Wassermann reaction in peripheral blood of patients with secondary syphilis and human-immunodeficiency virus infection

In recent years there have been sporadic reports of unusual manifestations of syphilis and altered syphilis serology in AIDS patients. A recent study from Baltimore showed no indications of a changed clinical pattern of syphilis in HIV infected patients. More remarkably, an increased plasma reagin (RPR) titre as compared with HIV negative syphilis patients was found. In order to evaluate the lipid serology of patients with syphilis co-infected with HIV we performed a retrospective study of syphilis cases seen at our STD clinic in Copenhagen from 1985 to 1991. The following criteria were used for selection: patients with secondary syphilis being their first episode of the infection, as earlier infections may alter the lipid serology; patients with asymptomatic HIV infection; patients who received the full penicillin treatment and turned up for regular control until the Wassermann reaction (WR) in peripheral blood was zero. Of 15 asymptomatic HIV positive patients six fulfilled these criteria, all of them being homosexual men with a mean age of 29 years (range 25 to 42). As a control group HIV-antibody negative patients with secondary syphilis, were selected. Of 11 patients, seven fulfilled the criteria for selection. They were heterosexual males with a mean age of 38 years (range 26 to 52). All syphilis patients had a maculopapular rash typical for secondary syphilis, an increased WR titre in peripheral blood and positive antitreponemal tests (FTS-ABS, antiflag IgG ELISA).

Treatment consisted of benzathine-penicillin G 2.4 million IU i.m. three times at weekly intervals (12 cases) and procaine penicillin 0.6 million IU/day for 10 days (1 case). The median WR titre prior to treatment was 13 (range 11 to 20) in the HIV/syphilis group and 9 (8 to 14) in the control group (p(two-tailed) = 0.1, Mann-Whitney rank sum test) (fig).

There was no significant difference between the time in months of the two groups until WR was found non-reactive (p = 0.8).

The decline in WR was as expected; all patients had non-reactive WR titre within 16 months.

Thus, in this small study we found no indication of an altered clinical presentation of secondary syphilis in asymptomatic HIV infected patients, nor was there any difficulty in diagnosing syphilis serologically or monitoring the response to penicillin treatment in these patients.

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Oro-anal sex and the occurrence of Kaposi's sarcoma

There is epidemiological evidence that a sexually transmitted putative agent is responsible for the occurrence of Kaposi's sarcoma (KS) among HIV seropositive homosexual men. Based on their study among 65 homosexual men with AIDS in London, Berel et al reported that insertive oro-anal contact (active rimming) was strongly associated with KS. Since this sexual practice involves direct oro-faecal contact it was hypothesised that such a putative agent would be present in faeces. To explore further this hypothesis, we investigated the occurrence of KS among approximately 1000 homosexual men who participate in our cohort study in Amsterdam, The Netherlands. Men are seen every three to six months and complete a questionnaire on their sexual lifestyle and related behaviours every half year. After the study started in 1984, 127 men were diagnosed with AIDS, of whom 97 had entered the study HIV seropositive and 30 had seroconverted for HIV antibodies during follow up. Of these

Figure. Wassermann reaction (WR) in 6 HIV-antibody positive patients (solid lines) and 7 HIV-antibody negative patients with secondary syphilis at the time of diagnosis and following penicillin treatment. Note that the x-axis is broken between 10 and 16 months.
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