Syphilis

symposium

An outbreak of early syphilis: cases from North Manchester General Hospital

H B Lacey, S P Higgins, D Graham

Objectives: To describe the features of an outbreak of early syphilis in North Manchester.

Methods: Retrospective KC60 and case note review.

Results: In a 25 month period, 10 cases of primary, 22 of secondary, and nine cases of early latent syphilis were diagnosed. 39 were homosexual or bisexual men, 20 being co-infected with HIV. Most infections were acquired locally and in 19/41 cases oral sex was the only risk factor. High rates of unprotected anal sex were reported among the homosexual men and co-infection with other STIs was common.

Conclusion: This outbreak will facilitate the spread of HIV in the homosexual male population. Unsafe sexual practice is common and the perception that oral sex is “safe” needs revisiting. Delays in accessing GUM clinic appointments must be addressed as part of the control strategy.

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Keywords: syphilis; HIV; oral sex

Introduction

This report outlines the demographic and epidemiological details of the patients diagnosed with early syphilis who presented to North Manchester General Hospital. The outbreak of syphilis in Manchester and the surrounding north west started in March 1999 and has been escalating since (by July 2001, over 140 cases in the city of Manchester).

Materials and methods

A retrospective KC60 and case note review of patients diagnosed with primary, secondary, and early latent syphilis was carried out at North Manchester General Hospital. The primary and secondary cases were diagnosed on the clinical features and serological picture (EIA positive, Murex IgG/IgM, with confirmatory positive TPHA and RPR), the early latent cases on a documented seroconversion within the previous 2 years with no clinical evidence of treponemal infection.

Results

In the period January 1999 to March 2001, 41 cases of early syphilis were diagnosed (fig 1). Forty cases were male, all were white comprising 36 homosexual, three bisexual, and one heterosexual. Ten patients presented with primary syphilis, two of these had some features of coexistent secondary syphilis (these two referred to as primary cases in the analysis). The most common presenting features were those of secondary syphilis in 22 patients, and nine cases were classed as early latent. The average age was 33 years (range 19–49). Forty patients gave a history of a total of 403 sexual contacts in the preceding 6 months, and one patient gave a personal figure of 480 contacts (total 883, mean 21.5 per case, range 1–480). The patients themselves successfully traced only 27 of these contacts, through social networking. Six had a syphilis diagnosis and five of these are included in this cohort.

One case was female, a black Caribbean woman infected through heterosexual sex in Manchester (positive contact seen elsewhere). The majority of cases were infected in Manchester. Forty of 41 cases had been sexually active (24 of these exclusively) in Manchester within the previous 6 months. One case was probably infected abroad. Eighteen of 41 presented to the walk-in GUM clinic, 10/41 from the HIV treatment clinics in the infectious disease department, 5/41 as a result of partner notification, and eight from GP and other sources.

The following co-infections were diagnosed on routine sexually transmitted infection (STI) screening at presentation. Three patients had rectal gonorrhoea, six chlamydial infection (polymerase chain reaction (PCR) testing, Cobas Amplicor), three non-gonococcal non-chlamydial urethritis, three genital warts, one
Benzyl pen + doxy/ procaine pen
Doxy 200 bd 28/7
Doxy 100 bd 21/7
Doxy 100 bd 14/7
Procaine pen 1.8 g 17/7
Procaine pen 0.9 g 21/7
Procaine pen 0.9 g 10–14/7

Figure 2. Treatment regimens, 41 cases of early syphilis North Manchester General Hospital.

Discussion

Most of these infections were acquired locally in an age group unlikely to have missed HIV prevention messages over the past 15 years. Oral sex is perceived as safer or “safe,” which in the case of syphilis acquisition it clearly is not. Although at North Manchester we have not yet documented any coincident HIV seroconversions it is likely that the lesions of primary and secondary syphilis facilitate HIV transmission through oral contact.1

Many of the cases of primary syphilis presented with painful multiple genital sores more typical of HSV. The high rate of chlamydial and/or gonococcal co-infection (nine cases in eight patients, seven being rectal infections), suggests a high level of unsafe sexual activity, although five of these patients denied any unprotected anal sex in the previous 6 months. Dark field microscopy was attempted on specimens taken from primary and mucosal lesions of secondary syphilis but the results were negative or inconclusive and probably reflected the lack of experience of medical laboratory scientific officers and clinic medical staff in this technique.

The default rate raises concerns, as 17% never returned after treatment. This might influence us to favour parenteral regimens as treatment is directly observed. Two of those who never returned received oral treatment and compliance is therefore questionable.

The high rate of syphilis and HIV co-infection will increase concerns about the spread of HIV as STIs, particularly genital ulcerative STIs, are well recognised to facilitate HIV transmission.2 Rapid access to treatment is a key element of STI control3 yet there have been no improvements in GUM services despite the delays in accessing GUM appointments in the north west being acknowledged to be among the worst in the United Kingdom.4

The lack of success in locating and treating contacts results from the casual and often multiple nature of the sexual contacts. Multidisciplinary meetings with public health specialists, GUM consultants, voluntary and non-statutory gay men’s agencies were convened in February 2000 and a campaign was launched in March 2000 to raise syphilis awareness in Manchester’s “gay” village and among healthcare professionals. Initiatives to promote testing to detect those with early latent disease are needed in appropriate locations including HIV treatment clinics. August bank holiday weekend sees the “gayfest,” an event where homosexual men from all over the United Kingdom and further afield converge on Manchester. This event coinciding with an uncontrolled outbreak of syphilis will have implications not only for local
services but also for those throughout the United Kingdom.

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