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PRACTICE OBSERVED

Practice Research

Epidemic of AIDS related virus (HTLV-III/LAV) infection among intravenous drug abusers

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Abstract
Stored blood samples from 164 intravenous drug abusers who attended a Scottish general practice were tested for HTLV-III/LAV (human T cell lymphotropic virus type IIII/mphadenopathy associated virus) infection. Of those tested, 35 (51%) were scropositive, which is well above the prevalence reported elsewhere in Britain and Europe and approaches that observed in New York City. The timing of taking samples of negative sera and continued drug use suggest that as many as 55% of this population might 19% by infected days. Interface became redemic. The practice of sharing needles and syrings correlated with scropositivity, which, combined with the almost exclusive intravenous use of heroin and other behaviourla patterns, may explain the high prevalence of HTLV-III/LAV infection in the area. Rapid and aggressive intervention is needed to control the spread of infection.

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Introduction

HTLV/IR-LAV -human T cell lymphotropic virus type III imphaleospathy associated virus; eropositivity has been described among group of intravenous drug abusers in the United States and lately in Europe. Recently, in a laboratory study of drug users, in which blood samples from patients who had attended various departments of the Royal Infirmary, Edinburgh were used, 38% of heroin users were infected with the virus. It has not yet been explained why here is such a high incidence of infection in heroin users from this city. Previous research has correlated scropositivity with the number of innections but not with sharing needles and the with the number of innections but not with sharing needles and may also be important. A combination of these factors, along with local practices and regional variations in the availability of sterile equipment, may explain the wide variation in seropositivity among different groups of heroin users, which is already known to exist in the United States and Europe. The West Granton Medical Group serves a population of about 18000 patients in a deprived area of Edinburgh that is known to have many intracensors drug abusers. The policy has always been to drug misuse but to resist taking heroin users for treatment who approach the practice from outside a specific georgaphical area of the city. In 1982 an outbreak of hepatitis B infection in the heroin users who attended the practice led to routine blood testing for hepatitis B markers, the epidems being attributed to an increase in sharing needles and syvinges owing to an acute shortage after the local, legal retail supplier was closed and a subsequent unofficial about the risk of the acquired numeue deficiency syndrome. ALDS: to intravenous drug abusers and their spouses and sexual contacts and to the children of infected women led to our decision to test retrospectively stored serum samples for the HTLV-IIILA.

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AIDS
From National Health Service identification numbers it could be shown
that 88% [144] of the study group were born in Ediaburgh and only 2%
outside Scotland, Specific questioning about travel within the United
Kingdom and abroad up to January 1984 showed only a limited use of herein
internationally, one to the United States and North Africa but devine drug
use in either place, the other to Germany in 1976. The group as a whole
rarely travelled outside Edinburgh.

TABLE II—Reported locations of heroin use of 20 heroin users up to January 1984

Location	No/Scot	beroin
Edinburgh practice area	70	100
Edinburgh other areas	38	.54
London	5	(7)
Oxford	2	(3)
Grangemouth		(1)
Kendal	3	(1)
Newcastle upon Tyne		(1)
Germany Berlin	1	100

Despite recent reports of a brief influenza like illness shortly after initial viral exposure a study of case notes indicated no such phenomenon among these patients. At the time of writing no patient from the study group had been diagnosed as having AIDS, withough a small but growing number are showing AIDS related illnesses such as persistent generalised lymphadeno-publy and candidates.

HTLV-III LAV infection was observed in half of the intravenous drug abusers studied; this is well above the prevalence observed in MTLV-III LAV infection was observed in half of the intravenous drug abusers studied; this is well above the prevalence observed in MTLV-III LAV infection (see fig 2) appears to fork City "Although it is not clear how the virus was introduced into this population, the rapid spread of infection (see fig 2) appears to have resulted from a combination of the almost exclusive intravenous use of heroin, the frequency of sharing equipment owing to difficulties in obtaining sterile needles and syringes locally, and injection practices that increase the risk of exposure to the virus, and injection practices that increase the risk of exposure to the virus, and the control of the previous desired with stropositivity and seems to be the most lakely cause of the high incidence of infection. Preventing the sharing of equipment may therefore be the quickets and most efficient means of containing the spread of HTLV-III-LAV in drug users. The rapidity with which the epidemic spread in this study population, in addition to the presumed risk of infection from drug research and the prevention of the preventi

opposed to movements away from prescribing opinite drugs to drug users. This and other interventions, however, must be considered soon and introduced where appropriate to contain the spread of infection.

Many AIDS related medical and social problems are being dealt with, especially with reference to women of child bearing age and those who are pregnant, who on the whole remain reasonably healthy. At the time of wirting two women had been recommended (wellow) and the state of the control of the c

We thank the doctors and staff of the West Granton Medical Group for their help in collecting samples and information. Dr. E. Edmond and J. D. Dickson, University of Edinburgh Bacteriology Department, and I. Collectof from the Regional Virus Laboratory, City Hopath, Edinburgh, This work was supported by the Scottish Home and Health Department and the Roseamed Campbell Hepatish Research Fund.

- References

 1 year 17. De Justin DC, Marmo M, et al. Prevalence of anothod to hympholireopenty-inoceased virus among drug derinducions patents in New York. New York 1987, 198

100 YEARS AGO

A correspondent sends us the following—"An old main, nearly extegeration, who has been in bed for twenty-seven years, being a harmless monomanics, having the deduction that His Statin Majexy always tood at his door to prevent him from going out; suddenly one morning early in June, took trittle his head that the Deed way agone, whereupon he got out of bed, and with head that the Deed way agone, whereupon he got out of bed, and with out of the service of

therefore examines the behaviour, injection practices, and sero-positivity of a geographically selected population of known heroin users.

Method

The study group comprised 164 patients of the practice who were known to be or to have been heron users. There were long term users, casual users, and those who had experimented with brown but never developed an addiction, making the population representative of heron users as a whole Ser; this had been taken from each bettern user most recently and stored in addiction, making the population representative of heron users as a whole Ser; the had been taken from each bettern user most recently and used another users to be the second of the second of

Results

Results
Serum from 160 herom users was tested. Of these, 83:53% patients were
HTLV-HILLAV positive, 60 men and 23 women, mean (SD) age 24:1
470 years. Eight one 149% patients were semograpitive, 55 men and
26 women, mean (SD) age 63% 5-66% years. There were no see difference
which was to be a second of the semograpity of the semograpity
patients were significantly older 1; 44% pc. 6011. They are patients was a series was 19-3 years, and in
60 semograpity explained tolder 1; 44% pc. 6011. They are validable it was
19-3 years. The mean duration of heroin use could therefore be estimated as
19-3 years. The mean duration of heroin use could therefore the seminated as
19-3 years. The mean duration of heroin use could therefore the seminated as
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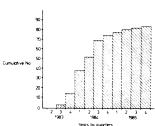


FIG.1. -Cumulative number of first positive H FLV-III-LAV antibody test results among 83 infravenous drug abusers by quarters.

of time during which sensonversion occurred was known for 31 patients for 2.1 werns five 12% of the seropositive patients and 2.1 45% of the hard of the seropositive patients as a valid were known for the patients of the seropositive patients and the seropositive for the population. There is no indication therefore that seropositives is related to the duration of dring missor. The interpretation of seconogratic state of complex, however. Events antibody negative patients had had no serum states usince the origin and of those who had, I were known drings after their final serum sample was taken. Thus any of these 57 patients drugs after their final serum sample was taken. Thus any of these 57 patients

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may have seroconverted after the final serum sample was taken. If all of these were now infected there would be an overall prevalence of HTLV-III LAV 68%. Interestingly, the prevalence of hepatitis B marker was 88%, 27 patients being negative for both hepatitis B markers and HTLV-III LAV antibody.

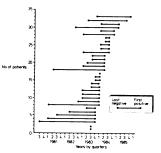


FIG 2—Last negative and first positive HTLV-III/LAV antibody tests for 33 intravenous beroin users against time

Clinical and epidemiological information drawn from the patients' case summaries indicated consistent and repeated patterns and practice of drug musics. The primary routed the from administration was almost exclusively associated to the property of the p

LABLE 1-Self reported sharing of needles and syringes in 164 heroin users with and without anniholies to the HTLV-HF-LAV siris.

Sharing needles and syringes	No %: who were HTLV-III LAV antibods positive	No. %: who were HTLV III LAV antibody negative	Total No:No
Country	¥6 52	12 26	48 (41
Sometimes	27 19	21 45	48 41
Never		14 : 30	20:17:
l'nknown	14	34	48
Total	83 100	×1 - 101	164 99

In an attempt to find the causes of the outbreak and appoint of onest of the epidemic agroup of about 40 early streamwriters were identified who had been intervowed before linears 1984. The group formed an intimate equipment sharing community between 1980 and 1983. Initially using personal equipment into)s, the sharing of needles and syringes became routine is the supply of clean equipment failed. Particularly important were consistent reports of gatherings of 10 to 20 drug users sharing a single needle and syringe during 1985—into unlike the "shorting galleries" described in supplier the people who attended where often beforeage of the heroit university of the proposition of the control of the control

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Audit Report

Monitoring care of patients with hypothyroidism in a Yorkshire practice

Recent papers have pointed out the desirability of regular monitoring of the adequacy of theroxine replacement treatment in patients with hypothyroidsm. and the importance of undertaking both clinical and hose-hemical assessment. Himsworth suggested that this should be undertaken yearly, and at the same time haematological screnning should be carried out for perincious namema. The names acrening should be carried out for perincious namema. The traines were obtained from the practice computer pole time treatments are the same of the practice of the properties of 12 perincious. The name of 15 perincipions. From the records of these patients, the care of 12 perincipions from the records of these patients, the care of 12 perincipions from the records of these patients, the care of 13 perincipions and 5 % per 1000 women, which is similar to that reported elsewhere.

The aetiology of the hypothyroidsm was idiopathic in 22 (69%) patients, followed partial thyroidectomy in three 19%), was associated with this microfromate prophylixas for main depressive illness in three 19%), and was congenital in one. All patients had

been seen during the previous year, but systematic clinical examina-tion of their thyroid state had not been carried out or at least was not recorded in their notes. Ten (34%) patients had had bischemical thyroid assessment carried out during the previous year, 18; 56%) between two and four years previously, and four (13%) more than four years ago. No patient had had haematological tests to screen for the development of permicious anamia. This assessment showed the four follow up of patients was inadequate and indicated the need the properties of the properties of the properties of the properties of general practitioners. Settle, North Yorkshire BD24 14) and of 1,4 watkirs, Evaluation and Planning Centre, London School of Hygiene and Tropical Medicine, London WCLE 7HT. [Accepted 13 February 1986]

Joff AD. Theorems replacement treatment, clinical judgment or boschemical control. Br. Med J. 1985;291, 233.4
 Himsworth RL. The appropriate use of diagnostic services, and Theorem disease and the laborators. Biotherizate 1985;12:25-8.

100 YEARS AGO

Some interesting and graphics rotes of the work being done by the National Society of the State of the State of the State of Stat

since November 22nd. Their funds consist mainly of the amounts received through Mr. Lascelles from his credit at Coults and Co. They cannot be month at least a coult about 18 of 18