Correspondence

Letters should not exceed 400 words and should be typed double spaced (including the references) and be signed by all authors

TO THE EDITOR, *Genitourinary Medicine*

Penicillinase producing gonococci: a spent force?

Sir,

The experience of Ison *et al* of penicillinase producing *Neisseria gonorrhoeae* (PPNG) being a spent force in London¹ is echoed in Leicester, where we have seen a dramatic fall in cases since 1983. In that year we saw a total of 68 new patients infected with PPNG strains out of a total of 555 cases of gonorrhoea, and during March 1983 the proportion of gonorrhoea caused by PPNG strains was 31%. The initial epidemic was quelled by careful contact tracing and appropriate chemotherapy with spectinomycin, ampicillin, probenecid, or augmentin.

Since then the number of PPNG strains has decreased, so that in 1986 we saw only five cases, and so far in 1987 there have been three cases. We feel that despite the valiant effort on the part of the gonococcus to adapt itself to a changing world, it too will soon be joining the treponeme in "the second division" of genitourinary medicine.

Yours faithfully,

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Reference

- 1 Ison CA, Gedney J, Harris JRW, Easmon CSF. Penicillinase producing gonococci: a spent force? *Genitourin Med* 1986;62:302-7.

TO THE EDITOR, *Genitourinary Medicine*

Oropharyngeal carriage of *Neisseria gonorrhoeae* and its response to treatment in patients with anogenital infection

Sir,

The prevalence of pharyngeal gonorrhoea in the United Kingdom remains unclear. In some areas, however, prevalences of 10% in women, 4.2% in heterosexual men, and 27.3% in homosexual men have been reported.^{1,2} Several studies have shown that stan-

dard single dose regimens used to treat genital gonorrhoea are ineffective against pharyngeal infection.^{3,4} The present study was undertaken to clarify the prevalence of pharyngeal gonorrhoea in patients in Liverpool with anogenital gonorrhoea, and to assess the role of oral sexual practices in the pathogenesis of this condition.

Throat swabs were obtained from 338 women, 202 heterosexual men, and 18 homosexual men with anogenital gonorrhoea. *Neisseria gonorrhoeae* was isolated from 16% (55/338) of women, 6% (12/202) of heterosexual men, and 28% (5/18) homosexual men. Of those who practised oral sex, the pharyngeal prevalence was 37% (49/134) in women, 14% (10/71) in heterosexual men, and 27% (4/15) in homosexual men compared with 3% (6/204) in women ($p < 0.001$), 2% (2/131) in heterosexual men ($p < 0.001$), and 33% (6/18) in homosexual men ($p > 0.50$) who did not practise oral sex.

We did not find any significant difference in sensitivity to antibiotics between pharyngeal and anogenital isolates. The minimum inhibitory concentration (MIC) of penicillin was < 0.125 mg/l in 86% (62/72) isolates, and the MICs of oxytetracycline, spectinomycin, and erythromycin were < 2 mg/l, < 20 mg/l, and < 1 mg/l respectively. None of the pharyngeal isolates were β lactamase producing strains.

The differences in response to treatment between men and women were small and not significant. Of 62 patients who received single dose regimens, eight (13%) failed to return for follow up. Of those who were treated with single dose regimens, the pharyngeal infection persisted in 39% (11/28) of patients treated with spectinomycin 2 g, 40% (8/20) of those treated with procaine penicillin 1.2 MIU and probenecid 1 g, and 25% (1/4) of those treated with amoxycillin 3 g plus probenecid 1 g.

Patients in whom single dose regimens had failed were treated with oxytetracycline 250-500 mg four times a day for seven days (12 patients), co-trimoxazole two tablets three times daily for seven days (four patients), or erythromycin 250-500 mg four times a day for seven days (three patients). The failure rates were 17% (2/12) with oxytetracycline and 25% (1/4) with co-trimoxazole regimens, whereas the pharyngeal infection

persisted in all three patients treated with erythromycin.

In one patient the pharyngeal infection persisted despite five successive courses of treatment, with spectinomycin 2 g, cefotaxime 1 g and 2 g plus probenecid 1 g, procaine penicillin 4.8 MIU plus probenecid 1 g, and oxytetracycline 500 mg four times a day for seven days. The infection was finally treated successfully with co-trimoxazole four tablets twice daily for four days.

The reasons for the differences in response to treatment between pharyngeal and anogenital sites are not clear. The role of oral microbial flora in the bioavailability of antibiotics, as well as the tissue and salivary concentrations of antibacterial agents achieved after single dose treatment require further evaluation.

We conclude that orogenital sexual practices play an important part in the pathogenesis of pharyngeal gonorrhoea. Throat swabs should therefore be taken from all patients suspected of having gonorrhoea, including heterosexuals who practise oral sex. All patients with pharyngeal gonorrhoea should be followed up to ensure cure, as the current standard single dose treatment regimens used to treat anogenital infections may fail to eradicate pharyngeal gonorrhoea. Our high default rate (13%) after initial treatment emphasises the need to find a suitable single dose regimen that will eliminate *N gonorrhoeae* from the oropharynx as well as anogenital sites.

Yours faithfully,

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References

- 1 Kinghorn GR, Rashid S. Prevalence of rectal and pharyngeal infection in women with gonorrhoea in Sheffield. *Genitourin Med* 1979;55:408-10.
- 2 Sulaiman MZC, Bates CM, Bittiner JB, Dixon CA, Slack RCB. Response of pharyngeal gonorrhoea to single dose penicillin treatment. *Genitourin Med* 1987;63:92-4.
- 3 Bro-Jorgensen A, Jensen T. Gonococcal pharyngeal infection. Report of 110 cases.

Notices

Organisers of meetings who wish to insert notices should send details to the editor (address on the inside front cover) at least eight months before the date of the meeting or six months before the closing date for application.

Second international lesbian and gay health conference

The second international lesbian and gay conference and AIDS forum will be held on 20–26 July 1988 at the Boston Park Plaza Hotel and towers in Boston, Massachusetts, USA. The conference is sponsored by the British Gay Medical Association and the American National Lesbian and Gay Health Foundation, the American Association of Physicians for Human Rights, and the George Washington University Medical Centre.

The overall goal of the conference is to constitute an international and national agenda for the next decade and will include topics such as sexual health, mental health issues, and holistic health care.

Further details can be obtained from: NLGHF/AAPHR Programming Committee, P O Box 65472, Washington DC 20035, USA.

Australian and New Zealand conference on sexually transmitted diseases

An Australian and New Zealand conference on sexually transmitted diseases will be held on 25 to 27 August 1988 at the University of Melbourne, Melbourne, Victoria, Australia.

For further information please contact: The Manager, National Australia Bank Ltd Travel Groups/Incentives, 271 Collins Street, Melbourne, Victoria, Australia 3000.

Courses on the acquired immune deficiency syndrome (AIDS)

The Royal College of Physicians of London is organising courses to train general physicians who will be concerned in the care of patients with AIDS. Each course will last for one week (Mondays to Fridays); mornings will be spent at the College and afternoons at one of four hospitals with major AIDS centres in London (St George's, St Mary's, St Stephen's, and the Middlesex). Numbers on each course will be limited to 20, with groups of five attending each hospital. The fee will be £90, and buffet lunch at the college each day and coffee or tea are included.

Starting dates and closing dates for applications are as follows:

Week starting	Closing date for applications
1988	
5 September	26 July
21 November	10 October

For further details and application form, please contact: The Assistant Registrar, Royal College of Physicians, 11 St Andrew's Place, Regent's Park, London NW1 4LE (tel: 01 935 1174).

Institut Alfred Fournier Prix de l'Association des Anciens Élèves et Compagnons, 1988.

Deux prix d'un montant de fr 15 000 chacun destinés à récompenser un travail original ou un ensemble de travaux, dans le domaine des maladies transmises par voie sexuelle (MST), —l'un en sciences fondamentales —l'autre concernant le ou les sujets suivants: Épidémiologie—Biologie—Clinique—Thérapeutique

Les candidats devront adresser le texte de leur travail définitif, dactylographié et rédigé en français, présenté sous forme d'une publication, en six exemplaires, avant le 15 Septembre 1988.

La remise solennelle des Prix 1988 se fera lors de l'Assemblée Générale de l'Association des Anciens Élèves et Compagnons d'Alfred Fournier, en Novembre 1988.

Pour toute demande de renseignements et envoi de candidature, s'adresser au: Secrétariat de l'Association, Institut Alfred Fournier, 25 Boulevard Saint-Jacques, 75680 PARIS CEDEX 14, (Tel: (1) 45 65 27 77).

Corrections

We regret that errors occurred in three letters from P Fisk and colleagues. Corrections are as follows.

Aetiology of urinary symptoms in sexually active women

(April 1987;63:137)

Specimens were taken from the urethra and cervix for *Neisseria gonorrhoeae* and *chlamydiae* and from the vagina for *Trichomonas vaginalis* and *Candida* spp.

How to maximise a limited chlamydial culture service

(December 1987;63:398–9. Coauthor DTP Evans.)

The heading of table 1 should have shown the reason for the chlamydial test being performed, not the reason for patients attending, and the number of controls was 90, rather than the 100 mentioned in the text.

Penicillinase producing gonococci: a spent force?

(February 1988;64:64. Coauthor Andrew Lewis.)

The chemotherapy given was spectinomycin or ampicillin, probenecid, and augmentin.

Authors of letters for publication are reminded that correspondence should be presented in the same way as papers, as outlined under **Advice to authors** on the inside front cover of the journal. It should be double spaced (including references), tables should have headings and be typed on separate pages, and it should be sent with a separate covering letter.