究報告の

概

			医米阳 机九银口	网旦双口言				
識別番号·報告回数			報告日	第一報入手日	新医薬品	等の区分	総合機構処理欄	
				2008. 11. 20	該当	なし		
一般的名称	人血清ア	「ルブミン				公表国		
販売名(企業名)	赤十字アルブミン2 赤十字アルブミン2		研究報告の公表状況	Dorsey K, Zou S, Sch Fang C, Dodd R. TF 2008-Vol. 48 Suppler	RANSFUSION	米国		
〇古典的CIDの輪	血伝播リスクは 仮	LT TA Z LI THUCK) + N+ 左连1× ((1))					

〇古典的CJDの輸血伝播リスクは、仮にあるとしてもvCJDよりも有意に低いーUSルックバック試験 背景:1995年に米国赤十字(ARC)と疾病管理予防センター(CDC)は、古典的クロイツフェルト・ヤコブ病(CJD)についてのルッ クバック調査による評価を開始した。これまで、ヒトにおける古典的CJDの輸血伝播の報告はない一方、変異型CJD(vCJD)の輸 血伝播は英国で報告されている。

方法:供血後にCJDと診断された供血者(CJD供血者)に由来する血液成分の受血者を登録した。生存受血者については登録 以降毎年バイタルサインをモニターした。受血者が死亡した場合は死因を調査し、2005年末までの死亡を網羅した。

以降毎年バイタルサインをモニターした。受血者が外にした場合は外内を調査し、2005年末までの死亡を網羅した。 結果: 古典的CJDを発症した供血者計35名 (2名を除き孤発性CJD) および受血者430名を本試験に登録した。2005年までに生 存受血者88名 (1,135人年)、死亡受血者326名 (813.5人年)、後に追跡不能となった受血者16名 (64.5人年)の合計2,013人年 の輸血後追跡調査が行われた。受血者のうち、144名は5年以上生存(長期生存者)し、CJDによる死亡は確認されなかった。長 期生存者については、さらに関係する製剤輸血日と供血者のCJD診断日の間隔を調査し、英国におけるvCJDの観察と比較し た。CJDの輸血伝播リスクは、vCJDと比べて有意に低かった(p = 0.0117、Fisher の直接確率検定)。 結論:今回のルックバック検査の結果は、孤発性CJDの受血者への輸血伝播の証拠がないことを示しており、CJDの輸血伝播の リスクは(何にあったとしても)vCIDと比較して有音に低いことを示するのである

リスクは(仮にあったとしても)vCJDと比較して有意に低いことを示すものである。

使用上の注意記載状況・ その他参考事項等

赤十字アルブミン20 赤十字アルブミン25

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

古典的CJDを発症した供血者計35名に由来する血液成分の受血者430名のルックバック調査の結果、孤発性CJDが輸血で伝播する証拠はなく、リスクはvCJDと比較して有意に低いとの報 告である。

今後の対応

予佐の河心これまでの疫学研究等では、血液製剤を介して古典的CJD(弧発性、遺伝性および医原性CJD)が伝播するという証拠はない。またCJDの病原因子とされる異常プリオンがアルプミン製剤の製造工程で効果的に除去されるとの報告もあるが、輸血あるいは第個因子製剤によりいCJDに感染する可能性が示唆されたことから、今後も引き続き情報の収集に努める。なお、日本赤十字社は、CJD、vCJDの血液を介する 阪染防止の目的から、献血時に過去の海外渡航歴(旅行及び居住)、CJDの既往歴(本人、血縁者)、hGH製剤投与の有無を確認し、該当するドナーを無期限に献血延期としている。



MadDDA / 11/am 11 0 1

A Linked Denor and Recipient Study of B19 Viral Transmission by Blood Component Transtitution

S Keimman' (Belemann® Shakeal), S Glynn*, T-H Lee*, L Tobler*,

S Keimman' (Belemann® Shakeal), S Glynn*, T-H Lee*, L Tobler*,

S Schümpf, B10dd*, M-B Gusch*, for the Methell Retrovisions Epid Denor

Sudylit*, 'University B16 Bellessa', Mary-Blood Systems Research

Institute, San Francisco, CA*, Wester, Rockville, MOZ Blood Systems, Inc.

4 Blood Systems Research Institute, San Francisco, CA*, Bethesda, MO. Richard Cable, Shirnian Zou, Kerri Dorsey, Yaniin Tang, Cheryl Hapip, Rusself Melmed, Jonathan Trouern-Trend, Chryang Fang, Melaria Champton, Roger Dodd: Nothing to Obschose YanYun Wu: ARC – Grants or Research Support Disclosure of Conflict of Interest

Background: B19 virus (8)39/) transmission by pooled plasma products has occurred from Factor Will when DNA concentration (conc) exceeded 10' Ul/mL and from SD plasma at a DNA conc of 10' Ul/mL; his has led to 'in process' screening of recovered and source plasma units for high 619v DNA concs (10' Ul/mL). Although several cases of 19ly inherition have occurred from component (cmpt) transitission (b). B19 screening is

Background: In 1995, the American Red Cross (ARC) and the Center's to Disease Centrel and Prevention (CDC) intributed a look-back invastigation to assess the risk of transfusion interamission of classic forms of Creutiblet – Jakob disease (CDD), sporaetic, familial and lateografic CDD. In presents of the Infectious agent of estackic CDD in blood has been documented in the united kingdom of classic CDD in humans has been documented in the United Kingdom. Nathods: Bood donors who were subsequently diagnosed as having CDD (CDD donors) were identified by reports primarily from collaborating bood centers, the food and Drug Administration (FDA), and tarnly members, Following vehication that the CDD deponsits was made by a naviologist or confurred by a parinologist blood genters (Identified the donations made by the CDD donor and located the host/plais that received any of the blood components. The respiration of these components that were identified by reaching the report of the control of the study. Their vital status, and cause of death, if deceased, was monitored by searching CDC SI validated Death Index (VDI) adabased and profit of the study. Their vital status, and cause of death, if deceased, was monitored by searching CDCS National Death Index (NDI) adabased, and control and every year thereafter for surviving recipients, the last NDI search covered deaths through the end of 2005. Results: A robat of 35 blood donors with classic (non-variant) CDD and 430 recipients were enrolled in the study. All but 2 donors and sporaels CDD. Though 2005, recipients of their blood transfusion, 1,135 py from 88 surviving recipients, 18 35 py

Background: CMV transmission through transfusion remains a clinical cooper. Iwe effective strategies to reduce the risks of CMV TID have been he provision of CMV secongative blood and talucreatedron. Even though the provision of CMV secongative blood and talucreatedron. Even though this still under debata, these two methods have been considered operationally equivalent in many institutional policies. For many hospitals, universal leukoreduction has become the main strategy for the prevention of CAV TID, Direct assessment of CAV TID risk is facility in the provision of CAV TID. Direct assessment of CAV TID risk is facility in the provision and testing of transfused units were all eukoverduced and testing of transfused units were all eukoverduced and testing of their linked donors, the risk for CAV TID was studied. Ab and testing of their linked donors, the risk for CAV TID was suggested to the complex of the complex vertical testing (AT) were performed on all TRs testing assessment of the CAV Exercises (AV) that shall be a complex to the complex vertication of the complex of the complex of the complex vertication of the complex of the complex vertication of the complex of the complex of the complex vertication of the complex of the com

S88-030K
The Risk of Transfusion Transmission of Classic CuD Is Lower Than The Risk of Transfusion Transmission of Classic CuD Is Lower Than VCUD, If not Zero - Results from US Look-Back Study K Dorsey' (Dodd'0 usa redicross org), S Zou', L Schonborger*, C Fang', R Dodd'', American Red Cross, Rockville, MD, MO'Arlanta, GA', American Red Cross Biood Services, Rockville, MD.

Steven Kleinman, Simone Glynn, Tzong-Hae Lee, Loslic Tobler, Karen Schlumpt, Deboreh Todd, for the NHLBI Retrovinus Epid Donor Study-II, Michael P. Busch: Kothing to Disclose

	# DNA pos empts	* DNA pos empls	Total # DNA nos
pos dnins	recipients	ted to non-susc	compts to d to
56	15	45	60
1 5	~>	on .	2:
23	ယ	22	25
•	_	ພ	
0	0	0	0
_	0	_	
103	21	.63	110.
2	0	~>	2
105	21	91.	112.
an one component :	was tod for some po	an one component was bid for some pas donations; some fecipients received to pas component.	apients received
10-6-			

generally not performed for transfusable components as thore has been no systematic study of his transmission rate or its association with B19 (DNA conc. Methods: DNA positive (pos) donatons (clinis) were identified by screening tozen repository plasma specimens (gna) previously validated sensitive kinelic PCR assay; Tx transmission was evaluated using various B19V assays to test pro- and 6-12 months positive specimens (cond) components; controls were selected in a 2:1 ratio and matched for trators influencing B19 transmission by non-trivous provision examination of trators influencing B19 transmission by non-trivous experision country operation of the positive stems of the previous provision (cut previous provision) propiety and controls. Results: 105 of 12,529 donor specimens (0,83%) were B19 DNA pcs; see the Table for plasma DNA cortes; 110 components (massly roca) from 103 obs donations with DNA cortes; 110 components (massly roca) from 103 obs donations with DNA cortes; 110 components (massly roca) from 103 obs donations with DNA corte; 110 ms of transmission are was thus 0.0% (95%; Cl - 0,433) and the date of the previous provisions (massless that transmission components (massless that transmission tale was thus 0.0% (95%; Cl - 0,433) and the provisions, the lack of the transmission of the transmission conductors. It is glob DNA and (9,4 Ap os donations, the lack of the transmission of the transmission conductors. It is glob DNA and (9,4 Ap os donations, the lack of the transmission of the force of the previous provisions) of the provision of the provisio

Y. L'ang', C Happ, I Melmed', J'Touenn-Trend', M Champion', C Fang', R Dodd, "Take University, New Haven, CT; American Red Cross Blood Services, New England Div, Farmington, CT; American Red Cross, Rockville, MD, American Red Cross Striband Lab, Rockville, MD, American Red Cross, CT; American Red Cross, MD, "Yale-New Haven Hospital, CT; American Red Cross, MD," Yale-New Haven Hospital, CT; American Red Cross Blood Services, MD.

ABSTRACT SUPPLEMENT

158

ransfusion Practice/Clinical Case Studies

Accumulation of Thrombospondin-1 (TSP-1) in Packed Red Blood Cells is Reduced by Whole Blood Leukoneduction Filters
L Cardo (Conna Wider @ na smeddarmty.ml), D Wider, "Weller Reed Army Institute of Research, Silver Spring, MD-*Silver Spring, Amy Institute of Research, Silver Spring, MD-*Silver Spring,

Background: Independent of other factors related to shock, blood transition is a risk factor for multiorgan failure (MCP) in traums. The risk of organ failure, speales, and death correlates with horeasing transition amount pathological speciments of organs of patients with MCP and disseminated intravascular coagulation (DI) above widespeals microscalar thromoses. Multiple hemostatic changes occur in MCP leading to DIC. Degranulation of patients with with the severity of MCP. TSP- ((thrombin sensitive protein) its one of the most abundant proteins in the pistelet organule comprising 25%, and is pair of a class of extracellular molecular building proteins. The calculation of the pistelet organule comprising 25%, and is pair of a class of extracellular molecular building proteins. The calculation of the pistelet is regardly copyets, and otherwise proteins. The calculation of the patients with a convenient of the patients and the other calculations of CDV7, and integer than the calculation of the patients of the patients of the patients and copyet as a possible contributor to MOF due to transition of the patients of the patients and copyet as a possible contributor to MOF due to transition of the patients of the pa

from 325 deceased recipients and 64.5 py from 16 recipients who were subsequently lost to bilow up. Among the recipients, 144 survived 5 years or more (long-ferm survives), by deaths from CLI were identified among the recipients. The most common causes of death among the recipients evere cancest followed by carborascular diseases. The long-term survivors were further analyzed by the interval between the date of transfusion of the implicated until and the date of diagnosis of CLID in the door. A comparison of observations of vCLID in the UK (TMER study) using recipients who lived 5 or more years post-fransfusion and had received the unit of blood from a door whose symptoms occurred 60 months prior to nessel of symptoms. The transfusion framsmission risk of CLID was statistically significantly lower than thad of VCLID (j = 0.0117, Faithere avail east). Concludate that the results from this look-back study confund to show no evidence of transfusion fransmission of sporadic CLID in significantly lower that than that I avy, of transfusion transmission of CLID is significantly lower that than that Kerri Dorsey, Shimian Zou, Lawrence Schonberger, Chyang Fang. Roger Dodd: Nothing to Disclose

Current Value of Serviogic Test for Spyhills as a Surrogate Marker for Bloodborne Viral Infections among US Blood Donors for Blood Donors Sozial February, Brotari, C Fangi, S L Stramer, S Zou' (Dodde usa. redoross.org), E Notari, C Fangi, S L Stramer, R Dodd', "American Red Cross, Rockville, MD', American Red Cross, Blood Sonvices Moland Lab, Rockville, MD', American Red Cross Blood Sonvices Moland Lab, Rockville, MD', American Red Cross Blood Blood Sonvices Moland Lab, Rockville, MD', American Red Cross Blood

Background: Routine serologic screening for syphilis has been conducted for two pessons: 1) preventing transfusion transmission of sphilis although its value has been shown to be limited; 2) serving as a surrogate marker for infections caused by other pathogens such as HIV. This study assessed the current value of the test in adoptating the blood supplier was enabled on the test in adoptating the blood supplier was analyzed. All donations were tested according to standard procedures for enti-HIV, HIV RNA, enti-HOV, HOV RNA, HISAA, anti-Bodde supplier was enabled at the number of contineed served served served. Seriality is additionally all served to the number of contineed served served served in the first incidence rate was defined as the number of contineed served served; served to the number of contineed served served served in the predictive value (PPV) was the number of contineed third converters or varial RNA converters or ver tool the other indection, such as HIV, whereas positive predictive value (PPV) was the number of contineed third converters among at confirmed supplies served. Served served served served in the predictive value (PPV) was the number of contineed third converters among at confirmed supplies are served to the other indection pave the estimated furnities of the served served to sphilis served to the other indection pave the estimated of concrete value (PPV) was the number of contineed third converters among at confirmed sphilis served to the other indection appear the setting and third the were significantly higher frequencies of HIV, HCV, HBA-Ag and HIV, possible docations among those with positive sphilis test although such samples would not be expected to secape detection because of the use of million testing for both syphilis and anti-HIV, 158 served converters vs. non-served toractions of the sphilis with only is served to an ati-HIV, 57 served served to sphilis, resulting in an indence ratio of 301 (95% and 201) as an about the sphilis and thirty of 0.6%. No sphilis but not for a

102,433 215,484 458,247 508,753 646,894 837,582 773,083

Disclosure of Conflict of Interest Lisa Cardo, Donna Wilder: Nothi Donna Wilder: Nothing to Disclose

70,504 166,957 394,759 425,944 647,201 641,212 663,248

732,522 2,076,779 8,208,680 17,884,850 11,887,478 11,719,325 11,791,379

Analysis of 84,738 Hospital Inpatients
A Spence[†] (frapopristy® hamonetics.com), P Parce[†], I. Rose[†],
M. A Popovsky[†], Hamonoetics, Econt City, MO[†]Haemonetics
Corporation, Brainfree, MA[†]Haemonetics Corporation, Brainfree, MA. Does Leukareduction of Blood Products influence Outcomes

Background: Allogeneic leukocytes have been implicated as a cause of transhiston-related immunomodiation (TRIM) and have been associated with post-operagive infection (POI) and systemic inflammatory response syndrome (SIRS); in transhissed patients. Universal leukocreduction (LR) of red blood sell (RBC) units has been proposed as a meants of eliminating TRIM and improving outcomes but the success of this strategy remains uncertain. We performed a retrospective analysis of 48-2738 hospitalized patients from 20 hospitals trasted between 2002 and 2007 included in our database (COMPARETM, infortal/Mamonetics-8). Statintee, MA) to determine the influence of LR on the incidence of POI and SIRS in hospitalized mine the influence of LR on the incidence of POI and SIRS in hospitalized patients. Methods: Primary disponsits, age, gender, race, emergency admission, any surgery, corrorrobidities, swerrilly of liness; any RBC, only LR RBCs (LR), any NON LR RBCs (NON LR), and NON LR RBCs plus

Shimian Zou, Edward Notari, Chyang Fang, Roger Dodd: Nothing to Disclose

研究報告 調査報告書 医薬品

別紙(2)-3

報告日 一報入手口 新医薬品等の区分 厚生労働省処理欄 識別番号・報告回数 2009年3月30日 該当なし -般的名称 乾燥 pH4 処理人免疫グロブリン A recipient of immunoglobulin from ①サングロボール a donor who developed vCJD **公表国** 研究報告の公表状況 ②サングロポール点滴静注用 2.5g 販売名(企業名) Vox Sanguinis April 1, 2009, 96/3 英国 使用上の注意記載状況・ その他参考事項等 vCJD を発症した供血者の血漿を含有した静注用人免疫グロブリンを投与されたが、当該患者は臨床的に vCJD を発症せず、組織病理学的 及び分子技術によりプリオン蛋白が沈着しているエピデンスを発見できなかった。 現在まで赤血球成分によるプリオン伝播は4症例報告されているが、静注用人免疫グロブリンによるプリオン伝播の症例報告は無い。 静注用人免疫グロブリンなどのブール血漿の製品の安全性は、伝播する可能性を減少する製造方法での多数の工程により高まっている。 現在の静注用人免疫グロブリンの製造方法は Slogio までブリオン分子を削減できるので、たとえ供血にプリオン蛋白が含有されていても静 注用人免疫グロブリンによる vCJD 伝播の明スクは低い。 静注用人免疫グロブリンによる vCJD 伝播の報告は無いが、伝播の可能性を避けるため予防的措置として 1997 年から英国の血漿は、血漿分 画製剤の製造に使用されていない。 静注用人免疫グロブリンは多くの適応症があり、世界の需要は供給を上回っている。 現在、英国では静注用人免疫グロブリンの使用できる適応症が厳重に制限されている。世界の市場から英国の供給を賄うことが次第に困難 になってきているため、血漿分画製剤の製造への英国血漿使用の禁止を継続すべきかどうか再調査するのが適切かもしれない。 このことから、現在の論争を巡る多くの問題点が浮かび上がってくると考える。 報告企業の意見 これまで本剤によるvCJDが伝播した報告はない。製造工程において「今後とも新しい感染症に関する情報収集に努める所存である。 異常プリオンを低減し得るとの報告があるものの、理論的なvCJD等 の伝播のリスクを完全には排除できないので、投与の際には患者への 説明を十分行い、治療上の必要性を十分検討の上投与することを添付 文書に記載し、注意喚起している。

別紙樣式第2

159

Vox Sanguinis (2009) 96, 270

Journal compilation © 2008 International Society of Blood Tenry(selection DOI: 10 1111/j.1423-0410.2008.01-484.

44. HSB3 / LSZ.

of the bowel respectively. At age 72, she died of recurrence of adenocarinoma ID50/g of these batches were 0-0000112 and 0-0000688, VGD 049 and 4 imes 2.5 g vials from VGD 050. The estimated onwards. During the period January 1997 to February 1998 plasma from a donor who later developed variant Creutzfeldtshe received batches of immunoglobulin that contained infusions of Vigam (BPL, Hertfordshire, UK) from 1995 immunoglobulin (IVIG) replacement therapy with three weekly Jakob disease (vCJD). She received 8 imes 5 g vials from batch is unfortunately not uncommon [1]. She received intravenous for 10 years. A delay in the diagnosis of antibody deficiency (CVID) after having suffered recurrent pulmonary infections years was diagnosed with common variable immunodeficiency We present the case of a female patient who at the age of 61

Although the patient received IVIG from a batch containing Post-mortem analysis of tissues was performed by the

of abnormal prions if transmission had occurred in this case. [2]. Therefore, it seems reasonable to expect to find evidence cases of vCID transmission by red cell components (5-8:5 years) than the interval from transfusion to death in the reported death from unrelated causes was 9 years, which is longer interval between treatment with the implicated batches and prion protein being present in the brain on histological, immunocytochemical or Western blot analysis. The time not known to affect the detection of prion material in the was negative for prion protein. There was no evidence of body tissues. Western blotting of spleen and lymph nodes formaldehyde into her femoral artery, but this process is had been embalmed after death, by the introduction of National Creutzfeldt-Jakob Disease Surveillance Unit. She

developed vCJD A recipient of immunoglobulin from a donor who

revised 8 December 2008, accepted 14 December 2008 Received: 24 October 2008

T. El-Shanawany

P. Williams D. J. Unsworth

T. El-Shanawany Department of Immunology, University Hospital of Wales

E-mail: tariq.el-shanawany@cardiffandvale.wales.nhs.uk

Southmead Hospital

Department of Immunology and Immunogenetics

References

Cunningham-Rundles C, Bodian C: Common variable immnuno

deficiency. Clinical and immunological features of 248 patients

Clin Immunol 1999; 92:34-48

Reichl HE, Foster PR, Welch AG, Li Q, MacGregor IR, Somerville RA tion in the United Kingdom. Euro Surveill 2007; 12:3117 83:137-145 the manufacture of human immunoglobulin. spongiform encephalopathy-derived agent by processes used in Fernie K, Steele PJ, Taylor DM: Studies on the removal of a bovine Ver Sang 2002;

Editorial Team: Fourth case of transfusion-associated vCJD infec-

Jolles S, Sewell W, Misbah S: Clinical uses of intravenous immu Uren E, Middleton D, Selleck P, Pal S: Prion-removal capacity of Thyer J, Unal A, Thomas P, Eaton B, Bhashyam R, Ortenburg J, noglobulin. Clin Exp Immun 2005; 142:1-11 chromatographic and ethanol precipitation steps used in the production of albumin and immunoglobulins. Var Sang 2006; 91:292-300

IVIG manufacturing schemes are able to remove prion particles with up to a 5 log reduction [3,4] such that the steps that reduce the potential for such transmission. Current enhanced by adding to their manufacturing scheme multiple components where four cases have been reported to date [2]. transmission by IVIG, in contrast to transfusions of red, cell molecular techniques. There are no known cases of prion

The safety of pooled plasma products such as IVIG has been

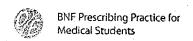
not develop vCJD clinically, and there was no evidence of plasma from a donor who developed vCJD, the patient did

deposition using histopathological and

of transmission of vCJD by IVIG may be low, even when a donation contains prion protein.

tractionated pooled plasma products should continue. We re-examine whether the ban on the use of UK plasma to make from the world market suggests that it may be appropriate to ing the current debate. believe that this case highlights many of the issues surround-(http://www.ivig.nhs.uk). Increasing difficulty in UK supply demand exceeds supply. More stringent indications for its use many indications for the use of IVIG [5], and worldwide tionary measure to avoid possible transmission. There are by IVIG, UK plasma has not been used for fractionation of are currently being drawn up and implemented in the UK pooled plasma products since 1997 as a (continuing) precau-Although there have been no reports of vCJD transmission

別紙様式第2-1 No. 4 医薬品 研究報告 調査報告書 報告日 第一報入手日 新医薬品等の区分 総合機構処理欄 識別番号·報告回数 該当なし 2008. 12. 18 新鮮凍結人血漿 一般的名称 公表国 Watson R. BMI 2008 Nov: 研究報告の公表状況 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) 販売名(企業名) ベルギー ○クラミジアは2006年に欧州でもっとも多く報告された感染症であることが新しいデータで示された
欧州疾病管理予防センター(ECDC)の調査によると、クラミジア症は2006年に欧州において225,000件を上回る症例が記録され、もっとも報告頻度の高い感染疾患であった。以下、ランブル鞭毛虫症(193,000症例)、カンピロバクター症(180,000症例)、サルモネラ症(168,000症例)と続き、ストックホルム研究所に定期的に報告される47感染症のうちの上位10位を占めた他の感染症は、結核、流行性耳下腺炎、淋病、C型肝炎、侵襲性肺炎・球療疾患、HIVであった。 使用上の注意記載状況・ その他参考事項等 新鮮凍結血漿「日赤」 症は、結核、流行性耳下腺炎、体病、し空肝炎、慢慢性肺炎が固疾患、HIVであった。 結核症例数はEU加盟27カ国とアイスランド、ノルウェー、リヒテンシュタインで減少傾向を示したが、英国、オランダ、スイス、ノル ウェー、スウェーデンなどの移民では50%以上増加した。毎年、欧州では約90,000名が結核と診断され7,800名が死亡する。主に 男性と性的な接触をもつ男性のHIV感染は増加し、毎年約30,000名がHIV / AIDSの診断を受け1,800名が死亡する。2010年ま でに欧州での根絶を目指している麻疹は6,279症例を記録している。 季節性インフルエンザは、年間2,500万人~5,000万人が感染し約40,000人が死亡する。また、欧州では毎年400万人ほどが院 新鮮凍結血漿-LR「日赤」 研 究 報告 血液を介するウイルス、 細菌、原虫等の感染 100無 vCID等の伝播のリスク 内感染し37,000名が死に至る。 アルステン・1,000日からにモニる。 メチシリン耐性黄色ブドウ球菌(MRSA)に関する状況は2002年以降ベルギー、オーストリアとスロベニアでは改善されたが、それ 以外の国は横ばいまたは増加した。抗生物質の不適切な使用が公衆衛生における重大な脅威を招くこと、抗生物質の有効性を 保つことは自身の責任であるとしたキャンペーンが展開されている。 報告企業の意見 今後の対応 欧州における2006年の感染症の発生報告はクラミジアが最も多 今後も情報の収集に努める。 く、以下、ランブル鞭毛虫症、カンピロバクター症、サルモネラ 、結核、流行性耳下腺炎、淋病、C型肝炎、侵襲性肺炎球菌 疾患、HIVの順であったとの報告である。



Search all BMJ Products



BMI medical publication of the year

Search BMJ.com

Advanced search

Published 19 November 2008, doi:10.1136/bmj.a2622 Cite this as: BMJ 2008;337:a2622

News

Chlamydia was most often reported infection in Europe in 2006, new data show

Rory Watson

¹ Brussels

Just over 225 000 cases of chlamsydia were recorded in Europe in 2006, making it the most frequently reported infectious disease, the latest research by the European Centre for Disease Prevention and Control shows.s

The findings, which will be published in the Stockholm based centre's annual epidemiological report in a few weeks' time, also confirm that giardiasis was the second commonest disease, with 193 000 cases. This is considerably more than the 15 000 reported in 2005, but the increase is almost entirely due to the 170 000 cases that occurred in Romania.

Two other food and waterborne infections came in third and fourth place: campylobacteriosis (180 000 cases) and salmonellosis (168 000). Other infectious diseases to feature in the top 10 of the 47 that are routinely reported to the Stockholm agency were tuberculosis, mumps, gonorrhoea, hepatitis C, invasive pneumococcal disease, and HIV.

Andrea Ammon, head of the centre's surveillance unit, gave an early presentation of the report's contents at a meeting of the agency's management board in Paris last week.

She noted that although the number of cases of tuberculosis had tended to fall in the 27 European Union members and in Iceland, Norway, and Liechtenstein, increases of up to 50% or more were being found among immigrants in countries such as the United Kingdom, the Netherlands, Switzerland, Norway, and Sweden.

The report also confirms an increase in infections of HIV, mainly among men who have sex with men, and records 6279 cases of measles, a disease that Europe is committed to eradicate by 2010.

The centre says that some four million people in Europe are infected every year while being treated in hospitals or clinics, of whom 37 000 die as a result. Seasonal flu affects between 25 and 50 million people a year, killing around 40 000.

Each year some 90 000 diagnoses of tuberculosis are made, a disease that kills 7800 people, while HIV or AIDS is identified in about 30 000 people, 1800 of whom die from the disease.

Although the situation regarding meticillin resistant Staphylococcus aureus (MRSA) had improved in Belgium, Austria, and Slovenia since 2002, in all other countries the levels of resistance to MRSA had either remained the same or grown. Data presented by Dominique Monnet, programme coordinator for antimicrobial resistance, showed that a threefold gap exists between countries that prescribe antibiotics to outpatients the most and those that do so the least.

Drawing on the high profile information campaigns that have helped to reduce use of antibiotics in France and Belgium, the Stockholm centre has helped more than 30 countries throughout Europe to run antibiotic awareness events in recent weeks. The common messages at the different events are that inappropriate use of antibiotics poses a serious threat to public health and that ensuring that antibiotics remain effective is everyone's responsibility.

Cite this as: BMJ 2008;337:a2622

More information is at www.ecdc.europa.eu.

El CiteULike Complore 🕏 Connotea 🖷 Del.Icio.us 🛱 Digg 🧖 Reddit 🔍 Technorati What's this?

Contact us - Privacy policy - Web site terms & conditions - Site map HighWire Press - Feedback - Help - © 2008 BMJ Publishing Group Ltd.

			医薬品	研究報告	調査報告書			
識別番号·報告回数			報	告日	第一報入手日	1		総合機構処理欄
			ļ		2008. 12. 19	該当	なし	
一般的名称	新鮮凍結人血	1漿					公表国	
販売名(企業名)	新鮮凍結血漿「日赤」(日 新鮮凍結血漿-LR「日赤」(日	日本赤十字社)		の公表状況	FDA, CBER. Available http://www.fda.gov/c tal07.pdf.		米国	
2005年度から200 2007年度に、FD	った供血後及び輸血後の3 17年度にかけて米国食品B Aは受血者76件、供血者1 として輸血を排除できない	医薬品局(FDA 7件の死亡報告)に報告され きを受領した	。受血者死亡	例の内訳は、52件か)概要である。 ⁵ 輸血に関連	したもの、	使用上の注意記載状況・ その他参考事項等
研 過去3年間の合言 (24%)をバベシア アフェレーシスカ	cu (細血を排除してない hは177例で、内訳はTRAL 症が占め、ついで <i>Staphyli</i> 小板に関連した致死性の	Jが98件 (55%) ococcus aureu	で最も高く、 sが4件(19%	微生物感染/	は21件(12%)であった			新鮮凍結血漿「日赤」 新鮮凍結血漿-LR「日赤」
報告の 概	TWENCE OF STATE OF	PA 1779_CC +W	L12, 2000		十段(二分-1) (1999)	· 56:54 t., 200	7年及6個	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
要								
-	最告企業の意見				今後の対応			
2005年度から2007年度た供血後及び輸血後の	にかけて米国食品医薬品 死亡例の概要である。	局に報告され	症情報を収 る。今後も	集し、医薬品	「法及び関連法令に 医療機器総合機構? 別作用・感染症に関す	を通じて国に	報告してい	
			る。	-	·		·· .	
	•	•						
								(%)

Annual Summary for Fiscal Year 2007

Fatalities Reported to FDA Following Blood Collection and Transfusion

Background

decrease. Overall, the number of transfusion related fatalities reported to the FDA remains small in transfusion medicine practices, the risks associated with blood transfusion continue to advances in donor screening, improved viral marker tests, automated data systems, and changes (FY) 2005 and FY2006, the blood supply is safer today than at any time in history. Due to As previously mentioned in the annual summary of fatalities reported to the FDA in Fiscal Years

CBER is distributing this summary of transfusion fatality reports received by the FDA to make public the data received in FY2007, to provide the combined data received over the last three fiscal years, and to compare the FY2007 reports to the fatality reports received in FY2006 and cautiously, given the small numbers of reports and inherent variations in reporting accuracy. The significance of shifts in numbers derived from small populations may appear to be greater than FY2005. We also include information on the infrequent reports of post-donation fatalities. Throughout this report we note changes over time, but the reader should interpret these changes

components transfused. During the proximate period of FY2006, there were 73 reported transfusion related and potentially transfusion related fatalities, with a decrease to 63 in FY2007

in comparison to the total number of transfusions. In 2006 there were approximately 30 million

further information, see our Guidance for Industry: Notifying FDA of Fatalities Related to Blood Collection or Transfusion, September 2003. Related Fatalities and Donation Related Deaths, http://www.fda.gov/cber/transfusion.htm. For (21 CFR 606.170(b) and 21 CFR 640.73), for fatality reporting requirements. For information Refer to Sections 606.170(b) and 640.73 of Title 21, Code of Federal Regulations regarding the notification process, see our web page, Notification Process for Transfusion

they really are.

¹ Whitaker BI, Green J, et al. The 2007 Nationwide Blood Collection and Utilization Survey Report. Washington

⁽DC): Department of Health and Human Services; 2008.

2 Guidance for Industry: Notifying FDA of Fatalities Related to Blood Collection or Transfusion, September, 2003. http://www.fda.gov/cber/gdlns/bldfatal.htm.

If you have questions concerning this summary, you may contact us using any of the three following options.

- 1. Email us at fatalities2@fda.hhs.gov,
- 2. Call us at 301-827-6220, or
- Write us at:
 FDA/Center for Biologics Evaluation and Research
 Office of Compliance and Biologics Quality
 Division of Inspections and Surveillance (HFM-650)

1401 Rockville Pike, Suite 200 North Rockville, Maryland 20852-1448

II. Results

During FY2007 (October 1, 2006, through September 30, 2007), we received a total of 93 fatality reports. Of these reports, 76 were transfusion recipient fatalities and 17 were post-donation fatalities.

Of the 76 transfusion recipient fatality reports, we concluded:

- a) 52 of the fatalities were transfusion-related,
- b) in 11 cases we were unable to rule out transfusion as the cause of the fatality,
- c) 13 of the fatalities were unrelated to the transfusion.

We summarize the results of our review in the following sections. Sections A through D of this document present the transfusion-related fatalities. Sections E and F and Table 4 present the fatality reports which were unrelated to the transfusion, or in which we could not rule out the transfusion as the cause of death. Section G presents the post-donation fatality reports.

- A. Overall Comparison of Transfusion-Related Fatalities Reported in FY2005, FY2006, and FY2007
- B. Transfusion Related Acute Lung Injury (TRALI).
- C. Hemolytic Transfusion Reactions (HTR)
- D. Microbial Infection
- E. Transfusion Not Ruled Out as Cause of Fatality
- F. Not Transfusion Related
- G. Post-Donation Fatalities

Overall Comparison of Transfusion-Related Fatalities Reported in FY2005, FY2006, and FY2007

In combined FY2005, FY2006, and FY2007, Transfusion Related Acute Lung Injury (TRALI) caused the highest number of reported fatalities (55%), followed by hemolytic transfusion reactions (22%) due to non-ABO (15%) and ABO (7%) incompatibilities. Complications of

microbial infection, Transfusion Associated Circulatory Overload (TACO), and anaphylactic reactions each accounted for a smaller number of reported fatalities (Table 1 and Figure 1).

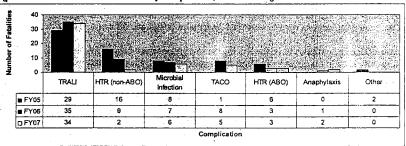
Table 1: Transfusion-Related Fatalities by Complication, FY2005 through FY2007

	FY05		F	Y06	FY07		Total (FY05+06+07)	
Complication	No.	%	No.	%	No.	%	No.	%
TRALI	29	47%	35	56%	34*	65%	98	55%
HTR (non-ABO)	16	26%	9	14%	2	4%	27	15%
Microbial Infection	8	13%	7	11%	6	12%	21	12%
TACO	1	2%	8	13%	5	10%	14	8%
HTR (ABO)	6	10%	3	5%	3	6%	12	7%
Anaphylaxis	0	0%	1	2%	2	4%	3	2%
Other	2**	3%	0	0%	0	0%	2	1%
Totals	62	100%	63	100%	52	100%	177	100%

*In FY2007, our review committee began using the Canadian Consensus Conference criteria^{3,4} for evaluating TRALI cases – this number includes both "TRALI" and "possible TRALI" cases

**Other: Includes one case of Graft vs. Host Disease (GVHD) and one therapeutic plasma exchange (TPE) error (use of a treatment column contraindicated due to patient's medical history)

Figure 1: Transfusion-Related Fatalities by Complication, FY2005 through FY2007



B. Transfusion Related Acute Lung Injury (TRALI)

In FY2007, as in the previous two fiscal years, TRALI continued to be the leading cause of transfusion related fatalities reported to CBER, representing 65% of confirmed transfusion related fatalities. Over the last three fiscal years, TRALI represented 55% of confirmed transfusion related fatalities. While the number of TRALI fatalities associated with receipt of Fresh Frozen Plasma (FFP) decreased from 22 (63% of TRALI cases) in FY2006 to 12 (35% of

³ Goldman M, Webert KE, Amold DM. et al. Proceedings of a consensus conference: towards an understanding of TRALI. Transfus Med Rev 2005;19:2-31.

⁴ Kleinman S, Caulfield T, Chan P, et al. Toward an understanding of transfusion-related acute lung injury: statement of a consensus panel. Transfusion 2004;44:1774-1789

TRALI cases) in FY2007 (Figure 2), the number was comparable to that reported in FY2005 (13 cases). For the same three years there was an increase in reports of TRALI fatalities from Red Blood Cells (RBC) with 5 cases reported in each of FY2005 and FY2006 compared with 12 cases reported in FY2007.

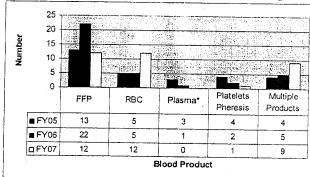
When compared to the proportions of all transfused products, plasma products continue to be associated with a disproportionate share of TRALI cases. In Calendar Year 2006, for example, transfused plasma products accounted for approximately 13% of all transfused components, apheresis platelets (using platelet concentrate equivalent units) – approximately 30%, and red blood cell-containing products – approximately 49%. In comparison, for the combined fiscal years 2005-2007, FFP and other plasma accounted for 52% (51/98) of reported TRALI fatalities, apheresis platelets accounted for 7% (7/98), and RBC's accounted for 22% (22/98).

In FY2007, there were 34 TRALI cases temporally associated with products from 162 donors. Of these donors, 104 (64%) were tested for white blood cell (WBC) antibodies (Table 2). Antibody tests were negative in 41% of those tested. Of those tested, Human Leukocyte Antibodies (HLA) were present in 43% of donors. Human Neutrophil Antibodies (HNA) were present in 22% of donors, but most of these reactions (12/17) were weak and non-specific. Many donors had multiple antibodies. Reporters who included patient testing data were able to match donor antibodies with recipient cognate antigens in 7 of the 34 cases, implicating 11 donors (In 2 of these cases, there were recipient matches with 3 donors).

The gender of 25 (15%) of the donors was unknown or not provided by the reporting facilities. Of the remaining donors, reports identified 79 females (49%) and 58 males (36%).

Because TRALI continues to be the leading cause of transfusion-related fatalities, the transfusion community is taking voluntary measures to reduce this risk. Data show that the largest percentage of fatal TRALI cases are associated with female donors with white blood cell antibodies, and recent literature describes efforts to selectively use plasma from male donors for transfusion. ^{6,7,8} In November, 2006, the American Association of Blood Banks (AABB) issued an Association Bulletin, which included a recommendation that blood collection and transfusion facilities begin implementation of TRALI risk reduction measures for all high plasma-volume components. The measures include interventions to minimize the preparation of these components from donors known to have white blood cell antibodies or who are at increased risk for developing these antibodies.

Figure 2: Reports of TRALI by Implicated Blood Product, FY2005 through FY2007



*FY2005: Includes 2 FP24 (Plasma frozen within 24 hours after collection) and 1 Liquid Plasma FY2006: Includes 1 FP24

.

Table 2: Donor Antibodies Identified in Association with TRALI, FY2007

FY07 Donor Leukocyte Antibodies	No.	%
HLA Class I	18	17%
HLA Class II	6	6%
HLA Class I and II	15	14%
HNA	17	16%
HLA and HNA	6	6%
Negative	42	41%
Total Donors Tested	104	100%

This table does not include the 59 donors that were not tested for WBC antibodies

C. Hemolytic Transfusion Reactions

In FY2007, there was a continued decline in the number of reported fatal hemolytic transfusion reactions, with a total of five, as compared to 12 in FY2006, and 22 in FY2005. The recent decrease is due to a decline in reports of non-ABO hemolytic reactions, with reports of 16 fatalities in FY2005, 9 in FY2006 and 2 in FY2007 (Figure 1 and Table 3). We have seen an overall decrease in the number of reported fatal hemolytic transfusion reactions since FY2001 (Figure 3).

⁵ Whittaker BI, op.cit. Tables 4-1 and 4-2.

Curtis, BR, Mcfarland JG. Mechanisms of transfusion-related acute lung injury (TRALI): anti-leukocyte antibodies. Crit Care Med 2006;34(5 Suppl):S118-S123.

Zeder AF, Herron R, Strupp A, et al. Transfusion-related lung injury surveillance (2003-2005) and the potential impact of the selective use of plasma from male donors in the American Red Cross. Transfusion 2007;47:599-607.
 Chapman CE, Williamson LM, Cohen H, et al. The impact of using male donor plasma on hemovigilance reports

of transfusion-related acute lung injury (TRALI) in the UK (abstract). Vox Sang 2006;91(Suppl 3):227.

Transfusion-related acute lung injury. AABB Association Bulletin. Bethesda: American Association of Blood Banks: 2006 Nov 3.

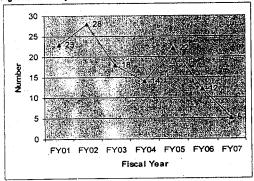
Table 3: Hemolytic Transfusion Reactions by Implicated Antibody, FY2005 through FY2007

Page 6 of 10

	FY05		FY06			Y07	Total (FY05+06+07	
Antibody	No.	%	No.	%	No.	%	No.	%
ABO	6	27%	3	25%	3	60%	12	31%
Multiple Antibodies*	6	27%	4	33%	1	20%	11	28%
Other**	3	14%	0	0%	0	0%	3	8%
Jk ^b	3	14%	0	0%	0	0%	3	8%
Jkª	1	5%	1	8%	1	20%	3	8%
K	1	5%	1	8%	0	0%	2	5%
Fv*	0	0%	1	8%	0	0%	1	3%
Fv ^b	0	0%	1	8%	0	0%	1	3%
E	1	5%	0	0%	0	0%	1	3%
<u> </u>	1	5%	0	0%	0	0%	1	3%
Js ^a	0	0%	1	8%	0	0%	1	3%
Totals	22	100%	12	100%	5	100%	39	100%

^{*}FY2005 antibody combinations included E+c, Fy*+K, Fy*+Jk*, E+I+A₁, possible C+E+K, Wr*+warm autoantibody.

Figure 3: Hemolytic Transfusion Reactions, FY2001 through FY2007



In FY2007, there were three reports of fatal hemolytic transfusion reactions due to ABO-incompatible blood transfusions:

- 1 case: recipient identification error at the time of transfusion
- 1 case: blood bank clerical error (incorrect sample used for testing)
- 1 case: initial recipient ABO/Rh typing results switched with another patient; ABO incompatible FFP issued prior to completion of required second typing

D. Microbial Infection

In FY2007, there were 6 reported fatalities attributed to microbial infection compared with 7 reported in FY2006 and 8 reported in FY2005. Three different bacteria were implicated in three fatalities, and three other fatalities resulted from Babesia transmission following Red Blood Cell transfusions from donors who subsequently tested positive for Babesia microti. The babesiosis cases accounted for 50% (3/6) of the microbial infections associated with transfusion fatalities in FY2007. Babesia accounted for 24% (5/21) of reported cases over the last three fiscal years, followed by Staphylococcus aureus, which accounted for 19% (4/21) (Table 4).

There was one strict anaerobe, *Eubacterium limosum*, implicated in a fatal bacterial infection during the 3-year reporting period; this fatality occurred in FY2005. The remaining bacteria are facultative anaerobes.

In FY2007, the decrease in reports of fatal microbial infections associated with apheresis platelets seen between FY2005 and FY2006 persisted (Figure 4). This finding is consistent with an overall decrease in the number of bacterial infections associated with apheresis platelets since FY2001 (Figure 5).

Table 4. Microbial Infection by Implicated Organism, FY2005 through FY2007

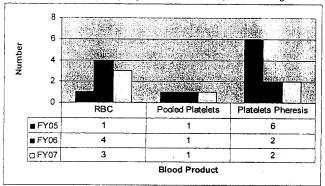
Table 4: Microbial Intection by	FY05		FY06		FY07		Total (FY05+06+0	
Organism	No.	%	No.	%	No.	%	No.	%
Babesia microti	0	0%:	2	29%	3	50%	5	24%
Staphylococcus aureus	3	37%	0	0%	1	17%	4	19%
Escherichia coli	0	0%	. 3	43%	0	- 0%	3	14%
Serratia marcescens	2	24%	0	0%	0	0%	2	10%
Staphylococcus lugdunensis	1	13%	0	0%	0	0%	1	5%
Staphylococcus epidermidis	1	13%	0	0%	0	0%	1	5%
Eubacterium limosum	1	13%	0	0%	0	0%	1	5%
Morganella morganii	0	0%	1	14%	- 0	0%	1	5%
Yersinia enterocolitica	0	0%	1	14%	0	0%	1	5%
Streptococcus dysgalactiae	0	0%	0	0%	1	17%	1	5%
Klebsiella oxytoca	0	0%	0	0%	1	17%	1	5%
Total	8	100%	7	100%	6	100%	21	100%

^{*}FY2006 antibody combinations included E+c, S+K, Jkb+cold agglutinin, unidentified auto- and alloantibodies.

^{*}FY2007: anti-M+C

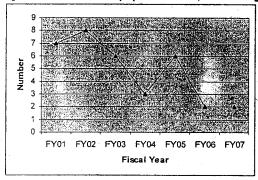
^{**}Includes one report of non-immune hemolysis, one report of an unidentified antibody to a low incidence antigen, and one report of Cold Agglutinin Syndrome due to Mycoplasma pneumonia or Lymphoma.

Figure 4: Microbial Infection by Implicated Blood Product, FY2005 through FY2007



Red Blood Cells microorganisms: S. marcescens (1), E. coli (1), Y. enterocolitica (1), B. microti (5)
Pooled Platelets microorganisms: S. aureus (1), E. coli (1), Streptococcus dysgalactiae (1)
Platelets Pheresis microorganisms: S. aureus (3), S. marcescens (1), S. lugdunensis (1), S. epidermidis (1),
E. limosum (1), E. coli (1), M. morganii (1), K. oxyloca (1)

Figure 5: Bacterial Infection by Apheresis Platelets, FY2001 through FY2007



E. Transfusion Not Ruled Out as Cause of Fatality

In these reported fatalities, the reporting facilities were unable to identify a specific complication of transfusion as the cause of death. Often, these patients had multiple co-morbidities, and after review of the investigation documentation, our medical reviewers could neither confirm nor rule out the transfusion as the cause of the fatality (Table 5). We did not include these reported fatalities in the analysis in Sections II.A through II.D (transfusion-related fatalities), above.

Combining the transfusion related fatalities with those that our medical officers could not rule out, there was a decrease in total reported fatalities from 73 in FY2006 to 63 in FY2007.

F. Not Transfusion Related

After reviewing the initial fatality reports and the investigation documentation, we categorized a number of reported fatalities as "Not Transfusion Related." Our medical reviewers concluded that, while there was a temporal relationship between transfusion and subsequent death of the recipient, there was no evidence to support a causal relationship (Table 5). Thus, we did not include these reported fatalities in the analysis in Sections II.A through II.D (transfusion-related fatalities), above.

Table 5: Fatalities Not Related to Transfusion or Transfusion Not Ruled Out, FY2005 through FY2007

	FY05	FY06	FY07
Not Transfusion Related	21	8	13
Not Ruled Out	14	10	11
Totals	35	18	24

G. Post-Donation Fatalities

There was a small increase in the number of fatalities following Source Plasma donation, and two fatalities following donation of Apheresis Platelets (Table 6). In two cases (both Source Plasma donors), our medical reviewers determined that clear medical evidence supported a cause of death that was not donation related. For the remaining 13 of the 15 FY2007 fatalities following Source Plasma and Apheresis Platelet donations, our medical reviewers concluded that, while there was a temporal link between the donations and the fatalities, there was no evidence to support a causal relationship between the Source Plasma or Apheresis Platelet donations and subsequent death of the donors. This was also the case for the 12 fatalities following Source Plasma donation in FY2005 and FY2006.

In FY2007, we received reports of two fatalities following Whole Blood donation, both autologous, collected by manual methods. In both cases, our medical reviewers found no evidence to support a causal relationship between the donation and subsequent death of the donor. For eight of the nine Whole Blood donations (includes two autologous donations) reported in FY2005 and FY2006, our medical reviewers found no evidence to support a causal relationship between the donation and subsequent death of the donor. In one FY2006 case, an autologous donation, our medical reviewers could neither confirm nor rule out the donation as contributing to the donor's death.