LETTERS TO THE EDITOR

Labial adhesions following severe primary genital herpes

EDITOR,—Labial adhesions following genital herpes infection have been described previously.1–4 To prevent their development various suggestions such as the use of early aciclovir,1 paraffin gauze, and saline bathing have been put forward. We believe nursing care is a significant factor in the prevention of this complication. Here we report two cases of severe genital herpetic presentations at different sites, almost at the same time, both necessitating admission and developing labial adhesions.

CASE 1

A 25 year old woman was admitted to the medical ward with severe vulval ulceration, generalised skin rash, and difficulty in micturation of 4 days’ duration. Clinical examination revealed target lesions, swollen labia, bilaterally enlarged tender inguinal lymphadenopathy with extensive vulval ulcerations. A clinical diagnosis of erythema multiforme secondary to herpes simplex virus (HSV) was made. However, swabs taken at admission for HSV culture were negative. The patient was commenced on oral aciclovir and metronidazole, and lignocaine gel, subcutaneous morphine, intravenous metronidazole, and cepafuruse, and insulin by sliding scale. Two days later she developed perineal and vulval ulcerations and intravenous aciclovir was added. In view of failure of clinical response the genitourinary department was asked to review the case. Examination revealed perineal and perianal ulcers. A diagnosis of primary HSV was made, intra- venous antibiotics were stopped, and oral antivirals were started. The nursing staff were instructed to offer the patient a Sitz bath twice daily in view of extensive discomfort and oedema. Swabs taken confirmed the diagnosis of HSV. The patient made a gradual recovery and she was allowed home after 1 week in hospital. Two weeks later when she presented to the genitourinary medicine clinic, genital examination showed a thick band of adhesions present between the middle halves of the labia minora, and new herpetic lesions (fig 1). She was prescribed oral valciclovir, metronidazole, and lignocaine gel and advised to continue salt and water bathing at home. A follow up appointment was arranged for release of adhesions. Surprisingly, separation of adhesions was not needed.

COMMENT

These two cases illustrate that females with severe genital herpes can be admitted to different hospital departments other than genitourinary medicine, where the nursing staff may not be familiar with the management and complications of this infection. Patients should be encouraged to separate the labial folds; this can be facilitated by the liberal use of local anaesthetic agents with the assistance of the nursing staff. Frequent saline bathing of the genitalia should be encouraged to facilitate the removal of the fibrinous exudate, which is responsible for the formation of these adhesions.

GUM nurses and physicians should play an active part in the education and nursing care of such cases and lead the management especially when admitted to other specialties.

Contributors: EH managed case 1, JD managed case 2, while both authors wrote the manuscript.

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REFERENCES


Accepted for publication 14 November 2000

Respiratory and cutaneous manifestations of disseminated cryptococcosis in AIDS

EDITOR,—A 26 year old, previously fit and well Afro-Caribbean man, presented with a 5 week history of a “flu-like” illness. Initially treated with antibiotics, the patient deteriorated, developing a cough, haemoptysis, progressive breathlessness, intermittent blurring of vision, and a rash. Investigations indicated he was HIV positive.

On examination, though orientated, he looked unwell and was febrile. He had an extensive papulonodular rash on his face, trunk, and limbs. Many of these lesions were centrally umbilicated with areas of associated haemorrhage (fig 1). Respiratory examination revealed decreased air entry in the right chest and coarse inspiratory bi-basal crackles. Fundoscopy demonstrated retinal pallor, congested optic discs, and bilateral soft exudates associated with haemorrhages. He had no focal neurological signs.

Full blood count, urea and electrolytes, and clotting screen were normal. Arterial blood gases on 35% oxygen revealed a pH of 7.44, Pao, 9.4 kPa, Paco, 2.7 kPa, base excess −8.2. Chest radiograph demonstrated bilateral infiltrates with a right sided pleural effusion.

The patient had been treated for a presumed diagnosis of severe community acquired pneumonia and/or Pneumocystis carinii pneumonia plus Molluscum contagiosum of the skin. In view of the patient’s clinical findings, additional therapy was commenced with anticytomagalovirus (CMV) and anticytromococcal agents.

Urgent blood and pleural fluid cryptococcal reactive antigen testing (CRAG) were strongly positive at a titre of >1:2048. Blood CMV PCR was negative. The patient could not tolerate a lumbar puncture. Despite initial improvement, he developed progressive respiratory failure and died.

The post mortem revealed disseminated cryptococcal disease with involvement of brain, skin, lung, heart, liver, spleen, kidneys, pancreas, thyroid, bowel, adrenal glands, and testes.

Figure 1

(Case 2). Thick band of adhesions between the middle halves of labia minora.

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CASE REPORT
A 19 year old man presented with 2 day history of extensive painful puturlar eruptions of the hands, forearms, and chest. He also felt unwell and had fever. Fingers were stiff and could not be fully extended. He was seen in the local accident and emergency department and prescribed flucloxicillin. On direct questioning he admitted that his illness started with painful penile ulcers followed 2 days later by tender areolaised crops of blisters, which then became infected. Ten days before this he had unprotected sexual intercourse with a casual female friend in Ibiza. He had extensive atopic eczema during childhood, which is well controlled now but has been getting hay fever for the past few years. Examination revealed symmetrical pustular eruptions on the hands, wrist, forearms, lower legs and chest, and a few vesicular eruptions on the hands typical of herpes. He also had multiple superficial penile ulcers. Axillary and inguinal lymph nodes were enlarged. There was also evidence of generalised eczema. Herpes simplex was isolated from the penile ulcers. Screening for other STIs and HIV was negative. He was treated with aciclovir 200 mg five times a day for 5 days with very good response. Two months later he presented to us with a similar episode that required treatment with aciclovir. Since then he has been seen on two occasions with recurrence in the past year, but the attacks were more limited to his hands and external genitalia (fig 1).

Eczema herpeticum is classically a disseminated herpes simplex infection of the skin occurring in patients with pre-existing active dermatitis. The disease is thought to be a variant of transient disease to a fulminating fatal disorder involving the visceral organs.1 2 The severity appears to be unrelated to the extent of eczematous lesions. Active dermatitis is not necessary for the development of recurrent eczema herpeticum. Atopic dermatitis typically begins in early infancy, and individuals with this disease frequently develop other atopic manifestations later in life such as hay fever, allergic rhinitis, and bronchial asthma.3 Eczema herpeticum has also been associated with seborrhoeic dermatitis, neurodermatitis, Darier’s disease, pemphigus, mycosis fungoides, Wiskott–Aldrich disease, congenital ichthyosiform erythroderma,4 5 and second degree burns.6 The presentation in our patient is fairly typical, lesions appearing in crops initially as tiny vesicles passing through pustular and crusted phases associated with systemic symptoms. This condition is often misdiagnosed because the lesions are usually scratched and blistering is lost leaving raw punched out areas often with secondary infection. Diagnosis is based on patient history of atopic disease, presence of vesicular lesion, the striking tendency for the lesions to return to the same areas of the skin and is a positive result of viral culture for herpes simplex.

Eczema herpeticum is now being seen with increasing frequency in adults7 and herpes simplex infection should be considered in the differential diagnosis of vesicular skin lesions occurring in atopic patients.

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Pooling urine samples for PCR screening of C trachomatis urogenital infection in women

EDITOR,—Selective or universal screening for Chlamydia trachomatis infections has been suggested by the World Health Organization as a primary prevention strategy.1 2 The improved sensitivity of the nucleic acid amplification assays for the detection of C trachomatis allows the use of urine samples, suitable for screening programmes. However, these commercial assays are expensive, which make them disadvantageous for this purpose.

Therefore, some authors have recently evaluated the accuracy and cost saving of different urine pooling strategies using polymerase chain reaction (PCR) and ligase chain reaction (LCR) tests for the screening for genital C trachomatis infections, reporting encouraging results.3 4 As the pooling strategies need individual retesting of each component of a positive pool, in order to identify the positive samples the cost saving inherent to these strategies are not possible for pool size and population size dependent. For this reason, pooling may be particularly suitable when applied to low prevalence populations. On the other hand, a high number of urine samples per pool may yield a decreased sensitivity because of the dilution effect associated with pooling. Peeing al and Kacena et al have put forward a mathematical formula to estimate the number of pools that are likely to be positive given a selected pool size and population disease prevalence.5 6 Thus, it is possible to estimate the reduction on the number of tests required for a pooling strategy compared with individual testing.

The objective of this study was to evaluate a pooling urine samples strategy for screening urogenital chlamydial infection by PCR testing.

In all, 330 processed first catch urine samples (FCU) from women attending general practice clinics in Lisbon (from August 1999 to February 2000) were pooled by five into 66 pools. Pools and individual specimens were simultaneously tested using the Amplicor PCR test, according to the manufacturer’s
Table 1 Distribution of positive samples

<table>
<thead>
<tr>
<th>“+” Pools</th>
<th>Equivocal Pools (12)</th>
<th>“−” Pools (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>4</td>
<td>0</td>
</tr>
</tbody>
</table>

*Confirmed as positive pools.

Instructive results analysis (>0.2 OD, <0.8 OD) was resolved by reprocessing original plates and by retesting both pooled and individual specimens by Amplicor PCR assay.

The results are summarised in Table 1. The calculated prevalence was 5.2% (17/329). The dilution effect associated with the pooling strategy did not have any effect on either the sensitivity or specificity of the Amplicor PCR test (both 100%) and also solved the problem of PCR inhibitory substances in urine specimens (0% compared with 3.6% of individual testing). One FCU specimen was repeatedly inhibited and was excluded.

The choice for a 5x size pool model was based on the highest potential cost saving for the estimated prevalence of the studied population, according to Peeling et al and Kacena et al. According to the number of tests required using pooling and individual testing (166 and 346, respectively) the cost saving was 52% compared with the 56% obtained using the mathematical formula. The main reason for this minor difference is that the formula does not take into account the inhibited and equivocal results requiring further sample testing.

Despite the low number of studies concerning urine pooling strategies, the results obtained so far suggest that pooling FCU samples can be useful for epidemiological studies and for screening programmes.

This study was supported by the “Comissão de Fomento da Investigação em Cuidados de Saúde do Ministério da Saúde, Project 20/98” and by the “Instituto Nacional de Saúde”.

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Emergence of high level ciprofloxacin resistant Neisseria gonorrhoeae strain in Buenos Aires, Argentina

EDITOR,—The surveillance programme of Neisseria gonorrhoeae (NG) antimicrobial susceptibility patterns was implemented in 1980 in the National Reference Centre for STI (NRC).

Twenty nine peripheral STI laboratories belonging to the National Network of Argentina, distributed throughout the country, routinely send their isolates to the NRC for typing, susceptibility testing, and plasmid characterisation.

The NRC was incorporated into the WHO Gonococcal Antimicrobial Susceptibility Proficiency Testing Programme (CIPSTP) in 1993 and since then the methodology has been standardised.

From January 1993 to June 2000, the NRC determined the MICs of 1194 NG strains by the agar dilution method with the media, conditions, and controls as recommended by the NCCLS. Ciprofloxaxin range, MIC₅₀, and MIC₉₀ were 0.002–0.006, and 0.016 µg/ml, respectively.

Only one NG strain, detected in 1996, showed a decrease susceptibility to ciprofloxacin. The isolate was submitted by a public hospital from Buenos Aires city. The strain was β lactamase negative by nitrocefin disc and the MICs were penicillin 0.5 µg/ml, tetracycline 4 µg/ml, ciprofloxacin 0.125 µg/ml, spectinomycin 32 µg/ml, ceftriaxone 0.004 µg/ml, and azithromycin 0.25 µg/ml. The auxotype/serogroup class was proline requiring-WII-III.

In May 2000 the first NG strain with high level quinolone resistance (QRNG) was isolated. This strain was isolated in a private medical centre in Buenos Aires city and was submitted to the NRC; no inhibition zone was observed with a 5 µg ciprofloxacin disc.

CASE REPORT

The patient was a heterosexual man, aged 34 years, married, not a drug user, and he hadn’t travelled abroad during the past year. However, he admitted to having had sexual intercourse with a commercial sex worker, 4 days before the onset of the symptoms. He presented with a purulent acute urethritis with dysuria and was treated with a parenteral dose of ceftriaxone 500 mg and a week course of doxycycline.

The patient became asymptomatic 36 hours after the start of the treatment. Serological tests for VDRL, HIV, and hepatitis B and C were negative.

The strain was β lactamase negative and exhibited high level ciprofloxacin resistance (MIC 16 µg/ml) and low level tetracycline resistance (MIC 4 µg/ml) and was susceptible to the other antibiotics assayed. The MICs were penicillin 1 µg/ml, spectinomycin 32 µg/ml, ceftriaxone 0.25 µg/ml, and azithromycin 0.25 µg/ml. Phenotyping demonstrated a proline requiring auxotype and a WII/III serotype.

Both NG strains mentioned above displayed the same phenotypic characteristics: MICs (except for ciprofloxacin), auxotype, and serogroup.

Dorsal perforation of prepuce due to locally erosive condylomata acuminata

EDITOR,—We recently reported five patients with sexually/non-sexually transmitted ulcerative diseases complicated by perforation on the dorsal surface of the prepuce. We could find reports of only three similar cases in the indexed literature. During screening of our STD clinic files we found record of another patient with dorsal perforation of the prepuce; however, it was not due to genital ulcer disease, but to condylomata acuminata.

This patient, a 22 year old man had unprotected sexual intercourse with a commercial sex worker about 6 months before reporting to our STD clinic in January 1994. About 1 month after sexual contact, he presented with a painful, hard, elevated lesion on the prepuce; however, it was not due to genital ulcer disease.
developed small papular lesions on the glans penis. Lesions enlarged rapidly and started eroding the undersurface of the prepuce. Finally, 3 months later, the prepuce was perforated. Examination revealed a large, circular defect on the dorsal aspect of the prepuce through which multiple papulonodular, warty lesions are visible. Figure 1

Dorsal perforation of the prepuce through which multiple papulonodular, warty lesions are visible.

Urine proves a poor specimen for culture of Trichomonas vaginalis in women

EDITORS.—Trichomonas vaginalis infection occurs worldwide with an incidence of over 200 million infections annually. Clinical disease in women ranges from asymptomatic to severe vaginitis, and has been associated with preterm delivery and an increased rate of HIV-1 transmission. The vaginitis caused by T vaginalis associated morbidity, including risk of HIV-1 transmission, makes simple accurate diagnosis important especially in at-risk populations. Microscopic examination of a wet mount vaginal specimen is easy to perform but only identifies 40–60% of infections in comparison to culture. The In-pouch culture system (Biomed Inc, San Jose, CA, USA) is reported to be equally sensitive yet more practical than traditional culture systems. Women who presented later with perforation of the dorsal surface of the prepuce. They considered it as delayed podophyllin damage. Our patient had not been treated before with podophyllin. The identical presentation in our and the reported patient suggests that warts themselves and not podophyllin are responsible for perforation. Condylomas particularly in immunocompromised individuals may attain a very large size and rarely become locally invasive and destructive. 1 In our patient, however, condylomas were not very large and there was no evidence of immunosuppression. Our patient had condylomas all over the glans, but perforation took place only on the dorsum of the prepuce, confirming that this site is more susceptible to this complication.

Incidentally, two more patients with perforation on the dorsal surface of the prepuce as a complication of chancreoid and genital herpes have been depicted in A colour atlas of AIDS in the tropics. 2 Both patients were HIV seropositive. This suggests that this complication is not uncommon (though underreported), more so in tropics. HIV infection by altering the course and severity of genital lesions of sexually transmitted diseases probably makes this complication more frequent. Out of the 10 patients reported/published, half were HIV seropositive.

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Table 1 Comparison of culture for T vaginalis from centrifuged urine and self collected vagin in 675 women

<table>
<thead>
<tr>
<th>T vaginalis urine culture</th>
<th>Negative</th>
<th>Positive</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>T vaginalis self administered vagin</td>
<td>552</td>
<td>2</td>
<td>554</td>
</tr>
<tr>
<td>Positive</td>
<td>100</td>
<td>21</td>
<td>121</td>
</tr>
<tr>
<td>Total</td>
<td>652</td>
<td>23</td>
<td>675</td>
</tr>
</tbody>
</table>

Kappa = 0.256

insensitive for identification of trichomonads in women. Since only 5–10 organisms in a sample are necessary for a positive culture, these findings were unexpected. We cannot fully explain why culture of urine for T vaginalis in women proved so poor. Because of contamination of the external genitalia with vaginal fluid, a first void urine specimen might have proved a better sample.

Supported by the United States Agency for International Development, Family Health International and a grant from the National Institutes of Health (AI11443). Biomed Inc donated the In-pouch for this investigation.

Correspondents: OAM helped design and oversee the study, assisted with analysis of the data, and drafted the manuscript; CRC, designed the study protocol, analysed the data, and supervised preparation of the manuscript; DR assisted with the design and supervision of the study, and assisted with manuscript preparation; JO performed the microbiological aspects of the study and assisted with manuscript preparation; JPB supervised the laboratory aspects of the study, and assisted with manuscript preparation; MF was a co-investigator of the parent study, and assisted with manuscript preparation; MW was a co-investigator of the parent study, and assisted in manuscript preparation; DJ was the principal investigator of the parent study and assisted with manuscript preparation.

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3 Laga MA, Manohla A, Kivurul M, et al. Non-ulcerative sexually transmitted diseases as

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Guidelines for serological testing for syphilis

EDITOR,—In our area the high HIV prevalence has made the interpretation of syphilis tests particularly problematic. Coinfected patients do appear to reactivate their treponemal infection or possibly reinfection with a different “strain” in the presence of profound immunosuppression. As with some other agents IgM can persist for several years with peaks and troughs. Non-treponemal tests are uniformly negative while TPHA levels can fluctuate widely. It is perhaps unfortunate that reference laboratories may have developed their algorithms in the face of conventional syphilis diagnosis—these do little to help with HIV coinfected patients.

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Sexually transmitted infections and risk behaviours in women who have sex with women

EDITOR,—While it is comforting that some research is finally being carried out in depth on the risk of STIs among women who have sex with women (WSW),1 any conclusions drawn from this study for WSW in general do appear to reactivate their treponemal infection, and possibly reinfection with a different “strain” in the presence of profound immunosuppression. As with some other agents IgM can persist for several years with peaks and troughs. Non-treponemal tests are uniformly negative while TPHA levels can fluctuate widely. It is perhaps unfortunate that reference laboratories may have developed their algorithms in the face of conventional syphilis diagnosis—these do little to help with HIV coinfected patients.

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BOOK REVIEWS


The introduction of new screening programmes and the retention of existing screening programmes—for example, syphilis and rubella, need to be increasingly driven by cost-benefit analysis. It would also be interesting to have had some speculation about why different infections have such different vertical transmission rates and have their impact at different stages of pregnancy.

Overall, the strength of this book lies in its literature reviews. It is an extremely good summary of where we are at with perinatal infections in the year 2000. Who will find it useful? It is a postgraduate text, too detailed for undergraduates. It should be compulsory reading for obstetricians in training. I would recommend it to perinatologists, obstetricians, and genitourinary medicine physicians. It is a practical text with dosages, immunisation schedules, and treatment algorithms. It is reasonably priced. There are larger textbooks on perinatal infections costing £200, so this fills a gap in the market. Buy it and you won’t be disappointed.

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Considering we inquire about or promote the use of condoms with each and every patient we see in GU/HIV clinics, it’s extraordinary how little we know about them. “Penis protectors” have come a long way since they were used in battle, cast to size, and made from goat bladder, although “natural” condoms can still be obtained today from the caeca of New Zealand lambs. Thanks to Charles Goodyear, the birth control movement, and the HIV epidemic the condom has enjoyed a renaissance and with more stri-
gent quality control and legal standards, has become a life saving device. The chapter on latex condom manufacture was fascinating and gives almost enough detail to allow you to try it at home!

Each year 8–10 billion condoms are used worldwide although an estimated 15 billion are required to protect adequately against HIV/STDs. The chapter outlining the effectiveness of condoms in preventing STIs was clearly set out with an excellent summary table outlining data and references. There was a fascinating chapter on how the commercial sector has risen to the challenge of global condom distribution through social marketing. By using pre-existing infrastructure, supplies to Africa have increased from 45.8 million in 1987 to 264.5 million in 1990. In Thailand by targeting commercial sex workers through “the 100% condom programme” usage rates have increased from 14% in 1982–9 to 93% in 1993 with STI cases in government clinics dropping from 237 000 to 39 000. In the chapter on condoms and commercial sex there was a fabulous table summarising different condom usage rates by CSWs in developing countries.

The condom should probably receive more credit as a contraceptive device. Failure rates diminish with increasing experience and it may be a sensible long term option for some women when combined with knowledge of fertile days and progesterone only emergency contraception. There were interesting discussions on the use of condoms for anal sex, the pros and cons of non-latex condoms, female condoms (becoming increasingly popular, especially in Zimbabwe), and recent developments in spermicides and viricides.

In summary, condoms are highly effective, cheap, and largely free of side effects. This book left me with a renewed belief that they should be promoted at every opportunity and efforts to make them universally available should be promoted at every opportunity and should contain the running title on the world by region by dragging numbers across a map. In the best educational fashion, wrong answers are met with a gentle reminder of the right answer and an offer to review the section again. A glossary is just a click away should a word be unclear, and a full reference list is hidden on each page for those wanting to explore more. A separate section allows incredibly flexible searching of a rich international collection of over 700 images by keyword or text. These can then be viewed as thumbnails for rapid review, tagged for later printing, or saved in a personalised teaching set. Sneaking the illustrations onto my own 35 mm slides proved beyond my hacking ability, but I wanted to shows just how good the pictures are.

Improvements for the next edition might include updating the references with Medline abstracts (for example, offering searches for other works on the subject of interest or finding works which cite the article in question), and including more video material such as interviews with key players in the field.

On a deeper level, such an international approach to teaching HIV/AIDS fits well with the emphasis of the recent international AIDS conference on the whole HIV epidemic, not just the treatment options open to those affected by HIV in resource-rich countries. The sections on treatment reflecting mainly research and with pictures of AIDS orphans and underfunded African hospitals. That this CD-ROM left me feeling uncomfortable about the structural inequity of the world is testament to the vision of its creators.

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NOTICES

International Herpes Alliance and International Herpes Management Forum
The International Herpes Alliance has introduced a website (www.herpessalliance.org) from which can be downloaded patient information leaflets. Its sister organisation the International Herpes Management Forum (website: www.IHMF.org) has launched a website (www.herpesalliance.org). Its sister organisation the International Herpes Alliance and International Herpes Management Forum (ICID) in Buenos Aires.

Pan-American Health Organization, regional office of the World Health Organization
A catalogue of publications is available online (www.paho.org). The monthly journal of PAHO, the Pan American Journal of Public Health, is also available (subscriptions: pubsvc@spip.org).

International Symposium on Disorders of the Prostate, 21–23 March 2001, Castres, France
Further details: Dr Mike Briley, Scientific Director, Pierre Fabre Medicament, Parc Industriel de la Chartreuse, F-81106 Castres Cedex, France (tel: +33 563 174 501; fax: +33 563 725; email: briley@pierre-fabre.imagenet.fr).

Call for papers—6th European Forum on Quality Improvement in Health Care, 29–31 March 2001, Bologna, Italy
Further details: BMA/BMJ Conference Unit, BMA House, Tavistock Square, London WC1H 9JP, UK (tel: +44 (0) 20 7383 6490; fax: +49 30 204 500 41; email: quality@bma.org.uk; website: www.quality.bmj.com).

Joachim Kuhlmann AIDS award 2001
The Joachim Kuhlmann AIDS Foundation, Essen, Germany, is awarding the above mentioned prize to investigators in the field of clinical and scientific HIV work. The prize is valued at 50 000 DM.

Further details: ECEAR 2001 Conference Secretary, Division of Retrovirology, NIBSC, Blanche Lane, South Mimms, Potters Bar, Herts, EN6 3QG, UK.

International Congress of Sexually Transmitted Infections, 24–27 June 2001, Berlin, Germany
Further details: Congress Partner GmbH, Krausenstrasse 63, D-10117, Berlin, Germany (tel: +49-30-204 500 41; fax: +49-30-204 500 42; email: berlin@cpb.de).

10th International Congress on Behçet’s Disease will be held in Berlin 27–29 June 2002
Further details: Professor Ch Zouboulis (email: zoubbere@zedat.fu-berlin.de).

20th World Congress of Dermatology, Paris, 1–5 July 2002
Further details: P Fournier, Colloquium, 12 rue de la Croix St Faubin, 75011 Paris, France (tel: +33 1 44 64 15 15; fax: +33 1 44 64 15 16; email: p.fournier@colloquium.fr; website: www.derm-wcd-2002.com).
Urine proves a poor specimen for culture of Trichomonas vaginalis in women

Omari A Mohamed, Craig R Cohen, Dorcas Kungu, Maureen A Kuyoh, James A Onyango, Job J Bwayo, Mike Welsh and Paul J Feldblum

Sex Transm Infect 2001 77: 78-79
doi: 10.1136/sti.77.1.78

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