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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 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 of the 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 number delicion; yequidome (AIDS) 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-IIII-LAV antibody to obtain information to manage these patients. This study

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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, Speeche, questioning about travel within the United
Kingdom and shroad up to I amoury 1984 showed only a limited use of heroin
internationally, one to the United States and North Africa but deriving drug
use in either piace, the other to Germany in 1976. The group as a whole
rarely travelled outside Edinburgh.

TABLE II—Reported locations of heroin use of 70 heroin users up to January 1984

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

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, afterwards as many lawing number are showing AIDs related illnesses such as persistent generalised lymphadenopathy and enablosis.

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 proposition of the proposition of the high incidence of infection. Preventing the sharing of equipment may therefore be the quickest and most likely cause of the high incidence of infection. Preventing the sharing of equipment may therefore be the quickest 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 reserved in the study opposition of the prevention of the prevention

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.

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### 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 Majeavs always stood at his door to prevent him from going out; suddenly one morning early in June, took trittle his head that the Deel was gone, whereupon he got out of bed, and with he head that the Deel was gone, whereupon he got out of bed, and with our and jumped over. Having been a good wominer in his early days, he struck out, and although a boat put off from a seesal, he swam ashore. Nobody knowing him, he was taken to a public-house, and a medical man was sent for. He was taken home, where he remained two or three days in bed, all the better for his dip. He has been to church, and is now about to resume his former calling, that of a preacher."

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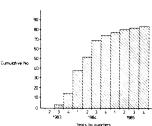
therefore examines the behaviour, injection practices, and sero-positivity of a geographically selected population of known heroin users.

Method

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

### Results

Results
Serum from 164 herom users was tested. Of these, 83:53% patients were
HTLV-HILLAV positive, 60 men and 23 women, men. (SD) age 24:1
470 years. Eights one 49% years timest were semengative, 55 men and
26 women, mean, 5D, age 26:4 5:56% years. There were no see difference
seemed to be seen to be seen



 $\rm Ho,T$  -Cumulative number of first positive HTLV-III LAV antibody test results among 83 intravenous 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 2.1.15% of the hard of the seropositive patients was a valid ever 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 seconogative stars of complex, however. Events antibody negative patients had had no serum states usince the origin and of those who had, I were known drings and the seropositive for the performance of the performs, and of those who had, I were known 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. It all of these were now infected there would be an overall prevalence of HTLV-III LAV 65%. Interestingly, the prevalence of hepatitis B marker was 88%, 27 patients being negative for both hepatitis B markers and HTLV-III LAV antibody.

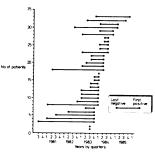


FIG 2—Last negative and first positive HTLV-III/LAV antibody tests for 33 intravenous beroin users against time

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 sires

Sharing needles and syringes	No. % who were HTLV-III LAV antibody positive		No. %: who were HTLV III LAV antibody negative		Total No No	
Usually	16	52	12	26	48 (4)	
Sometimes	27	10	21	45	48 41	
Never	•	9	14	-30	20:17	
Unknown	14		34		48	
Total	83	100	*1	101	164 199	

In an attempt to find the causes of the outbreak and rapidity of onset of the epidemic a group of about 40 carls serviconverters were identified who had been interreseed before January 1948. The group formed an intimate been interreseed before January 1948. The group formed an intimate prevaind coupriment only, the sharing of medies and syntages became routine as the supply of clear equipment failed. Particularly important were consistent reports of gatherings of 10 to 20 drug users sharing a single needle and syring drump 1948—in our links the "showing alligners" discribed in a stringed signal (1948)—the subset of the stringer of

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 thyroxyme 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 permicious anaema. The names of the state of the premicious anaema. The names of the state of the premicious hardward of the state of the premicious hardward in the state of 13 per 1000 men and 5.8 per 1000 women, which is similar to that reported cleewhere.

The aetiology of the hypothyroidsm was idoopathic in 22 (69%) patients, followed partial thyroidectomy in three (9%), was associated with this una carbonate prophylaxis for main depressive illness in three (9%), 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 Court and Co. They cannot be the control of the control of

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