Report of the Honorary Secretary to the 79th annual meeting of MSSVD held at the Royal Society of Medicine, Friday 27 October 2000

My final year as Honorary Secretary to MSSVD is now drawing to a close. The final challenge I set myself is to have circulated a summary of the main activities of the society including accounts and financial report in advance of the annual general meeting. It has required the hard work of the officers of the society, the secretariat and finance department at the RSM, and Graham Tomlinson, charitable governance adviser. The annual report was printed in November and circulated to members.

There are now 657 UK members of the society, with 101 overseas members and 31 honorary life members, 21 of whom are resident in the United Kingdom. There were 62 new members last year, of which 34 were nurses and health advisers. There are a number of MSSVD members to whom we paid tribute. These included Dr Ratnatunga; Dr George Csonka; Dr Christine Green, infectious disease consultant at Sheffield; and Dr Andrew Crooks. January 21 was a particularly sad occasion for the society when Maggie Godley sadly died following her two year illness. She will be remembered for all the work she put into running both MSSVD and AGUM and for her care and support as a fellow human being. Her husband has agreed to a memorial, which will be in the form of a prize given in memory of Maggie Godley.

The past year has seen an even more rapid growth in the number of MSSVD members to whom we paid tribute. These included Dr Ratnatunga; Dr George Csonka; Dr Christine Green, infectious disease consultant at Sheffield; and Dr Andrew Crooks. January 21 was a particularly sad occasion for the society when Maggie Godley sadly died following her two year illness. She will be remembered for all the work she put into running both MSSVD and AGUM and for her care and support as a fellow human being. Her husband has agreed to a memorial, which will be in the form of a prize given in memory of Maggie Godley.

The six special interest groups have submitted business plans to the treasurer for their educational activities for 2000–1. A proposal for a further special interest group of Adolescent sexual health has been accepted by council and will be submitting a business plan.

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MSSVD National Continuing Professional Development course in GU Medicine/HIV/AIDS

This year the MSSVD took over the running of this course, previously known as BPMF, latterly the CPD course run by University College, London. The steering group is chaired by Dr Jackie Sherrard. This is a new and challenging venture for the society. The aim will be to offer a reduced price for MSSVD members on courses arranged by MSSVD. There has also been discussion about the need for a more basic course directed at primary care physicians, healthcare workers working in contraceptive services, and others providing sexual health services to complement the DFFP run by the Faculty of Family Planning and Reproductive Health Care (FFPRHC). Over the next year a core curriculum will be developed and the course piloted. The intention is to deliver this on a regional basis.

Special interest groups

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Doctors in training meeting

Last year the meeting was held in the president’s home city of Sheffield. Although the standard of hotels fell short of expectations, the scientific programme was well received and the skill workshops of personal image and communication skills provided direction to the consultants of tomorrow. The local cabaret of Karen Daniels, Mary Stevenson, and Stephen Green, infectious disease consultant at Sheffield, entertained us on Saturday evening. Pfizer kindly sponsored the event.

MSSVD undergraduate prize

This was awarded as follows: clinical prize to Dr Daniel Jary, “Why do young people still catch STDs?”

Other MSSVD activities

The changes in provision of medical care driven by government have made a significant impact on the day to day activities of all healthcare workers. Key issues that have been discussed at council have included charitable...
governance, funding of sexual health services, BMA AIDS foundation, “Access to clinics” report for CMO, liaison with FFPHRHC, and reciprocal CME.

The Sexual Health and HIV Strategy due to report in early 2001 may have a significant impact on services providing sexual health care. The challenge for our specialty is to be at the forefront of these changes, being part of the broader picture and outward looking into the communities which we serve, in contrast to a more passive approach of waiting for the “at-risk” population to come to us. This requires a critical look at the way services are provided at present and opportunities for providing them in a more efficient way. Our strengths, particularly with regard to health promotion, partner notification, accessibility and skills in communicating with young people, need to be increased and marketed. We are fortunate to have at the helm of MSSVD an extremely proactive president with strategic vision and a grip on operational aspects of running sexual health services. I am delighted that the work which has been undertaken over the 4 years since I have been Honorary Secretary will continue, be refined, and changed according to political imperatives and the needs of people accessing our services. I wish Keith Radcliffe as my successor good fortune and thank him and the treasurer and president for all the help and encouragement that they have proffered over the last year.

Finally, my thanks to all fellows and members for their continuing support to the MSSVD and to me personally over these past 4 years.

ANGELA J ROBINSON
Honorary Secretary

LETTERS TO THE EDITOR

Papulonecrotic tuberculide of the glans penis

EDITOR,—A 27 year old promiscuous, married man presented with recurrent episodes of ulceration of the penis of 12 years’ duration. Each episode began with a painful small raised lesion which got ulcerated and finally healed spontaneously in 2–3 months. The present episode of painful ulceration had been lasting for 6 months or so. In spite of various treatments received from various private practitioners, his genital sore did not respond.

On physical examination, this moderately nourished individual had a single well defined ulcer on the glans penis near the urethral meatus, measuring 8 × 5 mm. The edge of the ulcer was undermined and its floor had necrotic slough. The ulcer had perforated deeply into the urethra, resulting in dribbling of urine through it (fig 1). Multiple puckered scars over the glans penis circumferentially, just distal to the coronal sulcus, were evidence of previous episodes of similar ulcerations. The inguinal lymph nodes were not significantly enlarged. His systemic examination was unremarkable.

The haemogram revealed a raised erythrocyte sedimentation rate (64 mm in the first hour). The Mantoux test was strongly positive (20 × 20 mm). VDRL and HIV serology were non-reactive. Radiological investigations did not demonstrate any focus of tuberculosis in the chest or genitourinary system. Smear and culture of discharge from the ulcer and also of urine for acid fast bacilli were negative. Histopathological examination of the ulcer (glans penis) revealed ulcerated epidermis. In the deep dermis, by the side of the ulceration, there were caseating tuberculous granulomas along with perivascular inflammatory infiltrate with vessel wall thickening and endothelial cells swelling. Fite’s stain for acid fast bacilli was negative. These features were consistent with the diagnosis of papulonecrotic tuberculide.

Even though it is considered to be rare, tuberculides of the penis may manifest as primary, secondary, or papulonecrotic tuberculide type. Clinically, it may present as superficial ulcers of the penis or tuberculides cavernositis. Papulonecrotic tuberculide, a form of cutaneous tuberculosis, represents an allergic reaction to bursts of antigens reaching highly immune skin following haematogenous spread from an internal focus. The tuberculides cavernositis is often not clinically active at the time of eruption as seen in our case. The diagnosis of papulonecrotic tuberculide in our case was based on the well laid down criteria.

Papulonecrotic tuberculides are mostly extragenital, but rarely genitalia may be involved. Sometimes, the glans penis alone may be involved as in our patient and then diagnosis becomes difficult. Under these circumstances, it needs to be differentiated from atypical soft sore, syphilis, recurrent herpes simplex, and malignant ulcer. The diagnosis of such cases rests on biopsy, tuberculin testing and, in doubtful cases, a therapeutic test is usually decisive. The possibility of tuberculides as a cause of chronic ulcer on the penis has to be kept in mind especially in countries like India, where tuberculosis is still prevalent.

Table 1 Mean total and subscale scores for Attitudes to Lesbian and Gay Men (ATLG) Questionnaire

<table>
<thead>
<tr>
<th></th>
<th>Male (n=86)</th>
<th>Female (n=123)</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATLG mean (range)</td>
<td>69.0 (20–176)</td>
<td>56.0 (20–142)</td>
<td>0.003</td>
</tr>
<tr>
<td>ATG* mean (range)</td>
<td>40.9 (10–90)</td>
<td>31.8 (10–62)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>ATL mean (range)</td>
<td>28.4 (10–90)</td>
<td>24.2 (10–80)</td>
<td>0.03</td>
</tr>
</tbody>
</table>

*ATG = Attitudes to Gay Men.
†ATL = Attitudes to Lesbians.
results are presented in table 1. The majority of the sample displayed positive attitudes to lesbians and homosexual men with female students exhibiting statistically more positive views especially in relation to homosexual men. However, a significant minority of men (11.8%) exhibited extremely negative atti-
dudes to homosexual men.

We are encouraged by these results which are contrary to much of the published data on attitudes among physicians, nurses, and medical and non-medical students. However, we must continue to challenge negative attitudes as studies show that teaching and promoting tolerance can result in change. Otherwise difficulties with disclosure in medical settings will continue to impact on provision of health care to WSW and homo-
osexual men and further hamper research in this area.

Questionnaires and postal research: more than just high response rates

EDITOR,—In the recent editorial by Bates and Rogstad1 the authors describe the problems associated with conducting postal research, including response rates, use of incentives, bias, mailing clinical specimens, and ethical issues. They would like to add that there are other important issues to consider when undertaking questionnaire research.

The effectiveness of incentives to increase response rates remains controversial. Kalantar and Talley2 recommend using a lottery incentive as it increases response rates after the first mailing. However, differences between groups were not large, and decreased during follow up and disappeared by the fourth mailing. Koloski et al found that the use of lottery tickets increase response rates, but may be limited when using them with long questionnaires (32 pages). Moreover, they compared the length of questionnaire (28 e 32 pages) which, while being different, did not reach statistical significance.

The most important aspect of postal research is the questionnaire itself! While high response rates are desirable, it is critical that the information provided by participants is of high quality. The quality of the data may differ between short and long questionnaires and to our knowledge this has never been validated. When participants fill out a long questionnaire they may rush or mark incorrect responses purely because they have lost interest because of the length of the question-
naire. Conversely, if a questionnaire is too short, it may be deemed “unimportant” and not worth completing.

The real question is, is there any real difference in the size of the length of the questionnaires used in this study? In com-
parison with a four or 10 page questionnaire they are still long. Studies are lacking which highlight the threshold or optimal length of questionnaires.

Figure 1 shows a theoretical model of how response rate may perform according to questionnaire length. Part A represents low response rates due to questionnaires of short length; part B is the optimal questionnaire length giving the best response rate; and part C shows the poor response rate due to ques-
tionnaires of excessive length.

The presentation of the questionnaires will also influence the response rates to postal surveys. Questionnaires that are profession-
ally printed and designed are more likely to be taken seriously by participants compared with two pages stapled together.

Other reasons for an increased response rate include the importance of assuring participants of their confidentiality and this can improved even further if the steps taken to keep subject data confidential is explained. Respondents may want or expect their answers to be treated strictly in confidence, especially if the topic area is threatening or embarrassing. The researcher should not promise greater confidentiality than he/she can provide remembering that coders and data processors may have access to the infor-
mation.

Ethics of repeated follow ups is of concern. Some individuals do not like receiving multi-
ple mailouts and this can be a problem if they complain. The respondents’ privacy and dign-
ity should be respected. A dilemma may sometimes arise when the need for the researcher to obtain the “informed” consent of respondents conflicts with the need for respondents not to know so much that the results are biased.

One thing is certain; the greater the number of follow ups completed the higher the response rate will be. There can be prob-
lems associated with undertaking multiple follow ups, particularly when individuals complain about the number of letters and/or questionnaires they receive. However, this can easily be solved by stating on the initial cover letter if they do not wish to be contacted further to contact the researcher and tell them so they can be removed from the mailing list. By using some of these tech-
niques researchers should be able to obtain increased response rates and higher quality questionnaire data.
EDITOR,—Those who have spent some time sexually shared infections human papillomavirus (HPV) types. STDs other than HPV are also associated with an increase in the risk of developing vulval neoplasia. The presence of antibodies to HSV type 2 has been implicated as a risk for cervical pathology but a role for HSV in vulval neoplasia is unclear. Vulval basal cell carcinoma presenting as culture negative genital herpes has been reported. In our case the carcinoma was culture positive for HSV; this may have been due to new infection or to reactivation of pre-existing HSV in the presence of malignancy. This case highlights the need for biopsy of herpetic lesions which fail to respond to standard therapy.

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Correspondence to: Dr Rogstad


Accepted for publication 12 January 2001

Sexually shared infections

EDITOR,—Those who have spent some time in genitourinary medicine will surely agree that the specialty has gone through vast changes over the years. Not only the nomenclature of our clinics from VD clinics or special clinics to psychosocial health departments but also the name of our specialty itself is nice. Like sharing the tender moments, always thought that you “share” something that is nice. Like sharing the tender moments, sharing the cake, British Airways share offer when it floated on stock market, etc.

When I mentioned the “shared” element she fumed, “It was him who gave me this in the first place and he wouldn’t get treatment himself because he felt OK.” English is not my first language but I always thought that you “share” something that is nice. Like sharing the tender moments, sharing the cake, British Airways share offer when it floated on stock market, etc.

Sharing an STI to me sounds a bit awkward.

In my opinion people transmit the infections knowingly or unknowingly because of their high risk sexual behaviour. It does not matter if we try to play this down and make it acceptable. There always will be some stigma attached to STIs but we should ensure awareness, patient education, and partner notification. I believe this should be done by professionals in a confidential setting in a genitourinary medicine clinic. Changing the terminology about the mode of transmission will not eliminate the stigma attached to STIs but the more open we are about infections the better it will be for our patients.

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Deterioration of disseminated cutaneous Mycobacterium avium complex infection with a leukaemoid reaction following institution of highly active antiretroviral therapy

EDITOR,—The impact of highly active antiretroviral therapy (HAART) on the incidence of opportunistic infections (OI) in HIV infected patients has been well documented. HAART also frequently alters the clinical course of OI. Increasingly, immune reconstitution disease is recognised after starting HAART in patients with latent or established OI. Despite the marked reduction in incidence of disease due to Mycobacterium avium complex (MAC) in the HIV infected population over the past 5 years, this OI is often implicated in immune reconstitution disease and may be difficult to treat. Focal mycobacterial lymphadenitis appears to be the commonest manifestation, but other organs may be involved.

A 40 year old white HIV positive man presented with Staphylococcus aureus tricuspid valve endocarditis; blood cultures also grew MAC. He had a history of cutaneous Kaposi’s sarcoma and oesophageal candidiasis. After inpatient treatment of the endocarditis he defaulted from outpatient follow up.

Five months later he re-presented with a 3 month history of fever, cough, malaise, and painless skin lesions on both arms and legs. Examination showed multiple dermal papules and nodules. A skin biopsy has been performed on the right shin. (B) Five days after re-presentation. Medial aspect of left ankle. There are two erythematous lesions, which were tender to touch. Both have a pustular centre.

Kaposi’s sarcoma and oesophageal candidiasis. After inpatient treatment of the endocarditis he defaulted from outpatient follow up. Five months later he re-presented with a 3 month history of fever, cough, malaise, and painless skin lesions on both arms and legs. Examination showed multiple dermal papules and nodules with necrosis and some scarring (fig 1A). The CD4 count was 10 cells × 10^9/l and the HIV viral load 202 300 copies/ml. Skin biopsy revealed multiple poorly formed granulomata; numerous acid fast bacilli (AFB) were seen and MAC was subsequently cultured from skin, sputum, urine, and blood. He was treated with rifabutin, clarithromycin, ethambutol, and isoniazid; treatment was reduced to clarithromycin and ethambutol alone, after 6 weeks when the mycobacterium was speciated. HAART, ...
BROWN

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Accepted for publication 29 January 2001

Detection or treatment: which outcome measure?

EDITOR.—The report by Rogstad et al is a timely description of the problems associated with the management of patients diagnosed with genital chlamydial infection within and between established healthcare settings. The inappropriate or inadequate treatment, low rate of partner notification, and lack of referral to gynaecological or genitourinary medicine (GUM) clinic described were similar to the observations made in two recent studies. An investigation in Merseyside family planning clinics (FPC) showed that of 80 infected patients identified (n = 958) only 34% were treated within 1 month of diagnosis, 24% had no proof of treatment, and 13% never found out they were infected. Similarly, a study of 112 women diagnosed with Chlamydia trachomatis attending FPCs showed that only 48% were known to have been treated 3 months after the test had been carried out. If diagnosis does not result in immediate treatment, patients can be lost to follow up. In turn, this can result in poor rates of partner notification, an increased likelihood of further transmission, a reduction in the impact of testing on disease incidence, and an increased risk of complications. In GUM clinics, diagnosis generally results in treatment and consequently surveillance data derived from this setting, the KC60 dataset, can be used as a measure of treatment success. In contrast, the above studies suggest that a proportion of diagnoses made in primary care may not be treated. This questions the validity of using diagnosed infection as an outcome measure for evaluating sexual health interventions in primary care. It also emphasises the significant role of clinical audit in the improvement of the quality of patient management.

Ultimately the effectiveness of intervention should be measured in terms of a reduced prevalence of pelvic inflammatory disease and associated sequelae. However, other more pragmatic outcome measures may need to be used. The UK NHS Ch trachomatis screening pilot is evaluating the feasibility and acceptability of opportunistic screening in primary and secondary healthcare settings in two health authorities. Three of the primary outcome measures that are being evaluated are the number of positive diagnoses, the proportion of the positive diagnoses treated, and the rate of patient or provider led partner notification. In the pilot, patient management has been improved by recalling positive patients to a community office staffed by GUM health advisers. Preliminary data indicate that out of 900 positive patients identified through the Wirral arm of the pilot, treatment was subsequently offered to 40 (4.4%) patients. Separate studies in Liverpool are also evaluating how patient management could be enhanced by GUM health advisers working in outreach sessions in a community FPC (AMCW) and a department of obstetrics and gynaecology (IGT—submitted to British Journal of Family Planning). Results from these studies will provide further evidence to guide the development of patient management and the outcome measures that could be used to assess future intervention strategies.

SIMMS Communicable Disease Surveillance Centre

HALLINSON Liverpool Public Health Laboratory

HOPWOOD NHS Chlamydia Screening Pilot

WEBB North Mersey Community NHS Trust

FENTON Communicable Disease Surveillance Centre and Department of STDs, Royal Free and University College Medical School

Obituaries

EDITOR.—The obituaries of three physicians, Ambrose King, Eric Dunlop, and David Oriel, appeared in quick succession in your columns.

By the time I started training in venerology, as it was then called (not a bad name incidentally because it means the science of the act of love which encompasses STIs, colposcopy, HIV disease, and sexual dysfunction) at the Whitechapel Clinic of the London Hospital in 1973 Ambrose King had already left. However, the clinic still sparked (not physically you understand) from his inspirational radiance and he was spoken of in hushed, reverential tones.

Eric Dunlop was the senior physician at that time. To a very junior doctor he was literally an awe inspiring figure. By today's standards he did not educate or teach. Rather you were well aware that he had laid a "golden egg" and that there was a touch of colour and brilliance in his research work and lectures. I was taught basic day to day venerology by the senior charge nurses at that department. Eric Dunlop's meticulousness was legendary. We took nine specimens from each woman to screen for Chlamydia trachomatis (including three cervical curettages) and his trichromatic biopsy called for genital swabs and a cervical biopsy. This meticulousness transferred itself to one's own attitude to research, and many of us also aspired to achieve Eric Dunlop's larger than life persona and facility for developing newer ideas (never really worked for me after all).

I later worked for David Oriel. He made advances by quietly yet relentlessly pushing away at the broad front of research and clinical medicine. He was attracted by many of the sensible, practical, theories of many of our American colleagues—for example, benzathine penicillin for syphilis, doxycycline for chlamydia, which were far from routinely practised in the United Kingdom at that time. David Oriel also insisted on each set of clinic notes being audited on a daily basis. This was in 1978, well before clinical audit became routine.

Both Eric Dunlop and David Oriel were wholly generous and encouraging to a young...

Over the years, many books on the use of antimicrobials in the treatment of infectious disease have been written. Although few of these books have a subtitle implying that resistance will be specifically dealt with (as with this book), most of them by necessity write about this topic. I approached this book with a degree of cynicism, expecting to find the same tales retold in the same formulaic way. The first part of the book was not what I expected and I was pleasantly surprised. The first seven chapters dealt with the science of resistance generally, and then with specific examples, in a way that was informative and relevant to many clinicians. These early chapters also information on epidemiology, public health measures, and vaccination that are relevant to managing the problems of resistant organisms. Although this is a multi-author book, there seemed to be more consistency in approach and writing in these early chapters than those found later. The latter part of the book was little more than the systems based summary of antimicrobial use found in so many books.

As is to be expected with a book written by American authors, there are differences in practice from that in the United Kingdom: recommendations for treatment of community-acquired pneumonia differ from those of the British Thoracic Society; recommendations for the treatment of infective endocarditis differ from those of the BSAC Working Party. Although generic drugs, some of these are different (although comparable) from those we would use in the United Kingdom. The authors frequently recommend the use of trimethoprim-sulfamethoxazole; because of the risk of sulphonamide toxicity, the CSM only recommends the use of this combination for specific indications in the United Kingdom. The chapter on meningitis the authors do not recommend the immediate use of penicillin until clinical suspicion (UK guidance). The controversy of use of antibiotics in the treatment of infective diarrhoea is not discussed. Most importantly, the adverse effects of using antibiotics in shigellosis in children and EHEC infection are not mentioned.

The chapters on the treatment of sexually transmitted infections and HIV are short for a specialist reader, and there really should have been a separate chapter on hepatitis. I doubt there is much in this book that the established GUM clinician or scientist will find helpful. The trainee GUM physician may be confused or misled.

R S MORTON

BOOK REVIEWS


This is a follow up on the author's 1976 Report on Female Sexuality. It confirms the findings of her earlier report on American women and includes a "postscript" which reports similar findings in UK, Australian, and New Zealand women. The emphasis is on orgasm frequency.

In the American part of the study three versions of a questionnaire (labelled I, II, and III) augment the earlier 1972-6 study (labelled IV). Altogether, the number of questionnaires distributed was 100 000 with 3019 returned. The number of questionnaires I, II, and III returned was 1844. Replies received from UK, Australian, and New Zealand women to questionnaire IV numbered 511. The author claims that, especially, questionnaires I, II, and III give a true representation of women of all ages and occupations. The figures are presented partly in the text and by detailed appendices. The text provides detailed individual quotes in abundance on all aspects of female sexuality and orgasm.

In brief, there is little new to report. Masturbation remains the surest source of orgasms in single and multiple. Orgasm "rarely" occurs during intercourse without additional stimulation. Most women were willing to accept sex with a man even if she did not reach orgasm with him. Lesbianism was a regular source of orgasm for a few women but many more would "like to try" such a relationship.

From the answers to questions and the personal views presented by women, it is clear that the majority support Hite's view that a "sexual revolution" is needed. They see the way forward as through greater openness. There is a need to destroy double standards—for example, the concept that "women, in contrast with men, are not respectable. In addition, it is clear women would like it noted that they would appreciate the pattern and definition of sex to include greater diversity. Sexual intercourse on its own is not enough for many. Greater diversity is called for. In other words women's desires and needs, not least in achieving orgasm more regularly, need to be taken into account.

By way of summary, Hite calls for greater dissemination of data regarding the anatomical basis and the physiology of female orgasm with emphasis on the role of the clitoris. In her revolutionary terms she sees orgasm as a metaphor for women's power in society.
Quality Council (Australia), NSW Health (Australia) and Ministry of Health (New Zealand). Further details: quality@bma.org.uk; fax +44 (0) 7383 6869.

41st St Andrew’s Day Festival Symposium on Therapeutics
The 41st St Andrew’s Day Festival Symposium on Therapeutics will be held on 6–7 December 2001 at the Royal College of Physicians of Edinburgh. Further details: Ms Eileen Strawn, Symposium Co-ordinator (tel: 0131 225 7324; fax: 0131 220 4393; email: e.strawn@rcpe.ac.uk; website: www.rcpe.ac.uk).

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).

5th World Congress of Perinatal Medicine, 23–27 September 2001, Palau de Congressos de Barcelona - Avda Maria Cristina s/n, Barcelona, Spain
Further details: Dr Francesc Figueras, Congress Promotion Secretary (fax: +34.93.451.74 38; www.perinatology2001.com).

Second International Conference on Sexual Health, to be held in Bangkok, Thailand on 23–28 February 2002. Calls for abstracts deadline 1 September 2001
Further details: European Secretariat, Dr Richard Burack (tel: +44 (0) 20 8599 8029; email: siamcare@aol.com).

20th World Congress of Dermatology, Paris, 1–5 July 2002
Further details: P Fournier, Colloquium, 12 rue de la Croix St Pauvin, 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).
Sexually shared infections

Ravi Gokhale

Sex Transm Infect 2001 77: 149
doi: 10.1136/sti.77.2.149

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