医薬品 研究報告 調査報告書

•		运来的 机九秋百	列且取口盲		
識別番号 報告回数		報告日	第一報入手日 2008.11.20	新医薬品等の区分 該当なし	総合機構処理欄
一般的名称	新鮮凍結人血漿		Gubernot D, Lucey (公表国 C, Lee K,	<u>-</u>
販売名(企業名)	新鮮凍結血漿「日赤」(日本赤十字社) 新鮮凍結血漿-LR「日赤」(日本赤十字社)	研究報告の公表状況	Conley G, Holness I AABB Annual Meetir 2008; 2008 Oct 4-7;	ng and TXPO	
背景:バベシア症 告されたバベシフ	ベンア症の伝播:FDAに届けられた最近は輸血を介した伝播リスクが知られていて関連輸血事象の重症度と特徴について	るが、認可されたスクリー、			使用上の注意記載状況・ その他参考事項等
研 方法:過去10年間	⊆焦点を当て検討した。 引にFDAに報告された3つのFDA調査シ こ。	ステム(採血および輸血死	七報告、MedWatch	プログラム、BPDRs)の	新鮮凍結血漿「日赤」 新鮮凍結血漿-LR「日赤」
発 結果:輸血感染/ 受血者は関連血 造 連のBPDRsは68・ トの いる。	ヾベシア症死亡報告は1998年の1例以降 液製剤の輸血から4~7週間後に発症し 件であり、近年この報告が増加傾向にあ	、全員が <i>Babesia microti</i> に	二感染していた。過去	10年間のバベシア症関	血液を介するウイルス、 細菌、原虫等の感染 vCJD等の伝播のリスク
の概 結論:最近の死亡 要 を呈した受血者に また、残存する血	二報告は、増加中のBPDRsと合わせて、私 こはバベシア症の可能性があることを医能 液製剤を差止める検査の実施が促進さ の評価、公衆衛生上の感染制御対策の	币が認識することにより、タ れると考える。バベシア症	り果的治療のための	迅速な診断を容易にし、	
		•			
	報告企業の意見 ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		今後の対応		7
FDAに報告されたバベー いて、最近の輸血関連 脱報告サマリーに焦点			.	況等に関する情報の収	
·					

121A

Quantitative Real-time PCR Assay for *Trypanosoma cruzi* T-H Lee¹ (BJohnson@ bloodsystems.org), E Sabino², L Montalvo³, L Wen⁴, D Chafets⁵, B Custe⁴, Michael P Busch², for the Retrovirus Epidemiology Donor Studies-II (REDS-II) International³. ¹,²Fundacao Pro Sangue, Sao Paulo, Brazii³Bloodsystems Research Institute, CA,⁴Blood systems Research Institute, San Francisco, CA,⁴Blood Systems Research Institute, San

Francisco, CA, Blood Systems Research Institute, CA.

Background: Trypanosoma cruzi infects about 18 million people, and results in 50,000 deaths from Chagas disease annually, primarily in Latin America, Latin American blood donors in the US may harbor chronic T. cruzi infection and be potential reservoir of T. cruzi transmission by blood transfusion. US blood centers began donor screening for T. cruzi antibody (Ab) in early 2007 and have identified hundreds of seropos blood donors. Our objective was to develop a sensitive assay for T. cruzi parasite detection and quantitation in whole blood (WB) samples from seropos donors. The assay is also needed for studies of T. cruzi transfusion-transmission and disease pathogenesis. Methods: Trypomastigotes of T. cruzi, grown in culture, were harvested, counted, and spiked into fresh WB to create samples containing 8, 4, 2, and 1 parasite/20 mL WB. Lysis of parasites was performed by adding 20 mL of Guanidium-EDTA lysis buffer (6M Guanidine HCl with 0.2M EDTA, pH8.0) to 20 mL WB and vortexing. The lysed WB was heated at 100C for 15 mins to disentangle minicircle kinetoplast DNA present at -10,000 copies/parasite. Total DNA was prepared from 0.4 mL of the lysate by precipitating hemoglobin and inhibitors: Parasitic DNA was captured by T. cruzi specific oligonucleotide probes bound to magnetic beads. After being eluted from the beads, parasite DNA was amplified by real-time (RT)-PCR with SyBr green dye & an optimized buffer system using-a *T. cruzi* kinetoplast DNA specific primer pair (Tc-121/Tc-S36). Results: Table summarizes RT-PCR results for 5 replicate amplifications of the spiked dilution series. A single parasite in 20 mL WB gave strong signal (-10 cycles below 45-cycle cutoff) & good precision quantitation of up to 8 parasites. We tested 27 coded specimens from T. cruzi Ab-reactive donors: 2/7 RIPA(+) and 0/20 RIPA(-) donors tested PCR(+); the 2 pos donors had -1 parasite/20 mL WB. Conclusion: We can detect single T. cruzi parasites in 20 mL WB with this sensitive quantilative RT-PCR assay. Additional T. cruzi seropos donor blood samples from the US, Argentina, Honduras & Brazil are being collected for analysis.

	# of T. cruzi Spiked into 20 mL Whole Blood					
n=5 [;]	8	4	2	1	. 0	
Mean Cp (±STO)	31.4 (±0.5)	32.64 (±0.1)	33.48 (±.01)	15.18 (±-0.0)	>45	

A one unit change in Cp in a real-time PCR assay is expected to equate to an — doubling of parasite load. Our assay performs as expected in the range of 1-8 parasites.

Disclosure of Conflict of Interest

Tzong-Hae Lee, Ester Sabino, Lani Montalvo, Li Wen, Daniel Chafets, Brian Custer, Michael P. Busch, for the Retrovirus Epidemiology Donor Studies-II (REDS-II): Nothing to Disclose

SP247

Screening for Trypanosoma cruzi in the Blood Donor Setting R Gammon' (mprati@lioridasbloodcenters.org), M Pratit. ¹Florida's Blood Centers, Orlando, FL.

Background: Our blood donor center recently began testing for antibodies to the agent that causes Chagas' Disease (Trypanosoma cruzi). We reviewed incidence among our current blood donor population and all lookback cases to determine if there were any reports of transfusion-transmitted Trypanosoma cruzi. Methods: At our center all allogeneic and autologous donations were tested for antibodies to T. cruzi using a US Food and Drug Administration licensed enzyme immunoassay (EIA) methodology. Those donations that were repeat reactive (AR) on EIA were sent for an unlicensed confirmatory radioimmunoprecipitation assay (RIPA). In accordance with AABB Association Bulletin 06-08 donors RR on EIA were Indefinitely deferred and notified of results. Look-back was performed on those donors who tested RIPA positive and included all electronic donor records available. Results: From 7/30/07-3/15/08 222,059 donations (212,505 whole blood, 7,520 autologous, 2,034 directed and of which 51,298 were first-time donors) were tested by EIA for anti-T. cruzi. 16/222,059 (0.007%) donations were EIA RR donations. Confirmatory RIPA results were as follows: 7/16 (43.75%) or 7/222,059 (0.003%) were positive and 9/16 (56.25%) were negative. 2/7

(28.6%) or 2/51,298 (0.004%) RIPA positive results were from first-time donors. Look-back was performed on the 5 RIPA positive repeat donors and involved 75 transfusable blood components (70 were transfused, 2 discarded and 3 no information was provided). There were no reports of recipients of the 70 transfused blood components testing reactive for anti-bodies to 7. cruzi. Conclusions: At our blood center, the introduction of testing for 7. cruzi prevented transfusion of a small number of units that confirmed positive for the presence of antibodies. Look-back revealed no reports of transfusion-transmission of 7. cruzi from previously donated units.

Disclosure of Conflict of Interest

Richard Gammon, Michael Pratt: Nothing to Disclose

TTID 2: Tideborne Disease, CJD

SP248

A Fatal Case of Transfusion-Transmitted Babesiosis in the State of Delaware

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Background: Babesiosis is an emerging zoonotic disease caused by intraerythrocytic protozoa. Although the disease is usually transmitted by tick bite, there has been an increase in the number of transfusion-transmitted cases reported. This report describes a fatal case of transfusion-transmitted babesiosis in Delaware. Case Report: The patient was a 43-year-old Caucasian woman with history of transfusion-dependent Diamond-Blacklan Syndrome, hepatitis C, pulmonary hypertension and spienectomy. She had been receiving two units of RBCs every 2 weeks. She presented on 1/9/08 with fever, chills, cough and fatigue, and was treated with antibiotics initially for presumptive pneumonia. Examination of the peripheral blood smears revealed numerous intraerythrocytic ring forms, consistent with Babesia. The diagnosis of babesiosis was confirmed by positive polymerase chain reaction (PCR) for B. microti DNA and high titer of antibody to B. microti (1:2048). Despite aggressive therapy including Clindamycin and Quinine, the patient's condition rapidly deteriorated with multi-system organ failure and she expired 3 days after admission. The patient resided in Delaware and had no history of tick bites or recent travel history outside Delaware. Thirteen implicated donors were subsequently tested for B. microti. All tested donors were negative by PCR for B. microti. However, one of them had a significantly elevated B. microli antibody tiler (1:1024). This donor resides in New Jersey and had recently traveled to Rhode Island. The donor has no known history of tick biles or flu-like symptoms within the past 2 years. The donor has not been diagnosed with Babeslosis, Lyme's disease or Ehrlichlosis, and has never received a blood transfusion. The implicated unit was donated on 8/8/07, frozen, and transfused as a deglycerolized unit on 11/27/07, 6 weeks prior to development of the patient's symptoms. Conclusion: This case emphasizes the need to review peripheral blood smears in febrile, immunocompromised patients who have been recently transfused. Prompt recognition and treatment are important, as Babesia intections can be severe or talal in splenectomized and/or immunocompromised patients. It also illustrates the need for better strategies, including more sensitive, specific and rapid screening tests, to prevent transfusiontransmitted babesiosis

Disclosure of Conflict of Interest

Yong Zhao, Ken Love, Scott Hall, Frank Beardell: Nothing to Disclose

SP249

Babeslosis Transmission through Blood Transfusion: Recent Fatality Reports Received by FDA

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Background: Babesiosis is a known transfusion-transmitted disease risk, with no licensed donor screening assay. There are estimates that 70 transfusion-transmitted cases have occurred from 1979 through 2007. This research evaluated the magnitude and characteristics of Babesia-related transfusion events reported to the Food and Drug Administration (FDA) with focus on the recent transfusion-related babesiosis fatafity reports and a

summary of Biological Product Deviation Reports (BPDRs) submitted to the FDA. Methods: Data were collected by querying three FDA surveillance systems for reports received within the past decade: Blood Collection and Transfusion Fatality Reporting, the MedWatch. Program, and BPDRs. Results: Between January and October 2006, the FDA received five transtusion-related babesiosis fatality reports after only one prior report in 1998. Recipients presented with symptoms 4 to 7 weeks after transfusion of implicated blood units, and all were infected with Babesia microti. No MedWatch report was received; however 68 Babesia-related BPDRs over the past decade, with increasing numbers in more recent years, suggest a rising risk for transfusion-transmission from this parasite. Conclusions: The recent fatality reports, along with growing numbers of BPDRs, underscore babesiosis as a rare post-transfusion complication whose risk may be increasing. Enhanced clinician awareness of the possibility of babesiosis in febrile transfusion recipients may facilitate prompt diagnosis with more effective treatment and timely investigations to interdict extant infected units. Reporting of babesiosis donor and transfusion-related events assists the FDA in assessing the scope of the risk and developing appropriate public health control measures. Disclaimer: The findings and conclusions in this abstract have not been formally disseminated by the Food and Drug Administration and should not be construed to represent any Agency determination or

Disclosure of Conflict of Interest

Diane Gubernot, Charles Lucey, Karen Lee, Gilliam Conley, Leslie Holness, Robert Wise: Nothing to Disclose

SP250

Evaluation of Candidate Reentry Proposals for Babesia microti

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Rockellin MD

Background: B. microti (Bm) is a tick-borne rbc parasite which can be transmitted by transfusion from chronically infected donors. Implication in transfusion babesiosis (TB) or clinical babesiosis (CB) requires permanent donor deferral. As part of a multi-year longitudinal research study in New England, Bm seropositive blood donors are deferred despite apparent clearance of infection in many cases. We evaluated several candidate donor reentry proposals (Schemes) that also may be applicable to donors with CB or implicated in TB. Methods: Consenting blood donors were screened by IFA for Bm (positive ≥1:64) using retention tubes (index sample). Consenting positive donors agreed to provide subsequent samples at 1-2 month intervals which were screened by IFA and nested- or RT-PCR. 18 donors were released from study before 1 year after 3 consecutive negative bleeds. 45 donors dropped out and could not be evaluated. Study data were used to evaluate 4 potential reentry Schemes based on the initial PCR result (<12 week after the initial IFA) and on the first IFA and PCR result ≥11 months following the index sample (Table 1). Reentry failure was defined as à PCR positive samples following successful reentry. Results: 76/139 donors completed 1 year or more of follow-up and were eligible for assessment using the four candidate reentry Schemes (Table 2). All 43 eligible donors with IFA titers ≤1:128 after the index sample could be reentered. Only 21/33 (64%) donors with 1 or more IFA titers >1:128 after the index sample could be reentered. Requiring all IFA titers to be ≤1:128 would eliminate only 1/3 Scheme failures, but would require multiple donor samples. Requiring 2 rather than 1 year wait after the seropositive screen would eliminate the observed Scheme failures in all cases. However, this could not be fully assessed because of limited follow-up: Conclusion: Reentry for Bm is feasible using approaches similar to other TTD markers. Evaluated Schemes could reenter a significant portion of donors; however, there was a small, but unacceptable failure rate. In addition, 18 donors released from the study before a year could also be considered for reentry, but there was no followup to assess this approach. Sampling beyond 1 year may be required to develop an acceptable reentry Scheme. Such a Scheme could be useful for donor management if Bm screening is implemented, and could allow reentry of donors implicated in TB or recovered CB.

TABLE 1. Reentry schemes

ŧ	Initial IFA	Initial PCR	IFA 1 Year	PCR 1 Year	Other PCH
1a	≥1:64	Neg	≤1:128	Neg	All Neg
10	≥1:64	Neg	≤1:128	Neg	Any
2a	≥1,:64	Pos er NA	≤1:128	Neg	All Neg
Zb	≥1:54	Pes or NA	. <u>≤1:128</u>	Neg	Any

TABLE 2. Evaluation of reentry schemes

Reentry scheme	fa ·	1b ·	2a	
nacinal scheme	10		<u></u>	<u> </u>
Eligible initially	· 116	116	139	139
Followed 1 year	55 .	55	76	76
Reentered	42	47	55	64
% reentered	76%	85%	72%	84%
Scheme failures*	2	3 .	2	3

* PCR positive samples following successful reentry

Disclosure of Conflict of Interest

Ritchard Cable, Stephanie Johnson, Laura Tonnetti: Nothing to Disclose David Leiby: Not Specified

SP251

Seasonal and Geographic Distribution of Babesia microti Seroprevalence in Connecticut Blood Donors: 2006 and 2007 S Johnson' (Ionnettil@usa.redcross.org), R Cable², D Leiby³, E V Tassell⁴, L Tonnetti³. 'American Red Cross, Farmington, CT; ²American Red Cross Blood Services, New England Div, Farmington, CT; American Red Cross, Rockville, MD; Farmington.

Background: Babesia microti is an intraerythrocytic parasite, transmitted by ixodes ticks, that is found throughout the northeastern United States. B. microti is also transmitted by blood transfusion, with over 70 cases reported to date. Individuals exposed to the parasite may develop babesiosis, a potentially life threatening Illness. Those at greatest risk for developing serious disease include asplenic, elderly and immunocompromised individuals. Our blood center has been studying the presence of antibodies to 8. microti in Connecticut blood donors since 1999. The purpose of this analysis is to provide data, and highlight the need, for the development of methods for screening the blood supply to improve blood safety. Methods: Consenting blood donors are tested at select blood drives. A donor is considered seropositive when they test positive for B. microti antibodies by IFA (≥1:64). Beginning in 2006 testing was conducted year round and included blood drives in all eight counties of Connecticut, Results: Seropositive individuals were identified in every county (Table 1), although the two southeastern counties (Middlesex and New London) each had significantly higher seroprevalence rates when compared to the remaining six counties (p < 0.05 for both). Seropositive individuals were identified in every month and seroprevalence varied month to month but there was no apparent seasonal pattern. Conclusions: Seroprevalence of B. microti in Connecticut varies significantly by county, but every county had substantial seroprevalence, 0.4% or greater seropositive rate (40/10,000 donors). Seropositive donors were identified in every month of the year. Based on these results, using seasonal or geographic exclusion criteria to interdict *Babesia* from the blood supply would be an inellective approach. These data support the need for developing efficient methods for screening the blood supply for Babesia, and thereby improving blood safety.

TABLE 1, 2006 & 2007

INDEE 1, Edda & Edd)				
County	# Tested	# Positive	. Seroprevalence per 10,000 Donors	
Fairfield	1631	10	61	
Hartford	2609	. 17	65	
Litchtiefd	375	2	· 53	
Middlesex	654	10	153 -	
New Haven	1521	10	66 .	
New Landon	1062	19	. 179	
Tolland	418	3	72	
Windham	252	1	40 -	

Disclosure of Conflict of Interest

Stephanie Johnson, Ritchard Cable, Eric Van Tassell, Laura Tonnetti: Nothing to Disclose David Leiby: Not Specified

SP252

Transfusion Transmitted Babeslosis in an ITP Patient: A Case Report

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Our case is a 79 years old male who presented to Danbury Hospital Emergency Department (ED) complaining of fever and chills that started a few hours earlier. The patient was discharged 2 weeks prior following a Clostridium difficile (C. difficile) infection. On physical examination the patient

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識別番号·報告回数		報告日	第一報入手日 2008. 12. 16	新医薬品等の区分 該当なし	総合機構処理欄
一般的名称	新鮮凍結人血漿	• •	Benjamin RJ, Kline L Kennedy J, Pisciotto	P, 44XE	
販売名(企業名)	新鮮凍結血漿「日赤」(日本赤- 新鮮凍結血漿-LR「日赤」(日本赤	T-子作工/	大況 AF. Transfusion. 200 Nov;48(11):2348-55. Jul 22.		
背景:全血由来血 は検出するための	小板(WBP)輸血後の細菌性)実用的、効果的な方法がなV	RC)の初流血除去および保存 敗血症は、現在も患者にとって 、ことが主な原因である。 我々に	大きなリスクであり、これに	は細菌汚染の抑制あるい	使用上の注意記載状況・ その他参考事項等
研 試験デザインおよ 液センターにて評	板 (PSP) の敗血症性反応リスクおよび細菌培養結果について報告する。 試験デザインおよび方法: Acrodose PLシステム (Pall Medical) で調べた製品適合および品質管理 (QC) について、4つの地域血液センターにて評価を行った。細菌汚染リスクは、報告されたWBPによる敗血症性輸血反応の調査および自動化細菌検出シス				
		vた白血球除去PSPの好気QCi は2.535.043単位のWRPが供給		血症性反応20例の報告	血液を介するウイルス、

|結果:PSP実施前(2003年1月〜2006年12月)には2,535,043単位のWBPが供給され、死亡2例を含む敗血症性反応20例の報告 |があった(敗血症性反応:100万あたり7.9[1:126,752]、死亡:100万あたり0.79[1:1,267,522])。2006年10月にPSPが導入され製

品適合率は99.6%となり、1プールあたりのPLT数は平均4.0×10"であった。実施トライアル中に初流血除去技術を用いた全血採 |血セットが導入され、PSP細菌培養の確定陽性率は100万あたり2,111(1:474)から965(1:1036)に減少した(オッズ比0.46;95%信 頼区間0,22~0.95)。供給されたPSP 25,936単位による敗血症性反応は報告されなかった。

結論:初流血除去および細菌培養は、WBP輸血の細菌リスクを低減させる有効な方法である。PSPの細菌汚染率は、同等の培 養プロトコールを用いたARCの現在のアフェレーシスPLTの5.8倍であると評価された。

細菌、原虫等の感染

vCJD等の伝播のリスク

報告企業の意見

今後の対応

血除去および細菌培養によるスクリーニングが有効な方法であ るとの報告である。

全血由来血小板の細菌汚染リスクを低減させるためには、初流「日本赤十字社では、輸血による細菌感染予防対策として、すべての |輸血用血液製剤を対象に保存前白血球除去及び初流血除去を導入 している。さらに、輸血情報リーフレット等により細菌感染やウイルス感 染について医療機関へ情報提供し注意を喚起しているほか、細菌感 染が疑われる場合の対応を周知している。今後も細菌やウイルスの検 出や不活化する方策について情報の収集に努める。



BLOOD COMPONENTS

Bacterial contamination of whole blood-derived platelets: the introduction of sample diversion and prestorage pooling with culture testing in the American Red Cross

Richard J. Benjamin, Linda Kline, Beth A. Dy, Jean Kennedy, Patricia Pisciotto, Suneeti Sapatnekar, Rachel Mercado, and Anne F. Eder

BACKGROUND: Bacterial sepsis following whole blood-derived platelet (WBP) transfusion has remained a substantial patient risk, primarily due to a lack of practical and effective means to limit or detect bacterial contamination. We describe the risk of reported septic reactions to WBPs and the introduction of prestorage-pooled whole blood-derived platelets (PSPs) collected using initial sample diversion and cultured for bacterial contamination.

STUDY DESIGN AND METHODS: Product qualification and quality control (QC) testing with the Acrodose PL system (Pall Medical) were evaluated in four regional blood centers. Bacterial contamination risk was assessed by review of reported septic transfusion reactions to WBPs and by aerobic QC culture of leukoreduced PSPs utilizing automated microbial detection system cultures (BacT/ALERT 3D, bioMérieux). RESULTS: Before implementing PSPs (January 2003-December 2006), we distributed 2,535,043 WBP units and received 20 reports of septic reactions including 2 fatalities (7.9 per million [1:126,752] reactions and 0.79 per million [1:1,267,522] fatalities). In October 2006, PSPs were effectively implemented with a product qualification success rate of 99.6 percent and a mean yield of 4.0 × 10¹¹ platelets (PLTs) per pool. Whole blood collection sets with sample diversion technology were introduced during the operational trial and decreased the rate of confirmed-positive bacterial culture of PSPs from 2111 (1:474) to 965 (1:1036) per million (odds ratio, 0.46; 95% confidence interval, 0.22-0.95). No septic reactions to PSPs were reported (25,936 PSP units distributed).

CONCLUSION: Sample diversion and bacterial culture. are effective methods to reduce bacterial risk with WBP transfusion. Bacterial contamination of PSPs was assessed at 5.8-fold our current rate for apheresis PLTs utilizing comparable culture protocols.

he introduction of the Food and Drug Administration (FDA)-approved Acrodose PL system (Pall Medical, East Hills, NY) for producing prestorage-pooled, leukoreduced whole bloodderived platelets (PSPs), now offers the possibility of quality control (QC) bacterial culture testing of whole blood-derived platelets (WBP) at the blood center, utilizing either the eBDS (Pall Medical) or the BacT/ALERT 3D (bioMérieux, Durham, NC) culture systems.1,2 In addition to providing a means to screen WBPs, the Acrodose PL system offers the potential advantages of eliminating the time and labor needed for point-of-issue pooling at the hospital transfusion service and reducing outdate rates, because PSPs do not evoke a 4-hour outdate after pooling. PSPs, however, carry a disadvantage that confirmedpositive and indeterminate culture results lead to the discard of not only the final pooled product, but also to the retrieval and discard of all the associated red blood cell ; (RBC) and plasma products from the original whole blood

ABBREVIATIONS: PSP(s) = prestorage-pooled whole bloodderived platelet(s); WBP(s) = whole blood-derived platelet(s).

From the National Headquarters, American Red Cross, Washington, DC; the Jerome H. Holland Laboratory, American Red Cross, Rockville, Maryland; the Connecticut Region, American Red Cross, Farmington, Connecticut; and the Northern Ohio Region, American Red Cross, Cleveland, Ohio.

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RJB is a consultant to Immucor, Inc., and Cerus Corp. The authors attest that they have no conflicts of interest with respect to this study.

Received for publication April 25, 2008; revision received May 24, 2008; and accepted May 26, 2008.

doi: 10.1111/j.1537-2995.2008.01853.x TRANSFUSION 2008;48:2348-2355.

2348 TRANSFUSION Volume 48, November 2008