医薬品 研究報告 調査報告書

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販売名(企業名)		_		研究報告の 公表状況	http://www.fda.gov/cber/faq/msmdonon	htm 米国		
くる米 80	のヨーロッ 。 国赤十字に 〕倍、リピ 性である?	パ諸国も、 よると、19 一ト供血者 とを自覚し	この政策を維持 077年以降に男性の 8000 倍高いる	持しており、M 生間性交渉歴 とされる。HIV	薬品局(FDA)の政策は、米国で供血は見合わせており、これにSMからの供血永久停止を科学とを持つ男性のHIV有病率は、一に感染している男性間性交渉にいことを考慮に入れても、男	「米国独目のもの :倫理の両面かり 般集団の 60 倍、 ≸の 75%は、す	のではなく、多ら再検討してい 初回供血者の	その他参考事項等 重要な基本的注意 現在までに本剤の投与により変異 クロイツフェルト・ヤコブ病(vC 等が伝播したとの報告はない。し しながら、製造工程において異常
告の概要 ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	圧の高感度 農縮製低い 動脈ではい か で で り が で り で り に り り に り り り り り り り り り り り り	検査が HIV 血漿、血小 ルのウイル 血漿分画製 性交渉者は	感染供血者を根板が輸血される スが血中に存在 剤からHIVが伝	食出できない。 6件数は年間に Eする時期、V	別合は 100 万人中 1 人未満であ 2000 万件以上にのぼることに留いわゆる「ウインドウ期」では、 7 は米国ではほぼ排除されてい	借高い。 るものの、米国 I意しなければた HIV 感染を検出 る。	国で全血、赤血 よらない。 当することが特	リオンを低減し得るとの報告があ ものの、理論的な vCJD 等の伝播の 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 い、治療上の必要性を十分検討の 投与すること。
5.	さらに、 下全患者に	男性間性交 カポジ肉腫	型肝炎ワイルス 渉者の間でヒト と呼ばれる癌を	A 11 A 7 B	い。ログトックない、こ至 が グイン	ルス感染は約 2 有病率も高い。	倍多くみられ HHV-8は、免	
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FDA Policy on Blood Donations from Men Who Have Sex with Other Men

- What is FDA's policy on blood donations from men who have sex with other men (MSM)?
- Why doesn't FDA allow men who have had sex with men to donate blood?
- What is self-deferral?
- Is FDA's policy of excluding MSM blood donors discriminatory?
- What about men who have had a low number of partners, practice safe sex, or who are currently in monogamous relationships?
- Are there other donors who have increased risks of HIV or other infections who, as a result, are also excluded from donating blood?
- Why are some people, such as heterosexuals with multiple partners, allowed to donate blood despite increased risk for transmitting HIV and hepatitis?
- Isn't the HIV test accurate enough to identify all HIV positive blood donors?
- How long has FDA had this MSM policy?
- Doesn't the policy eliminate healthy donors at a time when more donors are needed because of blood shortages?
- Would FDA ever consider changing the policy?

What is FDA's policy on blood donations from men who have sex with other men (MSM)?

Men who have had sex with other men, at any time since 1977 (the beginning of the AIDS epidemic in the United States) are currently deferred as blood donors. This is because MSM are, as a group, at increased risk for HIV, hepatitis B and certain other infections that can be transmitted by transfusion.

The policy is not unique to the United States. Many European countries have recently reexamined both the science and ethics of the lifetime MSM deferral, and have retained it (See the transcript of the "FDA Workshop on Behavior-Based Donor Deferrals in the NAT Era" at http://www.fda.gov/cber/minutes/nat030806t.htm#7 for further information.). This decision is also consistent with the prevailing interpretation of the European Union Directive 2004/33/EC article 2.1 on donor deferrals.

Why doesn't FDA allow men who have had sex with men to donate blood?

A history of male-to-male sex is associated with an increased risk for the presence of and transmission of certain infectious diseases, including HIV, the virus that causes AIDS. FDA's policy is intended to protect all people who receive blood transfusions from an increased risk of exposure to potentially infected blood and blood products.

The deferral for men who have had sex with men is based on the following considerations regarding risk of HIV:

- Men who have had sex with men since 1977 have an HIV prevalence (the total number of cases of a disease that are present in a population at a specific point in time) 60 times higher than the general population, 800 times higher than first time blood donors and 8000 times higher than repeat blood donors (American Red Cross). Even taking into account that 75% of HIV infected men who have sex with men already know they are HIV positive and would be unlikely to donate blood, the HIV prevalence in potential donors with history of male sex with males is 200 times higher than first time blood donors and 2000 times higher than repeat blood donors.
- Men who have had sex with men account for the largest single group of blood donors who are found HIV positive by blood donor testing.
- Blood donor testing using current advanced technologies has greatly reduced the risk of HIV transmission but cannot
 yet detect all infected donors or prevent all transmission by transfusions. While today's highly sensitive tests fail to
 detect less than one in a million HIV infected donors, it is important to remember that in the US there are over 20
 million transfusions of blood, red cell concentrates, plasma or platelets every year. Therefore, even a failure rate of 1
 in a million can be significant if there is an increased risk of undetected HIV in the blood donor population.
- Detection of HIV infection is particularly challenging when very low levels of virus are present in the blood for example during the so-called "window period". The "window period" is the time between being infected with HIV and the ability of an HIV test to detect HIV in an infected person.
- FDA's MSM policy reduces the likelihood that a person would unknowingly donate blood during the "window period" of infection. This is important because the rate of new infections in MSM is higher than in the general population and current blood donors.
- Collection of blood from persons with an increased risk of HIV infection also presents an added risk if blood were to
 be accidentally given to a patient in error either before testing is completed or following a positive test. Such medical
 errors occur very rarely, but given that there are over 20 million transfusions every year, in the USA, they can occur.
 That is one more reason why FDA and other regulatory authorities work to assure that there are multiple safeguards,
 not just testing.
- Several scientific models show there would be a small but definite increased risk to people who receive blood transfusions if FDA's MSM policy were changed and that preventable transfusion transmission of HIV could occur as a result.
- No alternate set of donor eligibility criteria (even including practice of safe sex or a low number of lifetime partners)
 has yet been found to reliably identify MSM who are not at increased risk for HIV or certain other transfusion

transmissible infections.

- Today, the risk of getting HIV from a transfusion or a blood product has been nearly eliminated in the United States.
 Improved procedures, donor screening for risk of infection and laboratory testing for evidence of HIV infection have made the United States blood supply safer than ever. While appreciative and supportive of the desire of potential blood donors to contribute to the health of others, FDA's first obligation is to assure the safety of the blood supply and protect the health of blood recipients.
- Men who have sex with men also have an increased risk of having other infections that can be transmitted to others by blood transfusion. For example, infection with the Hepatitis B virus is about 5-6 times more common and Hepatitis C virus infections are about 2 times more common in men who have sex with other men than in the general population. Additionally, men who have sex with men have an increased incidence and prevalence of Human Herpes Virus-8 (HHV-8). HHV-8 causes a cancer called Kaposi's sarcoma in immunocompromised individuals.

What is self-deferral?

Self-deferral is a process in which individuals elect not to donate because they identify themselves as having characteristics that place them at potentially higher risk of carrying a transfusion transmissible disease. FDA uses self-deferral as part of a system to protect the blood supply. This system starts by informing donors about the risk of transmitting infectious diseases. Then, potential donors are asked questions about their health and certain behaviors and other factors (like travel and past transfusions) that increase their risk of infection. Screening questions help people, even those who feel well, to identify themselves as potentially at higher risk for transmitting infectious diseases. Screening questions allow individuals to self defer, rather than unknowingly donating blood that may be infected.

Is FDA's policy of excluding MSM blood donors discriminatory?

FDA's deferral policy is based on the documented increased risk of certain transfusion transmissible infections, such as HIV, associated with male-to-male sex and is not based on any judgment concerning the donor's sexual orientation.

Male to male sex has been associated with an increased risk of HIV infection at least since 1977. Surveillance data from the Centers for Disease Control and Prevention indicate that men who have sex with men and would be likely to donate have a HIV prevalence that is at present over 15 fold higher than the general population, and over 2000 fold higher than current repeat blood donors (i.e., those who have been negatively screened and tested) in the USA. MSM continue to account for the largest number of people newly infected with HIV.

Men who have sex with men also have an increased risk of having other infections that can be transmitted to others by blood transfusion.

What about men who have had a low number of partners, practice safe sex, or who are currently in monogamous relationships?

Having had a low number of partners is known to decrease the risk of HIV infection. However, to date, no donor eligibility questions have been shown to reliably identify a subset of MSM (e.g., based on monogamy or safe sexual practices) who do not still have a substantially increased rate of HIV infection compared to the general population or currently accepted blood donors. In the future, improved questionnaires may be helpful to better select safe donors, but this cannot be assumed without evidence.

Are there other donors who have increased risks of HIV or other infections who, as a result, are also excluded from donating blood?

Intravenous drug abusers are excluded from giving blood because they have prevalence rates of HIV, HBV, HCV and HTLV that are much higher than the general population. People who have received transplants of animal tissue or organs are excluded from giving blood because of the still largely unknown risks of transmitting unknown or emerging pathogens harbored by the animal donors. People who have recently traveled to or lived abroad in certain countries may be excluded because they are at risk for transmitting agents such as malaria or variant Creutzfeldt-Jakob Disease (vCJD). People who have engaged in sex in return for money or drugs are also excluded because they are at increased risk for transmitting HIV and other blood-borne infections.

Why are some people, such as heterosexuals with multiple partners, allowed to donate blood despite increased risk for transmitting HIV and hepatitis?

Current scientific data from the U.S. Centers for Disease Control and Prevention (CDC) indicate that, as a group, men who have sex with other men are at a higher risk for transmitting infectious diseases or HIV than are individuals in other risk categories. While statistics indicate a rising infection rate among young heterosexual women, their overall rate of HIV infection remains much lower than in men who have sex with other men. For information on HIV-related statistics and trends, go to CDC's HIV/AIDS Statistics and Surveillance web page.

Isn't the HIV test accurate enough to identify all HIV positive blood donors?

HIV tests currently in use are highly accurate, but still cannot detect HIV 100% of the time. It is estimated that the HIV risk from a unit of blood has been reduced to about 1 per 2 million in the USA, almost exclusively from so called "window period" donations. The "window period" exists very early after infection, where even current HIV testing methods cannot detect all infections. During this time, a person is infected with HIV, but may not have made enough virus or developed enough antibodies to be detected by available tests. For this reason, a person could test negative, even when they are actually HIV positive and infectious. Therefore, blood donors are not only tested but are also asked questions about

behaviors that increase their risk of HIV infection.

Collection of blood from persons with an increased risk of HIV infection also presents an added risk to transfusion recipients due to the possibility that blood may be accidentally given to a patient in error either before testing is completed or following a positive test. Such medical errors occur very rarely, but given that there are over 20 million transfusions every year, in the USA, they can occur. For these reasons, FDA uses a multi-layered approach to blood safety including pre-donation deferral of potential donors based on risk behaviors and then screening of the donated blood with sensitive tests for infectious agents such as HIV-1, HIV-2, HCV, HBV and HTLV-I/II.

How long has FDA had this MSM policy?

FDA's policies on donor deferral for history of male sex with males date back to 1983, when the risk of AIDS from transfusion was first recognized. Our current policy has been in place since 1992.

FDA has modified its blood donor policy as new scientific data and more accurate tests for HIV and hepatitis became available. Today, the risk of getting HIV from a blood transfusion has been reduced to about one per two million units of blood transfused. The risk of hepatitis C is about the same as for HIV, while the risk of hepatitis B is somewhat higher.

Doesn't the policy eliminate healthy donors at a time when more donors are needed because of blood shortages?

FDA realizes that this policy will defer many healthy donors. However, FDA's MSM policy minimizes even the small risk of getting infectious diseases such as HIV or hepatitis through a blood transfusion.

Would FDA ever consider changing the policy?

FDA scientists continue to monitor the scientific literature and to consult with experts in CDC, NIH and other agencies. FDA will continue to publicly revisit the current deferral policy as new information becomes available.

On March 8, 2006, FDA conducted a workshop entitled "Behavior-based donor deferrals in the Nucleic Acid Test (NAT) era". The workshop addressed scientific challenges, opportunities, and risk based donor deferral policies relevant to the protection of the blood supply from transfusion transmissible diseases, seeking input on this topic. Participants were given the opportunity to provide scientific data that could support revising FDA's MSM deferral. The workshop provided a very active, open and broad-based scientific dialogue concerning current behavior-based deferrals and explored other options that may be considered and the data needed to evaluate them.

FDA's primary responsibility is to enhance blood safety and protect blood recipients. Therefore FDA would change this policy only if supported by scientific data showing that a change in policy would not present a significant and preventable risk to blood recipients. Scientific evidence has not yet been provided to FDA that shows that blood donated by MSM or a subgroup of these potential donors, is as safe as blood from currently accepted donors.

FDA remains willing to consider new approaches to donor screening and testing, provided those approaches assure that blood recipients are not placed at an increased risk of HIV or other transfusion transmitted diseases.

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医薬品 研究報告 調査報告書

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識別番号·報告回數				我一口			1001年702年11月	
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	報告企業の意見			今後の対応				
推測		齊のHIV-1√AIDS感達 ■よりも高い可能性が である。		日本赤十字社では、HIV い、陽性血液を排除してやHIV感染に関する新たる。次世代NAT試薬につ発・検討を進める。	いる。国内外のHIV』 な知見等について	感染、AIDS系 う後も情報の	を生の動向 収集に努め	



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HIV-1 in Taiwan

Taiwan is entering a new and dangerous phase of its HIV-1/AIDS epidemic. By the end of 2006, 13702 individuals (including 599 foreigners) had been reported as infected with HIV-1 to the Centers for Disease Control of Taiwan.1 In 2003, HIV-1 rates in first-time blood donors, military conscripts, and pregnant women were measured at 5.2, 57.0, and 12.0 per 100 000, respectively.1 Data from that year indicated HIV-1 rates of 0.09% for intravenous drug users, 0.2% for female sex workers, 1.9% for patients with sexually transmitted infections, and 6.7% for men who have sex with men in saunas or bath houses.1 Since then, the number of people living with HIV-1/AIDS in Taiwan has jumped sharply, from an 11% increase in 2003 to a 77% increase in 2004 and a 123% increase in 2005 (figure 1).1

However, after the implementation of a harmreduction programme, a 10% decrease was seen in 2006 (figure 1). The current estimated number of HIV-1/AIDS cases in Taiwan is about 30 000, which suggests that the infection rate there could be greater than that in China: 30 000 per 23 million (1/767) compared with 650 000 per 1.3 billion (1/2000).2

A risk-factor analysis of reported cases showed that the proportion of intravenous drug users infected with HIV-1 increased from 1.7% (13/772) in 2002, to 8.1% (70/862) in 2003, to 41.3% (628/1520) in 2004, to 72.4% (2461/3399) in 2005, and dropped to 68.6% (2017/2974) in 2006 (figure 2).1 The most important risk factor for Taiwanese intravenous drug users is needlesharing, followed by the sharing of heroin diluents.3 A molecular epidemiological study showed that more than 95% of intravenous drug users with newly diagnosed HIV-1 in 2004 and 2005 were infected with CRF07 BC. a circulating recombinant form of subtypes B' and C.45 Previously, several studies suggested that CRF07_BC originated in China's Yunnan province as a mix of subtype See Editorial page 616 B' from Thailand and subtype C from India. The subtype is believed to have moved to Xinjiang province in China's northwest along a major heroin-trafficking route.6

Of the 60000-100000 intravenous drug users in Taiwan, 10-15% may be infected with CRF07_BC. If so, they probably represent the largest group of such intravenous drug users in northeast Asia. The circulating recombinant form might have followed a separate drug-trafficking route to Taiwan from Yunnan

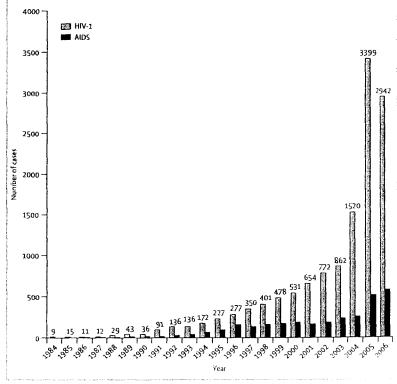


Figure 1: Annual numbers of HIV-1 seropositive cases and AIDS patients reported to Taiwan Centers for Disease Control

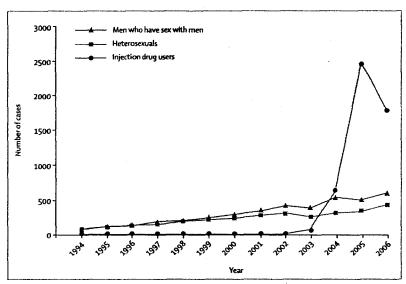


Figure 2: Annual numbers of HIV-1-infected persons in various high-risk groups reported to Taiwan Centers for Disease Control^a

via southeast China, Guangxi province, and Hong Kong.⁷⁻⁹ There have been enormous increases in the amount of heroin smuggled into Taiwan and in the number of intravenous drug users since 2002, when five intravenous drug users from southern Taiwan were diagnosed as the country's first HIV-1 seropositive cases infected with CRF07_BC.⁵ Even though the Hong Kong authorities identified three cases of CRF07_BC infection in 2001, a serious outbreak in that city's population of intravenous drug users is believed to have been blocked by a methadone maintenance programme.⁹

Clearly, close monitoring of emerging HIV-1 subtypes related to intravenous drug use and implementing harm-reduction programmes are vital to preventing similar outbreaks in other populations of intravenous drug users in neighbouring countries. In 2005, Alex Wodak, Jerry Stimson, and other harm-reduction experts were invited to Taiwan to share their experiences with government officials, medical field-workers, and public-health professionals. After careful study of harm-reduction programmes in place in Hong Kong and Australia, a pilot programme was started in four of Taiwan's 23 administrative areas in September, 2005. This programme has since been expanded nationally, and consists of 427 service sites for syringe exchange plus centres for methadone maintenance therapy. Free methadone is provided to HIV-1-infected intravenous drug users while HIV-1 seronegative intravenous drug users have to pay about US\$1600 a year. The Taiwan Centers for Disease Control plans to provide methadone maintenance to intravenous drug users in prisons, and the country's Bureau of Controlled Drugs will start producing methadone to assist in the government's commitment to providing methadone maintenance to 30 000 intravenous drug users by 2009.

All parts of Asia are reporting rising numbers of HIV-positive and AIDS patients in male homosexuals and bisexuals. In Taiwan, HIV-1 infection rates in men who have sex with men in gay saunas in different cities currently range from 5.2% to 15.8%.10,11 The same population has high rates of syphilis, 8-1-13-8%, depending on the city. 10,11 Taiwanese male homosexual and bisexual HIV-1/AIDS patients have also been diagnosed with significantly higher rates of syphilis than have heterosexual patients." Furthermore, the percentage of homosexual or bisexual HIV-1/AIDS patients under the age of 20 years is significantly higher than that of heterosexual patients, 3.0% versus 1.7%.12 In addition to the stigmatisation of homosexuality in Taiwanese society, the lack of accurate information on homosexuality in sex education and on risk factors in AIDS education increases the risk of contracting HIV and other sexually transmitted infections within the country's population of men who have sex with men. Whilst a community-based prevention programme for such men has been developed by a group of academic and grass-roots non-governmental organisations, a current challenge is the implementation of this programme into a national programme, and making it

Taiwan's clinical spectrum of AIDS patients is similar to those reported in other developed countries, but significant differences have been noted in incidences of opportunistic infections. For example, the incidence of tuberculosis in patients with advanced illness is high in Taiwan (24-6%) and the rate of endemic fungal (*Penicillium marneffei*) infections is increasing. ¹³⁻¹⁴ On the positive side, the effort by the Taiwanese Government since April, 1997, to distribute highly-active antiretroviral therapy for free¹⁵ has resulted in dramatic decreases in morbidity and mortality from HIV-1 infection. ¹⁶

Because of their high background prevalence, HBV and HCV coinfections with HIV are particularly important in Asian countries in terms of HIV transmission via injecting drug use.^{12,18} In a survey of

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459 intravenous drug users infected with HIV-1, one of us (Y-MAC) found that 456 (99.6%) also had anti-HCV antibodies and 77 (16.8%) were seropositive for HBsAg. The long-term impact of hepatitis coinfections on HIV and on morbidity and mortality from liver disease requires monitoring.

By the end of 2006, 19 confirmed cases of vertical HIV-1 transmission have been reported to the Taiwan Centers for Disease Control.¹ In January, 2005, the agency started a national programme focused on prevention of mother-to-child transmission, and five cases of vertical transmission were reported in 2005. By June, 2006, the screening rate had reached 97-4%, and 47 of 338 452 pregnant women (13-9 per 100 000) tested in Taiwan have been identified as having HIV-1 infections and have received antiretroviral therapy to prevent mother-to-child transmission. To increase the participation rate, there is discussion of changing the voluntary counselling and testing strategy from opt in to opt out.

Several positive responses to the HIV/AIDS epidemic in Taiwan should be mentioned. In 1990 an AIDS Prevention and Control Law was passed to protect the rights of people with HIV/AIDS for treatment, education, and employment. Since 1992, 16 non-governmental organisations registered or established in Taiwan have provided shelter, care, counselling, anonymous testing, and AIDS education. One in particular, the People Living with HIV/AIDS Rights' Advocacy Association, has been addressing human rights issues related to HIV/AIDS since 1997. However, most such organisations have their headquarters and facilities in northern Taiwan, and two-thirds of the country's intravenous drug users live in central and southern parts. In addition, many social workers employed by non-governmental organisations are still unfamiliar with issues related to drug abuse and inexperienced in interacting with intravenous drug users. There is a clear and immediate need for counselling workshops for medical staff and social workers.

As the HIV-1 infection threat increases, there are many signs of persistent denial and resurgent discrimination in Taiwan. Several important issues need to be addressed: sentinel surveillance of female sex workers, social welfare institutions and housing for homeless people with HIV/AIDS, financial support for non-governmental organisations, training and re-education programmes aimed at changing the attitudes of medical staff toward

people with HIV/AIDS, and more funding for AIDS research, especially vaccine development.

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We declare that we have no conflict of interest.

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研究報告 調査報告書

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	【緒言】	これまで国内	Nでの HIV-2 感芽	や症例はいずれの報告も	の外国籍患者で	であった。今回	日本人初のHVー2 /	或执序版之》	VENT TO THE	
研	【症例】7	7 歳男性、3	36年前セネガル	で輸血歴がある。2006	年6月下旬、	気管支喘息発化	作にて当院入院とかっ	った インゴ	7-4-2-12 12	その他参考事項等
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報	, , , , , ,	LIDO C ML47		りもいよかつだ。川焼に	て気管支喘息に	は軽快し入院8	日目で退院となった	. 8 月現在	CD4 数は 897/u1	
告			フィーコルシャベー							
	【退伝子用	解析 国 近感	染症研究所に依	頼し、HIV-1及びHIV-2	各々に特異的	な gag 及び ne	f-LTR 領域を標的と	するプライフ	マーを用いた PCR	原、抗 HCV 抗体、抗 HIV-1 抗体、抗 HIV-2 抗体陰
の		~ · · / · · · · · · · · · · · · · · · ·) ノ/C 、 C V/iiti大	ここ ローソニス わき またげり ゼタケーノ	フィンーツの	カフロウィルニ	プロバメーク PRO PLE するかか また つ	. رسيت بليمليلا	PCR 産物から得	『 (
5 4 4 7 7		コロロンコマン ハハ かり	いいかかい しょみく か	トカル:カクリヒは パレヤー/。 サデ ノタイ	「プログーチング」	・ブ ガ リ. 姓 ほへん	ししい かたい ノァ 見しま いにんきょっこ			こくこの えに、ノールレル低級血吸に リいては、
3 概	「つが」料	加加加二级位	マナ 勝切の結果が	16、本涯例は 36 年前	ヤネガルでの	齢血でリリンクル	・耐効した しぶここ	~ " " " " " " " " " " " " " " " " " " "	は一般的に発症	HIV-1、HBV 及び HCV について核酸増幅検査 (NAT)
要	14 XI \ /IL 1/	(1) JET 1 - C	これにいるか、今	・延列20 30 年間 ATBS を	・発症していた	1.1	た顔はなく 19 を食べ			を実施し、適合した血漿を本剤の製造に使用して
	1 (0) 00	マイン (国)	ルータい の ロハーク	感染は怖とはいえ、H	IV スクリーニ	ング検査陽性で	でHIV-1 感染に特異的	内な給杏が脱	*性である担合	いるが、当該 NAT の検出限界以下のウイルスが混
	HIV-2 感染	の可能性を	考慮する必要性	がある。				10 N E N 12		入している可能性が常に存在する。本剤は、以上
										の検査に適合した高力価の破傷風抗毒素を含有
				報告企業の意見				♠ %	 後の対応	する血漿を原料として、Cohn の低温エタノール分
日本	人初の HIV-	-2 感染者が	確認されたとの	報告である。						画で得た画分からポリエチレングリコール 4000
一方一	、原料血漿	にHIV-2が消	スしたとしても	o、HIV-1をモデルウイ	ルフレレルウ	ノルコバロー	` \ <u>= h</u> ex \ _h x de ,		本剤の安全性に	処理、DEAE セファデックス処理等により抗破傷風
5.	本剤の製造	工程におい	ア十分に不妊ル	・除去されると考えて	ルスこしたワイ	1 ルスハリテー	ンヨン試験成績か		えないと考える	人免疫グロブリンを濃縮・精製した製剤であり、
			C 1 77 (C THE IL	かみとれるころんし	いる 。			ので、特段	の措置はとらな	ウイルス不活化・除去を目的として、製造工程に
								170		おいて 60℃、10 時間の液状加熱処理及び濾過膜
									処理(ナノフィルトレーション)を施しているが、	
									投与に際しては、次の点に十分注意すること。	
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ポスター 26 HIV 感染症 1

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P26-1 36 年間 AIDS を発症していない日本人初 の HIV-2 感染症の 1 例

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【緒言】これまで国内でのHIV-2感染症例はいずれの 報告も外国籍患者であった。今回、日本人初のHIV-2感染症例を経験したので報告する. 【症例】77歳男 性. 36年前セネガルで輸血歴がある. 2006年6月下 旬, 気管支喘息発作にて当院入院となった. インフォー ムド・コンセントの上での入院時 HIV スクリーニン グ検査(ELISA)で、HIV 抗体高値となった、その 後 Western Blot 法により確認検査を行い。HIV-1 抗 体陰性 HIV-2 抗体陽性となった。また、ペプチド法 による確認検査でも同様の結果であった. 入院時の CD4 数は 234/µL とやや低値であったが AIDS を疑わ せる症状は認められなかった、加療にて気管支喘息は 軽快し入院8日目で退院となった. 8月現在 CD4 数 は827/μLとなり AIDS を発症せずに当院外来で経過 観察中である. 【遺伝子解析】国立感染症研究所に依 頼し、HIV-1 及び HIV-2 各々に特異的な gag及び nef -LTR 領域を標的とするプライマーを用いた PCR に よる遺伝子検査を行った. その結果, HIV-2 特異的 gag プライマーでのみプロウイルス DNA の増幅が確認さ れた. 更に PCR 産物から得られた塩基配列の系統樹 解析では、本症例はHIV-2サブタイプAに属しセネ ガル株 (60415K株) に最も近縁であった. 【考察】輸 血歴と遺伝子解析の結果から、本症例は36年前セネ ガルでの輸血で HIV-2 に感染したと考えられる。HIV -2 は一般的に発症が遅く症状が軽いとされているが、 本症例が 36 年間 AIDS を発症していない機序は極め て興味深く,現在国立感染症研究所と共同で調査中で ある. 尚、国内における HIV-2 感染は稀とはいえ HIV スクリーニング検査陽性でHIV-1 感染に特異的な検 査が陰性である場合、HIV-2感染の可能性を考慮す る必要性がある. (会員外共同研究者:草川茂*, 上 西理恵²¹)

GO 101501

P26 2 初回治療における硫酸アタザナビルの使用 経験

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【目的】硫酸アタサナビル (ATV) は HIV プロテアー ゼ阻害作用を有し、HIV 感染症は用いられる薬剤で ある。本剤は1日1回投与の適応を持ち、服薬アドヒ アランスの向上が期待できることから、治療の第一選 択薬の一つとして使用されている薬剤である。今回 我々は、ATV 服用患者と対象に、治療効果・安全性 について検討を行ったので報告する. 【方法】平成16 年6月から平成18年5月までに、当院で本剤の投薬 を開始した未治療患者60人を対象に調査を行った。 【結果】対象患者 60 例中/核酸系逆転写酵素阻害剂 (NRTI) 2剤に ATV 40 mg & 併用した症例は7例。 NRTI 2剤にATV 300mgとりトナビル (RTV) 100 mgを併用した症例は 13 例であるた。NRTI の主な併 用薬は TDF+3TC 24例, TDF+ATC 23 例であった. 抗ウイルス効果について 24 週以上投与された症例で 検討した.投薬開始後4週を経過した時点のHIV-RNA 量は、平均 1.9log10copies/ml 減少し、24 週、48 週後に HIV-RNA/量が検出限界未満 (50copies/ml) で あった症例は、それぞれ 45/47、36/36 であった。主 な副作用は「稔だリルビン上昇」「黄疸┃黄疸眼」で あったが、その多くは軽度であり、副作用が原因で他 剤への変更が行われた症例は1例であった. 総コレス テロール (T/C), 中性脂肪 (TG) の変化を発与前と 投与 24 週、/48 週後で検討した. TC の変化率は、+ 1.1%, +1.1%, TGは, +1.3%, +1.1% であった. 【考 察】一般的に PI は脂質代謝への影響が大きく、 服用が必要とされる抗 HIV 療法の問題の一つとどれ ているが、本剤は TC,TG への影響が少ない薬剤で あると考えられた、ATVは抗ウイルス効果に優れ 特に問題となる副作用も認められないことから,認容 性の高い PI である思われた.