Table 7. Data for sCJD patients who had ophthalmic surgery for cataracts after onset of sCJD symptoms, Japan, 1999–2008*

_	Interval between	-,	
Patient	onset of sCJD symptoms and	Ago at oppos	Cumptom at anget
	, ,	Age at onset of sCJD, v	Symptom at onset of sCJD
<u>no.</u>	surgery, mo		
1	O.	60	Gait disturbance
2	0	61	Dementia
3	0	63	Visual impairment
4 .	0	71.	Visual impairment
5	0 .	74	Visual impairment
6	0	74	Visual impairment
7	1	66 ·	Dementia
8	1	74	Depression
9	1	85	Visual impairment
10	2 `	79	Tremor
111	· 4	81	Visual impairment
12	8	77	Anxiety
13	10	57	Dementia
14	14	64	Visual impairment
'sCJD, sp	oradic Creutzfeldt-Jako	ob disèase.	

more, a more sensitive method for early diagnosis of sCJD is needed because clinical diagnosis is sometimes difficult. particularly in atypical sCJD cases, such as MM2, MV2, VV1, or VV2 types (20-23), according to 6 phenotypes of sCJD divided by codon 129 polymorphisms of PrP (methionine/valine) and type of infectious PrP by Western blotting (24). Even neurologists may misdiagnose the initial stage of the atypical sCJD cases as being another neurodegenrative disease such as Alzheimer disease and progressive supranuclear palsy (20). Moreover, patients who have undergone surgical procedures with possibly contaminated instruments need to undergo a risk assessment with longterm follow-up after careful ethical consideration. Since June 2004, we have identified and monitored all patients. who underwent neurosurgical procedures with possibly contaminated instruments, CJD has developed in none of those patients.

In conclusion, we did not demonstrate any evidence of increased risk for sCJD associated with a history of surgery or blood transfusion in the Japanese surveillance system. However, the fact that some patients had surgeries, including neurosurgery, even after the onset of sCJD indicates that we cannot deny any possibility of transmission of prion diseases by medical procedures. Neurosurgeons, ophthalmologists, and other surgeons need to focus more attention on prion diseases to reduce the introgenic risk, as well as realize that prolonged, careful surveillance of prion diseases is necessary.

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References

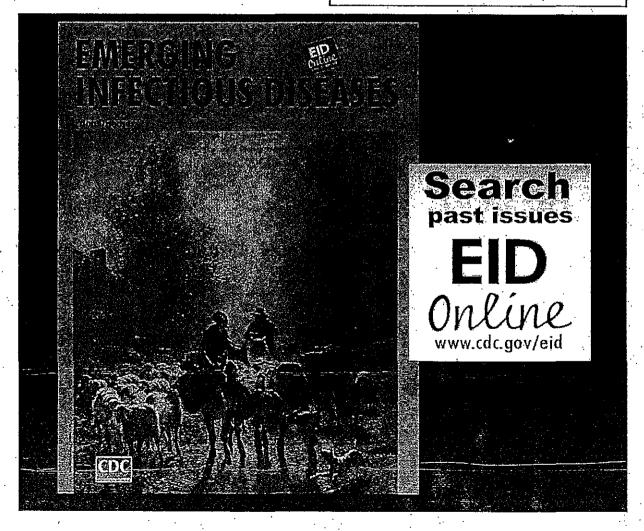
- Brown P, Brandel JP, Preese M, Sato T. Iatrogenic Creutzfeldt-Jakob disease. The waning of an era. Neurology. 2006;67:389-93. DOI: 10.1212/01.wnl.0000231528.65069.3f
- Kondo K, Kuroiwa Y. A case control study of Creutzfeldt-Jakob disease: association with physical injuries. Ann Neurol. 1982;11:377–81. DOI: 10.1002/ana.410110410
- Davanipour Z, Alter M, Sobel E, Asher D, Gajdusek C. Creutzfeldt-Jakob disease: possible medical risk factors. Neurology. 1985;35:1483-6.
- Collins S, Law MG, Fletcher A, Boyd A, Kaldor J, Masters CL. Surgical treatment and risk of sporadic Creutzfeldt-Jakob disease: a case-control study. Lancet. 1999;353:693-7. DOI: 10.1016/S0140-6736(98)08138-0
- Ward HJ, Everington D, Croes EA, Alperovitch A, Delasnerie-Lauprêtre N, Zerr I, et al. Sporadic Creutzfeldt-Jakob disease and surgery. A case-control study using community controls. Neurology. 2002:59:543-8.
- Ward HJ, Everington D, Cousens SN, Smith-Bathgate B, Gillies M, Murray K, et al. Risk factors for sporadic Creutzfeldt-Jakob disease. Ann Neurol. 2008;63:347-54. DOI: 10.1002/ana.21294
- Harries-Jones R, Knight R, Will RG, Cousens S, Smith PG, Matthews WB. Creutzfeldt-Jakob disease in England and Wales, 1980– 1984: a case-control study of potential risk factors. J Neurol Neurosurg Psychiatry. 1988;51:1113–9. DOI: 10.1136/jnnp.51.9.1113
- van Duijn CM, Delasnerie-Lauprêtre N, Masullo C, Zerr I, de Silva R, Wientjens DP, et al. Case-control study of risk factors of Creutzfeldt-Jakob disease in Europe during 1993–95. Lancet. 1998;351:1081–5. DOI: 10.1016/S0140-6736(97)09468-3
- Zerr I, Brandel JP, Masullo C, Wientjens D, de Silva R, Zeidler M, et al. European surveillance on Creutzfeldt-Jakob disease: a case-control study for medical risk factors. J Clin Epidemiol. 2000;53:747– 54. DOI: 10.1016/S0895-4356(99)00207-3
- Wientjens DPWM, Davanipour Z, Hofman A, Kondo K, Matthews WB, Will RG, et al. Risk factors for Creutzfeldt-Jakob disease: a reanalysis of case-control studies. Neurology. 1996;46:1287-91.
- Nakamura Y, Uehara R, Wanatabe M, Sadakane A, Yamada M, Mizusawa H, et al. Update: Creutzfeldt-Jakob disease associated with cadaveric dura mater grafts—Japan, 1978-2008. MMWR Morb Mortal Wkly Rep. 2008;57:1152-4.
- Noguchi-Shinohara M, Hanguchi T, Kitamoto T, Sato T, Nakamura Y, Mizusawa H, et al. Clinical features and diagnosis of dura mater graft-associated Creutzfeldt-Jakob disease. Neurology. 2007;69:360-7. DOI: 10.1212/01.wnl.0000266624.63387.4a
- Masters CL, Harris JO, Gajdusek DC, Gibbs CJ Jr, Bernoulli C, Asher DM. Creutzfeldt-Jakob disease: patterns of worldwide occurrence and the significance of familial and sporadic clustering. Ann Neurol. 1979;5:177-88. DOI: 10.1002/ana.410050212
- World Health Organization (WHO). The revision of the variant Creutzfeldt-Jakob (vCJD) case definition. Report of a WHO Consultation; 2001 May 17; Edinburgh (UK); (WHO/CDS/CSR/EPH/2001.5). Geneva: The Organization; 2001.

- CJD Incident Panel [cited 2008 Mar 23], Available from http://www. hpa.org.uk/infections/topics_az/cjd/incidents_panel.htm
- World Health Organization. WHO infection control guidelines for transmissible spongiform encephalopathies. Report of a WHO consultation; 1999 Mar 23-26; Geneva, Geneva: The Organization; 1999.
- Barash JA, Johnson BT, Gregorio DI. Is surgery a risk factor for Creutzfeldt-Jakob disease? Outcome variation by control choice and exposure assessments. Infect Control Hosp Epidemiol. 2008;29:212-8. DOI: 10.1086/527514
- S-Juan P. Ward HJ, de Silva R, Knight RS, Will RG. Ophthalmic surgery and Creutzfeldt-Jakob disease. Br J Ophthalmol. 2004;88:446-9. DOI: 10.1136/bjo.2003.028373
- Hamaguchi T, Noguchi-Shinohara M, Nakamura Y, Sato T, Kitamoto T, Mizusawa H, et al. Ophthalmic surgery in prior diseases. Emerg Infect Dis. 2007;13:162-4.
- Hamaguchi T, Kitamoto T, Sato T, Mizusawa H, Nakamura Y, Noguchi M, et al. Clinical diagnosis of MM2-type sporadic Creutzfeldt-Jakob disease. Neurology. 2005;64:643-8.
- Krasnianski A, Meissner B, Schulz-Shaeffer W, Kallenberg K, Bartl M, Heinemann V, et al. Clinical features and diagnosis of MM2 cortical subtype of sporadic Creutzfeldt-Jakob disease. Arch Neurol. 2006;63:876–80. DOI: 10.1001/archneur.63.6.876

- Collins SJ, Sanchez-Juan P, Masters CL, Klug GM, van Duijn C, Poleggi A, et al. Determinants of diagnostic investigation sensitivities across the clinical spectrum of sporadic Creutzfeldt-Jakob disease. Brain. 2006;129:2278-87. DOI: 10.1093/brain/awl159
- Meissner B, Westner IM, Kallenberg K, Krasnianski A, Bartl M, Varges D, et al. Sporadic Creutzfeldt-Jakob disease: clinical and diagnosis characteristics of the rare VV1 type. Neurology. 2005;65:1544-50. DOI: 10.1212/01.wnl.0000184674.32924.c9
- Parchi P, Giese A, Gapellari S, Brown P, Schulz-Schaeffer W, Windl O, et al. Classification of sporadic Creutzfeldt-Jakob disease based on molecular and phenotypic analysis of 300 subjects. Ann Neurol. 1999;46:224–33. DOI: 10.1002/1531-8249(199908)46:2<224::AID-ANA12>3.0.CO;2-W

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Use of trade names is for identification only and does not imply endorsement by the Public Health Service or by the U.S. Department of Health and Human Services.



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医薬品 研究報告 調査報告書

			7 .	報告日	第一報入手日	新医薬品等	 等の区分	総合機構処理欄	
識別	番号・報告回数				2009年2月9日	該当な	rl ·		
	般的名称	別紙のとおり		研究報告の	CDC/Travelers' Health (Up	dated: February	公表国	,	
坂 ?	反 売 名 (企 業 名) 別紙のとおり 公表状況		公表状况	状況 (04, 2009)		ジンバブエ			
	ジンバブエの保 月 26 日から 200	建当局からコレラの) 09 年 1 月 31 日まで	アウトブし こジンバ	ノイクについて報告 ブエ国内で 61,304 /	人の感染疑い例、3,181 人の3 されている。国連人道問題調 人の感染疑い例、3,181 人の9 Mashonaland WestManicala	整事務所による。 E亡例が報告され	と、2008年8 ている。被害	使用上の注意記載状況 その他参考事項等 記載なし	
研究報告の既要			-		報告されている。また、ボツ いった周辺国からも発生例か				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			· · · · · · · · · · · · · · · · · · ·					
	報告企業の意見				今後の対応				
別紹	いのとおり		· · · · · · · · · · · · · · · · · · ·		今後とも関連情報の収集を 図っていきたい。	こ努め、本剤の安全	全性の確保を		

MedDRA/J ver.11.1

一般的名称	①人血清アルブミン、②人血清アルブミン、③人血清アルブミン*、④人免役グロブリン、⑤乾燥ペプシン処理人免疫グロブリン、⑥乾燥スルホ化人免疫グロブリン、⑦乾燥スルホ化人免疫グロブリン*、⑧乾燥濃縮人活性化プロテインC、⑨乾燥濃縮人血液凝固第Ⅷ因子、⑩乾燥濃縮人血液凝固第Ⅸ因子、⑪乾燥抗破傷風人免疫グロブリン、⑫抗 HBs 人免疫グロブリン、⑬トロンビン、⑭フィブリノゲン加第ХⅢ因子、⑮乾燥濃縮人アンチトロンビンⅢ、⑯ヒスタミン加人免疫グロブリン製剤、⑰人血清アルブミン*、⑱人血清アルブミン*、⑲乾燥ペプシン処理人免役グロブリン*、⑳乾燥人血液凝固第Ⅸ因子複合体*、㉑乾燥機縮人アンチトロンビンⅢ
販売名(企業名)	①献血アルブミン 20 "化血研"、②献血アルブミン 25 "化血研"、③人血清アルブミン "化血研" *、④ "化血研" ガンマーグロブリン、⑤献血静注グロブリン "化血研"、⑥献血ベニロンー I、⑦ベニロン*、⑧注射用アナクト C 2,500 単位、⑨コンファクト F 、⑩ノバクト M 、⑪テタノセーラ、⑫ヘパトセーラ、⑬トロンピン "化血研"、⑭ボルヒール、⑮アンスロピン F 、⑯ヒスタグロビン、⑰アルブミン 20%化血研*、⑱アルブミン 5%化血研*、⑲静注グロブリン*、⑩ノバクト F *、⑪アンスロビン F 1500 注射用
報告企業の意見	コレラは代表的な経口感染症の1つで、コレラ菌で汚染された水や食物を摂取することによって感染する。コレラ菌は、菌体表面の O 抗原(リポ多糖体)の違いによって、現在 205 種類(11 種類は未発表)に分類されている。このうち、コレラを起こすのは O1 および O139 血清型のみである。わが国におけるコレラは、最近はほとんどが輸入感染症として発見される。すなわち熱帯・亜熱帯のコレラ流 行地域への旅行者の現地での感染例である。国内での感染例の報告もあるが、輸入魚介類などの汚染が原因であろうと推定されていて、二次感染例と思われる例はほとんど無い。(http://idsc.nih.go.jp/idwr/kansen/k00-g15/k00 01/k00 01.html) 仮に、本剤の原材料であるヒト血液にコレラ菌が混入していたとしても、弊所で製造している全ての血漿分画製剤の製造工程には、約 0.2μm の「無菌ろ過工程」および、コレラ菌よりも小さいウイルスの除去を目的とした平均孔径 19nm 以下の「ウイルス除去膜ろ過工程」が導入されているので、これらの工程により除去されるものと考えられる。更に、これまでに本剤によるコレラ菌感染の報告例は無い。 以上の点から、本剤はコレラ菌感染に対して一定の安全性を確保していると考えるが、今後とも関連情報の収集に努め、本剤の安全性の確保を図っていきたい。

*現在製造を行っていない

Centers for Disease Control and Prevention <u>Travelers' Health</u> Your Online Source for Credible Health Information	

Outbreak Notice

Cholera in Zimbabwe and Neighboring Countries This information is current as of today, February 11, 2009 at 23:51

Updated: February 04, 2009

An outbreak of cholera has been reported by health officials in Zimbabwe. According to the United Nations Office of the Coordination of Humanitarian Affairs, from August 26 through January 31, 2009, 61,304 suspected cases and 3,181 deaths have been reported in the country. The worst-affected areas are the capital city of Harare (14,126 cases and 592 deaths), Mashonaland West (14,259 cases and 685 deaths), Manicaland South (7,081 cases and 458 deaths). Cases of cholera have been reported in all of Zimbabwe's provinces. Cases have also been confirmed in the neighboring countries of Botswana, Mozambique, South Africa, and Zambia. Additional sources have reported cases in Angola, Burundi, Democratic Republic of Congo, Kenya, Malawi, Namibia, Nigeria, Guinea-Bissau and Togo.

Cholera is a potentially fatal bacterial infection that causes severe diarrhea and dehydration. The disease is spread through untreated sewage and contaminated drinking water. There is no cholera vaccine available in the United States.

Advice for People Traveling to Zimbabwe

Most travelers are not at high risk for getting cholera, but travelers should be aware of the outbreak and make sure they are taking steps to prevent getting sick. Although no cholera vaccine is available in the United States, U.S. travelers can greatly reduce their risk for cholera by following CDC's safe food and water advice:

- Before departing for Zimbabwe, talk to your doctor about getting a prescription for an antibiotic to treat traveler's diarrhea.
- Drink water that you have boiled for at least one minute or treated with chlorine or iodine. Other safe beverages include tea and coffee made with boiled or treated water, as well as drinks that have been bottled and sealed (such as bottled water, carbonated drinks, and sports drinks).

Do not put ice in drinks, unless the ice is made from boiled or treated water.

Eat only foods that have been thoroughly cooked and are still hot, or fruit that you have peeled yourself.

Do not eat undercooked or raw fish or shellfish, including ceviche.

- Make sure all vegetables are cooked. Do not eat salads or other raw vegetables.
- Do not eat foods and drink beverages from street vendors.
- Do not bring perishable seafood back to the United States.

A simple rule of thumb for safe food and water is "Boil it, cook it, peel it, or forget it." If you are traveling in Zimbabwe or neighboring countries and have severe watery diarrhea seek medical care right away. It is important to remember to drink fluids and use oral rehydration solution (ORS) to prevent dehydration.

More Information

The United Nations Office for the Coordination of Humanitarian Affairs in Zimbabwe has reported that new cases and deaths due to cholera are increasing. Although Zimbabwe has reported several smaller cholera outbreaks in recent years, this outbreak is more severe and may worsen with the onset of the rainy season. On December 3, the government of Zimbabwe declared a national emergency and appealed for international assistance. The humanitarian community has already been responding to this outbreak with water, sanitation, and hygiene initiatives in outbreak areas. WHO and its Health Cluster partners are finalizing a "Cholera Response Operational Plan" to evaluate and control the current outbreak.

For more information about the cholera outbreak in Zimbabwe, including maps:

Weekly Situation Report (Aravet forward.aspx?t=aHR0cDovL29jaGFvbrrxpbmUudW4ub3JnL0RtZmF1bHQuYXNweD9hbGlhcz1vY2hhb25saW5lLnVuLm9yZy96aW1iYWJ3ZQ%3d%3duddp6.Mnq70%3d) -- United Nations Office for the Coordination of Humanitarian Affairs (February 3, 2009)

Cholera in Zimbabwe (/travel/forward.aspx?t=aHR0cDovL3d3dy53aG8uaW50L2Nzci9kb24vMjAwQF8xMl8wMi9bi9pbmRleC5odG1s-SD5LRlB9hkU%3d) -World Health Organization (December 2, 2008)

Relief Web (/travel/forward.aspx?t=aHR0cDovL3d3dy5yZWxpZWZ3ZWuaW50L3J3L2RiYy5uc2YvZG9jMTE1P09wZW5Gb3JtJnJjPTE%3d-HYAtd4y5GyY% Zimbabwe-United Nations, Office of the Coordination of Humanitarian Affairs, (January 31, 2009)

For more information for travelers:

- Warden Message about cholera, November 26, 2008 (travel/forward.aspx?t=aHR0cDovL2thcmFyZS51c2VtYmFzc3kuZ292LzExLzt2LztwMDquaHRtbA %3d%3d-l2qel6aC740%3d) —American Embassy in Harare, Zimbabwe Warden messages (//ravel forward.aspx?t=aHR0cDovL2hhcmFyZS51c2VtYmFzc3kuZ292L3dhcmRbi5odG1s-PuVXy907AcA%3d)
- Travel Warning about cholera, December 12, 2008 (firavel forward.aspx?t=aHR0cDovL2hhcmFyZS51c2VtYmFzc3kuZ292L3ppbWJhYndtX3RyYXZlbHdhcm5pbmcyLmh0bWw%3d-dhUsw8uJ%2bDU%3d) —American Embassy in Harare, Zimbabwe