

The redesignation form consists of three parts

- Part I - Basic Information
- Part II – Proposed revised terms of reference
- Part III - Proposed work plan

Folder eCC_00003687 is in stage Redesignation Form

Institution Name Shanghai Blood Centre			
Name of Department, unit, section or area of the institution designated as WHO.CC			
City	Shanghai	Country ID	CHN-55
Country	CHINA		
Title	WHO Collaborating Centre for Blood Transfusion Services		

Part I - Basic Information

1.1 Name of the Director of the institution	Prof. Yongming ZHU
1.2 Name of the Head of the proposed WHO Collaborating Centre	Prof Yongming ZHU
1.3 Address of the institution	1191, Hongqiao Road, 200051 -
1.4 City	Shanghai
1.5 State/Region/Canton/Province	Shanghai
1.6 Postal Code	200051
1.7 Country	CHINA
1.8 Telephone	(86-21) 6278 0789
1.9 Fax	(86-21) 6295 8414
1.10 Web site	http://www.sbc.org.cn

1.11 Organizational chart

Part_I-1 8(2008)~1.DOC

1.12 List of professional staff of the WHO Collaborating Centre with an indication of their qualifications (do not include full CVs)

Physician : 6
Nurse: 92
Scientist : 43
Technician: 141
Administration: 56
Others: 56*
Total: 394*

Note:

* including the staffs of logistic service, drivers, etc.

Source: Human Resource Department, Shanghai Blood Center, 2008-6-30

1.13 Facilities available (e.g. laboratories, training facilities, documentation centre, etc.)

Blood Testing Lab
Immunohaematology Red Blood Cell Lab
Immunohaematology Platelet Blood Group Lab
Blood Engineering Lab
Transfusion -transmitted Disease Lab
Blood Typing Lab
Main Instruments of the WHOCC includes:
BioArchive Auto-Preserved Liquid Nitrogen System
STAR8CH+FAME24/30 ELISA System
ML-FAME 24/30 ELISA Processor
Realtime PCR 7500 FAST System
Kone Pro.EMC.933 Automatic Biochemical Analyzer
HITACHI 7060-010 Automatic Biochemical Analyzer
Hamilton Star Liquid Handling System
Tecan Genesis RSP200/8 Liquid Handling System
Beckman Coulter Flow Cytometry ELITE-ESP
ACL200 Coagulation Analyzer
Pharmacia SMART Protein Micropurification System
ABI 377 DNA Sequencer
Beckman Oligo 1000 DNA Synthesizer
Gammacell 3000 Elan-2 Blood Irradiator
BacT/Alert 3D-120 Automated Blood Culture System
SpectraMax M5 Microplate Reader
ACP215 Red Cells Disposable Sets
AKTA Purifier 1000 System
Coulter Particle Counter

Part II - Proposed revised terms of reference

The proposed terms of reference should be short bullet points indicating the general scope of the future collaboration between your institution and WHO. The activities of the next section of this form should be related to these terms of reference. Please do not include details about the activities in this section. At least one term of reference, and no more than ten, should be proposed. Please use a different box for each term of reference that you want to propose.

To serve as the National Reference Center for Blood Banking and Transfusion Medicine in China;

To promote the performance of quality management system of BTSs and the universal accessibility of safe blood in China;

To enhance blood safety in China through promoting voluntary non-remunerated blood donation and improving the strategy for the screening of transfusion transmissible infections;

To provide training & education programs on blood banking and transfusion medicine for the relative professionals and undergraduates in the policy and strategy on blood safety..

To promote the rational use of blood and blood products by training and providing consultation support for clinicians;

To conduct research and development of new technologies on blood safety and promote collaboration and information exchange among BTSs in the region;

Part III - Proposed work plan

Activity	<p>Title Responsible person Description Concrete expected outcome Links with WHO activities Source of funding of the activity Dissemination of the results Time frame of the activity</p> <p>To host a series of quality management symposium, seminars and training programs nation-wide.</p> <p>XU Zhong</p> <p>To host at least 2 quality management symposium, seminars and training courses in Shanghai annually. The participants include directors / managers/ supervisors/technicians from BTSs, hospital blood banks all over the country.</p> <p>To improve the participants' awareness of quality management To produce the final assessment reports after symposium, seminars</p> <p>This activity will further promote and improve quality assurance associated with QMP</p> <p>This activity is funded by SBC, and we sincerely hope we can get the grant from WHO.</p> <p>Not applicable</p> <p>This activity will be conduct every year from 2008 to 2012.</p>
Activity	<p>Title Responsible person Description Concrete expected outcome Links with WHO activities Source of funding of the activity Dissemination of the results Time frame of the activity</p>

Activity	<p>Title</p> <p>Responsible person</p> <p>Description</p> <p>Concrete expected outcome</p> <p>Links with WHO activities</p> <p>Source of funding of the activity</p> <p>Dissemination of the results</p> <p>Time frame of the activity</p>	<p>The National Reference Center for Blood Banking and Transfusion Medicine in China</p> <p>ZHU Ziyen</p> <p>As a national blood group reference laboratory, Blood Group Reference Lab of Shanghai Blood Center (BGRL-SBC) will provide immunoheamotology consultative technical services for the whole nation. The diverse questionable specimens from clinical labs and Blood Transfusion Services (BTSS) will be accepted and identified.</p> <p>To identify the diverse questionable specimens from clinical labs and BTSS countrywide.</p> <p>To improve the blood transfusion safety & efficiency and minimize the adverse reaction of blood transfusion.</p> <p>To establish standard molecular blood group genotyping in reference service.</p> <p>To provide the consultative technical clinical services on the behalf of WHOCC and extend the influence of WHO to local area.</p> <p>Shanghai Blood Center and local government will provide the financial support to this activity. We also hope to get the financial support from WHO.</p> <p>Not applicable</p> <p>This activity will be conduct from 2008 to 2012</p>
Activity		

Title	WHO External Quality Assessment Scheme (EQAS) program for blood group serology
Responsible person	Xiang Dong
Description	To continuously perform the WHO External Quality Assessment Scheme (EQAS) program for blood group serology from 2008 to 2012 under the jurisdiction of the National Center for Clinical Laboratory, MOH. In this activity, SBC will issue standard specimens to over 60 clinical labs and BTSs nation wide, and evaluate the detecting participants' ability in fields of immunohematology by their test reports. This program will include ABO-Rh group typing, subgroup typing, cross matching, and unexpected antibody screening as well as identification.
Concrete expected outcome	To provide the clinical labs and BTSs a platform of evaluation their test ability. To promote the participants' professional experiences by providing rare clinical specimens. To providing training programs or specific consultation to those who are unsatisfied in the program.
Links with WHO activities	To establish the national external quality assessment system for blood group serology so as to provide the evidence to WHO for evaluation the situation in China.
Source of funding of the activity	Shanghai Blood Center and local government will provide the financial support to this activity. We hope to get the financial support from WHO.
Dissemination of the results	Not applicable
Time frame of the activity	This program will be performed twice a year (in June and October

Activity	<p>Title Responsible person Description Concrete expected outcome Links with WHO activities Source of funding of the activity Dissemination of the results Time frame of the activity</p> <p>To participate in the National Serology Reference Laboratory, Australia's External Quality Assessment Schemes XU Zhong To participate the HBsAg, HCV and HIV Serology External Quality Assessment Scheme (EQAS) designed by Nation Reference Laboratory (NRL) two times a year To assess the integrity of the Laboratory testing process by gaining the satisfactory results and acquiring the Certificate of Participation issued by NRL. To help WHO evaluate the overall quality status of testing laboratories in Asia. This activity is funded by SBC. We also wish the financial support from WHO Not applicable This activity will be conduct from 2008 to 2012.</p>
Activity	

	<p>Title</p> <p>Responsible person</p> <p>Description</p> <p>Concrete expected outcome</p> <p>Links with WHO activities</p> <p>Source of funding of the activity</p> <p>Dissemination of the results</p> <p>Time frame of the activity</p>	<p>To provide administrative and technical consultations</p> <p>XU Zhong</p> <p>To draft the regional standards on Fixed Sites Installation for Blood Collection authorized by Shanghai Municipal Health Bureau(SMHB). To initiate the annual meeting of the Quality Management Committee of Chinese Blood Transfusion Association to propose the Scheme of issues valued and followed by most of BTSS. To update quality Q&A column 2 times and launch on SBC webpage annually</p> <p>To publish the regional standards on Fix Sites Installation for Blood Collection in 2009. To publish the new version of Technique Manual on Blood Transfusion by MOH in 2009 To further share the quality and technical issues of blood transfusion nationwide</p> <p>To develop the standards and guidelines of blood transfusion and to provide the quality and technical issues under the authority and influence of WHO</p> <p>This activity will be funded by local government and SBC. We hope to get the financial from WHO supporting these.</p> <p>Not applicable</p> <p>The regional standards on Fixed Sites Installation for Blood Collection and the new version of Technique Manual on Blood Transfusion by MOH will be published in 2009 respectively.</p>
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Activity	<p>Title World Blood Donor Day Celebration Activities</p> <p>Responsible person Zhang Xi</p> <p>Description World Blood Donor Day (WBDD) is a special day to deliver gratitude to blood donors for their remarkable gift to those whose lives have thus been improved or saved, and an opportunity to encourage more potential donors. In 2008-2012, SBC will continue to hold the series of theme activities to celebrate World Blood Donor Day, through various commemorative events and activities, in order to celebrate the spirit of voluntary non-remunerated blood donors.</p> <p>Concrete expected outcome To thank blood donors, promote voluntary, non-remunerated blood donations and ensure safe supplies of blood.</p> <p>Links with WHO activities WHO introduces the 100% voluntary non-remunerated blood donation policy and strategy. This activity will benefit to improve blood safety and reach the target for sustainable supply of safe blood.</p> <p>Source of funding of the activity SBC will support this activity. We also hope to get the financial support from WHO.</p> <p>Dissemination of the results Not applicable</p> <p>Time frame of the activity This activity will be held around June 14th each year.</p>
Activity	

	<p>Title Promotion of voluntary non-remunerated blood donation</p> <p>Responsible person Zhang Xi</p> <p>Description To enhance blood safety in China through promoting voluntary non-remunerated blood donation from 2008 to 2012, SBC will continue to propagandize non-remunerated donation and keep extending the voluntary non-remunerated donor pool in low-risk population. Importance will continuously be attached to apheresis blood donors and regular blood donors. Reports on blood drives will be publicized via diversified resources, such as newspaper, television, press conference as well as internet. Lectures & get-togethers will address to motivate platelet apheresis donors to give blood regularly. Platelet apheresis information will be introduced in many ways such as donor celebrating party.</p> <p>Concrete expected outcome To extend the donor pool of apheresis blood donors and regular blood donors in low risk population to enhance blood safety. To ensure the supply of adequate and safe blood to hospitals and patients.</p> <p>Links with WHO activities This activity will be conducted in compliance with WHO guidelines on promoting voluntary non-remunerated blood donation firmly.</p> <p>Source of funding of the activity SBC and local government will support this activity. We also wish the financial support from WHO.</p> <p>Dissemination of the results No application</p> <p>Time frame of the activity This activity will be conduct from 2008 to 2012</p>
Activity	

	<p>Title</p> <p>Responsible person</p> <p>Description</p> <p>Concrete expected outcome</p> <p>Links with WHO activities</p> <p>Source of funding of the activity</p> <p>Dissemination of the results</p> <p>Time frame of the activity</p>	<p>Training programs on blood banking and transfusion medicine for the professionals in medical institutions</p> <p>Liu Dazhuang</p> <p>To improve the professional skills of health workers involved in transfusion medicine & blood banking and promote the development of services for blood collection & supply nationwide by offering a series of colorful continuing education programs covering quality management, state-of-the-art techniques, blood safety and etc over the next four years. Relative divisions, such as Quality and Regulatory Compliance, Blood Operation Division, Shanghai Institute of Blood Transfusion will undertake these programs with the help of Education Committee. Annual plan of the training programs will be announced on the Center's website www.sbc.org.cn.</p> <p>To train more than 100 professionals from national wide and improve the professional skills of staffs of transfusion medicine & blood banking every year.</p> <p>As an exclusive WHO Collaborating Center for Blood Transfusion Services in China, SBC will work as a bridge between WHO and Chinese blood society. SBC will introduce and promote the WHO policy and strategy on blood transfusion and blood safety through these training courses.</p> <p>This activity is supported by SBC, and we sincerely hope to get the support from WHO.</p> <p>No application</p> <p>This activity will be conduct every year from 2008 to 2012.</p>
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Activity	Title	Education Course for Leadership of Blood Service
	Responsible person	ZHU Yongming
	Description	The Education Course for Leadership of Blood Service (ECLBS) is a comprehensive course designed for the top leaders in Chinese blood banks. It aims to improve the leaders' working ability in management and technology areas, by integrating advanced experience of developed countries as well as the actuality of China. The ECLBS is co-sponsored by Chinese Society of Blood Transfusion (CSBT), Shanghai Blood Center (SBC), American Association of Blood Banks (AABB), and International Consortium of Transfusion Medicine Professionals (ICTMP). The number of the trainees will be controlled around 30 in every session.
	Concrete expected outcome	To improve the working abilities of the top leaders of BTSS. To promote communication between domestic and foreign blood banks
	Links with WHO activities	This education course will educate the top leaders of BTSS the WHO policy and strategy on blood safety so as to improve the quality and administrative management of BTSS in China
	Source of funding of the activity	Shanghai Blood Center will support this activity, and we also wish to get grants from WHO.
	Dissemination of the results	Not applicable
	Time frame of the activity	This education course would be supposed to be held each year from 2008 to 2012.

<p>Activity</p>	<p>Title Responsible person Description Concrete expected outcome Links with WHO activities Source of funding of the activity Dissemination of the results Time frame of the activity</p> <p>Educational basis for graduates Qian Kaicheng SBC will continuously play the role as the Education Basis for Graduate School of Life Science of East China Normal University and Fu Dan University and provide the systematized training courses on blood transfusion safety for graduates. 3-4 graduates will be recruited each year. 3-4 students will graduate to get the master degree each year and all of them have solid skills in research of blood transfusion. This activity can cultivate high-qualified professionals in the field of blood transfusion for China. East China Normal University, Fu Dan University and SBC will sponsor this activity. We sincerely hope the financial support from WHO. Not applicable The graduates will be recruited in every September and graduate in June after the education course.</p>
<p>Activity</p>	

	<p>Title</p> <p>Responsible person</p> <p>Description</p> <p>Concrete expected outcome</p> <p>Links with WHO activities</p> <p>Source of funding of the activity</p> <p>Dissemination of the results</p> <p>Time frame of the activity</p>	<p>To further strengthen clinical consultation service on transfusion medicine for physicians and promote rational use of blood products</p> <p>Zhang xi</p> <p>SBC will continue to strengthen clinical transfusion consultation and training for clinicians in China, offer professional advice to transfusion-related difficult cases in daily clinical transfusion practice. The monthly periodical – ‘Transfusion Bulletin’ will continue to be issued by SBC and introduce the transfusion knowledge and new information to clinicians in hospital. SBC will plan to hold training courses on rational and safe blood transfusion for clinicians in Shanghai to further increase the awareness of rational use of blood and blood products. Evidence-based blood transfusion, rational use of leukocyte reduced component and irradiated component are still key aspects in communication with hospitals. These tasks will strengthen rational use of blood component clinically and enhance communication between SBC and hospitals, which will benefit the patients.</p> <p>To strengthen rational use of blood component clinically and enhance communication between SBC and hospitals.</p> <p>Based on the recommendations of WHO, SBC emphasize the importance of active collaboration between the blood transfusion service and clinicians. Through this activity SBC will improve the rational use of blood and blood components effectively.</p> <p>Local government and SBC and will support this activity. We sincerely hope to get the financial support from WHO.</p> <p>Not applicable</p> <p>This activity will be conduct every year from 2008 to 2012. ‘Transfusion Bulletin’ will be published every two months.</p>
	<p>Title</p> <p>Responsible person</p> <p>Description</p>	<p>The development of new technique to improve the blood safety</p> <p>WANG Xun</p>

Activity

In order to improve the blood safety, a lot of new techniques should be developed not only in the field of blood screening but also in the field of pathogen inactivation. In the field of blood screening, NAT blood screening is a hot topic recently, but the extremely expensive NAT reagents hindered its application in the developing countries. To develop a new generation of NAT blood screening kit with our own patent is very important for the developing countries. Based on the research work in the last 4 years, we are going to have the patent of the technique of loop-mediated isothermal amplification (LAMP), a new nucleic acid amplification technique in next 4 years, and will develop a new NAT kit based on this technique to apply the registration from the government in the cooperation with Eiken Corporation and Fudan Zhangjiang Bio-pharmaceutical Corporation. In the field of pathogen inactivation, the research work on the methylene blue (MB) photochemical treatment for plasma and riboflavin photochemical treatment for the platelet and red cell component should be emphasized in the next 4 years. The concrete work includes

- (1) To improve the stability and precision of MB in the bag of plasma for the convenience of store and transportation.
- (2) To establish the basic method of riboflavin photochemical treatment.
- (3) To carry out the mechanism research on the riboflavin photochemical treatment.

Concrete expected outcome

To acquire the patent on LAMP NAT blood screening technique.
To finish the research on LAMP NAT kit for HBV, HCV and HIV blood screening.
To achieve the permission and registration from SFDA successfully.
To acquire the patent on the instrument and plasma bag for the solid MB.
To acquire the basic method of riboflavin photochemical treatment and can successfully inactivate virus, bacterial and lymphocyte in the platelet and red cell component.

Links with WHO activities

Source of funding of the activity

To accelerate the applications of NAT blood screening technique in China and other developing countries.

To improve the blood quality in China and other developing countries, if the new technique such as LAMP NAT blood screening technique, MB photochemical pathogen inactivation treatment and riboflavin photochemical pathogen inactivation treatment developed here to be popularized by WHO.

Blood safety special program granted 400 thousand Chinese Yuan by Shanghai government. we sincerely hope we can get the grant from WHO.

Dissemination of the results

Not applicable

Time frame of the activity

2008-2009:

To acquire the patent on the instrument and plasma bag for the solid MB, and finish the research work on the development of LAMP NAT blood screening kit and solid MB.

2009-2010:

To acquire the patent on LAMP NAT blood screening technique, enter in the registration procedure for LAMP kit and carry out the research work on riboflavin photochemical pathogen inactivation treatment.

2010-2011:

To achieve the permission and registration from SFDA successfully, and improve the kits to be used in routine work of blood screening in Shanghai.

2011-2012:

To acquire the basic method of riboflavin photochemical treatment and can successfully inactivate virus, bacterial and lymphocyte in the platelet and red cell component, and have the basic evidence for the mechanisms of riboflavin photochemical treatment.

Activity	Title	The Chinese Rare Blood Screening Project
	Responsible person	ZHU Ziyan
	Description	With the joint efforts of other community BTSs in China, Shanghai Blood Center will perform the Chinese rare blood screening project to screen the rare blood antigens continually in many domestic regions covering most of Chinese minorities. We attempt to enlarge the China rare blood bank which will cover the overall Chinese populations and participate in the international rare blood exchange program from 2008 through 2012.
	Concrete expected outcome	To enlarge the rare blood collection and registered rare blood donor database. To obtain the frequency of diverse rare blood typing in Chinese populations. To provide the rare blood to the clinic.
	Links with WHO activities	The Chinese rare blood screening project is running in collaboration with the WHO International Blood Grouping Reference Laboratory and the members of the ISBT Rare Blood Workshop.
	Source of funding of the activity	Shanghai Blood Center and local government will provide the financial support to this activity. We also hope the financial support from WHO.
	Dissemination of the results	Not applicable
	Time frame of the activity	To develop the screening of rare blood from 2008 to 2012 To establish standard molecular blood group genotyping from 2011 to 2012.

Activity	<p>Title</p> <p>Responsible person</p> <p>Description</p> <p>Concrete expected outcome</p> <p>Links with WHO activities</p> <p>Source of funding of the activity</p> <p>Dissemination of the results</p> <p>Time frame of the activity</p>	<p>To continuously improve and perfect the quality management system within the Center</p> <p>XU Zhong</p> <p>To continuously maintain and improve the quality management system combined with WHO QMP effectively and in compliance with the regulations and standards for the blood transfusion services issued by Ministry of Health (MOH) and ISO 9000 Standards.</p> <p>To produce the annual internal audit report and corrective and preventive action plans for all non-conformances. To acquire and maintain the Certificate of ISO 9000 Standards.</p> <p>Quality management system will maintain in compliance with the requirements of WHO QMP program</p> <p>This activity is funded by SBC. We also hope to get the financial assistant from WHO.</p> <p>Not applicable</p> <p>This activity will be conduct from 2008 to 2012.</p>
Activity	<p>Title</p> <p>Responsible person</p> <p>Description</p>	<p>Residual risk assessment of transfusion infectious diseases in China</p> <p>WANG Xun</p>

In order to survey the residual risk of transfusion infectious diseases in China, indicate the level of blood safety, and guide the transfusion associated public health policy in the country, several epidemic models such as 'incidence-windows period' model, 'years-prevalence' model and nucleic acid testing (NAT) model were used to assess the residual risk of transfusion associated HIV, HCV and HBV in the next four years. The concrete work including:

(1) To establish the appropriate evaluating model for first time donors and repeated donors according to the characteristic of the Chinese blood donation procedure.

(2) To assess the residual risk of transfusion infectious diseases based on the data of Shanghai Blood Center using these models and verify the reliable of the results.

(3) To assess the benefit of NAT using the established models and calculate the cost-effectiveness of NAT before NAT blood screening introduced in Shanghai.

(4) To popularize the method through the whole country, and achieve the residual risk of transfusion infectious diseases all over the country.

Concrete expected outcome

To establish the appropriate evaluating model for residual risk assessment in developing countries.
To achieve the residual risk of transfusion infectious diseases in Shanghai and in China.
To evaluate the blood safety level in China
To establish the cost-effectiveness of NAT blood screening in Shanghai.
To guide the government to stipulate the appropriate transfusion associated public health policy.

Links with WHO activities

To help WHO to understand the blood safety level in China and evaluate the transfusion policy of China.
To help other developing countries assess the residual risk of their countries if the model established here to be popularized by WHO.

Source of funding of the activity

Blood safety special program granted 200 thousand Chinese Yuan by Shanghai government. We also hope to get the financial support from WHO.

Dissemination of the results

Not applicable

Time frame of the activity

		<p>2008-2009: To establish the appropriate evaluating model for first time donors and repeated donors according to the characteristic of the Chinese blood donation procedure.</p> <p>2009-2010: To assess the residual risk of transfusion infectious diseases based on the data of Shanghai Blood Center using these models and verify the reliable of the results.</p> <p>2010-2011: To assess the benefit of NAT using the established models and calculate the cost-effectiveness of NAT before NAT blood screening introduced in Shanghai.</p> <p>2011-2012: To popularize the method through the whole country, and achieve the residual risk of transfusion infectious diseases all over the country.</p>
Activity	<p>Title</p> <p>Responsible person</p> <p>Description</p> <p>Concrete expected outcome</p> <p>Links with WHO activities</p> <p>Source of funding of the activity</p> <p>Dissemination of the results</p> <p>Time frame of the activity</p>	<p>To further apply virus-inactivated blood products to the clinic.</p> <p>Zhang xi</p> <p>As WHO Collaborating Center for Transfusion Services, SBC will continue to further supply virus-inactivated blood products to the clinic use. Frozen plasma (virus-inactivated) will still be produced as scheduled and released to more than ten hospitals for medical use in Shanghai. This technique will be generalized in the whole country. Beijing Blood Center and Tianjin Blood Center are planning to introduce the virus-inactivated technique and supply virus-inactivated blood products to clinic.</p> <p>To Strengthen safety use of blood component in clinic and spread the technique to other region blood centers in China.</p> <p>To Strengthen the supply of safe blood component to clinic according to the WHO policy on blood transfusion.</p> <p>SBC and local government will support this activity. we sincerely hope we can get the grant from WHO.</p> <p>No application</p> <p>To Spread the technique to other regional blood centers in China. Beijing Blood Center and Tianjin Blood Center are planning to introduce the virus-inactivated technique and supply virus-inactivated blood products to clinic in 2008.</p>

Activity	Title	To set up the centralized testing laboratory in SBC
	Responsible person	Zhang xi
	Description	Shanghai Blood Center will set up the centralized testing laboratory in SBC and consolidate the function of blood screening in 9 regional BTSs in Shanghai. Through the establishment of hardware and software, the blood collected in Shanghai will be screening in a centralized and standardized screening laboratory in a rapid and cost-effective way. This will further enhance the blood safety in the city of Shanghai.
	Concrete expected outcome	To set up the centralized testing lab and the regional blood screening testing consolidation in Shanghai area so as to improve the blood safety.
	Links with WHO activities	With effort to establish the centralized testing lab, SBC will improve accuracy of blood screening in an effective way which set up a successful model in China to WHO.
	Source of funding of the activity	The Local government and municipal Health Bureau will support this activity. We also wish the financial support from WHO.
	Dissemination of the results	No application
	Time frame of the activity	This activity will be completed in 2011