for improvement.

The survey results showed that blood donors gave above 99% satisfactory ratings to "blood donation environment cleanliness", "interview clarity and respect to privacy", and "interviewer attitude and interview skills,"; blood donors thought the important items were "blood collection staff needle injection technique", "blood donation environment cleanliness", and "staff attitude and attentiveness" and more.

Strengthening Interchanges Among Nations

Our organization signed a "Medical Foundation Taiwan Blood Foundation and Red Cross Society of China exchanges memorandum" with the Red Cross Society of China on July 19th, 2012, and notified the Department of Health in writing for future reference on July 31st.

With years of hard work and outstanding achievements, the Taiwan Blood Donation had attracted medical personnels in China and Mongolia to come over for learning exchange. This year, directors of the Mongolian national blood transfusion center, Tserendejid Magvansuren and Nomingerel Lantuu both came to the Taipei Blood Donation Center; Jiangsu Province Blood Center business manager, Ing Kai and Suzhou city blood bank's Dr. Tang Longhai went to the Kaohsiung and Taipei Blood Donation Center for training; focusing on Blood Donor recruitment, screening, blood collection, testing, blood component production, supply, and personnel management as learning exchange.

Furthermore, to advance blood technology, we actively participate in various international conferences to absorb current related knowledge. The international conferences participated this year were:

- The 32nd International Society of Blood Transfusion (ISBT) conference was held in Cancun, Mexico, from July 5th to 12th. Chairman Lin Kuo Shin led a team of delegates composed of-- deputy CEO Mr. Yang, Taipei Blood Donor Center executive director Mr. Hong, Tainan Blood Donor Center executive director Mr. Tsai,

Kaohsiung Blood Donor Center executive director Mr. Hong, R&D department Chen Ji Cheng, Taipei Blood Donor Center technical team leader Mr. Hung, Taipei blood donor center quality assurance team leader Mr. Lai, and Kaohsiung Blood Donor Center ingredient department chief Mr. Lu.

- The 65th annual conference of the American Association of Blood Banks (AABB) was held in Boston from October 4th to 12th. Led by CEO Mr. Wei, the group of delegates composed of--Taichung Blood Donor Center Director Mr. Lin, Hualien Blood Donor Center Director Mr. Wang, Taipei Donor Center Yang Chi Cheng, Hsinchu Blood Donor Center technician Mr. Chang, and Kaohsiung Blood Donor Center technician Mr. Wang. After the conference, a visit was paid to the Rhode Island Blood Center (a non-profit community blood center under the jurisdiction of the United States FDA with certifications from the AABB, ASHI, CLIA, NMD) to learn about their blood donation blood operation.
- The 2012 Asia Pacific Blood Connection (APBN) annual conference was held from July 3rd to 4th in Cancun, Mexico and was attended by the deputy executive director, Mr. Yang.
- Director of public relations, Ms. Tsong was invited by the Chinese Society of Blood Transfusion to Guangzhou from November 7th to 9th to participate in the 6th annual Chinese Society of Blood Transfusion Blood Transfusion Conference, and to give a presentation on "Taiwan's Voluntary Non-Remunerated Blood Donors Recruitment and Management".
- Public relations director Ms. Tsong and Tainan Blood Donation Center business team leader Mr. Chang were invited to the 10th annual IFRC (International Federation of Red Cross) Asia Voluntary Non-Remunerated Blood Donors.



Volunteer Service To Deliver Love

Recognitions were given to volunteers from each of the blood donor centers for active involvement in blood donation promotion and blood donation service affairs. The awarded volunteers from each of the donor centers are as followed:

- Taipei Blood Donation Center: Lu Shao Shu and Kao Cheng Jie won the "Taipei City Volunteer Service Award" presented by the Taipei City Government Bureau of Social Affairs.
- Hsinchu Blood Donor Center: Yang Ming Shian was awarded Hsinchu County's 2012 annual volunteer service golden quality medal; Wu Yu Lan was awarded the Hsinchu County's 2012 annual volunteer service honorary award.
- The Taichung Blood Donation Center: Su Fang Pei was awarded the "12th Prudential youth volunteers Elite Award".
- Tainan Blood Donation Center: Yang Mei Ling was awarded the "2012 Yunlin County annual local health care volunteer Golded quality Medal" and the "2012 Yunlin County annual volunteer Golden quality Medal"; Lo Su Cheng, Liao Chung Kuan, and Cheng Wen Yuan were awarded the Chiayi City volunteer Bronze quality Medal"; Lin Chu Shu was awarded the "Interior Ministry volunteer Silver quality medal"; Liu Chi Cheng and Chang Yo Luan were awarded the "Tainan City volunteer Bronze quality Medal.
- Kaohsiung Blood Donation Center: Ren Chi Hong was awarded the "2012 Department of Health national health care volunteer Dexin Award"; Lin Cheng Chung, Lee Shu Hua, and Lin Yong Chuan were awarded the "Kaohsiung volunteer gold quality badge"; Chen Huei Fen six others were awarded the "Kaohsiung volunteer silver quality badge"; Chen Han Shuan and eleven others were awarded the "Kaohsiung volunteer copper quality badge"; the Kaohsiung Blood Center volunteers group was awarded the "2012 Kaohsiung health care volunteer business appraisal level A award".
- Hualien blood donor Center: Yo Sheng Hsiung was awarded the "2012 Department of Health national health care volunteer

Ai Shin Award"; Hong Ming Huh was awarded the "2012 Ministry of the Interior national volunteer Gold Medal "; Liao Huei Wen was awarded the "2012 Ministry of the Interior national Outstanding volunteer Bronze Medal.

In recent years, to reach the roots and encourage the younger generations to donate blood, each Blood Donor Centers have been cooperating with universities and colleges to recruit student volunteers. Students are encouraged to use their after-school spare times as Blood Donation Ambassadors, and to donate blood on campus or to assist large-scaled activities advocating correct blood donation concepts, at time same time to encourage them to join the service.

Online Marketing Is Far-Reaching

Online marketing is the future and the back bone of publicity. In recent years, we have been encouraging blood donors to collect test reports by e-mail, which not only saves time but is also more environmentally friendly; blood donors can also check blood donation locations and information through our website. In addition, our official website provides information on various epidemic areas and medicine/surgery related regulations; each blood donation center also provides the latest regional activity newsletters to encourage public participation. Meanwhile, the i-Blood website provides a "blood encyclopedia" and a children version website to establish a lively interactive communication gateway to reach donors.

Aside from the official website, each of the blood donor center has a Facebook Fan Page for their FB friends to obtain the latest news. Donating blood is not a one-way street; more love and care can be shared via the internet! As of today, the number of Blood Donation Center FB fans are: Taipei center--32,276 people; Hsinchu center--11,240 people; Taichung Center--9,727 people; Tainan Center--10,809 people; Kaohsiung center--5,124 people; Hualien Center--950 people.



資訊處

INFORMATION
TECHNOLOGY

系統更新 邁向國際

捐供血管理資訊系統之重新建置是本會這幾年的重點工作項目之一，在過去的一年裡，主要在進行捐血中心各作業單位的功能需求與即將導入的新系統功能之間的差異分析。

本次系統更新範圍含主機系統、資料庫、機房、及應用軟體系統。應用軟體系統包含捐供血管理系統、捐血團體業務管理模組、及網路查詢系統模組。捐供血管理流程將導入國外Mak-System公司的eProgesa血液管理套裝軟體，含採血、檢驗、成分、醫務、供應等作業，此套系統主要以參數設定的方式來符合世界各國的法規與流程上的需求；為了提升血液安全，本會將採用ISBT CODE128條碼系統，血品之編碼原則必須遵循國際標準，這將影響各用血醫院的作業流程及資訊系統。

捐血團體業務管理模組含捐血團體接班作業、資源規劃、排班作業、年度血量規劃、志工管理等作業，網路查詢系統模組含捐血預約、捐血人網路查詢、安全庫存量查詢、醫院網路訂血等作業，除了捐血預約及醫院網路訂血作業是eProgesa套裝軟體既有功能外，其他的功能也需要客製開發。

本年度完成了上述的系統功能差異分析之後，接著進行系統流程演練，共安排了三階段的演練測試。在演練前先將本會使用的參數及流程設定於測試主機中，接著對各捐血中心課室測試人員進行訓練，再請測試人員研擬各種可能狀況的案例，依擬定的案例進行實機測試並記錄結果，在每一階段結束前進行檢討，作為下一階段再測試的依據，每階段為期約四週，目前已完成第一、二階段的演練測試，透過這樣由淺入深、由小到大範圍的不斷演練，可讓使用者熟悉系統操作模式與流程，期望能及早發現問題尋求解決方案。

個資保護 刻不容緩

個人資料保護法於101年10月1日正式實施，對於處理大量個資的公務與非公務機構團體衝擊頗大。本會雖然一向非常重視捐血人隱私與資料安全，但為了更周全保護捐血人資料及符合法規標準，個資保護觀念及相關保護措施必須落實到每一位同仁的工作中。目前會本部與各捐血中心聯合成立個資管理委員會，各捐血中心分別成立個資保護推動小組，並對不同層級同仁進行教育講座，後續將聘請顧問公司輔導，進行個資盤點、弱點分析、風險評估與改善，並訂定個資管理政策，以落實個資保護。



System Renewal Takes Us To The World

Reconstructing the Blood Management Information System has been one of our major projects for the recent years. In the past year, we've been focusing on analyzing discrepancies between the functionality needs of each departments and the new system.

The renewal includes main frame, database, Internet Data Center (IDC), and Web-based software application system. The software application system includes blood management system, blood bank planning module, and web-based inquiry module. The eProgesa blood management software package by Mak-System Corporation will be implemented into the blood management procedures. The functions of eProgesa include phlebotomy, laboratory testing, component processing, medical affairs, and blood inventory/supply. The eProgesa software is designed with flexible parameter setting to meet regulations of countries concerned. For blood safety, TBSF (Taiwan Blood Services Foundation) will adopt the ISBT Code 128 barcode system. The donation number and component code have to follow the international standard. Because the ISBT Code 128 layout is very different from the current barcode system of TBSF, all the hospital's information system and working process will be impacted. Blood Bank Planning Module includes group campaign planning, resource allocation, scheduling, annual sessions planning, and volunteer management. Were there any functions unprovided by the eProgesa package software, customization is required. Web-based inquiry module includes donor appointment, donor inquiry, component inventory inquiry, and ordering. Other than donor appointment and ordering, the other functions have to be customized.

The gap analysis between the current work process and the new system has been done in 2012. eProgesa system end-to-end process testing will be performed through three phases. Before the testing, the parameters of working processes have to be set in the testing environment. The key users have to be trained, and the testing cases have to be

written down. All the testing cases are simulated and recorded. Any issue from previous phase will be checked in next phase. Each testing phase takes approximately four weeks to complete. The first two phases have been done in 2012. The scope and depth of each phase will be increased. Thorough practice will help the key users get familiar with the new system and resolve the issues.

Personal Information Security

The Personal Information Protection Act came to action on October 1st, 2012. This is a major impact on the government and non-government institutes which own mass personal information. TBSF has always been highly concerned with the privacy of donors and security of information. Staff members are reminded repeatedly the issues of information security. TBSF includes six blood centers to form the Personal Information Management Committee. There is a Personal Information Protection Promoting Group in each blood center. Various educational seminars are held for the staff. Consulting companies will be brought in to help check the personal information stock thoroughly, weakness analysis, risk evaluation and improvement, and draw up the personal information management regulation for TBSF. All of the activities aim to ensure the personal information of donors and staff is well protected.



財務處

FINANCE

本會財務狀況

經費收入：

業務收入包含國血製劑及工本材料費收入；捐贈收入主要係捐血車或血液運輸車之打造及血袋、點心、紀念品等項目；其餘為利息收入及其他收入，主要係廠商賠償不良品貨款、研究用血收入、玉山銀行愛心卡回饋金及補助收入。

經費支出：

業務費用主要為國血製劑相關費用、血袋費、檢驗試劑費、消耗費及捐血人紀念品等；研究發展費主要為人員培育、研究消耗器材藥品及圖書費等；管理費用主要為辦公費、修繕維護費、租金支出及雜支等；人事費用為醫事、研究、業務、行政人員薪餉及加班費；其餘為財產設備報廢損失及員工退撫準備金。

強化財務管理

落實審查帳務、原始憑證及相關案由紀錄與表單，經費收支均依「經費管理及內部審核電子化作業」流程規範及標準作業程序進行，另於12月底實施資產盤點；委請會計師查核帳務並出具財務報告，經董事會審議後提報主管機關衛生署核備。

善用財務資源

經費結餘佔總收入2.3%，將視財務狀況及董事會決議提撥適當金額至血液品質研究發展專戶，俾利本會執行NAT納入血液常規檢驗及其他提升血液品質計畫。



The Financial Status

Revenues: Revenues of the Foundation mainly come from processing fees of blood products and blood components. Contributions are primarily in the forms of blood mobiles, blood transportation vans, blood bags, and refreshments for blood donors. Other sources of incomes include incomes from interests, compensations from manufacturers for defective products, incomes from blood research, returns from the E.Sun bank Love Card, and subsidy incomes.

Expenditures: Operational costs are direct costs related to the manufacturing of blood products, costs of blood bags, reagents for laboratory testing, supplies, and souvenirs for blood donors. Expenditures for research and development involve training costs, costs of devices and reagents for research, and books and journals. Administration costs include office management, repair and maintenance, rentals and miscellaneous. Personnel costs are mainly salaries and overtime payments. Others include loss due to scrapped properties and reserves for the retirement of employees.

Adequate Use of Financial Resources

The balance of the year is 2.3% of the total revenues. According to the balance and by resolutions of the Board of Directors, certain amount of the balance is allocated to the specific account for research and development on blood quality to facilitate the eventual integration of NAT as part of blood routine testing and other blood quality improvement projects.

Strengthening of Financial Management

Financial auditing is strengthened. Invoices, records, forms and income balances are handled according to regulations of the financial management and internal auditing electronic operational procedures and standard operational procedures. Inventories of properties are taken in late December each year. Accountants are invited to audit accounts and make reports. Accounting reports are submitted to the Board of Directors for review and approval, and then forwarded to the Department of Health for approval.



國際扶輪3510地區舉辦「扶輪心服務情」捐血記者會



行政處

ADMINISTRATION

發揮組織功能

本會為依據醫療法設立之醫療財團法人之組織，董事會置董事13人及監察人1人，監督輔導本會暨各捐血中心之營運，第六屆董事會，於本年2月21日、5月15日、10月30日召開3次會議。

本會各項政策及業務之推行，由各捐血中心依統一規定辦理，為加強內部溝通及管理，董事長召集捐血中心主任及處長於1月12日、4月17日、9月11日舉行擴大工作會報，對於重大共同需求，則不定期召集捐血中心相關人員，以專案會議方式研商辦理，以維持本會之正常營運及永續發展。

重視員工在職教育

員工培訓為年度工作計畫重點，以增進專業知識，採血、供血、檢驗、成分、公關企劃、財會、資訊、行政等在職教育為主，辦理方式包括專家學者演講、讀書會、與學術機構合辦檢驗繼續教育研討會、派員參加國內外學術單位有關之會議及課程，並有捐血中心持續推動品管圈等活動，以提升工作人員專業之素質。

強化集中採購業務

本會為國內唯一執行捐供血業務的醫療機構，多數藥品或耗材，須委託供應商

進口，對於需求量大且與血液直接相關之用品，如血袋、試劑、儀器等，均集中辦理聯合採購，以有效降低採購成本，另有補助各中心包括輸血專業期刊、品管調查、各類文宣品等多項，皆以統一作業規格，提升品質為目標，並兼顧協調各中心之間調撥貨品，適時管控各單位倉儲庫存量，以減少積壓資金。

改善作業場所及設備

本會暨各捐血中心作業場所，依相關法規，視財務狀況籌措購置，本年繼續高雄捐血中心屏東捐血站之遷建規劃，另依業務需要，進行作業場所之整修及儀器車輛等設備之汰換，由於經費有限，部分設備來自熱心者之捐贈。



The Foundation In Full Operation

The Foundation is a medical corporation established under the Medical Care Act. The Board of Director has thirteen members and one supervisor to supervise and direct the operation of the Foundation and the blood centers. The 6th Board of Directors meetings were held three times during this year on February 21st, May 15th, and October 30th, to discuss policy matters and make decisions.

The policies and business operation of the Foundation are carried out by the blood centers following the standard operational procedures. To promote internal communication and management, meetings of directors of the blood centers are called regularly with three times this year on January 12th, April 17th and September 11th, for business discussion. Ad hoc meetings of members from the blood centers are called to discuss important issues on special projects for the eternal development of the organization.

On-Job Training for Employees

Regular on-job training courses on subjects such as blood collection, blood supply, laboratory testing, blood components, public relations, financials, information technology, and administration are held to improve the professional knowledge of employees. Training includes: lectures of scholars and experts, book review workshops,

conduct in collaboration with academic institutes continuing education symposiums on laboratory testing, participate in international conferences--to raise the quality of employee professionalism.

Strengthening of Centralized Procurement

The foundation is the only medical institution that handles donation and supply of blood; some special medicines and supplies may have to be imported through dealers or by order. To effectively reduce costs, most items directly related to blood that are required in large quantity are collectively procured by the Foundation. Professional journals, souvenirs, and educational materials are also directly procured for the use of the blood centers, to unify specifications of procurement, to actively coordinate blood centers for allocation of supplies to timely control the stocks, and to reduce capital investment.

Renovation of Workplaces

Workplaces of the Foundation and the blood centers are procured by relevant regulations and financial conditions. This year the foundation continued the construction plans of Pingtung Blood Station for the extension of the Kaohsiung Blood Center; workplaces are repaired; instruments and facilities are renewed according to needs. For limited resources, some facilities are contributed by enthusiastic donors.



新竹捐血中心龍潭捐血亭啟用典禮



大事記

Chronicles





大事記

CHRONICLES

一月

- 100/12/21~101/01/21 • 101年捐血月以「捐血一袋袋，愛心一代代」為主題。本會於100年12月20日召開啟動記者會，恭請 總統頒發呼籲捐血公開信，鼓勵民眾踴躍捐血；並安排捐血傳承及捐血短片甄選頒獎儀式等。另「愛捐血」網站舉辦照片上傳暨串連貼紙活動，共計400多位參與。本會也辦理「大手牽小手，首捐族一起來」親子攝影活動並將照片加框致贈捐血人，全台共收106件。此外，各中心在捐血月期間自行辦理各項宣導及捐血活動，捐血月共募集血液246,661單位（每單位250西西）。
- 01/01 • 台北捐血中心檢驗課「血型檢驗儀器」自101年起全面使用PK7300執行血液常規檢驗。
- 01/06 • 台北市政府辦理捐血活動，台北市長郝龍斌率領市府員工捐血，共募得血液188單位。
• 林陳麗華女士及林昭正先生捐贈1,000個空血袋嘉惠病患，由台中捐血中心業務組長王效玲代表受贈並致贈感謝狀。
- 01/08 • 國興畜產股份有限公司假屏東縣文化處前廣場舉辦「熱情屏東人 千人捐熱血」活動。當天國興畜產公司董事長林桂添、屏東縣副縣長鍾佳濱、稅務局長施錦芳及高雄捐血中心主任洪啟民等均參與盛會；當日共募得血液4,858單位，創單日最高捐血量。
- 01/09 • 桃園縣玉山獅子會會長巫新田率獅兄參訪新竹捐血中心愛心樓，並捐贈捐血人生日禮「魔布」500份，由楊主任代表受贈並致贈錦旗。
• 東北扶輪社舉辦捐血活動，於台南捐血中心各站點配合，共計捐得血液2,819單位。
- 01/12 • 新北市政府辦理捐血活動，新北市衛生局長林雪蓉率隊捐血，共募得血液391單位。
- 01/13~15 • 新竹捐血中心辦理101年捐血月「捐血相傳 袋代接龍」宣導活動，於長庚捐血室、苗栗市北苗市場、南苗市場與苗栗火車站等地辦理，創意變裝宣導捐血，獲民眾熱烈響應。
- 01/15 • 台中捐血中心「志工共同服務日」於台中市圖書館捐血車舉行。志工分組至附近宣導捐血並同時舉辦志工幹部會議，當日共募集血液195單位。



01/16

01/29~02/22

- 和泰汽車股份有限公司捐贈台南捐血中心「和泰號」大型捐血車正式啟用。
- 群益證券公司於全國9個分公司辦「群起愛心 热血傳公益」理捐血活動，共募集血液1,967單位。

二月

02/01~05

- 新光人壽及銀行於全國10個地點辦理「捐血，讓我們分享幸福」捐血活動，共募集血液1,640單位。

02/03~17、08/10~20

- 富邦慈善基金會於全國26個分公司辦理「熱心捐血 热捐愛」捐血活動，共募集血液3,741單位。

02/11

- 台中捐血中心和「勤美誠品綠園道」合辦情人節前夕「熱血情人巴士」捐血活動。鼓勵18到40歲的情侶共同挽袖捐熱血，當天共募得血液185單位。

02/15~03/29

- 中華郵政公司於全國各地郵局辦理215場次「寒冬送暖熱血情 郵政壽險捐血月」捐血活動，共募集血液24,800單位。

02/17~18

- 全國認證基金會（TAF）醫學領域實驗室認證評鑑委員至高雄捐血中心執行現場評鑑。

三月

03/03

- 嘉義公園點辦理週年茶會邀請捐血人分享並聯誼，共30位參與活動。

03/04

- 台南捐血中心辦理永康捐血室捐血家族座談餐會，共有27人參加。

03/06~23

- 101年第1次業務督導訪查。

03/12

- 台北捐血中心配合101年度血漿原料提領作業，自3月13日開始實施原料血漿NAT篩檢。

03/15

- 山西省輸血協會秘書長王躍平及大陸輸血專業人士共14人參訪高雄捐血中心前金捐血室。

03/16

- 馬英九總統於台北捐血中心南海捐血室捐出第184次熱血。

03/17

- 文化大學教授王振軒率國際企業管理研究所學生等12人蒞臨參訪新竹捐血中心愛心樓並致贈「百年奉獻 愛在台灣」系列專書。

03/21

- 台北捐血中心「TAF醫學實驗室認證」完成認證程序。

03/25

- 雲林縣虎尾、虎女獅子會等單位聯合舉辦大型年度捐血活動，當日共計捐得2,308單位。

03/28

- 捷運鳳山捐血室開始辦理分離術捐血服務。

03/30

- 國際獅子會300F區宜蘭頭城獅子會捐贈「祥龍號」血液運送車乙輛予花蓮捐血中心。

03/30~04/05

- 金財神投注站贊助花蓮捐血中心大樂透彩券200張，於花蓮捐血中心捐血室贈送給捐血人。



四月

- 04/08
• 國際獅子會300D1區假新營文化中心舉辦年會，同時捐贈台南捐血中心「獅子5號」大型捐血車乙輛，由獅子會300D1區總裁周榮家等共同主持剪綵儀式。
- 04/15
• 國際獅子會300-C3區、中央獅子會及財團法人彰化縣私立賴樹旺社會福利慈善事業基金會聯合捐贈「獅子樹旺號」大型捐血車乙輛給台中捐血中心，於明道大學居仁堂前舉行捐贈儀式。
- 04/19
• 台北捐血中心假新北市政府三樓多功能集會堂舉辦「100年度捐血績優表揚大會」。
- 04/22
• 台中捐血中心假東海大學中正紀念堂舉行「100年度捐血績優表揚大會」。
- 04/26
• 台南捐血中心假台南市生活美學館演藝廳舉行「100年度捐血績優表揚大會」。
- 由熱心民眾集資購置之大型捐血車「眾生號」致贈台南捐血中心，假台南生活美學館由本會董事長林國信主持剪綵儀式。
- 04/28
• 高雄捐血中心假國立海洋科技大學國際會議廳舉辦「100年度捐血績優表揚大會」。
- 04/29
• 水鳳獅子會廖鄭景會長暨廖玉莉獅友聯合捐贈3,000個空血袋給台中捐血中心，於集集永昌國小水鳳獅子會授證及會長交接典禮中舉行。在國際獅子會300-C3區許素絅總裁及其他獅友的見證下，由台中捐血中心林啟靈主任代表受贈。



花蓮捐血中心「祥龍號」血液運輸車捐贈儀式

五月

- 05/01
• 花蓮捐血中心因業務需求，將組織架構調整為：企劃課、採血課、資訊課合併為業務組；管理課、會計課合併為行政組。
- 05/02~09/02
• 南山人壽慈善基金會辦理「2012南山捐血月」活動，共募集血液12,594單位。
- 05/04
• 高雄捐血中心採血課護理長周美里接受高雄市護理師公會「財團法人高雄市護理師護士公會101年優良護理人員」表揚。
- 05/05
• 台北捐血中心假中華福音園辦理員工教育訓練，共62人。
- 05/05
• 高雄捐血中心檢驗課承辦「高雄地區基層醫療院所輸血安全研討會」，由高雄市政府衛生局指導；高雄市醫事檢驗師公會及高雄縣醫事檢驗師公會協辦。
- 05/09
• 台南市總工會於台南公園舉辦捐血活動，當日共計捐得血液1,190單位。
- 花蓮捐血中心假宜蘭龍園會館辦理「100年度捐血績優表揚大會」。會中除表揚績優捐血團體外，同時頒贈全血捐血百次以上及分離術捐血500次以上之捐血人紀念獎章，表彰捐血者榮耀。



- 05/10~11
- 高雄捐血中心業務組長王雅琴與護士劉錦綿、許育寧至高雄長庚醫院參加「南部HIV篩檢前後諮詢及外展服務人員訓練」。
- 05/11
- 銘傳大學副學務長林真真師生共27人參訪台北捐血中心。
 - 嘉義市大天宮捐贈大型捐血車「神農號」給台南捐血中心，假嘉義市「全國神農文化祭」祭祀典禮會場舉辦，由副總統蕭萬長與本會董事長林國信等貴賓共同剪綵。
- 05/12
- 台灣銀行在台北市花博公園主辦「台灣金美、愛不止息」捐血活動。台北捐血中心主任洪正昇親臨現場，當日共捐入血液272單位（共198人）。
- 05/14~19
- 高雄捐血中心至澎湖地區辦理巡迴捐血活動，共募集血液898單位。
- 05/17
- 大陸徐州醫學會一行6人，由徐州市血液中心主任畢星秀帶領參訪台北捐血中心。
- 05/18
- 新竹捐血中心假新竹國賓大飯店舉辦100年度捐血績優表揚大會。林董事長親臨主持，新竹市副市長游建華、新竹縣副縣長章仁香、新竹市衛生局長姚克武及新竹縣衛生局副局長江松福等貴賓蒞臨並頒贈獎狀，活動圓滿順利。
- 05/21
- 台中捐血中心主辦【每位捐血人都是英雄】徵文比賽，共有89位參賽。獲獎者分別是第一名：何志明、第二名：許雅棉、第三名：林惠菁；佳作：林耀盛、邵建邦、陳詩樺、陳道怡、徐綉惠等5名。
- 05/26
- 台中捐血中心舉辦「血滴小精靈」選拔比賽，共有46位參賽。假台中中正公園捐血室進行決賽，前六名分別是第一名：蘇玟瑄、第二名：盧宜涵、第三名：趙笠妘、第四名：朱學鵬、第五名：葉瀕綺、第六名：黃俊閔。
- 05/29~06/01
- 台北捐血中心與金門縣衛生局、署立金門醫院、金門各鄉鎮公所、金門縣紅十字會及金門防衛司令部等，共同舉辦金門巡迴捐血活動。本次活動共捐入血液1,416單位。



高雄捐血中心舉辦小琉球捐血活動

六月

- 06/04
- 台中捐血中心辦理貼心服務訓練課程，共36人參加。
- 06/06
- 高雄捐血中心洪主任至高雄市議會與議長許崑源共同拍攝「熱血相挺·88愛在高雄」捐血活動短片。
- 06/10
- 台北捐血中心辦理「2012年世界捐血人日」活動，於台北西門町舉辦捐血英雄鬥龍傳&血寶寶握手見面會。捐血英雄們撐起象徵中國的「龍」遊街宣導捐血救人。現場還有血寶寶比大小送紀念品與民眾互動，當天共捐入血液294單位。
- 06/11、14
- 新竹捐血中心楊主任拜訪新竹縣警察局長陳銘政與新竹市警察局長張永仰，感謝其推動警界弟兄愛心捐血並祝賀警察節；新竹市許市長也響應世界捐血人日並挽袖捐獻熱血，二天活動共募得血液231單位。
- 06/14
- 台灣血液基金會與台北101金融大樓於101大樓「89樓觀景台」，聯合辦理2012

年世界捐血人日活動，主題是「捐血真英雄 愛到最高點」。本次活動邀請10+1位，捐血達101次的捐血人參與盛會。當日表揚並致贈感謝牌給定期舉辦全國性捐血活動達10年以上之中華郵政股份有限公司、新光人壽保險股份有限公司、國際佛光會中華總會等3個團體。台北捐血中心也調派2部大型捐血車停放在101大樓南側大門，號召民眾踴躍捐血，當日共捐入血液209單位。

- 新竹捐血中心於6月14日假竹北愛心樓舉辦「捐血真英雄—猴寶家族大團圓」，響應2012年世界捐血人日活動。新竹縣衛生局殷局長親臨支持與鼓勵，典藏猴娃血寶及各大媒體共襄盛舉、熱烈響應。
- 台中捐血中心101年世界捐血人日慶祝活動於「新時代購物中心」廣場舉辦。並由網路號召100名熱血民眾，手持紅色雨傘排列成「HERO」字樣大合照。賴樹旺社會福利慈善事業基金會也在活動中捐贈一輛行政宣傳車給台中捐血中心，協助推廣捐血業務。當日共募得全血1,189單位及分離術捐血78單位。
- 台南捐血中心2012年世界捐血人日活動在南方公園前舉行，今年主題為「捐血真英雄Every Blood Donor is a HERO」。本次活動結合Club25（熱血青年社）並表揚達到捐血次數的會員，共計25人受獎。並邀請台南市衛生局長林聖哲及臺南市警察局副局長林進元頒獎，活動圓滿結束。
- 高雄捐血中心2012世界捐血人日活動，於前金捐血室辦理「Every Blood Donor is a Hero 捐血真英雄」角色扮演比賽。透過活動的宣傳與邀約，讓社會大眾對捐血有正確的觀念並闡揚捐血救人的理念。
- 韻應世界捐血人日，花蓮捐血中心於捐血室舉辦「捐血真英雄」活動。14日起一連3天贈送捐血人「捐血真英雄紀念照」，3日共捐入374單位。



台中捐血中心號召網友排列HERO慶祝世界捐血人日

06/16	• 台灣輸血學會與高雄捐血中心合辦「台灣輸血學會101年度期中學術研討會」，參加人員共計126人。
06/18~26	• 澳洲CSL血漿工廠至各捐血中心實地訪查（花蓮中心除外）。
06/18~7/13	• 蘇州市中心血站檢驗科副主任湯龍海至會本部及台北捐血中心參訪並見習。
06/20	• 血漿工廠CSL訪查台南捐血中心。
06/22	• CSL血漿工廠訪查新竹捐血中心。
06/24	• 台中市脊髓損傷協會於台中中正公園捐血室舉辦捐血活動。希望由脊髓損傷朋友及志工夥伴熱心帶頭挽袖捐血，喚醒社會大眾的熱忱，共同響應「關愛社會、熱愛生命」捐血活動，共募集血液164單位。
06/25~26	• CSL血漿工廠訪查台北捐血中心。



- 06/26
- 本會召開「100年度捐血績優表揚大會總檢討會」。
- 06/27
- 新竹捐血中心楊主任率業務組王組長暨企劃課同仁參加「龍潭捐血亭」啟用典禮，募得血液109單位。
- 06/29
- 台南捐血中心至國軍新訓中心後備906旅至908旅舉辦大型捐血活動。當日共出動13部大型捐血車，共捐得血液2,600單位。
 - 國際扶輪3510地區大發扶輪社捐贈「大發扶輪社一號」大型巡迴捐血車乙輛給高雄捐血中心。贈車儀式假高雄漢神巨蛋辦理。



國際扶輪3510地區大發扶輪社捐贈「大發扶輪社一號」大型捐血車給高雄捐血中心

- 06/30
- 聯合報報導Rh陰性三姐妹熱情捐血，以及全家5位O型Rh陰性捐血人的新聞，後續引起中央社、華視、中天新聞、群健有線、世界日報等5家媒體相繼報導，馬英九總統得知後，親自打電話給2位熱心捐血人陳俞依、陳瑩珊表示慰勉之意。

七月

- 07/01
- 林素娟前執行長於6月30日退休，董事會新聘魏昇堂先生接任執行長。
 - 一誠協力慈善會於台南公園舉辦年度捐血活動，當天共捐2,467單位。
- 07/01~09/09
- 國泰慈善基金會辦理「2012國泰夏日捐血活動」，共募集血液11,833單位。
- 07/01~09/14
- 高雄市慈善團體於暑假期間辦理「慈善團體聯合捐血月」捐血活動，並於8月4日假城市光廊舉辦揭幕儀式。與會貴賓有高雄市社會局長張乃千及市議員陳政娟、黃柏霖等；高雄捐血中心主任洪啟民表達感謝之意，本活動共募集血液5,544單位。
- 07/02
- 台南捐血中心舉辦貼心服務訓練課程，共有36位人員參加。
- 07/03
- 台南捐血中心舉辦「嘉義站分離術捐血家族」座談會，圓滿完成。
- 07/05~12
- ISBT國際輸血學會2012年年會及APBN會議於墨西哥坎昆市舉行。本次會議由林董事長率團，團員包括楊副執行長、台北捐血中心洪主任、台南捐血中心蔡主任、高雄捐血中心洪主任、研究處陳技正、台北中心洪技術組長、黎品保組長及高雄中心成分課盧課長等。

- 07/09
07/11
07/13
07/14~17
07/18~20
07/21
07/22~25
07/23
07/23~27
07/27
07/29
07/30
- 蘇州市中心血站檢驗科副主任湯龍海參訪高雄捐血中心。
 - 成都市醫學會一行8人，由成都市衛生局副局長劉軍率團參訪台北捐血中心。
 - 本會召開關懷小組總檢討會。
 - 高雄捐血中心辦理「高雄地區血液供應座談會」，參與醫院人員計有36位。
 - 國際扶輪3510地區屏東縣第一分區舉辦「扶輪心服務情-捐血救命好一夏」記者會，當日由屏東縣副縣長鍾佳濱、屏東扶輪社長陳來雄及高雄捐血中心王業務組長等出席，共募集血液503單位。
 - 台灣輸血學會與高雄捐血中心合辦「血庫工作人員在職教育基礎班」課程，共計36人參加。
 - 國際獅子會300D2區2012-2013年度捐血活動假高雄鳳凌廣場前舉辦開幕起跑儀式。由300D2區總裁林榮治與高雄捐血中心洪主任共同號召獅友及民眾響應，總計151人捐出血液214單位。
 - 醫事檢驗師全國聯合會假高雄捐血中心舉辦「101年認可傳染病檢驗機構檢驗品質」課程，共計82人參加。
 - 台灣輸血學會與高雄捐血中心合辦「血庫工作人員在職教育進階班」課程，共計25人參加。
 - 新竹捐血中心辦理貼心服務訓練。
 - 大陸安徽省藥學會一行12人，由安徽省藥學會副理事長徐立武率團參訪台北捐血中心。
 - 金財神投注站贈送200張大樂透彩券，假花蓮捐血中心捐血室辦理捐血週活動，只要來捐血即贈送大樂透彩券，5日共捐入200單位。
 - 屏東捐血站辦理「屏東地區血液供應座談會」，參與醫院人員計有10位。
 - 龍鳳聯誼會於台南公園舉辦年度捐血活動，當天共捐1,169單位。
 - 台北捐血中心辦理第一梯次貼心服務訓練。

八月

- 08/01
08/03
08/03~26
08/05
08/06
08/06~17
08/08
08/10
- 高雄市家事服務業職業工會理事長莊蔡碧春帶領該會志工隊一行15人參訪高雄捐血中心，並捐贈空血袋350個。
 - 本會召開101年第一次醫學諮詢委員會議，通過於捐血者HBsAg、Anti-HCV檢驗導入確認試驗。
 - 和泰汽車公司辦理「和泰全國捐血月」活動，共募集血液4,843單位。
 - 新營捐血室於7月30日至8月5日辦理「捐血人回娘家」活動，共募集血液712單位。
 - 花蓮捐血中心辦理貼心服務訓練。
 - 高雄捐血中心採血點楠梓、岡山、前金、前鎮、左營等5個捐血室及屏東捐血站，通過醫檢學會101年第一次CBC能力試驗。
 - 青年發展基金會於台北、台中、高雄共15個地點辦理「2012年青年捐血月」捐血活動，共募集血液10,365單位。
 - 高雄市議會舉辦「熱血相挺、88愛在高雄」捐血活動。議長許崑源帶領議員們一行人上車捐血。高雄捐血中心洪主任、王業務組長及相關人員至高雄市議會表達感謝之意；當日共募集血液433單位。
 - 花蓮捐血中心志工洪明和先生捐血超過1,000次，花蓮縣政府於8月8日假美侖飯店父親節活動，特別給予表揚。
 - 衛生署委託醫療品質策進會於本會進行「101年度人體研究倫理審查會」追蹤查核作業。



- 08/10~11
- 新竹捐血中心假桃園市桃園農工舉辦本會第17屆愛心杯桌球賽，活動圓滿順利。
- 08/11
- 高雄捷運於美麗島站舉辦「販賣店聯合展售會」，提供高雄捐血中心攤位做為捐血定點行銷及高危險群宣導活動。
- 08/12~09/15
- 台中市糕餅商業同業公會分別於大甲鎮瀾宮、大肚區公所、大里大買家、豐原媽祖廟、臺中公園正門廣場前舉辦「捐血送月餅」活動，共募集血液3,620單位。
 - 富邦慈善基金會辦理全國捐血活動，共募集血液3,752單位。
- 08/13~17
- 台北捐血中心辦理第2梯次貼心服務訓練。
- 08/20
- 嘉聯實業（白人牙膏）捐贈台北捐血中心空血袋1,000個。
- 08/21
- 和泰汽車公司捐贈「和泰2號」大型捐血車乙輛給台中捐血中心。本會董事長林國信、執行長魏昇堂、和泰汽車公司董事長黃南光及台中捐血中心主任林啟靈等共同參與捐贈儀式，並感謝和泰汽車長期的熱心公益。
- 08/22
- 2012年世界捐血人日【捐血真英雄】角色扮演比賽頒獎儀式，於高雄捐血中心舉辦，由主任洪啟民頒發獎金、獎品，第一名：林于坪（喬巴）、第二名：潘寶義（聖鬥士-不死鳥一輝）、第三名：宋品望（巡音露卡）、優選：林碧玲（麵包超人）。
- 08/23
- 高雄捐血中心辦理「關懷70歲屆齡捐血人感恩茶會」，並於會中致贈琉璃獎牌感謝資深捐血人黃秀惠女士。
- 08/28
- 台南市赤嵌獅子會於台南公園舉辦捐血活動，共募集血液1,068單位。
- 08/28~09/12
- 本會辦理捐血站業務督導訪查，受訪單位為基隆、苗栗、彰化、馬公。
- 08/29
- 協會「特派編採暨宣傳員在職訓練」假台南捐血中心舉行。
- 08/31
- 嘉義捐血站假耐斯百貨廣場舉辦「30週年感恩有您」晚會，共有34個社團，93人參加。



高雄捐血中心614世界捐血人日COSER沿捷運宣導捐血救人

九月

- 09/01
- 台南捐血中心辦理第二次「Club 25研習營」，共計有29人參加，共分成5組討論，學員將成為各學校捐血活動之校內宣傳員。
- 09/02
- 台南市玉皇玉聖宮燭善善心會舉辦捐血活動，共募集血液1,152單位。
- 09/03
- 會本部辦理貼心服務訓練。
- 09/06
- 本會召開101年「公關企劃人員在職教育訓練」。
 - 台北捐血中心檢驗課謝佳宏至大陸參加「成都國際血液保障高峰論壇」，並

- 受邀專題演講，主題為：台灣推行NAT全面檢測以提升用血安全之努力。
- 09/06~07 • 本會假花蓮捐血中心台東捐血站舉辦站長會議。
 - 09/07 • 尊爵大飯店週慶年舉辦捐血活動，新竹捐血中心楊主任拜訪總經理洪樸鈞暨感謝其對捐血公益活動的支持與協助，當日共募集血液225單位。
 - 09/07~08 • 新竹捐血中心舉辦「長庚捐血室生日快樂~猴寶粉絲同樂會」系列活動。楊主任與民眾歡慶新竹捐血中心20週年暨長庚捐血室週年慶，共捐入血液320單位。
 - 09/14 • 信鎰實業股份有限公司捐贈花蓮捐血中心白米一斤裝共2,916包，作為辦理捐血活動運用。
 - 新莊國際獅子會捐贈10,000份紀念品給花蓮捐血中心，捐贈儀式於該中心捐血室舉行，計有9家媒體採訪。
 - 09/14~17 • 雲林縣糕餅商業同業公會理事長羅濟乾率理監事暨雲林捐血站企劃共同上草嶺之聲電台宣導「您捐血、我送月餅活動」。活動於9/16、18、22、23舉辦「您捐血、我送月餅活動」，共募集血液1,535單位。
 - 09/15 • 福添福基金會捐贈給台南捐血中心血液運送車「福添福號」乙輛，由董事長陳素月及嘉義市長黃敏惠共同剪綵，由中心主任蔡光昭代表受贈。
 - 09/17 • 南台科技大學主辦、國際獅子會300D1區協辦之捐血活動記者會，於南台科技大學舉行。活動18~19日舉行，共募集血液1,057單位。
 - 09/18 • 國際獅子會300A1區總裁莊永彰率隊一行96人至台北捐血中心參訪，並捐贈8,000個血袋；由中心主任洪正昇代表受贈。
 - 09/19 • 協會101年臺南聯絡中心會員聯誼活動，由秘書長魏昇堂及臺南中心主任蔡光昭陪同至嘉義庶糖文化園區一日遊，計有個人會員85位及團體會員2人參加。



銘傳大學舉辦愛心捐血週活動

- 09/21~22 • 由台灣醫院協會主辦，於國立臺灣科學教育館國際會議廳辦理「2012年台灣健康照護聯合學術研討會」。本會受邀參展並設有攤位，宣導本會業務及各項產品，成效良好；共有400多位與會人員蒞臨參觀。
- 09/21、27 • 協會台北聯絡中心分別舉辦會員聯誼活動，參觀桃園巧克力共和國工廠及大溪老街巡禮。第一梯次計有74人參加；第二梯次計有99人參加。
- 09/22 • 台南捐血中心假雲林休閒農場舉辦雲林地區捐血家族座談會，計有49人參加。
- 09/27 • 署立恆春旅遊醫院舉辦「屏東地區輸血安全研討會」，院長曾孔彥及高雄捐血中心主任洪啟民、技術組長林冠州及相關人員參與研討會。
- 09/27~28 • 新竹捐血中心舉辦「秋節感恩 快樂捐血」宣導暨歡慶新竹捐血中心20週年系



列活動。感謝熱情捐血人參與並至FB分享捐血心得，活動圓滿順利。共捐入血液255單位。

- 09/27~10/04 • 嘉義鐵線製品股份有限公司舉辦「捐血心、鐵線情活動」，共募得血液2,023單位。
- 09/28 • 高雄捐血中心舉辦社團捐血座談會，邀請高屏地區績優社團參與，總計有40個社團71人參加。

十月

- 10/02 • 高雄捐血中心成分課完成「2012第二次台灣醫檢學會血液常規（HE）、血液凝固第八因子（AHG）、血液凝固（HC）能力試驗」。
- 10/02~27 • 花蓮捐血中心舉辦101年度第3次志工研討會暨慶生會。
- 10/04 • 國華人壽辦理49週年慶「愛的延續，溫暖人生」全國性捐血活動，共募集血液4,936單位。
- 10/04 • 台北市衛生局於台大醫院國際會議中心舉辦「血液檢驗與輸血安全」研討會，台北捐血中心派員11位參加。
- 10/04~12 • 美國血庫協會（AABB）2012年年會於美國波士頓舉行。本會由魏執行長率團，團員包括台中中心林主任、花蓮中心王主任及論文獲選者3位（台北中心技術組楊技正、新竹中心供應課張技士、高雄中心技術組王技士）。
- 10/06 • 嘉義志工隊廖重坤、羅素真、鄭文淵榮獲嘉義市志願服務績優志工銅質獎。
- 10/07 • 台南市心暉慈善會辦理捐血活動，共募集到血液1,356單位。
- 10/12~26 • 國際獅子會300E2區由莊明昇總裁帶領，於世界獅友服務日完成57場接力捐血活動，共募得血液11,241單位。
- 10/15~11/05 • 江蘇省血液中心業務科長應侃先生至本會及高雄捐血中心參訪見習。
- 本會進行101年度「捐血服務需求及滿意度調查」，總計回收問卷調查樣本共6,643份。
- 10/16 • 台南捐血中心配合重陽節舉辦屆齡捐血人健康講座感恩會，計有41人參加。
- 10/19 • 台北市建築開發商業同業公會捐贈10,000個空血袋給台北捐血中心。捐贈儀式在副總統吳敦義見證下，由台北捐血中心主任洪正昇代表受贈。
- 新竹捐血中心辦理101年「領隊教育訓練」，課程邀請林口長庚醫院護理部沈督導主講「現場領導實務」。
- 10/20 • 總統馬英九由高雄捐血中心洪主任陪同拜訪屏東捐血人郭福利先生，並呼籲民眾定期捐血。
- 10/25 • 河南省紅十字血液中心主任王兆福率團共12人至台北捐血中心參訪。
- 台南捐血中心雲林捐血站志工楊美玲獲頒分別榮獲「雲林縣101年度地方衛生保健績優志工金質獎」及「雲林縣101年度績優志工金質獎」。
- 10/27 • 樹林濟安宮舉辦捐血活動並捐贈1,000個空血袋給台北捐血中心。當日共捐入血液322單位，共206人參與活動。
- 10/28 • 新竹捐血中心假長庚捐血室舉辦「萬聖變裝熱血日」宣導活動並歡慶新竹捐血中心20週年慶。學生志工與捐血朋友熱情互動響應捐血，活動圓滿順利。
- 10/29 • 河南省紅十字血液中心參訪團由主任王兆福率團，共12人前往臺南捐血中心參觀並進行兩岸血液事業交流。
- 10/30 • 浙江省台州市衛生局副局長李洪燕女士率團8人至台北捐血中心參訪。

10/31

- 福建省醫院協會參訪團在團長福建省血液中心副主任吳建忠帶領下，一行16人至台中捐血中心進行參訪交流活動。
- 德國青年公務人員聯盟巴伐利亞邦分會參訪團一行6人，前往成功嶺替代役訓練班進行拜會參訪。



輔英科大舉辦捐血活動

十一月

11/01

- 名人獅子會前會長賴欽應捐贈台南捐血中心空血袋1,000個，由業務組張少寧代表接受。

11/01~102/05/16

- 國際同濟會台灣總會中A區2012-2013年愛心捐血接力活動，由各分會辦理。11月1日假台中捐血中心中正捐血室舉辦開幕式暨反毒遊行宣導，當天共募集血液156單位。

11/02

- 台北市普濟寺捐贈台北捐血中心2,000個空血袋。

- 福建省血液中心共計16位成員至高雄捐血中心參訪。

11/03~04

- 逢甲大學校友會慶祝51周年校慶並舉辦全國校友會捐血活動，共募集血液2,316單位。

11/07~09

- 大陸中國輸血協會第6屆輸血大會於廣州舉行，本會公關處長叢萍應邀參加並做專題演講。

11/12

- 全國認證基金會（TAF）假台大集思會議中心舉辦「兩岸3地醫學領域實驗室認證研討會」，由台北捐血中心品保組黎組長、周俊吉及檢驗課陳課長代表參加。

11/14

- 中和廣濟宮與福和宮分別捐贈1,000個空血袋及500個空血袋予台北捐血中心。假廣濟宮前舉辦捐贈儀式，由企劃課陳課長代表受贈。

11/15

- 高雄捐血中心洪主任代表本會出席「101年度國華人壽全國捐血成果發表會」，並致贈紀念牌以資感謝；國華人壽本年度捐血成果計4,936單位。

11/16

- 本會召開IRB倫理委員會年度會議。

11/20

- 遠東獅子會B2區捐贈台北捐血中心500個空血袋，由企劃課陳課長代表受贈。

11/25

- 上海市青浦區參訪團共計16位成員至高雄捐血中心參訪。

11/26

- 新竹捐血中心辦理「健康樂活捐血感恩茶會」活動，邀請楊主任專題演講「一代佳人」，資深捐血長者熱情分享捐血經驗，互動熱絡。

11/26~27

- 高雄捐血中心及屏東捐血站、馬公捐血站進行年度ISO9001 2008定期驗證稽查。

11/29

- 健保局「全民健康保險醫療給付協議會議」討論捐血全面篩檢NAT乙案，通過8項血品支付點數分別調整為100點、75點。



十二月

- 12/03~06 • 「2012年IFRC研討會」於尼泊爾加德滿都舉辦。本會由公關處長叢萍及台南捐血中心業務組長張少寧代表出席。
- 12/03 • 哈爾濱市醫學會訪問團在團長哈爾濱市紅十字中心血站書記趙國慶的率領下，一行11人至台中捐血中心進行參訪交流活動。
- 12/03~07 • 金財神投注站假花蓮捐血中心捐血室辦理捐血週活動，並贈送200張大樂透彩券，共捐入血液278單位。
- 12/07 • 台南捐血中心舉辦101年度捐血中心全面品質管理成果發表會，假高雄捐血中心舉行。有台北、台南、高雄、花蓮中心參與並發表18篇論文，魏執行長親臨指導。
- 12/08 • 台南市衛生局主辦「愛在飛揚保健志工頒獎典禮」於水萍溫公園舉行。今年台南捐血中心新營志工分隊張祐綸、劉志誠榮獲「臺南市志願服務績優志工銅質獎」。
- 12/08、14、22 • 新竹捐血中心假長庚捐血室舉辦「全家揪團捐血趣」活動，學生志工與捐血朋友熱情互動響應捐血，當日活動共募得熱血255單位。
- 12/12 • 國際扶輪3490地區頭前扶輪社捐贈台北捐血中心600個空血袋。
- 12/14 • 本會辦理「100年度績優捐血代表晉見總統活動」於總統府舉行。
- 12/14~16 • 全國NPO 2012年博覽會於高雄國際會議中心舉辦。高雄捐血中心於會中設攤分享台灣無償捐血成果及宣揚自願無償捐血精神。
- 12/16 • 台北捐血中心與電影「血滴子」共同舉辦「捐一滴血、喚千萬熱血」系列慈善活動。經由阮經天、黃曉明、余文樂等演員青春熱血的正義形象，籲請各界踴躍捐血，以充裕年節前的庫存血液。
- 12/19 • 新竹捐血中心志工楊銘仙女士「101年度新竹縣志願服務人員金質獎」；吳玉蘭獲頒「101年度新竹縣志願服務人員榮譽獎」。
- 12/21 • 本會召開101年第2次醫學諮詢委員會議。
- 12/22 • 新竹捐血中心假苗栗捐血站舉辦「急徵102熱血麋鹿 搶救聖誕老公公」捐血活動，楊主任巧扮聖誕老公公發送聖誕驚喜小禮物與民眾同樂，當日捐血量217單位，創下苗栗捐血站25年來單日捐血量最高紀錄。
- 12/26 • 基隆第一獅子會捐贈台北捐血中心1,000個空血袋，由台北捐血中心基隆捐血站林冠孝站長代表受贈。
- 台東綺麗珊瑚公司捐贈台東捐血站遮陽棚設備，由花蓮捐血中心主任王雲龍前往受贈。
- 高雄捐血中心志工團榮獲「101年度高雄市衛生保健志願服務業務考評甲等獎」，由志工督導葉正弘代表受獎。

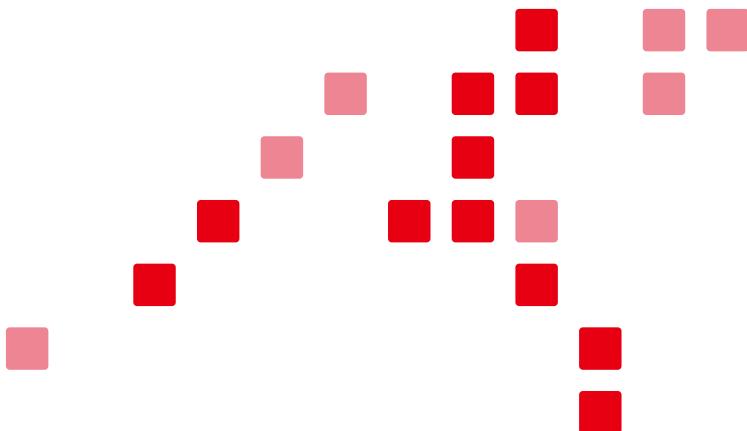


南山人壽總公司全力支持捐血活動



統計表

Operation Statistics



歷年捐血量

Annual Blood Collection, 1974-2012

單位
Unit

年度 Year	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 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

註：

1.捐血量袋數為全血捐血方式及分離術捐血方式之合計。

2.全血250ml計為1單位，500ml計為2單位。

3.分離術血小板每成人劑量計為1單位，2倍成人劑量計為2單位。

Note :

1.Total Blood Collection Number: including both whole blood collection and apheresis collection.

2.Total Whole Blood Collection Units: including 1 unit(250ml) and 2 unit(500ml)collection type.

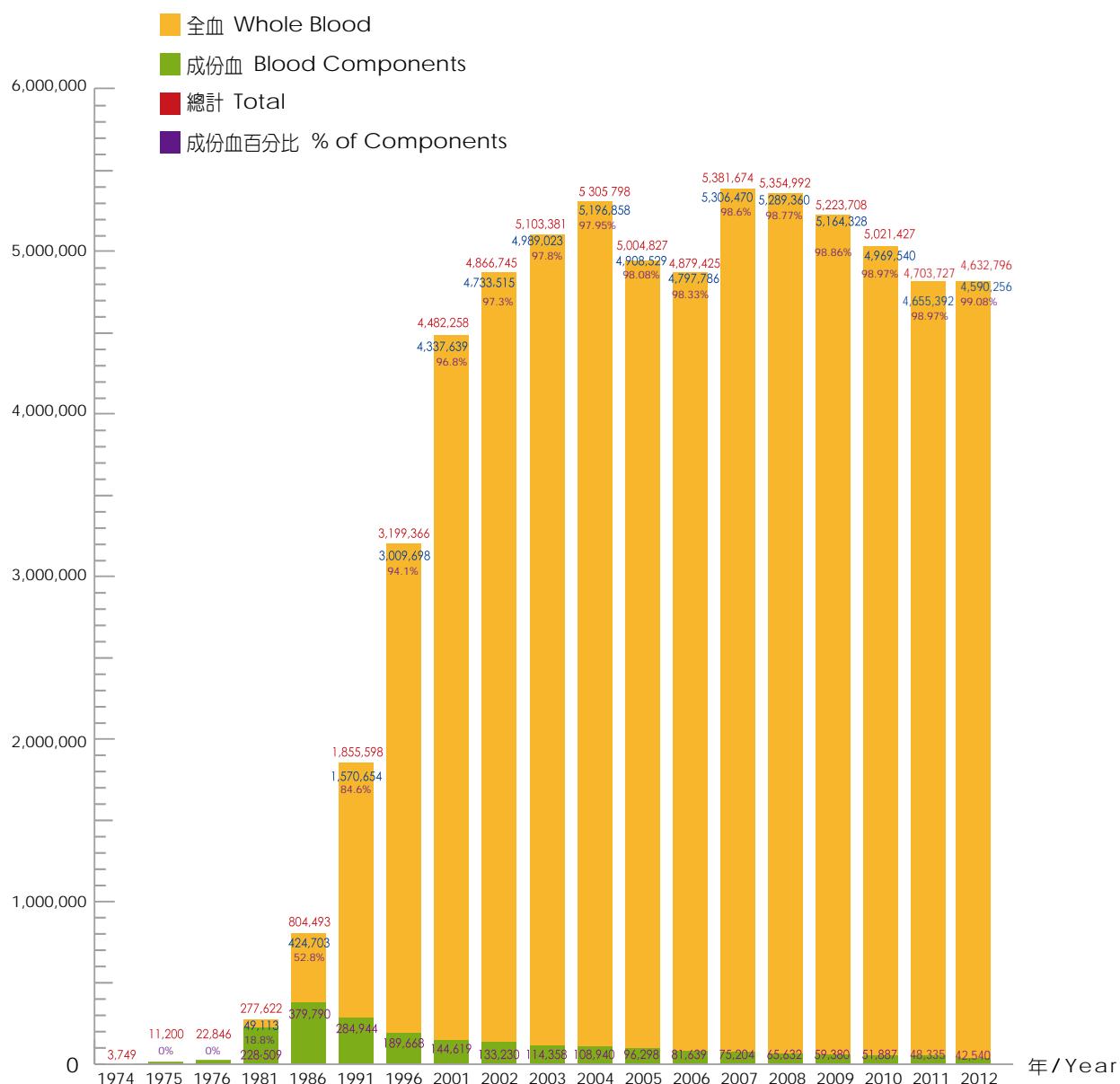
3.Total Apheresis Platelet Collection Units:including 1 unit(single dose) and 2 unit(double dose) collection type.



歷年供血量

Annual Blood , 1974-2012

單位
Unit



註：

- 1.全血250ml計為1單位，500ml計為2單位。
- 2.成份血係扣除全血數量後，經分離製備之血品。

Note :

- 1.Total Whole Blood Collection Units: including 1 unit(250ml) and 2 unit(500ml)collection type.
- 2.Total Number of Component Units : including all blood components prepared from whole blood.

101年全血及成分血供應量

Blood and Blood Components Supplied , 2012

單位
Unit

項目 Item		台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計
紅血球 RBCs	紅血球濃厚液 Packed RBCs	607,100	293,994	427,815	349,216	375,527	93,674	2,147,326
	洗滌紅血球 Washed RBCs	10,355	3,282	4,058	3,610	4,658	682	26,645
	減除白血球之紅血球濃厚液 Leukocyte-Reduced RBCs	20,018	1,966	24,107	3,156	7,752	3,000	59,999
	冷凍去甘油紅血球 Frozen Thawed Deglycerolized RBCs		3	0	0	0	0	3
小計 Subtotal		637,476	299,242	455,980	355,982	387,937	97,356	2,233,973
白血球 WBCs	白血球濃厚液 WBC Concentrate	3,176	252	15	82	0	0	3,525
	分離術白血球 Leukapheresis	0	0	0	0	0	0	0
血小板 Platelets	血小板濃厚液 Platelet Concentrate	124,041	91,566	141,794	55,508	5,566	5,029	423,504
	分離術血小板 Apheresis Platelets	57,284	18,262	23,796	31,071	35,726	6,858	172,997
	減白分離術血小板 Leukocyte-Reduced Apheresis Platelets	24,950	3,556	5,535	3,189	8,120	660	46,010
血漿 Plasma	新鮮冷凍血漿 Fresh Frozen Plasma	292,726	168,278	209,178	208,209	202,360	42,415	1,123,166
	冷凍血漿 Frozen Plasma	57,337	40,800	37,392	51,170	78,139	21,547	286,385
	冷凍沉澱品 Cryoprecipitate	77,129	15,054	28,774	38,437	17,206	5,188	181,788
	原料血漿(回收) Source Plasma	57,024	18,144	23,328	7,776	12,636	0	118,908
總計 Total		1,331,143	655,154	925,792	751,424	747,690	179,053	4,590,256
全血 Whole Blood		15,320	7,573	9,018	6,385	2,261	1,983	42,540
供應總數 Total Units Issued		1,346,463	662,727	934,810	757,809	749,951	181,036	4,632,796
血液成分占供應總數比率 Rate of Components		98.86	98.86	99.04	99.16	99.70	98.90	99.08
紅血球占含紅血球之血液總數比率 Rate of RBC over RBC Contained Components		97.65	97.53	98.06	98.24	99.42	98.00	98.13

註：全血每單位250毫升，成分血為全血250毫升分離所得。

Note : 250ml per unit for whole blood; blood components are separated from 250ml whole blood through process.



101年每月捐血量 Monthly Blood Collection, 2012

單位
Unit

月份 Month	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total
一月Jan.	63,596	25,996	38,163	31,930	35,345	9,261	204,291
二月Feb.	64,158	26,786	40,936	34,116	35,907	9,551	211,454
三月Mar.	68,193	32,167	49,933	36,770	44,024	11,526	242,613
四月Apr.	64,098	30,868	43,669	33,211	36,476	10,393	218,715
五月May	64,195	28,638	43,735	35,071	36,326	8,694	216,659
六月Jun.	57,282	27,123	38,760	31,347	31,395	8,923	194,830
七月Jul.	62,339	30,985	44,518	33,662	39,311	9,423	220,238
八月Aug.	65,278	26,991	43,122	32,460	32,579	9,020	209,450
九月Sept.	62,135	28,825	39,301	33,926	40,397	9,727	214,311
十月Oct.	59,492	28,942	41,842	34,463	34,501	9,489	208,729
十一月Nov.	60,205	26,457	39,515	33,231	32,350	10,003	201,761
十二月Dec.	61,333	29,447	40,868	35,222	36,156	9,256	212,282
總計 Total	752,304	343,225	504,362	405,409	434,767	115,266	2,555,333
預定目標數 Target	742,000	339,000	490,000	418,000	402,000	113,500	2,504,500
目標達成率 % of Accomplish ment	101.39%	101.25%	102.93%	96.99%	108.15%	101.56%	102.03%

註：

- 1.捐血量袋數為全血捐血方式及分離術捐血方式之合計。
- 2.全血250ml計為1單位，500ml計為2單位。
- 3.分離術血小板每成人劑量計為1單位，2倍成人劑量計為2單位。

Note :

- 1.Total Blood Collection Number: including both whole blood collection and apheresis collection.
- 2.Total Whole Blood Collection Units: including 1 unit(250ml) and 2 unit(500ml)collection type.
- 3.Total Apheresis Platelet Collection Units:including 1 unit (single dose) and 2 unit(double dose) collection type.

近五年國民捐血量

“Whole” Blood Collection by Population, 2008 - 2012

單位：公升／每千人口
Unit : Liter/1,000 population

年份 Year	項目 Item	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total
2008	捐血量(毫升) Blood Collection	156,099,000	82,268,500	120,244,500	85,734,250	97,014,000	25,623,500	566,983,750
	轄區人口數 Population	6,923,843	3,407,172	4,461,455	3,419,800	3,745,731	1,036,261	22,994,262
	每千國民平均 捐血量(公升) Liter/1,000 population	22.55	24.15	26.95	25.07	25.90	24.73	24.66
2009	捐血量(毫升) Blood Collection	162,627,000	78,084,250	118,486,250	90,978,750	96,972,000	25,955,250	573,103,500
	轄區人口數 Population	6,953,984	3,442,631	4,472,795	3,418,467	3,747,033	1,034,435	23,069,345
	每千國民平均 捐血量(公升) Liter/1,000 population	23.39	22.68	26.49	26.61	25.88	25.09	24.84
2010	捐血量(毫升) Blood Collection	166,137,750	81,743,500	120,516,750	90,927,000	96,024,500	27,055,000	582,404,500
	轄區人口數 Population	6,974,554	3,499,663	4,477,114	3,409,906	3,745,132	1,032,012	23,138,381
	每千國民平均 捐血量(公升) Liter/1,000 population	23.82	23.36	26.92	26.67	25.64	26.22	25.17
2011	捐血量(毫升) Blood Collection	168,680,250	81,784,750	120,912,500	93,291,000	102,674,250	27,168,250	594,511,000
	轄區人口數 Population	7,054,442	3,498,987	4,484,098	3,400,813	3,737,885	1,026,326	23,202,551
	每千國民平均 捐血量(公升) Liter/1,000 population	23.91	23.37	26.96	27.43	27.47	26.47	25.62
2012	捐血量(毫升) Blood Collection	167,282,750	80,345,250	118,749,000	92,669,250	98,440,500	25,880,000	583,366,750
	轄區人口數 Population	7,086,152	3,525,575	4,496,195	3,397,242	3,734,579	1,021,830	23,261,573
	每千國民平均 捐血量(公升) Liter/1,000 population	23.61	22.79	26.41	27.28	26.36	25.33	25.08

註：

1.人口數依內政部戶政司統計以每年6月30日實有數為準。

2.血液量之計算：全血每單位以250ml計算。

3.不含分離術捐血。

Note :

1.Mid-year population, the Ministry of Interior.

2.Amount of blood: 250ml per unit for whole blood.

3.Platelet pheresis not included.



捐血人年齡性別

Sex and Age Distribution of Donations, 2012

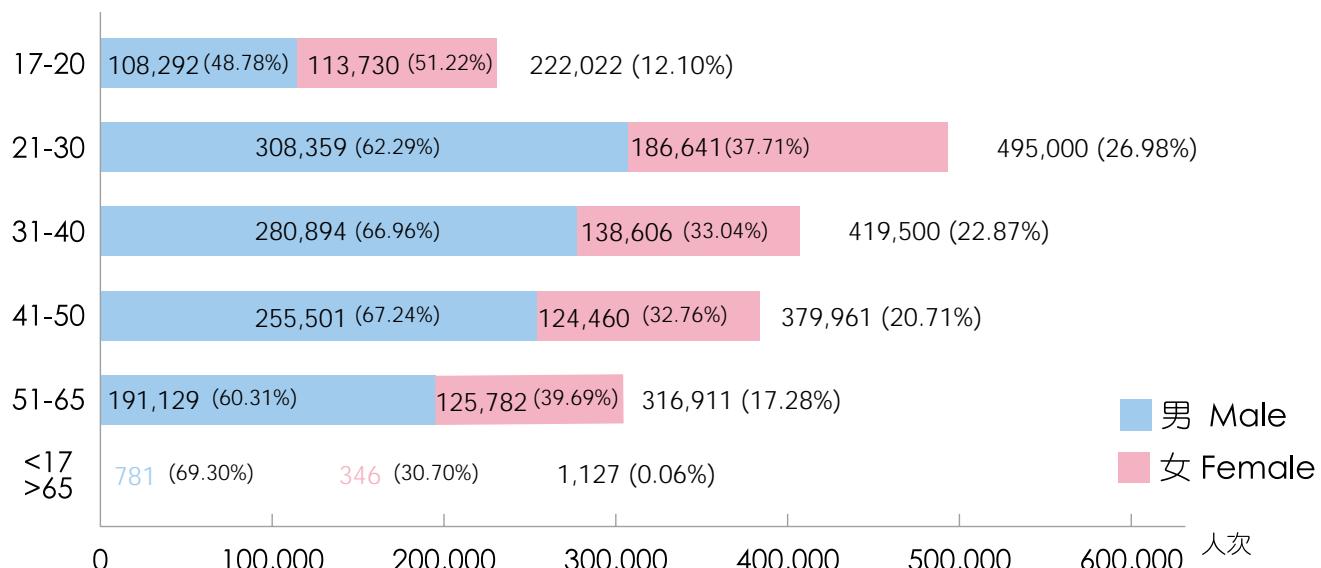
總計 Total : 1,834,521 人次 (Donations)

單位 : 人次
Unit : Donation

男性 Male : 1,144,956 (62.41%)

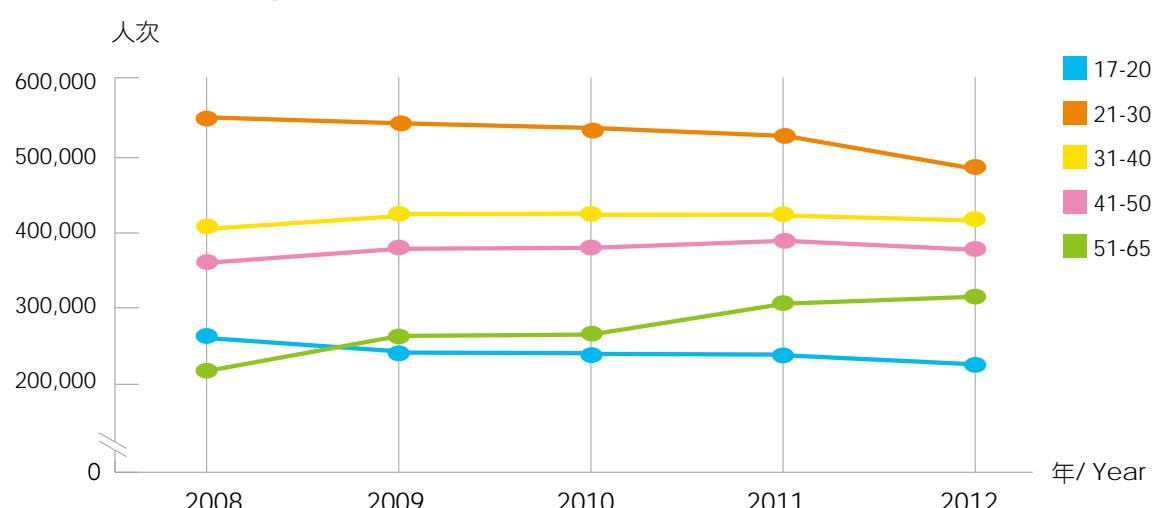
女性 Female : 689,565 (37.59%)

年齡／Age



近五年捐血人年齡趨勢

Age Distribution of Donations, 2008-2012



近五年捐血人次及國民捐血率

Blood Collection and Donation Rate, 2008-2012

單位：人次
Unit : Donation

年份 Year	項目 Item	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total
2008	捐血人次 Blood Donation	518,696	253,678	366,167	276,218	311,525	81,473	1,807,757
	轄區人口數 Population	6,923,843	3,407,172	4,461,455	3,419,800	3,745,731	1,036,261	22,994,262
	國民捐血率 Donation Rate	7.49%	7.45%	8.21%	8.08%	8.32%	7.86%	7.86%
2009	捐血人次 Blood Donation	533,399	243,416	365,843	290,406	313,686	82,434	1,829,184
	轄區人口數 Population	6,953,984	3,442,631	4,472,795	3,418,467	3,747,033	1,034,435	23,069,345
	國民捐血率 Donation Rate	7.67%	7.07%	8.18%	8.50%	8.37%	7.97%	7.93%
2010	捐血人次 Blood Donation	531,254	255,439	372,360	291,710	313,490	84,989	1,849,242
	轄區人口數 Population	6,974,554	3,499,663	4,477,114	3,409,906	3,745,132	1,032,012	23,138,381
	國民捐血率 Donation Rate	7.62%	7.30%	8.32%	8.55%	8.37%	8.24%	7.99%
2011	捐血人次 Blood Donation	534,349	254,731	377,883	303,895	329,804	85,445	1,886,107
	轄區人口數 Population	7,054,442	3,498,987	4,484,098	3,400,813	3,737,885	1,026,326	23,202,551
	國民捐血率 Donation Rate	7.57%	7.28 %	8.43%	8.94 %	8.82 %	8.33 %	8.13 %
2012	捐血人次 Blood Donation	526,216	248,420	371,259	304,184	300,906	83,536	1,834,521
	轄區人口數 Population	7,086,152	3,525,575	4,496,195	3,397,242	3,734,579	1,021,830	23,261,573
	國民捐血率 Donation Rate	7.43%	7.05 %	8.26 %	8.95 %	8.06 %	8.18 %	7.89 %

註：人口數依內政部戶政司統計以每年6月30日實有數為準。

Note : Mid-year population, the Ministry of Interior.

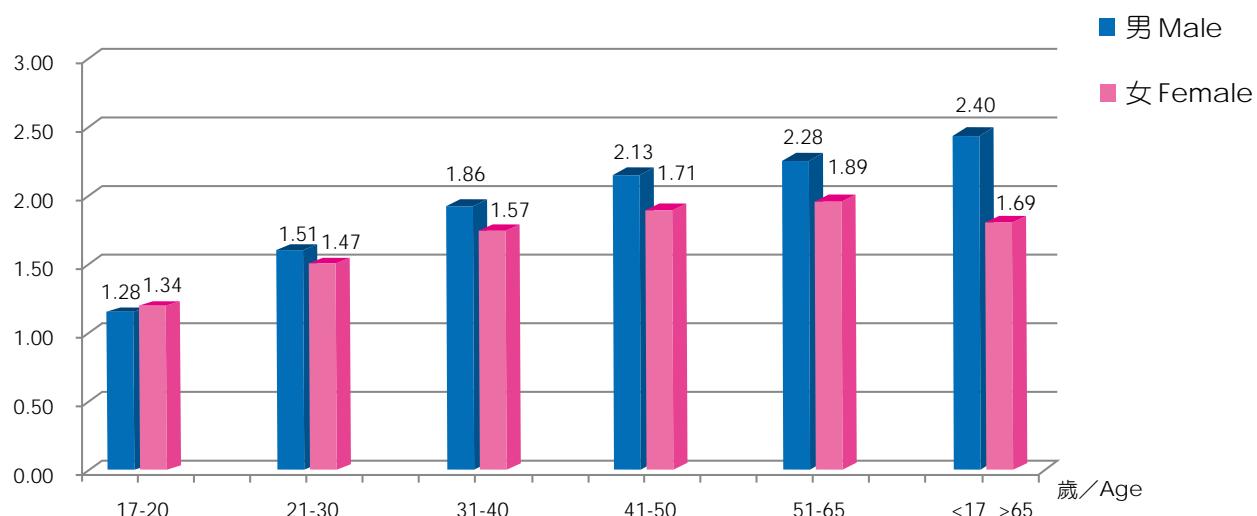


101年各年齡層平均捐血次數 Donation Frequency by Sex and Age, 2012

單位：次數／年
Unit : Donation／year

年齡 Age	性別 Sex	台北捐血中心 Taipei	新竹捐血中心 Hsinchu	台中捐血中心 Taichung	台南捐血中心 Tainan	高雄捐血中心 Kaohsiung	花蓮捐血中心 Hualien	平均捐血次數
17- 20	男Male	1.25	1.23	1.26	1.28	1.32	1.29	1.28
	女Female	1.31	1.27	1.33	1.37	1.41	1.39	1.34
21- 30	男Male	1.54	1.48	1.48	1.48	1.60	1.51	1.51
	女Female	1.46	1.41	1.45	1.46	1.55	1.47	1.47
31- 40	男Male	1.88	1.74	1.79	1.93	1.95	1.94	1.86
	女Female	1.57	1.52	1.56	1.54	1.68	1.54	1.57
41- 50	男Male	2.21	2.09	1.96	2.18	2.20	2.19	2.13
	女Female	1.72	1.72	1.66	1.68	1.80	1.73	1.71
51- 65	男Male	2.46	2.25	2.02	2.31	2.25	2.27	2.28
	女Female	1.92	1.93	1.79	1.83	1.95	1.90	1.89
<17 >65	男Male	2.14	3.40	2.71	1.81	4.30	2.11	2.40
	女Female	1.79	2.43	1.50	1.31	1.87	1.09	1.69
小計	男Male	1.91	2.03	1.87	1.72	2.27	1.88	1.91
	女Female	1.63	1.71	1.55	1.52	1.71	1.52	1.61
總計		1.75	1.67	1.63	1.65	1.75	1.69	1.69

捐血人性別/年齡層/平均捐血次數

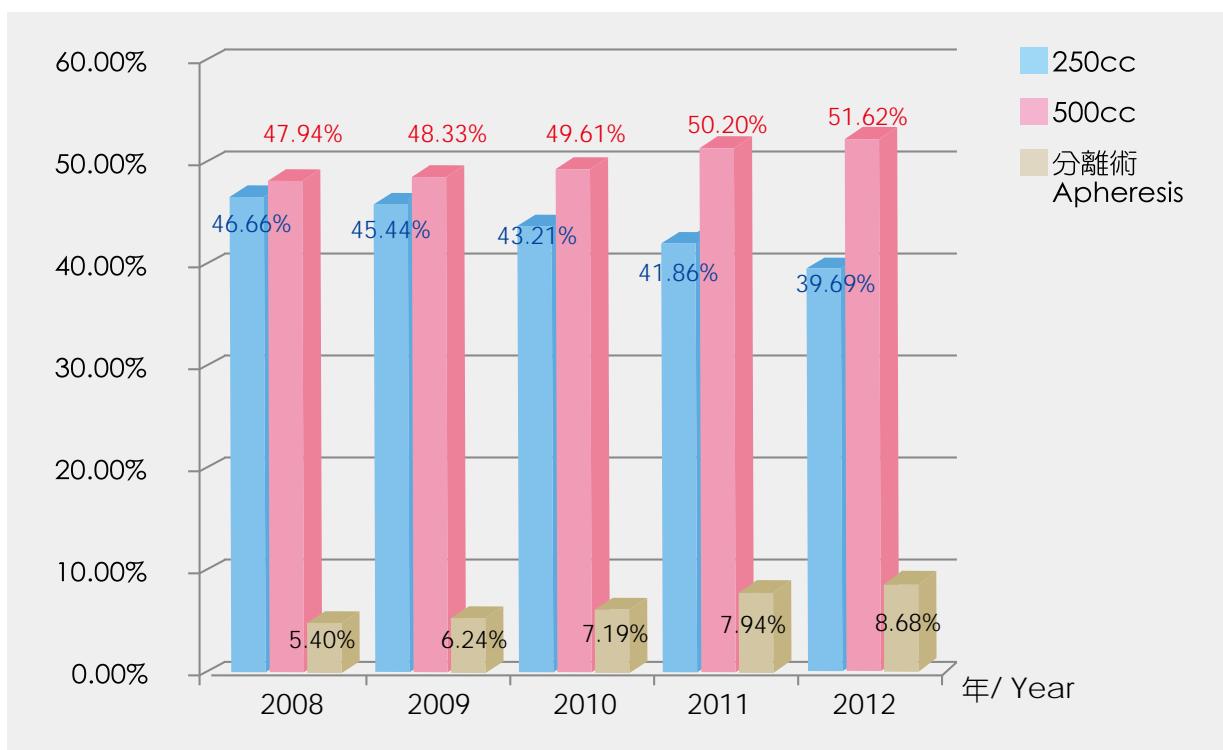


近五年捐血類型統計

Number of Blood Donations by Type, 2008-2012

單位
Unit

類型 Type 年度 Year	全血 Whole blood				分離術捐血 Apheresis		總計 Total
	250cc	比率 Rate	500cc	比率 Rate	分離術 Apheresis	比率 Rate	
2008	1,118,683	46.66%	1,149,252	47.94%	129,466	5.40%	2,397,401
2009	1,110,894	45.44%	1,181,520	48.33%	152,511	6.24%	2,444,925
2010	1,084,464	43.21%	1,245,154	49.61%	180,342	7.19%	2,509,960
2011	1,081,290	41.86%	1,296,754	50.20%	205,139	7.94%	2,583,183
2012	1,014,319	39.69%	1,319,148	51.62%	221,866	8.68%	2,555,333



註：每單位以250ml計算。

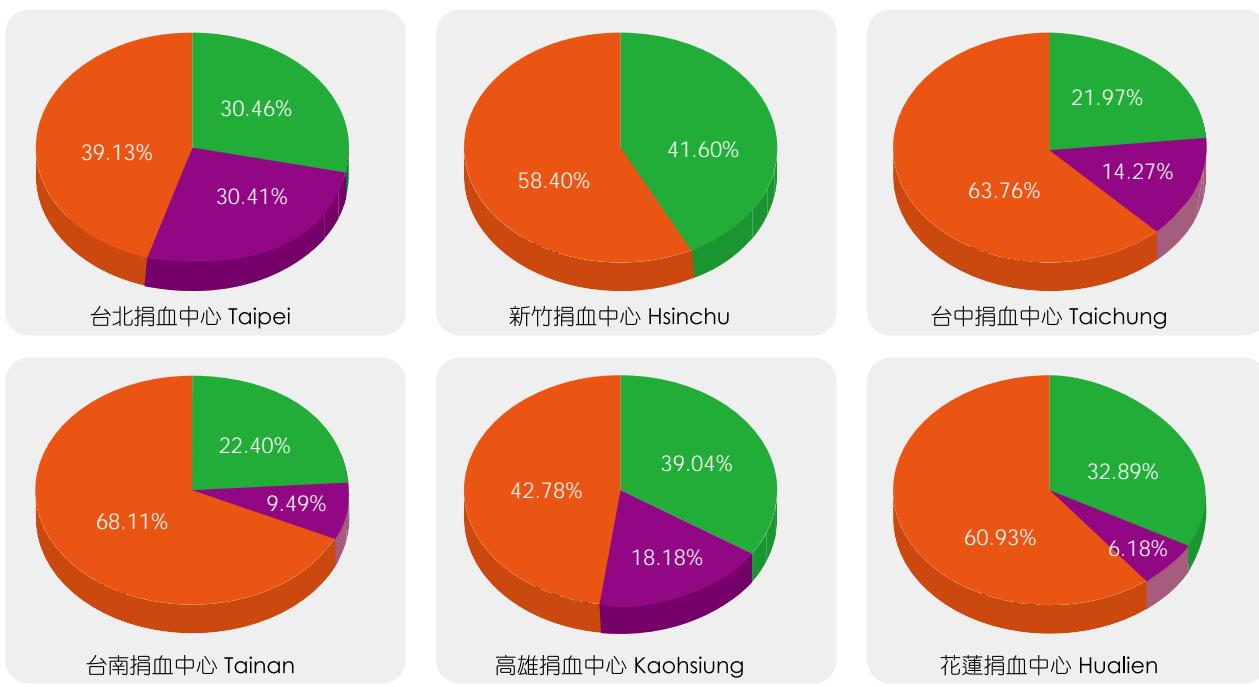
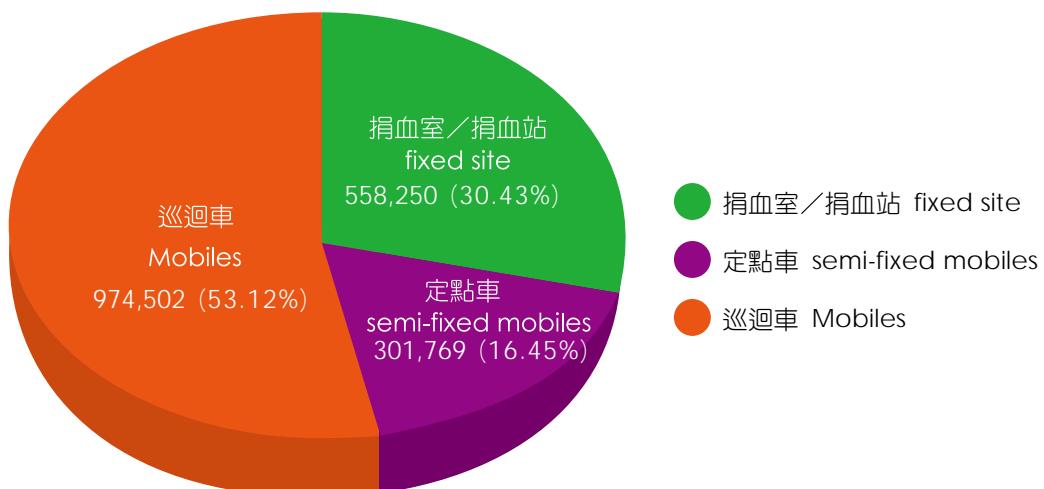
Note : 250ml per unit.



101年捐血地點

Blood Collection by Sites, 2012

單位：人次
Unit : Donation



● 捐血室／捐血站 fixed site ● 定點車 semi-fixed mobiles ● 巡迴車 Mobiles

101年首次捐血率

New Donors Number and Rate, 2012

單位：人數
Unit : Donors

月份 Month	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total
首次捐血人數 New Donors	39,648	22,009	33,530	34,736	25,704	8,743	164,370
捐血總人數 Total Donors	300,418	148,834	228,130	184,082	171,803	49,776	1,083,043
占捐血總人數 比率 % of Total Donors	13.20%	14.79%	14.70%	18.87%	14.96%	17.56%	15.18%

註：捐血總人數係指當年內不論捐血幾次，皆以1人計之總和。

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

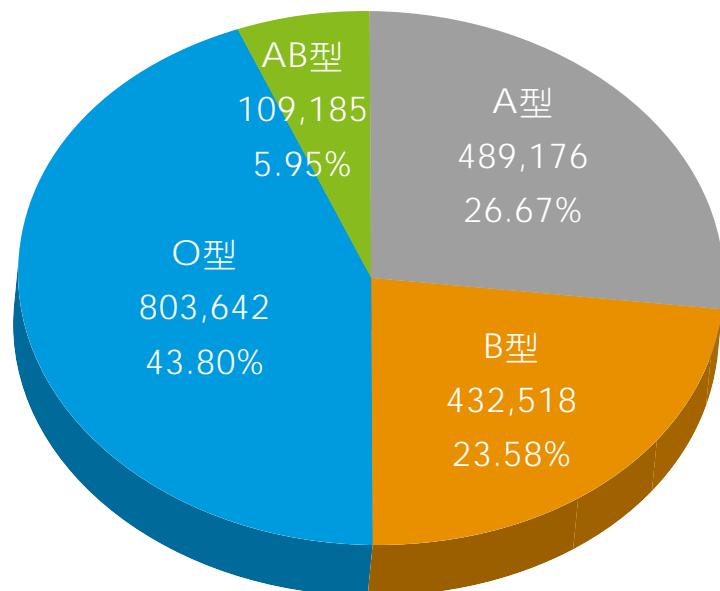


101年血型分類

ABO Blood Grouping, 2012

單位：人次
Unit : Donation

血型 Blood Type	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total
A	141,005	66,615	99,678	80,253	78,816	22,809	489,176
比率 Ratio(%)	26.80%	26.82%	26.85%	26.38%	26.19%	27.30%	26.67%
B	124,692	57,844	85,206	72,853	72,117	19,806	432,518
比率 Ratio(%)	23.70%	23.28%	22.95%	23.95%	23.97%	23.71%	23.58%
O	227,985	109,486	165,580	133,416	131,677	35,498	803,642
比率 Ratio(%)	43.33%	44.07%	44.60%	43.86%	43.76%	42.49%	43.80%
AB	32,534	14,475	20,795	17,662	18,296	5,423	109,185
比率 Ratio(%)	6.18%	5.83%	5.60%	5.81%	6.08%	6.49%	5.95%
總計 Total	526,216	248,420	371,259	304,184	300,906	83,536	1,834,521

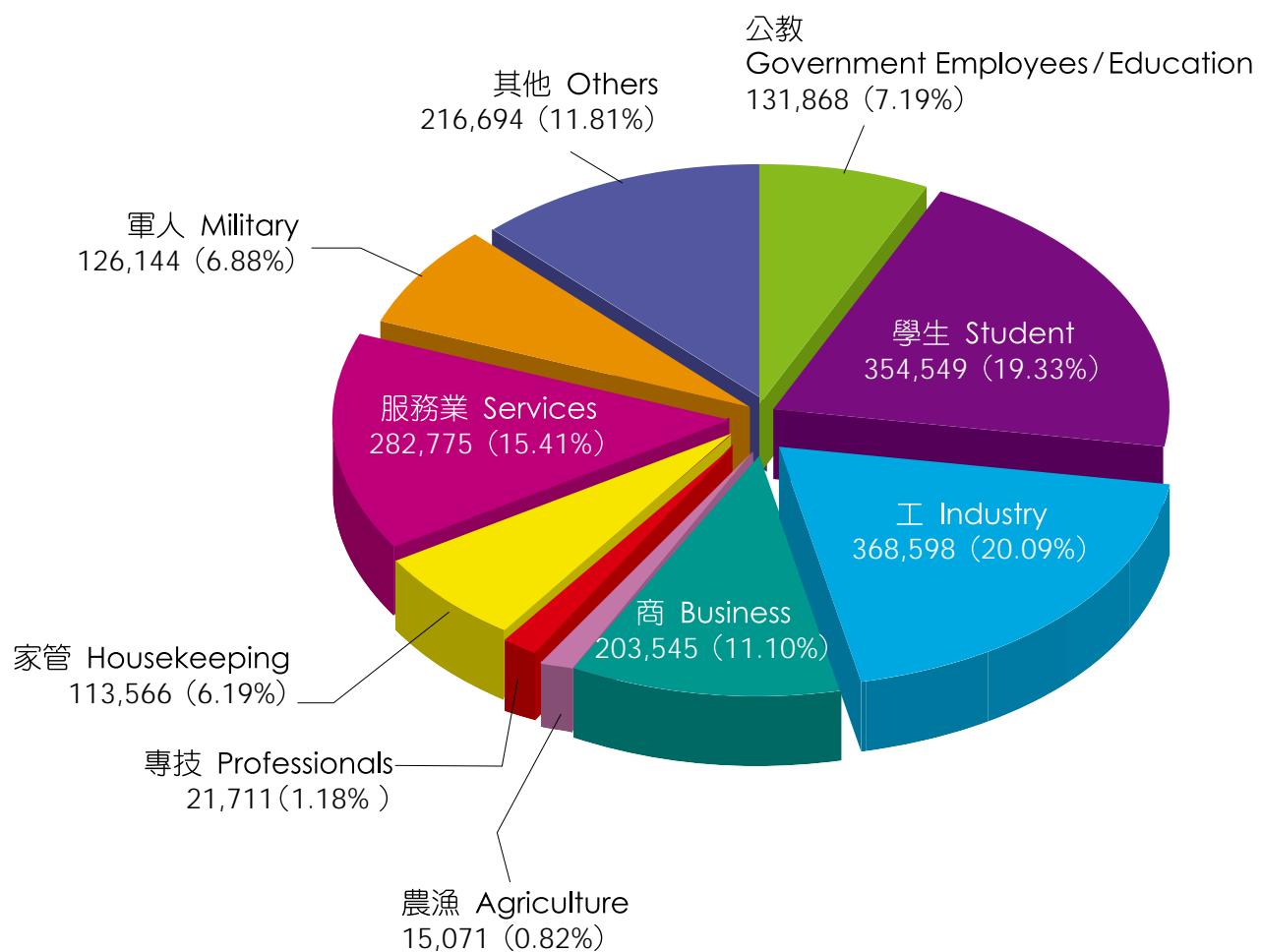


101年捐血人職業統計

Occupational Distribution of Donations, 2012

總計 Total : 1,834,521 人次

單位：人次
Unit : Donation





101年捐血前體檢不合格統計

Reasons of Donor Deferral by, 2012

單位：人次
Unit : Donation

項目 Reasons	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total
1 血紅素不足 Low Hemoglobin	32,812	12,721	16,903	18,512	19,373	5,235	105,556
2 血壓過高、過低 Blood Pressure too High or too Low	13,165	2,412	6,104	3,642	4,483	1,072	30,878
3 服用阿斯匹靈或其他藥物 Aspirin or other medications	11,278	3,690	5,141	3,876	2,941	1,868	28,794
4 D 檔、W 檔、R 檔、Q 檔 Temporary Deferral	8,457	1,158	8,858	1,542	5,295	455	25,765
5 捐血間隔未滿 Interval of Donations	4,686	170	7,567	308	3,346	27	16,104
6 睡眠不足 Lack of Sleeping	4,517	1,272	2,866	2,573	1,079	344	12,651
7 身體不適,正在醫療中 Under Medical Treatment	4,467	280	3,335	1,275	759	354	10,470
8 危險性行為者 High-Risk Sexual Behaviors	3,751	214	2,945	475	305	58	7,748
9 曾接受過輸血或外科手術 Recipient of Blood or Surgery	2,219	883	1,392	966	1,355	286	7,101
10 體重不足 Low Body Weight	2,523	508	1,324	705	1,003	323	6,386
11 其他 Other Abnormalities	18,383	5,194	11,899	5,930	7,414	1,992	50,812
志願捐血總人數 Total Donations	632,474	276,922	439,593	343,988	348,259	95,550	2,136,786
不合格人數 Deferred Donations	106,258	28,502	68,334	39,804	47,353	12,014	302,265
占志願捐血總人數比率 % of Deferred Donations	16.80	10.29	15.54	11.57	13.60	12.57	14.15

101年各捐血中心血液檢驗

Blood Screening by Blood Centers, 2012

單位：人次 / 比率
Unit : Donation /Ratio

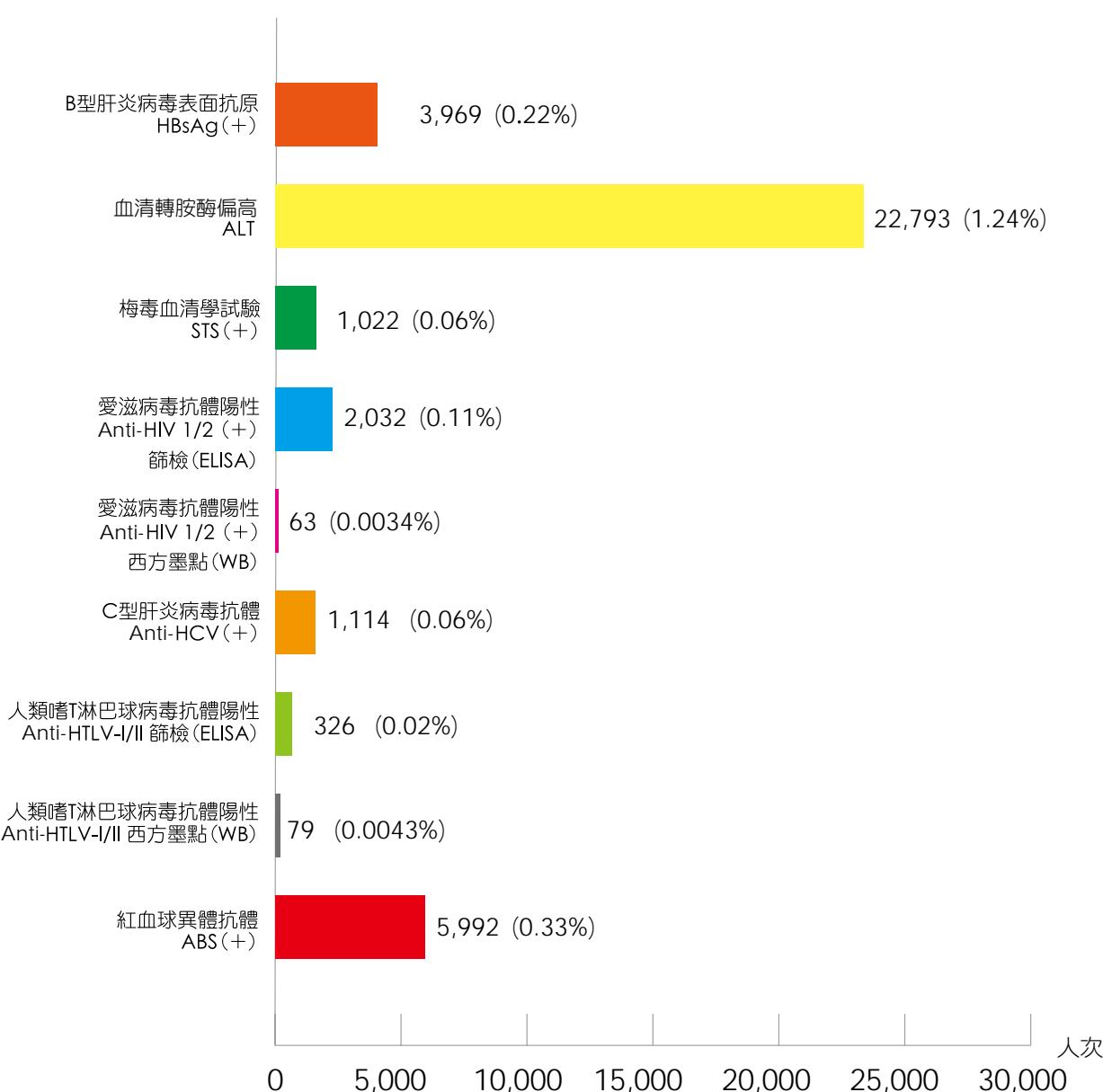
項目 Item	台北 捐血中心 Taipei	新竹 捐血中心 Hsinchu	台中 捐血中心 Taichung	台南 捐血中心 Tainan	高雄 捐血中心 Kaohsiung	花蓮 捐血中心 Hualien	總計 Total	
捐血數（人次）Total Tested	526,216	248,420	371,259	304,184	300,906	83,536	1,834,521	
檢驗不合格數 Unqualified Tested	7,870	4,430	6,578	5,742	4,863	1,423	30,906	
比率 Ratio (%)	1.50	1.78	1.77	1.89	1.62	1.70	1.68	
B型肝炎病毒表面抗原 HBsAg (+)	1,046	545	873	742	576	187	3,969	
比率 Ratio (%)	0.20	0.22	0.24	0.24	0.19	0.22	0.22	
血清轉胺酶偏高 ALT	5,600	3,247	4,932	4,331	3,687	996	22,793	
比率 Ratio (%)	1.06	1.31	1.33	1.42	1.23	1.19	1.24	
梅毒血清學試驗 STS (+)	359	209	143	118	118	75	1,022	
比率 Ratio (%)	0.07	0.08	0.04	0.04	0.04	0.09	0.06	
愛滋病毒抗體陽性 Anti-HIV 1/2 (+)	篩檢 (ELISA)	591	287	406	320	323	105	2,032
	比率Ratio (%)	0.11	0.12	0.11	0.11	0.11	0.13	0.11
	西方墨點 (WB)	13	8	8	14	17	3	63
	比率Ratio (%)	0.0025	0.0032	0.0022	0.0046	0.0056	0.0036	0.0034
C型肝炎病毒抗體 Anti-HCV (+)	245	141	219	266	187	56	1,114	
比率 Ratio (%)	0.05	0.06	0.06	0.09	0.06	0.07	0.06	
人類嗜T淋巴球病毒抗 體陽性 Anti-HTLV-I/II	篩檢 (ELISA)	104	40	58	57	36	31	326
	比率 Ratio (%)	0.02	0.02	0.02	0.02	0.01	0.04	0.02
	西方墨點 (WB)	26	13	18	3	10	9	79
	比率Ratio (%)	0.0049	0.0052	0.0048	0.0010	0.0033	0.0108	0.0043
紅血球異體抗體 ABS (+)	2,166	943	959	711	812	401	5,992	
比率 Ratio (%)	0.41	0.38	0.26	0.23	0.27	0.48	0.33	



101年血液檢驗不合格統計

Blood Screening, 2012

單位：人次 / 比率
Unit : Donation /Ratio



ABO亞型

ABO Subtypes, 2012

單位：人次
Unit : Donation

A亞型 (A subtype)		B亞型 (B subtype)		AB亞型 (AB subtype)		亞孟買型 (Parabombay)	
A ₂	6	B ₃	740	A ₁ B ₃	148	O ^{AB} _{Hm}	11
A ₃	6	B _{el}	48	A ₂ B	117	O ^A _{Hm}	64
A _{el}	96			A ₃ B	2	O ^B _{Hm}	88
A _m	6			AB ₃	60	O _{Hm}	57
A _x	2			AB _{el}	1		
				A _{el} B	7		
				cisAB	3		



人員配賦

Human Resources, 2012

各捐血中心工作人員分類

單位：人數
Unit : Person

區分 Classufcation	主任 Director	醫師 Physician	技術人員 Technical Staff	護理人員 Nursing Staff	行政人員 Administrative Staff	臨僱 Temporary	總計 Total
台北捐血中心 Taipei	1 (主任兼負責醫師)*	5	114	132	83	25	360
新竹捐血中心 Hsinchu	1 (副執行長兼任主任)*	2	41	43	46	7	140
台中捐血中心 Taichung	1 (主任兼負責醫師)*	3	46	79	59	16	204
台南捐血中心 Tainan	1 (主任兼負責醫師)*	4	39	68	51	28	191
高雄捐血中心 Kaohsiung	1	4	57	69	54	19	204
花蓮捐血中心 Hualien	1	2	9	23	18	6	59
總計 Total	6	20【23】**	306	414	311	101	1,158
比率 Rate	0.52%	1.73%	26.42%	35.75%	26.86%	8.72%	100%

註：

*醫師欄20人：含負責醫師3人、醫師1人、兼職醫師9人、支援醫師6人、顧問醫師1人。 $(3+1+9+6+1=20)$

**台北、台中、台南主任均兼任負責醫師列主任欄位，含3位主任兼負責醫師後醫師總計為23人。 $(20+3=23)$

本會員額統計

單位：人數
Unit : Person

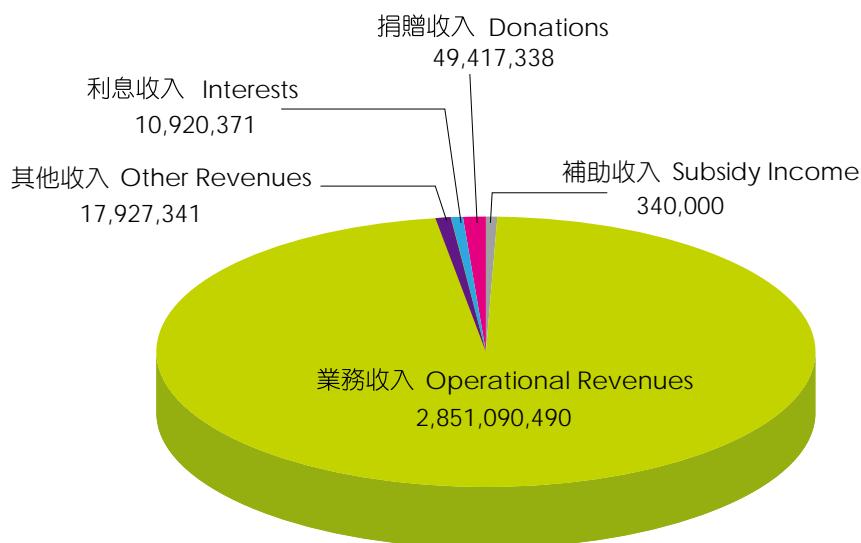
項目	各捐血中心	基金會	總計
編制內	1,057	34	1,091
臨僱	101	1	102
合計	1,158	35	1,193

101年經費收支

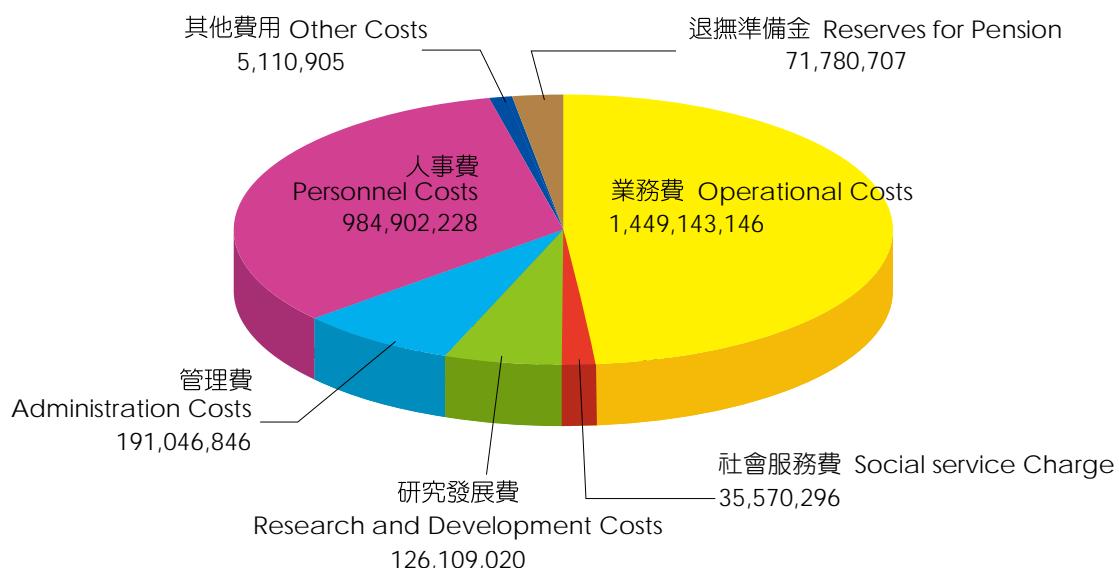
Incomes and Expenditures, 2012

單位：新台幣元
Unit : NT dollar

一、經費總收入 Total Incomes : 2,929,695,540



二、經常門支出 Total Expenditures : 2,863,663,148



三、經常門結餘 Balance : 66,032,392

四、資本門支出 Capital expenditures : 65,035,354 (設備購置)

註：醫療儀器設備、交通運輸設備、資訊設備、雜項設備及預付設備款。

Note : Medical equipment and facilities, transportation facilities, information facilities, miscellaneous items and pre-payment for facilities.



附 錄

Appendix



捐血通訊一覽表

Address and Telephone

台灣血液基金會 10066 台北市南海路3號3樓
 電話：02-2351-1600 傳真：02-2395-1002
 官方網站：www.blood.org.tw 愛捐血網站：www.i-blood.org.tw

【台北捐血中心業務轄區／台北市、基隆市、新北市、金門、馬祖】

名稱	服務時間	服務電話	地址
台北捐血中心	08:00~17:00	02-2897-1600	台北市北投區立德路123號 (近捷運忠義站)
捐血站			
基隆捐血站	08:00~18:00 (週一延至19:00)	02-2427-8500	基隆市信義區信一路14號1樓
板橋捐血站	08:00~18:00 (週一延至19:00)	02-2952-4117	新北市板橋區中山路一段50巷36號 2樓之4 (近捷運府中站2號出口)
捐血室			
關渡捐血室	08:00~17:00	02-2897-1600 分機6141	台北市北投區立德路123號 (近捷運忠義站)
南海捐血室	08:00~17:30	02-2351-1601	台北市中正區南海路1號3樓 (近捷運中正紀念堂站1號出口)
市府捐血室	09:00~17:00 (週日不作業)	02-2720-8889 分機3383	台北市信義區市府路1號 (台北市政府西大門內左側)
長春捐血室	09:00~17:30 (週日不作業)	02-2731-4801	台北市松山區復興北路69號5樓 (近捷運南京東路站)
三重捐血室	09:00~17:00 (週一延至18:00、 週六不作業)	02-2986-2780	新北市三重區重新路三段81號3樓 (近捷運菜寮站3號出口)
汐止捐血室	09:00~17:00 (週六不作業)	02-2642-8013	新北市汐止區新台五路一段234號 6樓之1
新店捐血室	09:00~17:00 (週一延至19:00)	02-2218-8867	新北市新店區民權路95號6樓之2 (近捷運大坪林站1號出口)



名稱	服務時間	服務電話	地址
捷運台北捐血室	10:00~18:00 (週一不作業)	02-2370-6880	台北市捷運台北車站B1, M7號出口 (誠品書店旁)
定點車			
台大號捐血車	09:00~17:00	02-2364-4952	台北市大安區新生南路三段 (台灣大學側門口,近捷運公館站3號出口)
忠孝號捐血車	11:00~19:00 (週一不作業)	02-2751-2351	台北市大安區大安路一段瑠公公園旁 (近東區地下街14號出口)
公園號捐血車	10:00~18:00 (週二不作業)	02-2381-1268	台北市中正區228和平公園內 (襄陽路與公園路口,近捷運台大醫院4號出口)
峨嵋號捐血車	13:00~21:00	02-2375-1189	台北市萬華區峨嵋街83號 (西門町峨嵋立體停車場旁,近捷運西門町站6號出口)
新光站前號捐血車	11:00~19:00 (配合新光三越百貨公司活動不定期取消)	0961-236683	台北市中正區忠孝西路一段66號 (新光摩天大樓前廣場,新光三越站前店,捷運台北車站M6出口)
新莊號捐血車	10:00~18:00 (週五不作業)	02-8994-1488	新北市新莊區中華路一段與復興路一段交叉口(近捷運新莊站1號出口)
中和號捐血車	09:00~17:00 (週六、日不作業)	02-2929-9437	新北市中和區中安街85號 (國立中央圖書館旁,近捷運永安市場站)
土城號捐血車	09:00~17:00 (週六、日不作業)	02-8262-5140	新北市土城區裕民路171巷口 (近捷運海山站3號出口)

【新竹捐血中心業務轄區／桃園縣、新竹縣、新竹市、苗栗縣】

地點	服務時間	服務電話	地址
新竹捐血中心	08:00~17:00	03-555-6111	新竹縣竹北市光明11路215巷8號
捐血站			
桃園捐血站	08:00~18:00	03-332-7651	桃園市文康街61號 (西門國小地下停車場旁)
苗栗捐血站	08:00~18:00	037-274-980	苗栗市為公路282號
捐血室			
愛心樓捐血室	08:00~17:00	03-551-7113	新竹縣竹北市光明11路215巷8號
長庚捐血室	09:00~17:30 (週日及國定假日不作業)	03-396-0749	桃園縣龜山鄉公西村復興街5號 (林口長庚醫院醫學大樓地下1樓美食街旁)
中壢捐血室	09:00~18:00	03-427-8452	中壢市復興路117號2樓 (復興路與中平路交叉口)
西大捐血室	09:30~17:30	03-521-3354	新竹市西大路559號 (市立棒球場大門旁)
頭份捐血室	09:00~17:00 (週二及週四不作業)	037-682-883	苗栗縣頭份鎮仁愛路116號 (為恭醫院中醫部旁)



【台中捐血中心業務轄區／台中市、彰化縣、南投縣】

地點	服務時間	服務電話	地址
台中捐血中心	08:00~17:00	04-246-12345	臺中市西屯區臺灣大道四段1176號
捐血站			
彰化捐血站	08:00~18:00	04-711-0313	彰化市中山路一段348號
埔里捐血站	08:00~18:00	049-298-1019	南投縣埔里鎮北環路222號
捐血室			
中港捐血室	08:00~18:00	04-246-12345 分機107	臺中市西屯區臺灣大道四段1176號
中正公園捐血室	09:00~17:00	04-223-64473	臺中市北區學士路91號正對面 (中國醫藥學院附設醫院復建大樓正對面)
三民捐血室	08:00~17:00	04-222-70393	臺中市西區三民路一段174號7樓
定點車			
臺中公園捐血車	09:00~17:00 (週一不作業)	04-222-31085	臺中市北區精武路291-3號對面 (中興堂對面停車場)
新光三越捐血車	10:00~18:00	04-225-15683	臺中市新光三越百貨後方惠安停車場內 (市政北七路、惠來路二段路口)
興大捐血車	09:00~17:00 (週六、日及國定 假日不作業)	04-228-59563	臺中市南區國光路、興大路口

【台南捐血中心業務轄區／臺南市、嘉義縣、嘉義市、雲林縣】

地點	服務時間	服務電話	地址
臺南捐血中心	08:00~17:00	06-213-1212	臺南市永福路一段85號
捐血站			
雲林捐血站	08:00~18:00	05-532-0866	雲林縣斗六市莊敬路300號 (成大醫院雲林分院斜對面)
嘉義捐血站			
嘉義捐血站	08:00~18:00	05-233-5952	嘉義市博愛路一段488號 (進北興陸橋、自由路)
捐血室			
愛心樓捐血室	08:00~18:30	06-213-1212 分機100	臺南市永福路一段85號
虎尾捐血室	08:00~17:00 (春節、清明、端午、中秋節不作業)	05-636-1161	雲林縣虎尾鎮光復路446號2樓
永康捐血室	08:00~17:00 (春節、清明、端午、中秋節不作業)	06-312-1255	臺南市永康區復興路427號 (永康榮民醫院八樓)
新營捐血室	08:00~17:00 (春節、清明、端午、中秋節不作業)	06-632-8473	臺南市新營區信義街73號 (衛生署新營醫院東側門)
捐血點			
斗六車站	09:30~17:30	05-533-9924	雲林縣斗六市火車站西側
捐血點	(週一、春節、清明、端午、中秋節不作業)		



地點	服務時間	服務電話	地址
嘉義公園 捐血點	09:00~17:00 (週一、春節、清明、端午、中秋節不作業)	05-271-1218	嘉義市中山路底與啟明路交叉路口 (家庭教育館斜對面體育場停車場內)
中山捐血點	10:00~18:00 (週日、春節、清明、端午、中秋節不作業)	06-229-5706	台南市公園路上台南公園旁 (兵配廠對面)
成大捐血點	11:00~18:00 (週日、春節、清明、端午、中秋節不作業)	06-208-2670	臺南市勝利路上與大學路交叉口

【高雄捐血中心業務轄區／高雄市、屏東縣、澎湖縣】

地點	服務時間	服務電話	地址
高雄捐血中心	08:00~17:00	07-366-0999	高雄市楠梓區高楠公路1837號
捐血站			
屏東捐血站	08:00~18:00	08-752-1917	屏東市和平路71號
馬公捐血站	08:00~18:00	06-926-2606	馬公市中山路62號
捐血室			
楠梓捐血室	08:00~17:00	07-364-1832	高雄市楠梓區高楠公路1837號
前金捐血室	09:00~17:30	07-282-7465	高雄市前金區中華三路7號6樓
岡山捐血室	09:00~17:00	07-621-6524	高雄市岡山區壽華路58號
捷運前鎮捐血室	09:30~17:30	07-813-7149	高雄市前鎮區翠亨北路225號 (捷運前鎮高中站B1, 1號出口)
左營捐血室	09:30~18:00	07-348-7155	高雄市左營區博愛三路635號
捷運鳳山捐血室	09:30~17:30 (週一、週二不作業)	07-745-9181	高雄市鳳山區光遠路226號 (捷運大東站B1, 1號出口)
捐血車			
十全金聲號捐血車	09:30~18:00	07-313-7631	高雄市三民區十全路三民公園前
鳳山金聲號捐血車	09:00~18:00 (週三、週六不作業)	07-747-3421	高雄市鳳山區立志街（鳳凌廣場前）
文化號捐血車	10:00~18:00 (週一不作業)	07-223-4708	高雄市苓雅區和平一路文化中心內



【花蓮捐血中心業務轄區／花蓮縣、宜蘭縣、台東縣】

地點	服務時間	服務電話	地址
花蓮捐血中心	08:00~17:00	03-856-0990	花蓮市中山路一段170號
捐血站			
宜蘭捐血站	08:00~17:00	03-932-5544	宜蘭市擺厘路16-7號
台東捐血站	08:00~17:00	089-221-995	台東市四維路三段198號
捐血室			
花蓮捐血中心	08:00~17:00	03-856-0990 分機123	花蓮市中山路一段170號
定點車			
萬連號羅東	09:00~17:00	03-957-6206	宜蘭縣羅東鎮中興路3號
定點車	(週二、週四及春 節期間不作業)		(羅東鎮公所前停車場內)

Address and Telephone

Head Office

TAIWAN BLOOD SERVICES FOUNDATION

3 Fl. No. 3 Nan-Hai Road, Taipei 10066, Taiwan, R.O.C.

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

Website : www.blood.org.tw
www.i-blood.org.tw

Regional Office

Taipei Blood Center

No. 123 Lih-Der Road, Taipei 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

Hsinchu Blood Center

No. 8, Lane 215, Guangming 11th Road, Jhubei City, Hsinchu County 302, Taiwan, R.O.C.

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

Executive Region : Taoyuan County, Hsinchu County, Miaoli County

Taichung Blood Center

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

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

Executive Region : Taichung City, Changhua County, Nantou County

Tainan Blood Center

No. 85, Sec. 1, Yongfu Road , Tainan 700, Taiwan, R.O.C.

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

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

Kaohsiung Blood Center

No. 1837 Gaunan-Gung Road, Kaohsiung 811, Taiwan, R.O.C.

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

Executive Region : Kaohsiung City, Pingtung County, Penghus County

Hualien Blood Center

No. 170, Sec. 1 Jhongshan Road, Hualien 970, Taiwan, R.O.C.

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

Executive Region : Hualien County, I-Lan County, Taitung County



捐血者健康標準

Criteria for Donor Selection

中華民國95年3月15日衛署醫字第0950207650號令發布

第一條 本標準依血液製劑條例第十四條第二項規定訂定之。

第二條 捐血者須符合下列條件，始得捐血：

一、年齡：

- (一) 17歲以上，65歲以下，一般健康情況良好。
- (二) 未滿17歲者，應視體能狀況，並經法定代理人之同意，始得捐血。
- (三) 逾65歲者，除應健康情況良好外，並應取得醫師之同意，始得捐血。

二、體重：

- (一) 女性應45公斤以上，男性應50公斤以上。
- (二) 捐分離術血小板、分離術白血球及分離術血漿者，應50公斤以上。

三、體溫：口溫不超過攝氏37.5度。

四、血壓：收縮壓90-160毫米汞柱，舒張壓50-95毫米汞柱，如兩者之距離低於30或高於90毫米汞柱，須經醫師許可。

五、血液檢查：

- (一) 血 紅 素：男性13公克%以上（使用硫酸銅法時血液比重1.054）。女性12公克%以上（使用硫酸銅法時血液比重1.052）。
- (二) 血 小 板：捐血小板者，其血小板數目應在 $15 \times 10,000/\text{mm}^3$ 以上。
- (三) 白 血 球：捐白血球者，其絕對顆粒球數目應在 $3,000/\text{mm}^3$ 以上。
- (四) 血漿總蛋白：捐血漿者，應於首次捐血暨每隔半年加驗血漿總蛋白量，其血漿總蛋白應在 6g/dl 以上。

第三條 捐血者每次之捐血量及捐血間隔如下：

- 一、每次捐血以250毫升為原則，但體重60公斤以上者，每次捐血得為500毫升。
- 二、每次捐血250毫升者，其捐血間隔應為2個月以上；每次捐血500毫升者，其捐血間隔應為3個月以上。但男性年捐血量應在1,500毫升以內；女性年捐血量應在1,000毫升以內。
- 三、捐分離術血小板、分離術白血球或分離術血漿者，每次之間隔為2星期以上。
- 四、捐分離術血漿量每次以500毫升為限，其全年捐血漿量不得超過12公升。

第四條 捐血者有下列情形之一者，應暫緩捐血：

- 一、婦女懷孕中或產後（含流產後）6個月以內者。
- 二、大手術未滿1年或1年內曾接受輸血者。
- 三、4星期內曾接種麻疹、德國麻疹、腮腺炎及小兒麻痺（口服）等活性減毒疫苗者。
- 四、6個月內曾罹患肝炎或密切接觸肝炎病患者。
- 五、現患梅毒、活動性結核病、糖尿病、心臟病、消化道潰瘍出血、高血壓、腎臟病、哮喘、感冒、急性感染、傳染病、過敏病症者。
- 六、自瘧疾疫區回國1年內或曾在3年內罹患瘧疾者。
- 七、曾在72小時內拔牙者。
- 八、曾在5天內服用含Aspirin類藥物或其他可抑制血小板功能之藥物者，不得捐血小板。
- 九、B型肝炎表面抗原檢查呈陽性反應者。
- 十、C型肝炎病毒抗體檢查呈陽性反應者。
- 十一、民國69年至85年間曾在英國輸血或曾至英國旅遊或居留時間合計超過3個月者，或民國69年以後曾於歐洲旅遊或居留時間合計超過5年者。
- 十二、經通報為嚴重急性呼吸道症候群疑似或可能病例，於治療痊癒後，未逾3個月內者。
- 十三、曾與嚴重急性呼吸道症候群疑似或可能病例密切接觸，於最後接觸日起1個月內者。
- 十四、自有地區性傳播嚴重急性呼吸道症候群之地區回國後1個月內者。
- 十五、自西尼羅病毒流行區離境日起1個月內者。
- 十六、懷疑自己感染愛滋病毒者或2年內曾與可能感染愛滋病毒者發生性行為者。
- 十七、1年內曾從事危險性行為或曾罹患性病（梅毒、淋病、披衣菌、生殖器皰疹、軟性下疳、尖型濕疣等）者。
- 十八、1年內曾刺青者。



第五條 捐血者有下列情形之一者，永不得捐血：

- 一、曾患惡性腫瘤、白血病或其他經醫師認為永久不得捐血者。
- 二、曾有出血不止、抽癇或昏迷之病史者。
- 三、曾有吸毒或慢性酒精中毒者。
- 四、靜脈注射藥物成癮者、男性間性行為者及長期使用血液製劑者。
- 五、曾為AIDS患者。
- 六、愛滋病毒第一型及第二型（HIV-I / HIV-II）抗體檢查經確認呈陽性反應者。
- 七、人類嗜T淋巴球病毒第一型（HTLV-I）抗體檢查經確認呈陽性反應者。
- 八、曾罹患庫賈氏病者（CJD）、曾注射人類腦下垂體生長荷爾蒙者、曾注射人類腦下垂體親殖腺素（human pituitary gonadotropins）者、曾注射牛胰島素等生物製劑者、曾接受硬腦膜移植者或家族中有庫賈氏病（CJD）患者。
- 九、曾從事性工作者。

第六條 捐血機構對捐血者實施健康篩檢之項目如附表。

第七條 本標準自發布日施行。

附表：捐血者健康篩檢項目

Screening Items for Blood Donors

一、體重：女性應45公斤以上，男性應50公斤以上。

二、體溫：口溫不超過攝氏37.5度。

三、血壓：收縮壓90~160毫米汞柱，舒張壓50~95毫米汞柱，如兩者之距離低於30或高於90毫米汞柱，須經醫師許可。

四、血液檢查

(一) 血 紅 素：男性13公克%以上（使用硫酸銅法時血液比重1.054）。

女性12公克%以上（使用硫酸銅法時血液比重1.052）。

(二) 血 小 板：捐血小板者，其血小板數目應在 $15 \times 10,000/\text{mm}^3$ 以上。

(三) 白 血 球：捐白血球者，其絕對顆粒球數目應在 $3,000/\text{mm}^3$ 以上。

(四) 血漿總蛋白：捐血漿者，應於首次捐血暨每隔半年加驗血漿總蛋白量，其血漿總蛋白應在6g/dl以上。

五、ABO血型檢驗。

六、Rh血型檢驗。

七、紅血球異體抗體篩檢。

八、血清轉胺酶檢驗（ALT）。

九、梅毒血清檢驗（STS）。

十、B型肝炎病毒表面抗原檢驗（HBsAg）。

十一、人類免疫缺乏病毒第一型、第二型抗體檢驗（Anti-HIV-1/2）。

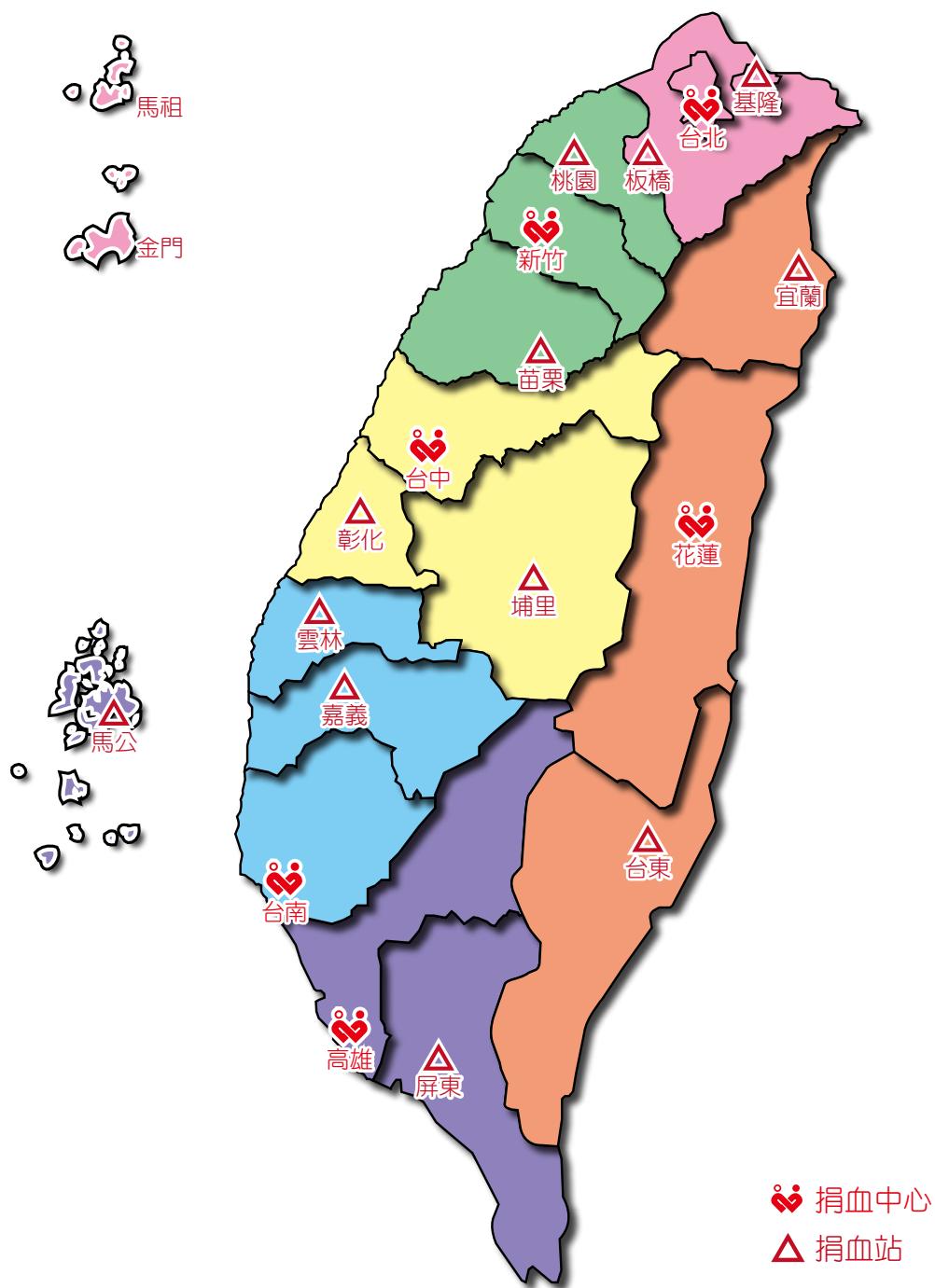
十二、C型肝炎病毒抗體檢驗（Anti-HCV）。

十三、人類嗜T淋巴球病毒第一型、第二型抗體檢驗（Anti-HTLV-I/II）。



捐血機構分佈

Distribution of Blood Collection Facilities



捐血中心

捐血站



論文摘要

RESEARCH ABSTRACTS



Decreased Deformability of Erythrocyte in Blood Donors with Thalassemia Minor

W Chen, JW Chen, KS Lin

Head office, Taiwan Blood Services Foundation, Taipei, Taiwan

Background: Many literatures have reported that individuals with thalassemia minor are at a lower risk of cardiovascular disease, but the reasons of the lower risk of cardiovascular disease are still unclear.

Aims: To investigate the role of blood viscosity, serum cholesterol and the other biophysical factors in blood donors with thalassemia minor.

Methods: The research analyzed the risk factors, including hematocrit, blood viscosity, red cell counts, serum cholesterol, erythrocyte deformability and erythrocyte aggregation. We divided the blood donors into two groups according to the mean red cell volume (MCV), 35 blood donors are classified into thalassemia minor ($MCV < 70$, high RBC counts, genetic diagnosis, HPLC, normal ferritin), and 26 donors as normal control group ($MCV > 75$, normal RBC counts, HPLC, normal serum ferritin level). The studies determined the correlations between the possible risk factors for the cardiovascular disease. In considering the fact that the value of Hct, blood viscosity and ferritin will be affected by the female menstrual cycle, our studies included male blood donors only.

Results: The data showed that hematocrit, whole blood viscosity, serum cholesterol and erythrocyte aggregation were slightly lower in thalassemia donors than those in normal control of the same gender and age groups. However, there were no significant differences of these analyses between these two study groups. In further analysis, erythrocyte deformability showed 0.233 for thalassemia minor and 0.335 for normal donor group ($P < 0.01$).

Conclusions: Significantly lower deformability of erythrocyte was found in the thalassemia minor donors. We could not rule out the possible reasons for the changes in RBC membrane structure, resulting in blood rheology characteristics change. This finding may be not a sole factor contributing higher vascular incidence. Other factor(s) should be considered altogether and further investigation in lower incidence of cardiovascular disease in thalassemia minor people is necessary.



Plasma Proteomic Analysis in Blood Donors with Occult Hepatitis B Virus Infection

Lei Li¹, Chen-Chung Liao², Chun-Tai Chang¹, Meng-Hua Yang¹, Ying-Shen Hung¹, Cheng-Shen Hung¹, Su-Jen Lin Tsai³, Kuo-Sin Lin³

¹Taipei Blood Center, Taiwan Blood Services Foundation, Taipei, Taiwan,

²Proteomics Research Center, National Yang Ming University, Taipei, Taiwan,

³Head Office, Taiwan Blood Services Foundation, Taipei, Taiwan

Background: Occult HBV infection (OBI) is defined as with detectable HBV DNA and undetectable surface antigen (HBsAg) in serum. The occurrence and pathogenesis of OBI still remain unclear. An understanding of how proteins change in donors with OBI could lead to a better understanding of the development of OBI.

Aims: The objectives of this study were to analyze the differences in protein expression between OBI and HBV uninfected donors and to find the possible factors that were involved in the development of OBI.

Methods: The proteomic analysis of plasma was performed on 3 donors with OBI and 3 HBV uninfected healthy controls. Plasma was separated by SDS-PAGE and analyzed by Nano-LC-LTQ Orbitrap after in-gel digestion processing. SEQUEST and Protein-Q software were used for protein identification and quantification. The differentially expressed plasma proteins in this study were subjected to functional pathway analysis using Ingenuity Pathway Analysis for better understanding of the biological context of the identified proteins.

Results: A total of 189 proteins were identified and quantified from donor plasma. The results of quantitative analysis indicated that 23 proteins were statistically differentially expressed between the OBI and uninfected healthy donors ($p<0.05$). Canonical pathway analysis of these proteins showed that liver X receptor (LXR) / retinoid X receptor (RXR) activation was the most significant pathway between the two groups ($p=1.21\times10^{-10}$). It was known that LXR/RXR activation leads to increase hepatic lipogenesis. Therefore, abdominal sonography was used to examine ten OBI donors. Noticeably, four of them were found with fatty liver. The prevalence of fatty liver in donors with OBI (40%) was higher than that found in the general population (25.2%) of Taiwan.

Conclusions: We identified several differentially expressed proteins in OBI donors that might be used as biomarkers. Moreover, our results suggested that OBI could activate LXR/RXR and to enhance hepatic lipogenesis.

The Trend and Associated Factors of Platelet Components Utilization in Taiwan

Chi-Te Lu¹, Kuan-Tsou Lin¹, Chi-Ming Hung¹, Kuo-Sin Lin², Chao-Sung Chang³

¹Kaohsiung Blood Center, Taiwan Blood Services Foundation,

²Taiwan Blood Services Foundation,

³Graduate Institution of Healthcare Administration, Kaohsiung Medical University

Background: The blood components are primarily supplied by the six Blood Centers of Taiwan Blood Services Foundation, and reimbursed by national health insurance (NHI) in Taiwan. The recruitment and utilization of platelet components remains an important issue to be investigated for the cost-effectiveness of platelet usage under global budget of NHI, Taiwan.

Aims: This study aims to investigate the platelet components utilization and its trend in Taiwan and to perform an international comparison between Taiwan and other countries. Factors associated with the usage of platelet components were also studied.

Methods: We performed a longitudinal, retrospective analysis of platelet components usage using secondary data from NHI, Taiwan from 2004 to 2008. The patients' demography, hospital characteristics, disease diagnosis and the quantity of platelet components (PC) from both random donor and apheresis PC were analyzed. Statistical analysis including descriptive analysis, student t-test, ANOVA, and univariate analysis were performed using PASW Statistics 18.0 Software for Windows package.

Results: The utilization of platelet concentrate was increasing by years from 1.89%, 2005 to 29.64%, 2008 in Taiwan with predominantly the apheresis platelet blood component. The usage of random donor platelet concentrates was decreasing. Platelets apheresis-equivalent units per 1,000 population per year was 9.62 in Taiwan, which was significantly higher than that of US in 2008, 6.64. On analyzing the platelet usage distribution from 2004 to 2008, we found that Taipei branch of Bureau of National Health Insurance (BNHI), Taiwan had the highest platelets apheresis-equivalent units, 9.94 ± 0.91 , and the Central Region Branch with the lowest, 6.57 ± 0.97 . The academic medical centers used the most of platelet components (66.4%), followed by regional hospitals (28.2%), and local hospitals (5.4%). The department of hematology and oncology used the most of platelet components, followed by department of gastrointestinal Medicine, Surgery, Chest Medicine. The platelet components usage by diseases showed the highest in neoplasms (32.85%), followed by diseases of the digestive system (13.71%), circulatory system (10.04%), respiratory system (9.10%), and disease of the blood and blood-forming organs (6.80%).

Conclusions: The utilization of platelet components was increasing gradually by years. Various factors including district, hospital accreditation, department and disease pattern influence the usage of platelet components. This result provides an evidence for blood recruitment policy-making of Taiwan blood donation center. Further study is needed for the optimal platelet usage and better management in platelet components.



An Insertion in *EKLF/KLF1* Gene Causes In(Lu) Blood Group

Meng-Hua Yang¹, Ya-Fang Kuo², Ying-Shen Hung¹, Chia-Hung Hsieh¹,
Cheng-Shen Hung¹, Kuo-Sin Lin³

¹Taipei Blood Center, Taiwan Blood Services Foundation,

²Hsinchu Blood Cneter, Taiwan Blood Services Foundation,

³Head Office, Taiwan Blood Services Foundation, Taipei, Taiwan

Background: It was reported almost all Taiwanese are Lu (a-b+) in Lutheran blood group. In the past, only one Lu (a-b-) case was reported after screening 1,992 individuals in Taiwan. It was confirmed an In (Lu) blood group, and has a dominant mode of inheritance in his family. In (Lu) phenotype results from reduced expression of Lutheran antigens, and weaken expression of other blood group antigens such as AnWj, P1, etc. The molecular basis of In (Lu) was discovered in 2008. Mutations in Erythroid Krüppel-Like Factor (*EKLF/KLF1*) gene, which encodes an erythroid transcription factor, are causative to this rare In(Lu) blood group. *EKLF/KLF1* mutations in humans result in many erythroid phenotypes such as hereditary persistence of fetal hemoglobin (HPFH), congenital dyserythropoietic anemia (CDA), etc. Here we discuss a rare Lu(a-b-) donor who was confirmed an In(Lu) phenotype.

Study Design/ Methods: Twenty-two blood group antigens including Lua and Lub were phenotyped by gel column agglutination methods. Human Anti-AnWj collected from an Anwj (-) patient was a gift from Kaohsiung blood center. Sequence analysis of *LU* gene was conducted especially for the known mutations. The coding regions of *EKLF/KLF1* gene were amplified and sequenced.

Results: This donor was at first one of the candidates for antibody screening cells panels. The full testing of blood group antigens was conducted serologically. It is revealed that this donor is Lu (a-b-), a rare blood group phenotype in Taiwan. This donor is also P1 (-), and had anti-P1 alloantibody before. The titer was negative to trace when Lu (a-b-) RBC be tested with human anti-AnWj. From the results, we considered the donor is In (Lu) blood group. Sequence analysis for *LU* gene showed no variation. A CGGCGGCC insertion in nucleotide 526_527 was discovered in *EKLF/KLF1* gene of this donor. This mutation causes a frame shift; it was also reported in two HPFH patients who are Korean and Vietnamese. Our In (Lu) donor has a slightly elevated HbF (2.1%, reference range: 0.0-2.0%), and the HbA2 and HbA are within normal range(HbA2: 2.9%; HbA: 95%). The RBC morphology is normal. Neither anemia nor other clinical features are shown.

Conclusions: In this study, we reported a rare In(Lu) donor who has a 7 base pairs insertion (526_527 Ins CGGCGGCC) in *EKLF/KLF1* gene. We identified In (Lu) donor unintentionally, mainly because the lack of pathological features. It was well known the Erythroid Krüppel-Like Factor is essential for terminal differentiation of erythroid cells. Mouse *EKLF/KLF1* null mutants failed to activate expression of β-globin. Thalassemia is one of the common genetic diseases in Taiwan. Study the different mutations of *EKLF/KLF1* gene and the downstream genes might clarify the associated phenotypes.

The Applicability of pH Indicator Strips For Detecting Bacterial Contamination of Platelet Concentrates

Chang, Tzu-Hsun¹; Yang, Tyng-Tyng¹; Peng, Jian-Ting²; Yang, Bing¹

¹Hsinchu Blood Center, Taiwan Blood Services Foundation, Zhubei, Hsinchu, Taiwan.

²Medical Technology, Chang-Gung Memorial Hospital at Linkou, Linkou, Taoyuan, Taiwan

Background: The pH values of platelet concentrates (PCs) derived from whole blood at day 4 or day 5 were measured by pH strips before issued from blood bank. It was suspicious of bacterial contamination for those of pH values lower than 6.5 and were returned to blood center. The object was to evaluate the eligibility of pH value determination as surrogate test for bacterial contamination.

Methods: The PCs was sampled from those returned from hospital because of low pH value. These samples' platelet contents were examined by Sysmex KX-21N and their pH values were detected by Merck pH-indicator strip and JENCO model 6173 pH /mV/Temp meter. The bacterial detection was done by Bact/Alert 3D culture system. Samples were inoculated in the BPA and BPN bottles for 6 ml each and cultured at 35°C for 24 hours and 7 days respectively.

Results: Total of 69 bags were collected and it counted for 0.63% of PCs issued to the hospital. All samples were qualified in platelet content and volume per unit (blood components derived from 250 ml whole blood as a unit) according to the requirements for quality control. Fourteen bags had pH value higher than pH 6.2 which is the standard in the last day of shelf life. All samples were negative in bacterial detection. By visual inspection, no swirling phenomena were observed for samples with pH lower than 6.5. There was the other group of data from routine quality control and the average of pH was 7.26 and platelet concentration was $1396 \times 10^3/\mu\text{l}$. For returned PC group, the averages of pH and platelet concentration were 5.91 and $2224 \times 10^3/\mu\text{l}$ respectively. To compare these two groups in pH value or in platelet concentration by t-test, both of the comparisons were statistically significant. Components with high level of platelet content usually had lower pH value.

Conclusions: Those PCs which were returned from hospital had higher platelet concentrations and lower pH values than qualified PCs. There were 61 bags of returned PCs with platelet content higher than two time of quality requirement, ($\geq 5.5 \times 10^{10}/\mu\text{l}$) and it could be the major reason that made their pH so low. Moreover, no bacteria were detected in all samples. It meant that low pH value of PC didn't reflect high risk of bacterial contamination. We also found that no swirling phenomenon was observed in the platelet component of pH lower than 6.5. It is important to ensure that platelet components reveal swirling phenomena before distribution.



P₁/P₂ Genotype Screening in southern Taiwan

Ya-Chun Wang¹, Kuan-Tsou Lin¹, Kuo-Sin Lin², Chi-Ming Hung¹, Tsun-Mei Lin^{3,4}

¹Kaohsiung Blood Center, Taiwan Blood Services Foundation,

²Taiwan Blood Services Foundation,

³Departments of Laboratory Medicine and

⁴Medical Research, E-DA Hospital /I-SHOU University, Kaohsiung, Taiwan

Background: In the field of clinical transfusion medicine, there are two common P₁ and P₂ histoblood groups which are the glycolipid system. Recently, a novel *A4GALT* exon that determined the expression of the P₁/P₂ phenotypes was reported. The nucleotide position 42 C>T at an alternative exon 2 (named exon 2a) of *A4GALT* could lead into a potential start codon in the P2 and predicted that produce a short open reading frame of 28 amino acids. However, the frequency of this novel *A4GALT* polymorphism of Taiwanese has not yet been illustrated. The aim of the study was to investigate the frequency of the polymorphism at exon 2a of *A4GALT* gene responsible for P₁/P₂ expression in southern Taiwan.

Methods: We collected serologically confirmed P₁ phenotype (n=100) and P₂ phenotype (n=100) blood donors and analyzed the polymorphisms 42C>T at exon 2a of *A4GALT* by the methods of polymerase chain reaction and restriction fragment length polymorphism (PCR-RFLP).

Results: All 100 P₂ samples analyzed by PCR-RFLP were homozygous for 42C>T. Furthermore, seven of 100 (7%) P₁ samples showed nucleotide cytosine homology and 93 of 100(93%) were heterozygous for 42C>T.

Conclusions: We confirmed the nucleotide position 42 at the novel *A4GALT* exon were candidates for differentiating from P₁/P₂ status. In addition, we displayed the frequencies of P₁/P₂ genotype in southern Taiwan.

我們的願景

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