LETTERS TO THE EDITOR

Prevalence of HPV cervical infections among imprisoned women in Barcelona, Spain

EDITOR,—The penitentiary centres in Spain harbour inmates in whom the combination of HIV infection, history of injecting drug use, and prostitution is common.1 Extensive protocols to detect sexually transmitted diseases and tuberculosis are implemented in these centres; however, human papillomavirus (HPV) infections and related lesions are not routinely searched for. Although Spain is characterised by a very low incidence of cervical cancer,2 a high rate of cervical cancer has been reported recently among the AIDS female population in Catalonia.3 We carried out a study aiming to characterise HPV cervical infection and related cervical lesions among women with many potential risk factors for cervical neoplasia. The study was done in the only institution in Barcelona where women are imprisoned. The population consisted of 157 women attending the medical office of the prison between February and December 1996 and represented 90% of all women staying in prison for more than 3 days. Women who agreed to participate underwent a gynaecological examination, collection of cervical cells, a structured interview by a trained nurse, determination of HIV, hepatitis B and C serostatus, and detection of HPV DNA in the cervical cells by means of PCR. L1 consensus primers MY09/MY11 were used with modifications as described by Hildesheim et al.4

HPV DNA was detected in 48% of the women. The prevalence of cervical abnormalities was 29.9%; 19 women had a atypical squamous intraepithelial lesion (SIL) and 28 women were diagnosed with squamous intraepithelial lesion (SIL), five of whom had a high grade lesion. All women with a SIL and 42% of those with a ASCUS were HPV positive. Prostitution was related to HIV, to injecting drug use, and to hepatitis C positive serology. After adjusting for these variables, HPV detection remained significantly associated with HIV and with length of time injecting drugs (table 1). No association between HPV detection was found with other reproductive and sexual characteristics. In addition, HIV positive women had an increased risk to develop SIL compared with HIV negative women (POR=5.02, 95% CI=1.69–14.89). As previously reported, the risk for SIL increased with low CD4 T cell counts, although POR did not reach statistical significance.3

Data from an ongoing study in a nearby area indicate that the prevalence of cervical abnormalities in the general population is around 4% (manuscript in preparation). This is the first time that we have documented in Spain a group of women with a very high rate of HPV infection linked to injecting drug use and with a rate of pre-neoplastic cervical lesions about seven times higher than that observed in the general population. While in prison these women were appropriately treated for HIV infection and for SIL. When out of prison or in jail, a gynaecological screening every 6–12 months should be organised and recommended.

Financial support: This work has been partially supported by the Spanish Ministry of Health, FIS No 98/0646. We thank Mrs Anna Coma for her assistance with data managing and analysis.

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Detective of penicillinase producing Neisseria gonorrhoeae strains in Cuba, 1995–8

EDITOR,—Since the 1940s, penicillin has been recommended for the treatment of gonorrhoea. In the 1950s the first strains of Neisseria gonorrhoeae with reduced susceptibility to this antibiotic, as a result of chromosomal mutations, were isolated in countries in which the first penicillinase producing Neisseria gonorrhoeae (PPNG) strains emerged in South East Asia and Africa, causing high level resistance to penicillin (MIC >16 µg/ml).1 In Cuba, the first reported PPNG strain was made in 1986 (C Almanza, personal communication). We report here on the proportion of PPNG strains received at the Neisseria Reference Laboratory, Tropical Medicine Institute “Pedro Kouri” (IPK), Cuba between January 1995 and December 1998.

In all, 110 strains of N gonorrhoeae isolated from 10 of the 14 Cuban provinces were examined for their β-lactamase activity by the chromogenic method (Nitrocefin, Oxoid). These strains were transported to the IPK using a novel transport and conservation medium for gonococci developed at the laboratory.2 N gonorrhoeae WHO E and WHO A were used as positive and negative control strains, respectively. All strains were identified as gonococci by standard procedures.1

Table 1 Age adjusted prevalence odds ratios for human papillomavirus infection (HPV DNA) in the cervical cells by different characteristics

<table>
<thead>
<tr>
<th></th>
<th>HPV DNA Negative</th>
<th>HPV DNA positive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
<td>%</td>
</tr>
<tr>
<td>HIV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative</td>
<td>54</td>
<td>63.5</td>
</tr>
<tr>
<td>Positive</td>
<td>31</td>
<td>36.5</td>
</tr>
<tr>
<td>Prostitution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>59</td>
<td>69.4</td>
</tr>
<tr>
<td>Yes</td>
<td>26</td>
<td>30.6</td>
</tr>
<tr>
<td>Injecting drug use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>44</td>
<td>51.8</td>
</tr>
<tr>
<td>Yes</td>
<td>41</td>
<td>48.2</td>
</tr>
<tr>
<td>Length of use:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–9 years</td>
<td>22</td>
<td>26.5</td>
</tr>
<tr>
<td>≥10 years</td>
<td>17</td>
<td>20.5</td>
</tr>
<tr>
<td>Hepatitis C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative</td>
<td>49</td>
<td>59.8</td>
</tr>
<tr>
<td>Positive</td>
<td>33</td>
<td>40.2</td>
</tr>
</tbody>
</table>

PORc = age adjusted.
PORa = adjusted for age and the other variables in the table.


1 Palefsky JM, Minkoff H, Kalish LA, et al. Cervi-
have been recently evaluated in Cuba with good results (R Llanes, et al, unpublished data, 1999).

We thank Lic D Guzman, Lic Y Gutierrez, and O Gutierrez for their technical support during this study and Dr A Llop for her revision.

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Accepted for publication 5 November 1999

Rising HIV prevalence in STD clinic attenders at Chandigarh (north India)—a relatively low prevalence area

EDITOR.—The patients attending the STD clinics are at risk of having concurrent HIV infection. The trends of HIV infection in these patients may reflect the trends of HIV epidemic in the community. We have analysed the HIV status of 981 patients (824 males, 157 females) who attended our STD clinic from January 1993 to July 1999 (about 6 1/2 years). The screening for HIV was done by ELISA. Those who were found positive were tested by repeat ELISA utilising another blood sample and considered HIV seropositive only, if both samples were found positive. The STDs were diagnosed by appropriate laboratory tests. The majority of the attenders had STDs; however, a small but significant proportion of patients had psychosexual disorders and other non-sexually transmitted genital diseases. Four per cent of the 981 patients—that is, 40 patients (26 males, 14 females) were found to be seropositive for HIV. The annual prevalence showed a rising trend (1993, 0.56%; 1994, 4.4%; 1995, 2.4%; 1996, 4%; 1997, 4.4%; 1998, 5.7%; and January to July 1999, 8.7%). The prevalence of HIV seropositivity in different STDs is shown in table 1. Large proportions of seropositive patients were truckers (15/40, 37.5%) and housewives (12/40, 30%). Among 12 housewives, four were wives of truckers. All of the 26 seropositive male patients confessed to at least one sexual contact with commercial sex workers (CSWs). Twenty eight (70%) seropositive patients had one STD, while the remaining 12 (30%) patients had more than one STD; 18 (45%) seropositive patients had STDs with atypical morphologies or unusual severity, the remaining 22 (55%) presented with usual morphologies.

India is a country with a wide variation in geographical, cultural, and behavioural patterns. This is also reflected in the trends of current HIV epidemic in the various regions of the country. We believe that no other country has such a high intra-variation in HIV epidemic status. Comparison of our data on HIV prevalence with STD clinics of our hospital. The high HIV prevalence zones of the country include western and southern zones, where HIV prevalence among STD clinic attenders varies from 15% to 33%. On the other hand, in eastern and northern zones, it is still low and varies from 0.2 to 4%. 1, 4, 5

In our study we found that a high proportion of HIV positive patients were truckers, who generally acquired infection from CSWs from the highways to Bombay or Chennai, two metropolitan cities of the western and southern zones respectively. These long distance truckers have a high risk sexual behaviour and contribute in the spread of HIV infection throughout the country in a short time. 1, 2

Even though the present figures for HIV seropositivity in STD clinic attenders are not very high, the HIV epidemic in this region is now progressing at an alarming rate. In our study, the prevalence in our STD clinic increased from 0.56% in 1993 to 8.7% in 1999 (to July). This indicates that northern India is entering from a low level epidemic (HIV prevalence less than 5% in STD patients) to a concentrated epidemic. 1 This calls for an immediate vigorous intervention programme to be introduced in this region.

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HIV seropositivity in women with syphilis in Delhi, India

EDITOR.—There has been a progressive rise in the prevalence of human immunodeficiency virus (HIV) infection in India, which cur- rently has the largest number of HIV infected people in the world. The spread of HIV is predominantly by heterosexual transmission in India. Sexually transmitted disease (STD), particularly genital ulcer disease (herpes, syphilis, and chancroid), has an important role in the transmission of HIV, and the two have been observed to be interrelated. 1, 2, 3 We conducted a pilot study to assess the relation between syphilis and HIV infection among non-pregnant women attending gynaecology and STD clinics of our hospital.

From June 1998 to July 1999, sera from 281 non-pregnant women were tested for HIV by VDRL (Serologist, India) and confirmed by TPHA (Inmunotrop, Omega Diagnostic Ltd, UK). Sera that tested positive for syphilis were tested for HIV without identifying the patient. Individual informed consent for HIV was not obtained as results were not aimed to be linked to the identity of those tested. Serum was tested first with one ELISA/rapid/simple (ERS) assay, utilising either of the these different enzyme linked immunosorbent assays (ELISA). United Medical Inc, USA, Recombigens HIV-1/HIV-2, EIA, Cambridge Biotech Galway, Ireland, and HIV spot Genelabs Diagnostic, Singapore). Any reactive sample was retested using a different assay. Sera that were positive in all the three tests were considered HIV antibody positive. A sample that was non-reactive on the first test was considered HIV negative, as was a sample that was reactive in the first and non-reactive in the next test.

Of 281 sera tested, 48 (17%) were seropositive for syphilis. HIV antibody was detected in sera of six (12.5%) patients who were sero- positive for syphilis (table 1). None of the 18 patients with negative syphilis serology tested positive for syphilis. The discrepancy in the presence of more than one STD in some patients.
positive for HIV antibody. This was highly significant (p<0.001, Fisher's exact test).

Presence of HIV antibody was associated with genital ulcer in 23.5% women, followed by genital growth and vaginal discharge in 16.6% and 11.1% respectively.

There is a higher prevalence of STD and HIV infection among men compared with women. HIV seropositivity has been associated with a reactive serological test for syphilis among males. This could be probably due to higher percentage of male attendance in STD clinics. We therefore undertook this study to evaluate if some association exists between syphilis and HIV among non-pregnant women attending the gynaecology clinic, as well as the STD clinic. Untreated STDs, especially those with ulcerative disease, can enhance both susceptibility of a person to HIV infection as well as infectivity of HIV positive individual. Breach in the epithelial surface of a genital ulcer may be an impetus to increase the transmissibility of HIV. This is evident from our results where incidence of positive serology for HIV was highest among women with genital ulcer (23.5%). Our study demonstrates a significant association between positive serology for syphilis and presence of HIV infection. We therefore undertook this study to evaluate if some association exists between positive serology for HIV in pregnant women may act as a marker to feel that the diagnosis of syphilis in non-pregnant women with genital ulcer may be an impetus to increase the transmissibility of HIV. This is evident from our results where incidence of positive serology for HIV was highest among women with genital ulcer (23.5%). Our study demonstrates a significant association between positive serology for syphilis and presence of HIV infection. We therefore undertook this study to evaluate if some association exists between positive serology for HIV in pregnant women may act as a marker to feel that the diagnosis of syphilis in non-pregnant women with genital ulcer may be an impetus to increase the transmissibility of HIV. This is evident from our results where incidence of positive serology for HIV was highest among women with genital ulcer (23.5%). Our study demonstrates a significant association between positive serology for syphilis and presence of HIV infection. We therefore undertook this study to evaluate if some association exists between positive serology for HIV in pregnant women may act as a marker to feel that the diagnosis of syphilis in non-pregnant women with genital ulcer may be an impetus to increase the transmissibility of HIV. This is evident from our results where incidence of positive serology for HIV was highest among women with genital ulcer (23.5%). Our study demonstrates a significant association between positive serology for syphilis and presence of HIV infection.

Immune reconstitution CMV pneumonitis

Eston-—A 41 year old white homosexual man presented in late July 1999 with a 5 day history of exertional dyspnoea, non-productive cough, fever with sweats, and anorexia. An empirical course of broad spectrum antibiotics did not improve his symptoms and he remained 29% on rest at rest. The chest radiograph showed non-specific abnormalities. He had been found to be HIV-1 antibody positive in August 1991; cutaneous Kaposi’s sarcoma defined AIDS in June 1992. In May 1995 biopsies of lymph nodes and (CMV) oesophagitis and colitis were treated with intravenous ganciclovir for 2 weeks; no maintenance therapy was given. At this time the CD4 count was 130 cells/x10³. In October 1996 the CMV oesophagitis and colitis had resolved. He had been continued. In early June 1999 HIV viral load had risen: co-trimoxazole primary therapy with d4T, 3TC, and amprenivir/ saquinavir. Four weeks after starting antiretroviral therapy viral load had fallen to 1500 copies/ml and CD4 count had risen to 170 cells/x10³. A computed tomography (CT) scan of the thorax 4 weeks after the onset of respiratory symptoms and 6 weeks after starting antiretroviral therapy showed focal areas of bronchial wall thickening, largely in the left upper lobe but also involving other lobes; in addition, chronic bronchitis resulting from the previous episode of pneumonia were noted, including multifocal fibrotic change with thickened interlobular septae, cystic air spaces, and minor bronchiectasis involving all lobes. Repeat CT of the thorax at this time revealed a lymphoctic reaction; many cells had intranuclear/cytoplasmic inclusions typical of CMV infection. In situ hybridisation for CMV was positive on bronchial brushings and culture for bacteria, mycobacteria, P carinii and other fungi were negative. Intravenous ganciclovir 10 mg/kg per day was given for 21 days, in addition, antiretroviral therapy and cotrimoxazole were continued. With this there was a rapid defervescence of fever, a reduction in exertional dyspnoea and improvement in SaO₂, to >98% on air. Repeat CT of the thorax after 3 weeks of intravenous ganciclovir showed an improvement in ground glass shadowing and persistence of the chronic changes. The patient was subsequently maintained on oral ganciclovir.

The diagnosis of CMV pneumonitis was made by identifying CMV as the sole pathogen in BAL fluid and the improvement in symptoms, SaO₂, and CT appearances with ganciclovir as monotherapy. This diagnosis was made in the context of a rapidly falling viral load and an increase in CD4 count indicating partial immune reconstitution.

Partial restoration of cellular mediated immunity induced by antiretroviral therapy, as shown by recovery of part of CD4 T cell reactivity to memory antigens, may cause development of sufficient inflammatory responses to produce symptoms and signs in patients latently infected with opportunistic infections. Reactivation mycobacterial lymphadenitis, cryptococcal meningitis, and CMV retinitis have been described. The occurrence of CMV pneumonitis suggests CMV pneumonitis should be added to the list of immune reconstitution phenomena.

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BOOK REVIEWS


A book with a title such as this one makes it difficult for the author to decide what to exclude. This book certainly fulfills its major objective of providing an easy reference manual for the diagnosis and management of common gynaecological conditions. It deals with all the gynaecological conditions that could be encountered in the community and the common gynaecological problems in hospital medicine. Overall, the topics covered are well presented with special points highlighted.
The use of pictures relating to almost all the conditions dealt with by the book breaks up what would otherwise be a book of lists. The use of two different views of the same woman exercising on a treadmill certainly made me smile. The first picture tells us she is an intensively training sportswoman who may develop amenorrhoea and osteoporosis with stress fractures while the second picture, on a page dealing with advice to women who do not want HRT, reveals she is a grand- mother taking regular exercise.

From a genitourinary medicine trainee point of view, I would have liked to see a more comprehensive chapter on pelvic infections and sexually transmitted diseases (this is the second smallest chapter in the book), and would have preferred this chapter to follow the one on vaginal and vulval problems. I am, however, glad to see that the role of the genitourinary clinic in the management of pelvic infections is emphasised.

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These two books provide histories of STDs and HIV in nine sub-Saharan African countries and another 11 countries in the Asia-Pacific region. The contributors are mostly historians or social scientists and the historical accounts take the reader up to 1995. Each volume is divided up into well referenced scholarly monographs on individual countries and individual chapters will be of considerable interest to anyone with an interest in sex health in the countries studied. The number of readers of this journal who will want to read both books throughout is likely to be much less, given that these books are fairly specialist medical historical studies written mainly by historians for historians. The decision of the editors to treat each country separately has led inevitably to much repetition of certain themes. Many chapters rehearse the familiar story of how governments have responded to public pressure to regulate prostitution and the difficulties of demonstrating whether such efforts have had any real impact on STD transmission. The most interesting example in this context is the account of the attempts to eradicate prostitution and STDs in China, a subject where the peculiar difficulties of differentiating non-venerable from venerable treponematosis. We are constantly reminded that syphilis reporting may be distorted by such an issue but other pertinent issues such as the unitarian theory of treponematosis, the lack of specificity of older serological test methods, the impossibility of determining the mode of transmission from serological results or, in many instances, from observed clinical manifestations, receive rather patchy and inconsistent coverage. A third recurring theme is the unreliability of passive reporting systems. While this is often acknowledged, contributors still feel obliged to cite whatever data they can unearth and to discuss observed trends that are unlikely to bear much relation to any true epidemiological situation.

What is there in these books for the clinician or epidemiologist with an interest in STDs? There is no shortage of entertaining anecdote such as the expatriate doctor in Uganda who had himself publicly injected with mercury to demonstrate his faith in this treatment. The account of regular penicillin injections for prostitutes in Indonesia will interest those who are following studies of targeted periodic presumptive treatment in Africa such as the Lesedi Project. Having worked in Papua New Guinea, I was interested to see whether and written about spectacular epidemic of donovanosis that was an intensively training sportswoman who may develop amenorrhoea and osteoporosis with stress fractures while the second picture, on a page dealing with advice to women who do not want HRT, reveals she is a grand- mother taking regular exercise.

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1st Annual Teesside Sexual Health Conference, 11 March 2000
Further details: Mandy Bruce (tel: 01642 854809).

9th International Congress on Infectious Diseases, 9–12 April 2000, Buenos Aires, Argentina
Further details: International Society for Infectious Diseases, 181 Longwood Avenue, Boston, MA 02115, USA (tel: (617) 277-0551; fax: (617) 731-1541; email: isidbosi@aol.com).

Sexually Transmitted Diseases in a Changing Europe, 14–15 April 2000, Rotterdam, The Netherlands
Further details: Medison, Organisation for Medical Congresses, PO Box 113, 5600 AC Geldrop, Netherlands (tel: +31-(0)40-2852212; fax: +31-(0)40-2851966; email: MEDISON@IAEhv.nl).

20th Scientific Conference of Venereology of the Polish Society of Dermatologists, Bialystok, 28–30 April 2000
Further details: The conference will be on epidemiological and clinical aspects of sexually transmitted infections. Further details: Dept Dermatology and Venereology, Sw Rocha 3, 15-879 Bialystok, Poland (tel/fax: (085) 7422778; email: bozchod@amb.ac.bialystok.pl).

Joint meeting of the MSSVD and the ASTDA, 3–7 May 2000, Baltimore Marriott Inner Harbor Hotel, Baltimore, Maryland, USA
Further details: Dr Keith Radcliffe, honorary assistant secretary, MSSVD (fax: +440) 121-237 5729; email: k.w.radcliffe@bham.ac.uk).

Australasian Sexual Health Conference, Ven Troppo, Carlton Hotel, Darwin, Northern Territory, 21–24 June 2000
Further details: Shirley Corley, Conference manager, Dart Associates, PO Box 781, Lane Cove, 2066 NSW, Australia (tel: 02 9418 9396/97; fax: 02 90418 9398; email: dartconv@mpx.com.au).

6th ESC Congress on Contraception in the Third Millennium: a (R)Evolution in Reproductive and Sexual Health, Lubljana, Slovenia, 28 June–1 July 2000
Further details: Orga-Med Congress Office, Mr Peter Erard, Essensstraat 77, B-1740 Ternat, Belgium (tel: +32 2 582 08 52; fax: +32 2 582 55 15; email: orgamed@village.uunet.be).
XIII International AIDS Conference, 9–14 July 2000, Durban, South Africa
Further details: Congress Sweden AB, PO Box 5619, Linneangetan 89A, 114 86 Stockholm, Sweden (tel: +46 8 459 6600; fax: +46 8 661 91 25; email: aids2000@congress.se).

Consortium of Thai Training Institutes for STDs and AIDS—10th STDs/AIDS diploma course, Bangkok Hospital, Bangkok (30 Oct–12 Nov) and Prince of Songkla University, Hat Yai, Thailand (13–23 Nov) 30 October–23 November 2000
Further details: Hat Yai Secretariat, Dr Veerapol Chandeying, Dept of OB-GYN, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkla 90110, Thailand (fax: 66-74) 446 361; email: cverapol@ratree.psu.ac.th
Bangkok Secretariat, Dr Thanit Palanuvej, Bangkok Hospital, 189 Sathorn Road, Bangkok 10120, Thailand (fax: 66-2) 286 3013; email: pthanit@email.ksc.net.

Consortium of Thai Training Institutes for STDs and AIDS—International Reunion and Refresher Course on Sexual Health, Lee Garden Plaza Hotel, Hat Yai, Thailand 24-26 November 2000
Further details: Hat Yai Secretariat, Dr Veerapol Chandeying, Dept of OB-GYN, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkla 90110, Thailand (fax: 66-74) 446 361; email: cverapol@ratree.psu.ac.th or Bangkok Secretariat, Dr Thanit Palanuvej, Bangkok Hospital, 189 Sathorn Road, Bangkok 10120, Thailand (fax: 66-2) 286 3013; email: pthanit@email.ksc.net.

CURRENT PUBLICATIONS

Selected titles from recent reports published worldwide are arranged in the following sections:

Gonorrhoea
Chlamydia
Catatadus
Bacterial vaginosis
Pelvic inflammatory disease
Sphizis and other treponematoses
Hepatitis
Herpes
Human papillomavirus infection
Cervical cytology and colposcopy
Other sexually transmitted infections
Public health and social aspects
Microbiology and immunology
Dermatology
Miscellaneous

Gonorrhoea

Predicting Neisseria gonorrhoeae and Chlamydia trachomatis infection using risk scores, physical examination, microscopy and leukocyte esterase urinary dipsticks among asymptomatic women attending a family planning clinic in Kenya.

Increase in oral sex and pharyngeal gonorrhoea: an unintended effect of a successful condom promotion programme for vaginal sex.

Cervical wet mount as a negative predictor for gonococci- and Chlamydia trachomatis-induced cervicitis in a gravid population.

Experimental transmission of Neisseria gonorrhoeae from pregnant rat to fetus.

Comparison of direct inoculation and copan transport systems for isolation of Neisseria gonorrhoeae from endocervical specimens.

T lymphocyte response to Neisseria gonorrhoeae porin in individuals with mucosal gonococcal infections.

Decreased azithromycin susceptibility of Neisseria gonorrhoeae due to mtrR mutations.

Chlamydia

Partner notification for chlamydial infections among private sector clinicians in Seattle-King County: a clinician and patient survey.

Patterns of Chlamydia trachomatis testing and follow-up at a university hospital medical center.

Completeness and duration of time before treatment after screening women for Chlamydia trachomatis infections.

Control of Chlamydia trachomatis infections in female army recruits: cost-effectiveness screening and treatment in training cohorts to prevent pelvic inflammatory disease.

Lack of association between serum antibodies to Chlamydia trachomatis and a history of recurrent pregnancy loss.

How adequate is adequate for the collection of endocervical specimens for Chlamydia trachomatis testing?
IL Rebe, KA Gershman, JK Kelley et al. Sex Transm Dis 1999;26:579–83

The impact on accuracy and cost of ligase chain reaction testing by pooling urine specimens for the diagnosis of Chlamydia trachomatis infections.

Ability of the Digene Hybrid Capture II test to identify Chlamydia trachomatis and Neisseria gonorrhoeae in cervical specimens.

Impact of reference standard sensitivity on accuracy of rapid antigen detection assays and a leukocyte esterase dipstick for diagnosis of Chlamydia trachomatis infection in first-void urine specimens from men.

Antimicrobial susceptibility testing of Chlamydia trachomatis using a reverse transcriptase PCR-based method.

Detection of Chlamydia trachomatis endocervical infections by ligase chain reaction versus ACCESS Chlamydia antigen assay.

Antibody response to the chlamydial heat-shock protein 60 in an experimental model of chronic pelvic inflammatory disease in monkeys (Macaca nemestrina).

Role of gamma interferon in controlling murine chlamydial genital tract infection.

Lower prevalence of Chlamydia pneumoniae DNA compared with Chlamydia trachomatis DNA in synovial tissue of arthritis patients.

Lack of cell wall peptidoglycan versus penicillin sensitivity: new insights into the chlamydial anomaly.

The effect of doxycycline treatment and the development of protective immunity in a murine model of chlamydial genital infection.
Pelvic inflammatory disease

The association of interleukin 6 with clinical and laboratory parameters of acute pelvic inflammatory disease.

Syphilis and other treponematoses

Incident syphilis among women with multiple admissions to jail in New York City.
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Hepatitis

Cost-effectiveness analysis of hepatitis A vaccination strategies for adults.
JB OCONNOR, TP IMPERIALE, ME SINGER. Hepatology 1999;30:1077–81

The Denver school-based adolescent hepatitis B vaccination program: a cost analysis with risk simulation.

Pathogenesis of chronic hepatitis C: immunological features of hepatic injury and viral persistence.
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Herpes

A prospective study of new infections with herpes simplex virus type 1 and type 2.

Is sexual transmission an important pattern for herpes simplex type 2 virus seroconversion in the Spanish general population?

Quality of life and use of health care among people with genital herpes in France.
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Ecthyma secondary to herpes simplex virus infection.
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