

諸外国における慢性疲労症候群罹患者に対する献血制限について

平成 22 年 11 月現在

1．現時点において、XMRV 感染リスクに対する予防的措置として、既往歴も含め、慢性疲労症候群罹患者に対する献血制限の実施が確認されている国

カナダ（除くケベック州）・・・別添 1
オーストラリア・・・別添 2
ニュージーランド・・・別添 3

なお、イギリスは、現時点では慢性疲労症候群と XMRV との関係を示す疫学的エビデンスはないとした上で、ドナーの健康確保の観点から、既往歴も含めた献血制限を実施している（別添 4）。

2．献血時に健康であることを前提とした上で、現時点において、慢性疲労症候群の既往歴まで含めた献血制限は勧告・実施していない国

米国（FDA）（注）・・・別添 5
カナダ・ケベック州・・・別添 6
日本

（注）なお、AABB（米国血液銀行協会）は、慢性疲労症候群の既往がある方の献血の辞退を促すよう、会員に対し自主的に勧告している。（別添 7）

その他の欧州諸国については、現在調査中。

（血液対策課調べ）

Indefinite Deferral for History of Chronic Fatigue Syndrome

Canadian Blood Services is undertaking a deferral to protect blood product recipients from any potential risk that could come from a link between Xenotropic Murine Leukemia Virus-Related Virus (XMRV) and Chronic Fatigue Syndrome (CFS). XMRV is a type of retrovirus originating in mice ("murine" relates to mice).

Although the media is reporting that XMRV may be a threat to the blood supply, the deferral Canadian Blood Services is undertaking at this point relates to those patients with a history of CFS only. At this point there is no evidence that XMRV causes any disease in humans. This new information has reported association, but not causality.

Today, donors who have a history of CFS and who are well again are allowed to donate blood. Under the new deferral, it is this group that will no longer be able to donate blood at Canadian Blood Services' clinics. Blood donors with a history of CFS represent a very small segment of Canadian Blood Services' donor base, so the impact on the blood supply will be minimal.

Donors with active cases of CFS don't usually come in to donate blood because they are not feeling well. Historically, however, Canadian Blood Services has allowed people with a history of the illness to donate. This is what will change with the new deferral.

Health Canada, the body that regulates Canadian Blood Services, has approved this deferral. Implementation will occur in late April.

It is important to note that the available data related to the link between XMRV and CFS is conflicting. While it has been reported to have a strong association in American patients, the finding has not been substantiated in patients in the UK or the Netherlands, suggesting some geographic differences in the pattern of virus spread. Furthermore, there are as yet no data confirming that XMRV causes disease. So at this time, it is not possible to quantify the risk a donor with a history of CFS could pose to a blood recipient.

Once the scientific community understands more about the role of XMRV or other viruses in relation to chronic fatigue, Canadian Blood Services will revisit the deferral decision to determine whether the deferral is still warranted. Canadian Blood Services is part of an inter-agency North American task force led by the American Association of Blood Banks (AABB) that is investigating the XMRV issue.

How Canadian Blood Services currently handles potential threats to the blood supply system:

Canadian Blood Services operates one of the safest blood systems in the world. An essential element of our commitment to safety is our multilayered approach to ensuring that our blood products meet the highest level of safety available.

Before they donate, donors are asked an extensive list of questions about their behaviour and about their health status. People, who are unhealthy, including those with symptomatic diseases, are deferred from donation.

The organization then subjects each and every donation to a variety of blood screening tests for pathogens that are known to be transmissible by blood transfusion including HIV and the hepatitis B and C viruses.

Canadian Blood Services also maintains strong international networks with other blood systems to monitor the behaviour of possible pathogenic threats to the blood supply, so that if a new pathogen appears we can be ready to respond to the threat.





Published on *Australian Red Cross Blood Service* (<http://www.donateblood.com.au>)

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Blood Service updates CFS donor policy

23/04/2010

The Blood Service has decided to indefinitely defer donors with Chronic Fatigue Syndrome (CFS).

The Australian Red Cross Blood Service will indefinitely defer donors who have been diagnosed with Chronic Fatigue Syndrome (CFS).

This follows recent research, describing a possible link between chronic fatigue, and a retrovirus called Xenotropic Murine leukaemia virus-related Virus (XMRV).

As the Blood Service currently defers donors who have CFS, this change will delay their return to donating until there is more scientific literature on the possible viral link.

The number one priority of the Blood Service remains the safety of Australia's blood supply.

Blood Service specialist, Dr Tony Keller, said eligibility to donate is always a balance between risk and benefit.

"There is at present no test available for CFS or XMRV, but our donor questionnaire alerts us when someone has CFS. Very few donors will be affected by this decision," Dr Keller said.

"The science on this internationally is unclear. The recent North American research findings haven't been supported by research undertaken in Europe, and there is currently no Australian research on XMRV.

"We will review our decision in two years time, when further studies into the virus have been done."

The Blood Service currently has 570,000 donors a year. In the past two years, there have been only 70 donors deferred due to Chronic Fatigue Syndrome.

We are writing to a small number of donors to notify them of this change.

National News & Events



0800 GIVE BLOOD
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Official website of the New Zealand Blood Service



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Detailed Eligibility Criteria and FAQ's

[Antibiotics - I am taking antibiotics. Can I donate?](#)

[Accidents - I was involved in an accident and had stitches or other treatment. Can I donate?](#)

[Acne - I have active acne. Can I donate?](#)

[Acupuncture - I have just had acupuncture. Can I donate?](#)

[Addiction - Drugs. Can I donate if I have every injected or taken drugs?](#)

[Age - How does age affect my ability to donate?](#)

[Alcohol - I had several alcoholic drinks before going to give blood. Can I donate?](#)

[Allergy - I am allergic to one of the following: dust / a food / a medicine / an insect sting / other. Can I donate?](#)

[Anaemia - I have been anaemic. Can I donate?](#)

[Angioplasty - I have had an angioplasty. Can I donate?](#)

[Antibiotics - I am taking antibiotics. Can I donate?](#)

[Antidepressants - I take an antidepressant. Can I donate?](#)

[Arrhythmia - I have abnormal heart beats or I am being treated for an abnormal heart beat. Can I donate?](#)

[Arthritis - I have arthritis. Can I donate?](#)

[Asthma - I have asthma. Can I donate?](#)

[Bleeding disorder - I have been diagnosed with a bleeding condition/disorder. Can I donate?](#)

[Blood borne diseases - what is tested for?](#)

[Blood pressure - I take high blood pressure medicine. Can I donate?](#)

[Blood transfusion - I have had a blood transfusion. Can I donate?](#)

[Blood volume - What is the volume of blood in a person's body?](#)

[Body piercing - I have just had a part of my body pierced. Can I donate?](#)

[Breast-feeding - I am breast-feeding. Can I donate?](#)

[Cancer - I had cancer. Can I donate?](#)

[Chicken pox - I have chicken pox. Can I donate?](#)

[Childbirth - How long after the birth of my baby. Can I donate?](#)

[Cholecystectomy - I have had my gall bladder removed. Can I donate?](#)

[Cholecystitis - I have had cholecystitis recently. Can I donate?](#)

[Cholesterol - I take medication for cholesterol reduction. Can I donate?](#)

[Chronic fatigue syndrome - I have had chronic fatigue syndrome. Can I donate?](#)

[People with a diagnosis of Chronic Fatigue Syndrome are permanently deferred from donating blood in New Zealand.](#)

[Coeliac Disease - I have Coeliac Disease. Can I donate?](#)

[Cold sores - Can I donate if I have a cold sore?](#)

[Colds - I have a cold. Can I donate?](#)

[Concussion - I was knocked unconscious. Can I donate?](#)

[Condoms - What if I use Condoms Every Time?](#)

[Conjunctivitis - I have conjunctivitis. Can I donate?](#)

[Contraceptive pill - I take birth control pills. Can I donate?](#)

[Corneal Graft - Corneal transplant. I have had a corneal transplant. Can I donate?](#)

[Correctional institutions - Why doesn't the NZ Blood Service collect blood from inmates of correctional institutions?](#)

[Crohn's Disease - I have Crohn's Disease. Can I donate?](#)

[Cystitis - I have had cystitis recently. Can I donate?](#)

[Cytomegalovirus \(CMV\) infection - I have been diagnosed with cytomegalovirus infection. Can I donate?](#)

[Deep vein thrombosis \(DVT\) - I have had a deep vein thrombosis in a leg. Can I donate?](#)

[Dengue fever - I had dengue fever. Can I donate?](#)

[Dental treatment - I have just been to the dentist. Can I donate?](#)

[Depression - I am being treated for depression. Can I donate?](#)

[Dermatitis - I have dermatitis. Can I donate?](#)

[Diabetes - I am diabetic. Can I donate?](#)

[Diarrhoea - I have diarrhoea. Can I donate?](#)

[Disability - I have a physical disability. Can I donate?](#)

[Diverticulitis/diverticulosis - I have diverticulitis or diverticulosis. Can I donate?](#)

[Drug use \(recreational\) - Can I still donate blood even if I have taken recreational drugs?](#)

[Ear piercing - I have just had my ears pierced. Can I still donate blood?](#)

[Am I Eligible?](#)

[Why should I donate blood?](#)

[The Donation Process](#)

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Media Statement

8 November 2010



MS033/10

ME/CFS sufferers permanently deferred from giving blood

From 1 November 2010, people with Myalgic Encephalitis/Chronic Fatigue Syndrome (ME) were permanently deferred from giving blood in the UK.

The change to donor selection guidelines, which applied across all four UK Blood Services, was as a result of recommendations by the UK Blood Services Standing Advisory Committee on the Care and Selection of Donors, and Joint Professional Advisory Committee (JPAC).

In the past, donors with a history of ME/CFS could give blood, provided they had completely recovered and were feeling well.

However, as ME/CFS is a condition where people can relapse and become ill again, donor selection guidelines were changed as a precaution to protect the donor's safety by ensuring the condition is not made worse by donating blood. There is no evidence that a donation from a donor with this condition could in any way harm a patient.

This change brought donor selection guidelines for ME/CFS into line with other conditions where individuals are permanently excluded from blood donation to protect their own health.

Ends

For further information, please contact the NHSBT press office on 0117 969 2444, at pressoffice@nhsbt.nhs.uk or out of hours on 07659 133583.

Notes to Editors

- Donor selection guidelines relating to donor safety are recommended by the UK Blood Services Standing Advisory Committee on the Care and Selection of Donors, and Joint Professional Advisory Committee (JPAC)
- The change to donor selection guidelines for ME/CFS applies across all four UK Blood Services – NHS Blood and Transplant (NHSBT) for England and North Wales; the Scottish National Blood Transfusion Service (SNBTS); the Welsh Blood Service (WBS); and the Northern Ireland Blood Service (NIBTS)

- NHS Blood and Transplant (NHSBT) is a Special Health Authority in the NHS. It is the organ donor organisation for the UK and is responsible for matching and allocating donated organs. Its remit also includes the provision of a reliable, efficient supply of blood and associated services to the NHS in England and North Wales
- In October 2009 a study from the United States suggested a link between the virus XMRV and Chronic Fatigue Syndrome. This was reviewed and discussed in the relevant advisory committees. Further studies by the Centres for Disease Control in the US and a number in Europe have failed to demonstrate a link between XMRV infection and CFS. Currently there is no epidemiological evidence of a link between XMRV and CFS in the UK. The research on XMRV has been considered by the relevant UK Blood Services/DH advisory committees; there is no current evidence of a threat to public health in the UK; and this will be kept under review by those committees in the light of any new evidence.



FDA U.S. Food and Drug Administration

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Vaccines, Blood & Biologics

New study on the detection of murine leukemia virus-related virus gene sequences in the blood of patients with chronic fatigue syndrome (CFS) and healthy blood donors - Questions and Answers

Questions and Answers

1. What are murine leukemia viruses?

Murine leukemia viruses (MLV) are retroviruses known to cause cancer in certain mice. In 2006, investigators found that a type of MLV, called xenotropic murine leukemia virus-related virus (XMRV), could potentially infect humans. XMRV is one of a number of MLVs that appear to be transmitted to humans.

2. What is CFS?

Chronic fatigue syndrome (CFS) is a debilitating disorder defined solely by clinical symptoms and the absence of other causes. It's unknown what causes CFS.

3. Has MLV or XMRV previously been associated with CFS or other disease?

A previous study, published in the journal [Lombardi et. al. *Science* October 23, 2009 326: 585], reported finding XMRV in a high percentage of CFS patients and a small percentage of healthy blood donors. However, other studies conducted in the U.S., Netherlands, and UK did not detect evidence of XMRV or other MLV-related viruses in CFS patients.

XMRV was first identified in tissue samples from some prostate cancer patients in 2006. However, one subsequent study failed to find XMRV in prostate cancer tissues, and another study found the virus only rarely in such tissues.

4. What did the new study evaluate?

Investigators from the Food and Drug Administration's (FDA) Center for Biologics Evaluation and Research, the National Institutes of Health (NIH) Clinical Center, and Harvard Medical School have published a study in the scientific journal *Proceedings of the National Academy of Sciences* that examines the presence of MLVs in blood collected from two groups -- patients diagnosed with CFS and healthy blood donors.

This study tested blood samples collected from the New England area in the mid-1990s from 37 patients diagnosed with CFS, as well as samples from 44 healthy blood donors collected in the Clinical Center Blood Bank, NIH, between 2003 and 2006. Investigators performed DNA sequencing on each sample that produced positive product for verification of MLV-like gene sequences. Diverse MLV gene sequences, similar to that of the recently discovered XMRV, were identified in samples from 32 of the 37 patients with CFS (86.5%) and 3 of the 44 (6.8%) healthy blood donors that were tested.

Follow-up samples were collected from 8 of the CFS patients in 2010, and 7 of these again tested positive for MLV-like gene sequences.

5. What did the new study conclude?

This study supports a previous investigation [Lombardi et al. *Science* October 23, 2009 326: 585] that showed XMRV, a genetic variant of MLV-like viruses, to be present in the blood of people with CFS. The study demonstrates a strong association between a diagnosis of CFS and the presence of MLV-like virus gene sequences in the blood. The study also showed that MLV-like viral gene sequences were detected in a small fraction of healthy blood donors. Although the statistical association with CFS is strong, this study does NOT prove that these retroviruses are the cause of CFS. Further studies are necessary to determine if XMRV or other MLV-related viruses can cause CFS.

6. Are there studies that support different conclusions?

Some previous studies from the United States (including a study by the Centers for Disease Control and Prevention), the United Kingdom and the Netherlands reported finding no evidence of XMRV or other MLV-related infections in people with CFS. These different findings could be caused by a variety of factors (for example, difference in study populations), and underscore the need for additional studies and standardized methods.

7. Can MLV or XMRV be transmitted by blood or tissue products?

Additional research is needed to investigate the possibility that these MLV-related viruses and XMRV may be transmitted by blood or human tissue and are capable of causing disease. Investigators at FDA, NIH, CDC and other scientific institutions are in the process of conducting studies to verify the capabilities of the tests used by the different laboratories for the detection of XMRV or MLV-related viruses in blood. These studies are intended to develop and standardize a highly sensitive and specific XMRV test to better study its association with disease, as well as the possibility that XMRV can be transmitted to blood or tissue recipients.

8. What are the implications for blood donors?

At present, FDA does not have a donor policy specific to XMRV or other MLVs. There is currently no evidence that XMRV or MLVs are transmitted by transfusion in humans or that XMRV or other MLVs cause human disease. FDA regulations require that donors be in good health at the time of donation.

9. Does FDA agree with the AABB recommendation to discourage donation by people with history of CFS?

FDA does not object to the AABB recommendation. The AABB recommendation is consistent with a long-standing position of the Chronic Fatigue and Immune Dysfunction Syndrome (CFIDS) Association of America that individuals with CFS voluntarily should not donate blood.

10. How are the differences between the CDC and FDA study results being evaluated?

Differences in the results could reflect differences in the patient populations that provided the samples. Alternatively, undefined differences in the method of sample preparation could be contributing to the discordant test results. All of the scientists involved are working collaboratively to design experiments to quickly answer this scientifically puzzling question. An independent investigator at the National Heart, Lung, and Blood Institute (NHLBI) set up a test set of 36 samples, including known positives and presumed negatives. Both the FDA/NIH and CDC labs participated in this test, and the results showed that both labs were able to detect XMRV present at low levels in blinded samples. Additionally, the CDC laboratory provided 82 samples from their published negative study to FDA, who tested the samples blindly. Initial analysis shows that the FDA test results are generally consistent with CDC, with no XMRV-positive results in the CFS samples CDC provided (34 samples were tested, 31 were negative, 3 were indeterminate).

11. What do these findings mean to CFS patients and clinicians who treat them?

Although this study found MLV-like viral gene sequences in a high percentage of CFS patients, this does not prove that these retroviruses are the cause of CFS or of any other disease. Moreover, other studies have not found evidence of such retroviruses in patients with CFS. Further studies are necessary to determine if XMRV or other MLV-like viruses are reproducibly associated with CFS, and if so whether the virus is a causative agent or a harmless co-traveler. The different findings from various studies reinforce the need for more research--including careful analysis of other cohorts of CFS patients from different geographic regions, studies of larger populations of healthy people, and testing of transmissibility of the agents through blood transfusions in animal models. FDA, NIH, and CDC have and will continue to collaborate with other agencies and groups involved in this research.

Tuesday, June 15, 2010

8.6.1 XMRV

The Vice-President, Medical Affairs presented the recommendation of the SAC and the RRAC. For many years now, Héma-Québec has accepted donors with a history of chronic fatigue syndrome (CFS) if they feel well on the day of the donation. As a result of the recent report of an association between CFS and XMRV (xenotropic murine leukemia virus-related virus), Héma-Québec management has decided to re-examine this criteria. The diagnostic criteria for CFS were described briefly. This syndrome is not new. Its manifestations have been reported for a long time. However, its etiology remains unknown. XMRV was also described. Its epidemiology and means of transmission remain unknown at present. A recent study identified a good proportion of people suffering from CFS as carriers of the XMRV. Subsequently, three other studies were unable to find positive subjects. In scientific circles, the first study is contested. Furthermore, the conflicting results of these studies cannot be clearly explained. These conflicting results were then discussed. It was also noted that there is no medical evidence demonstrating that CFS is transmitted by transfusion. However, some organizations have already taken measures in this respect. Specifically, the AABB recommends indefinitely prohibiting donors who have been diagnosed as infected with the XMRV. In the United States, the CFS Advisory Committee recommended prohibiting blood donors with CFS, although no measure has been announced by the FDA. As for the CBS, it has decided to prohibit donors with a history of CFS on a permanent basis (only if the information is provided spontaneously by the donor; no question is asked systematically). Australia and New Zealand have adopted the same measures as the CBS. The risk management options have been reviewed by the advisory committees and, for the reasons mentioned below, the option of the status quo is recommended by the SAC and the RRAC:

- **CFS is not an emerging disease.**
- **Although several micro-organisms have been studied, no etiological link has been established between them and CFS.**
- **Specifically in terms of XMRV, only one of the four studies found a link with CFS.**
- **Symptomatic donors (with an active illness) are already prohibited.**
- **There is no evidence that CFS is transmitted through transfusion.**

It was also mentioned that the Management Committee tracks XMRV at each meeting.

It was moved, duly seconded and unanimously resolved **to maintain the selection criteria for chronic fatigue syndrome (CFS), namely to accept donors with a history of CFS if they feel well on the day of the donation.**



[AABB](#) > [Press Room](#) > [Recommendation on Chronic Fatigue Syndrome and Blood Donation](#)

Recommendation on Chronic Fatigue Syndrome and Blood Donation

The AABB Interorganizational Task Force on Xenotropic Murine Leukemia Virus-Related Virus reviewed the risk of transfusion transmission of XMRV by individuals with chronic fatigue syndrome (CFS). The task force presented its recommendations to the AABB Board of Directors, which approved an interim measure intended to prevent patients with a current or past diagnosis of CFS from donating blood or blood components.

AABB released an [Association Bulletin](#) today recommending that, as an interim measure until further definitive data are available, its member blood collectors, through the use of donor information materials available at the donation site, actively discourage potential donors who have been diagnosed by a physician with CFS [also known as chronic fatigue and immune dysfunction syndrome (CFIDS) or myalgic encephalomyelitis (ME)] from donating blood or blood components.

The task force includes representatives from the blood community, patient advocacy representatives, XMRV subject matter experts and liaisons from several government agencies, including the Office of the Assistant Secretary for Health, the Centers for Disease Control and Prevention, the Food and Drug Administration and the National Institutes of Health.

AABB member institutions are required to follow all federal regulations regarding donor eligibility. At present, there are no specific regulations for deferral of individuals with diseases or syndromes that have been linked to XMRV.

AABB appreciates all individuals who want to donate blood but strongly urges that only those who are eligible and healthy do so.

Last updated: June 18, 2010

RESOURCES

[AABB XMRV Fact Sheet](#)

[CDC XMRV Fact Sheet](#)

[Association Bulletin #10-03 - Chronic Fatigue Syndrome and Blood Donation \(member content\)](#)