must market their results to influence health policy. Changes in health policy are being made; during manuscript revision, we were informed of the selection of leishmaniasis among the priority zoonoses addressed by the Episouth 13. network (www.leishrisk.net).

Deciding health policy is a complex social, economic, and political interrelationship that is much broader than leishmaniasis alone (or even infectious diseases generally). However, if Europe justifiably wants to invest more in surveillance of vector-borne diseases, the time has come to recognize its real impact on both animal and human health and include leishmaniasis as one of these diseases.

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PERSPECTIVE

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販売名(企業名)	赤十字アルブミン20(日本赤十字 赤十字アルブミン25(日本赤十字		
目的:人血清アル は病院で、特に治 ら、C. pneumoniae	療的プラズマフェレーシスを行う	ランティアドナーから採血された全血由来のプールから製造され、一般的に 計るの補液療法に用いられている。我々の研究室他における以前の調査か 一及び採血された血液細胞製剤から分離された。これらの知見に基づき、	

|無細胞性の皿液製剤であるHSAについてクラミシアが存在するか分析することにした。 |方法:様々なHSA製剤のボトルをApheresis Medicine Service at Baystate Medical Centerから入手した。これらの素材は品質管 |理目的に使用された廃棄製剤や期限切れロット、アフェレーシス療法を中断した際の補液の残りである。 クラミジアの検出は標準 PCR、ウエスタンブロット、組織培養、免疫蛍光染色を用いて行った。

|結果:メーカー4社が製造しているHSA製剤20種類を検討した。クラミジア特異的DNAがPCRで20本全て(100%)から検出され た。種特異的プライマーを使用したところ、17検体(90%)がCP DNA陽性となったが、Chlamydia trachomatis (Ct) DNAが陽性と なったものはなかった。クラミジア特異的ポリクローナル抗体を用いたウエスタンブロットで、PCRのデータが裏付けられた。培養 では、クラミジア生菌が11(55%)のHSA製剤で認められた。

結論:PCR及びウエスタンプロットを用いて、20本のHSA製剤全てにおいて、クラミジアの存在が確認された。予期せぬ事だった が、これら無細胞性HSA製剤において、in vitro培養を行ったところ、11検体でクラミジア生菌が生育した。

|血液を原料とすることに由来す る感染症伝播等

報告企業の意見

PCR及びウエスタンブロットを用いて、20本の市販人血清アルブ ミン製剤全てにおいて、クラミジアの存在が確認され、in vitro培 |養を行ったところ、11検体でクラミジア生菌が生育したとの報告 である。

今後の対応

これまで、本製剤によるC. pneumoniae感染の報告はない。クラミジア は熱感受性で56℃30分で不活化されるとの報告もあるが、日本赤十 字社が製造販売している赤十字アルブミンははるかに厳しい、60℃10 時間の液状加熱で不活化を行なっている。また最終製剤について PCR法で試験したところC. pneumoniaeは検出されなかったことから 本製剤の安全性は確保されていると考えるが、今後も情報収集に努

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Abstract Title: Chlamydia Presence in Commercial Albumin Preparations

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Presentation Number: C-260
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Keywords: Chlamydia, Human Albumin, transfusion

Purpose: Human serum albumin (HSA) prepared from large pools of whole blood collected from normal volunteer donors, is commonly used in hospitals for fluid replacement therapy, especially in patients undergoing therapeutic plasmapheresis. From previous investigations by our lab as well as others, C. pneumoniae (Cp) organisms have been isolated from these normal blood donors and cellular blood products collected from them. Based on these previous findings we elected to assess HSA, an acellular derivative of donor blood, for the presence of Chlamydia. Methods: Bottles of various preparations of HSA were obtained from the Apheresis Medicine Service at Baystate Medical Center, Springfield MA. These materials were obtained from discarded stocks used for quality control purposes, outdated lots and from residual replacement fluids from truncated apheresis procedures. Detection of Chlamydia was accomplished through standard PCR, Western blotting, tissue culture, and immunofluorescence techniques. Results: Twenty different HSA preparations from four different manufacturers were examined. Chlamydia-specific DNA was detected by PCR in all 20 [100%] HSA preparations examined. Using genus-specific primers, 17 samples [90%] were positive for Cp DNA, while zero samples were positive for Chlamydia trachomatis (Cf) DNA, Western blotting analysis uing Chlamydia-specific polyclonal antibody supported the PCR data. Culture analysis demonstrated that viable Chlamydia was present in 11 [55%] of these commercial HSA preparations. Conclusions: The presence of Chlamydia was evidenced by both PCR and western blotting techniques in all 20 HSA preparations examined. Unexpectedly, in these acellular HSA preparations, in vitro culture analysis revealed that 11 [55%] of the samples tested harbored viable Chlamydia.

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医薬品 研究報告 調査報告書

熱	番号・報告回数			報告日	第一報入手日	新医薬品	等の区分	機構処理欄															
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: '	一般的名称	新鮮凍紅	吉人血漿		Polizzotto MN, Neo F D, Shortt J, Cole-Sino		公表国																
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		Wood EM.	オーストラリア																
	我々の知る限り初)輸血による <i>Strepto</i>	ococcus pneumoniae感染の				使用上の注意記載状況・ その他参考事項等															
群と汎血球減少症を発症した79歳男性である。輸血前の診察では平熱だったが、血小板輸血に続いて赤血球1単位を輸血した 40分後に39.6℃の発熱、悪寒、背部痛、血圧低下、低酸素血症を発症した。輸血を中止し、抗菌薬による治療を行ったところ回 復した。 受血者及びRBCバッグの残存血液検体の培養によりS. pneumoniae 血清型4が生育した。付属セグメントとRBCバッグ本体に色 調の違いはなかった。また、RBCの前に輸血した血小板製剤の残りは得られなかった。輸血されたRBC製剤は採血後10日間保 存された物で、採血、製造工程での異常はなかった。供血者は53歳の男性で、脾臓摘出術、喫煙、呼吸器感染症などS. pneumoniae 感染のリスク要因はなく、これまで30年以上供血を続けてきた。血液、鼻腔、咽喉検体の培養は、尿の肺炎球菌抗原 いてJD等の伝播のリスク																							
											概要	の 検査と共に陰性だった。 S. pneumoniaeが冷蔵保存されたRBC製剤中で生存、増殖するというデータはこれまでなかったが、今回、RBC製剤1単位に マントン・1×10°のS. pneumoniaeを接種し、4℃で10日間保存後に採取した検体を培養したところ、持続的な増殖が認められた。ただ、21											
											日後の検体では増殖は認められなかった。 感染の原因は供血者の一時的な菌血症と考えられるが、先に輸血された血小板製剤の汚染の可能性も否定できない。本症例は、通常考えられない細菌によるRBCの汚染も疑り必要があることとヘモビジランスの重要性を物語る。輸血後の敗血症の迅速な診断と抗生物質療法、原因の追及と、随伴製剤の回収が重要である。												
•		告企業の意見			今後の対応																		
告例 が検	球輸血による <i>Strept</i> である。本症例では 出され、再現実験も 頑しないとされている。	、患者とバッグ内の 行われているが、通	残存血液から細菌 常4℃の低温下で	日本赤十字社では、輸血ス感染について医療機関 「血液製剤等に係る遡及 食発第0310009号)におり	る情報提供し注意を 調査ガイドライン」(平	・喚起している 成17年3月	5。また、 10日付薬																
	分な検証が必要と考			扱い イ. 細菌り管準じ細周知している。今後も細胞	菌感染が疑われる場	合の対応を	医療機関に	,															

LETTERS TO THE EDITOR

Streptococcus pneumoniae septicemia associated with red blood cell transfusion

Bacterial contamination of blood components, including red blood cells (RBCs), remains an important risk of transfusion. Bacteria responsible for clinically significant contamination of RBCs include both skin commensals and organisms that are able to proliferate even in refrigerated storage conditions. We describe a case of transfusion-transmitted *Streptococcus pneumoniae* infection caused by contaminated RBCs. This highly pathogenic, but fragile, noncommensal organism has not to our knowledge been reported previously as a cause of transfusion-transmitted bacterial infection.²

The recipient was a 79-year-old man with myelodysplastic syndrome and pancytopenia. He had neither history of splenectomy nor evidence of functional hyposplenism. He was afebrile with a normal physical examination before blood transfusion. He received a transfusion of pooled platelets (PLTs) without complication which was followed by transfusion of a unit of RBCs suspended in additive solution and citrate-phosphate-dextrose additive (Adsol, Baxter Healthcare, Deerfield, IL). After approximately 40 minutes, the recipient developed a fever of 39.6°C, rigors, back pain, hypotension, and hypoxia. The transfusion was discontinued and he was treated with intravenous piperacillin-tazobactam, vancomycin, and gentamicin.

Blood samples from the recipient at the time of the fever, together with the residual contents of the container of the RBCs, were available for further testing, but the container of the previously transfused unit of PLTs was not retrievable. The residual contents of the unit of RBCs were not discolored compared with the attached segments. A Gram stain was negative. Cultures were performed separately on the blood samples from the recipient and the residual contents of the unit of RBCs (BacT/ALERT, bioMérieux, Durham, NC). These cultures flagged positive within 12 hours, and subcultures demonstrated Gram-positive a-hemolytic diplococci that were optochin-sensitive and bile-soluble, characteristic of S. pneumoniae. Automated identification and susceptibility testing (Vitek 2, bioMérieux) confirmed these findings and demonstrated β-lactam sensitivity. The organisms from both the unit and the recipient were serotype 4.

The recipient made a gradual clinical recovery. Subsequent blood cultures were negative. He became afebrile within 24 hours. He completed a 5-day course of piperacillin-tazobactam (vancomycin and gentamicin were withdrawn after availability of sensitivities) and was discharged with a 10-day course of oral amoxicillin. He remained well at last review.

We assessed possible sources of this unusual contamination of RBCs. The implicated unit of RBCs had been collected 10 days before transfusion. The phlebotomy and processing had been uncomplicated, with no apparent breach of aseptic technique or evidence of respiratory droplet contamination. Plasma from the same blood collection was discarded for an unrelated reason; no PLTs had been made. Components associated with the previously transfused unit of PLTs were also cultured and showed no growth.

The donor was a 53-year-old man, with no history of splenectomy, tobacco use, or respiratory tract infection. He had not been immunized against *S. pneumoniae*. He had donated on numerous occasions more than 30 years before the implicated donation without complication. He had no symptoms suggesting infection at the time of blood collection, but he did report a dental infection 3 months previously. This infection had been treated by tooth extraction and oral antibiotics. There was no evidence of a persistent infection. There had been no other procedures in the intervening period. Physical examination was normal. Cultures of blood and of swabs from the donor's antecubital fossae, nose, and throat were negative, as was urinary testing for pneumococcal antigen.

S. pneumoniae has been reported as a rare contaminant of PLTs,³ but unlike commensal streptococci (which have infrequently been implicated in cases of contamination of RBCs¹), there has been no evidence that this organism survives and proliferates outside a host in refrigerated storage of RBCs.² Its ability to survive under these conditions was further explored (though without direct evidence of proliferation in RBCs). A unit of RBCs was inoculated with 1×10^3 organisms of S. pneumoniae from the original cultures. The inoculated unit of RBCs was maintained at 4° C for 10 days, after which samples were cultured and identified as above. These again demonstrated sustained growth of S. pneumoniae. Further cultures performed on separate samples taken after 21 days of incubation at 4° C showed no growth.

This previously unreported cause of contamination of RBCs and transfusion-transmitted S. pneumoniae infection had significant adverse clinical consequences and has implications for clinicians and blood services. This case illustrates the importance of a high index of clinical suspicion for RBC contamination, even where the organism is atypical, and the role of robust hemovigilance systems. Prompt recognition of the source of sepsis enabled timely institution of antibiotic therapy and liaison with the blood service to review the donor's health status, collection, and production processes and to enable immediate recall of associated blood components. The source of contamination could not be established definitively. We postulate that it may have originated from a transient bacteremia. While

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unlikely, the possibility of retrograde contamination from the previously transfused PLTs cannot be excluded.⁵ This episode was not preventable, given the absence of symptoms that might have led to donor deferral and the lack of visual evidence of contamination.

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Unusually strong, but transient, nonspecific human immunodeficiency virus types 1 and 2 antibody reactivity

In low-risk populations, such as nonremunerated voluntary blood donors, a high proportion of reactive screening immunoassay (IA) and indeterminate immunoblot results represent nonspecific reactivity due to cross-reacting antibodies. To reduce the number of donors with nonspecific indeterminate immunoblot results the Australian Red Cross Blood Service uses a dual IA strategy for human

immunodeficiency virus types 1 and 2 antibody (anti-HIV-1 and -2), hepatitis C virus antibody (anti-HCV), and human T-lymphotropic virus types I and II (anti-HTLV-I and -II) screening whereby blood donors' samples that test reactive on a primary screening IA are retested on a secondary IA and further tested by immunoblot only if reactive on both IAs. All donations are screened also by nucleic acid testing for HIV-1 and HCV RNA using a dedicated tube. We report the case of a donor with apparent transient nonspecific reactivity on primary and secondary anti-HIV-1 and -2 IAs and HIV Western blot.

Between July 2002 and August 2006, blood samples from six donations by a female donor all tested nonreactive by the anti-HIV-1 and -2 primary screening IA (PRISM HIV O Plus chemiluminescent immunoassay [ChLIA]. Abbott Diagnostic Laboratories, Delkenheim, Germany). A sample from the donor's seventh donation in November 2006, however, tested strongly reactive by the ChLIA with a mean sample-to-cutoff (S/CO) ratio of 6.15. The sample was further tested in duplicate on the secondary IA (Genscreen Plus HIV Ag-Ab EIA, Bio-Rad, Marnes La Coquette, France) with a mean \$/CO ratio of 24.2. The Western blot (HIV blot 2.2, MP Biomedicals, Irvine, CA) result showed 1+ reactivity to p24 and gp160 antigen bands and therefore was interpreted as indeterminate according to the criteria of the National Serology Reference Laboratory, Australia. The donor was recalled 3 weeks later, and a blood sample was retested by the same IAs and found to be nonreactive by both (PRISM S/CO, 0.69; Genscreen S/CO, 0.05) with noband reactivity on the Western blot. All seven donations (tested in pools of 16) and the recall sample (tested individually) were nonreactive by the HIV-1 and HCV assay for HIV-1 and HCV RNA (Procleix, Chiron Blood Testing, Emeryville CA). At a recall interview, the 48-year-old donor did not report any risk factors for HIV infection, but indicated a history of rheumatoid arthritis and a current

Although the donor's blood sample gave unusually high S/CO ratios on both the PRISM and Genscreen IAs and an indeterminate Western blot result, follow-up testing indicated that these results were due to nonspecific reactivity. None of the donations had detectable HIV-1 RNA and the serologic reactivity was transient, becoming undetectable within 3 weeks. In addition, the transient serologic reactivity was associated with a clinical condition involving an underlying immune response, consistent with previous studies reporting an association between nonspecific reactivity with evidence of a concomitant immune response.2-4 We believe that it is unlikely that the sample that showed reactivity on two IAs and the Western blot was contaminated because there were no anti-HIV-positive donor samples in the laboratory at the time. As well, instrument carryover from a positive control is unlikely because testing is fully automated and a new disposable tip is used to sample from each tube.

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個別症例報告のまとめ方について

個別症例報告が添付されているもののうち、個別症例報告の重複 を除いたものを一覧表の後に添付した(国内症例については、資料 3において集積報告を行っているため、添付していない)。