

GENITOURINARY MEDICINE

Editor:
Mohsen Shahmanesh (Birmingham)
Associate Editors:
Chris Carne (Cambridge)
Frances Cowan (London)
Jorma Paavonen (Helsinki)
Raj Patel (Southampton)
Anton Pozniak (London)
Thomas Schulz (Liverpool)
Chris Sonnex (Cambridge)
Jonathan M Zenilman (Baltimore)

Editorial Board:
M W Adler (London)
Rhoda Ashley (Seattle)
S E Barton (London)
H Birley (Liverpool)
R Brettie (Edinburgh)
R C Brunham (Winnipeg)
M Catchpole (London)
R Chan (Singapore)
V Chandeying (Songkla)
J M Douglas (Denver)
L M Drusin (New York)
A Eichmann (Zurich)
B G Gazzard (London)

K K Holmes (Seattle)
Catherine Ison (London)
G Kinghorn (Sheffield)
P K Kohl (Heidelberg)
C J N Lacey (Leeds)
Marie Laga (Antwerp)
A S Latif (Harare)
D Mabey (London)
A McMillan (Edinburgh)
A Meheus (Antwerp)
Danielle Mercey (London)
G L Mertz (Albuquerque)
R Miller (London)
A Mindel (Sydney)

President MSSVD: Ratish Basu Roy (Bournemouth)
Hon Sec MSSVD: Thomas McManus (London)

Technical Editor: Kenneth Till
Tel (UK) 01984 667388
Fax (UK) 01984 667315

Editorial assistant: Kathryn Sims
BMA House, London WC1H 9JR
Tel (UK) 0171 3836795
Fax (UK) 0171 3836668

S A Morse (Atlanta)
Fiona Mulcahy (Dublin)
P E Munday (Pinner)
G Neilsen (Denpasar, Bali)
J H Perriens (Geneva)
A J Pinching (London)
T C Quinn (Baltimore)
K W Radcliffe (Birmingham)
A Renton (London)
G L Ridgway (London)
T Ripa (Halmstad)
E Sandström (Stockholm)
Margaret Stanley (Cambridge)
Angelica Stary (Vienna)

Anecke van den Hoek (Amsterdam)
J N Wasserheit (Atlanta)
J Weber (London)
Janet Wilson (Leeds)

Instructions for Authors appear in the February issue of each volume. Papers should be submitted to Kathryn Sims in the first instance.
Internet home page:
<http://www.bmj.com/bmj/>

continued from front cover

- 283 **Partner notification for HIV infection in Denmark: attitudes and preliminary results**
Anne-Marie Worm, Else Smith, Hanne Sørensen, Henrik Haxholdt
- 286 **A comparison of HIV related advice in genitourinary medicine clinics with different histories** Vivian D Hope, Christine MacArthur
- 290 **Venus and Freud: an educational opportunity?** G Lloyd Jones, J G Bligh, C Valentine
- 295 **Mutation in DNA gyrase of norfloxacin-resistant clinical isolates of *Neisseria gonorrhoeae*** Masatoshi Tanaka, Masako Otsuki, Takeshi Nishino, Intetsu Kobayashi, Tetsuro Matsumoto, Joichi Kumazawa
- 298 **Genitourinary medicine and The Internet** R K W Lau
- 301 **Services to general practitioners** Peter Fisk, Ruth Cusack, Dennis Rayner
- 301 **HIV infection in a group of New Zealand sex industry workers** L Dayan, C Healy
- 302 **Rapid emergence of 4-fluoroquinolone resistance with associated decline in penicillinase-producing *Neisseria gonorrhoeae* in Colombo, Sri Lanka** I Abeyewickere, L Senaratne, V B Prithiviraj
- 303 **The Medical Society for the study of Venereal Diseases, Spring Meeting 1996, Edinburgh 9-11 May**

Book reviews • Notices • Diary of events • Current Publications

Laboratory medicine

The Internet Letters

MSSVD Abstracts

NOTICE TO SUBSCRIBERS This Journal is published bi-monthly. The annual subscription rates are £143.00 and \$225 in the USA. Subscribers may pay for their subscriptions by Access, Visa, or American Express by quoting on their orders the credit or charge card preferred, the appropriate personal account number, and the expiry date of the card. Orders should be sent to the Subscriptions Manager, *Genitourinary Medicine*, BMJ Publishing Group, BMA House, Tavistock Square, London WC1H 9JR. Orders can also be placed locally through any leading subscription agent or bookseller. (For the convenience of readers in the USA, subscription orders, with or without payment, can be sent to: *British Medical Journal*, PO Box 408, Franklin, MA 02038, USA. All inquiries, however, including those regarding air mail rates and single copies already published, should be addressed to the publisher in London.)

Periodicals postage paid Rahway NJ. Postmaster: send address changes to: *Genitourinary Medicine* c/o Mercury Airfreight International Ltd Inc, 2323 Randolph Avenue, Avenel, NJ 07001, USA.

NOTICE TO ADVERTISERS Applications for advertisement space and for rates should be addressed to the Advertisement Manager, *Genitourinary Medicine*, BMJ Publishing Group, BMA House, Tavistock Square, London WC1H 9JR.

COPYRIGHT © 1996 by *Genitourinary Medicine*. This publication is copyright under the Berne Convention and the International Copyright Convention. All rights reserved. Apart from any relaxations permitted under national copyright laws, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior permission of the copyright owners. Permission is not, however, required to copy abstracts of papers or of articles on condition that a full reference to the source is shown. Multiple copying of the contents of the publication without permission is always illegal.

ISSN 0266-4348

Published by BMJ Publishing Group, and printed in England by Thanet Press Limited, Margate, Kent

BOOK REVIEWS

All titles reviewed here are available from the BMJ Bookshop, PO Box 295, London WC1H 9TE. Prices include postage in the UK and for members of the British Forces Overseas, but overseas customers should add 15% to the value of the order for postage and packing. Payment can be made by cheque in sterling drawn on a UK bank, or by credit card (Mastercard, Visa, or American Express) stating card number, expiry date, and full name.

HIV and AIDS and Older People. By T KAUFMANN, London: Age Concern, England. 1995. (Pp 112; £9.95). ISBN 0-86242-181-0.

This very readable short book, published by Age Concern, aims to provide information for older people who are affected, either directly or indirectly, by HIV or AIDS. However, clinical aspects are dealt with too superficially to satisfy most readers with HIV/AIDS. Symptoms of HIV/AIDS receive only a few paragraphs in the entire book. The two occasions when thrush is mentioned do not explain that this is in the mouth. The statement that people (with AIDS) may live for many years is misleading. Research into drug treatments is mentioned but no drugs are named nor does the book actually let on that anti-retroviral drugs exist.

Much more emphasis is given to how to avoid contracting HIV and to the various modes of transmission. Here again there is a misleading statement in that one mechanism of vertical transmission is described as "possibly through breast feeding".

The book's strengths are its helpful discussion of psychological issues and also the chapter entitled *Getting Practical Help*.

I suspect that this book's main appeal will be to the parents or older carers of people with HIV/AIDS.

CHRIS CARNE

Atlas of Vulvar Disease. By EDWARD J WILKINSON and I KEITH STONE. (Pp 240; £92.) 1995. Baltimore: Williams and Wilkins. ISBN 0-683-09092-5.

A further addition to the list of recently published texts on the vulva, this *Atlas of Vulvar Disease* is aimed at specialist level, that is for

the clinician who routinely manages a fair number of women with vulval problems. The authors are Edward Wilkinson, Professor of Pathology and Keith Stone, Associate Professor of Gynaecology at the University of Florida. The quality of photographs partly determines the success of a medical atlas and in this particular book the standard is excellent. Professor Wilkinson has written widely on vulval pathology and provides a very good account of the histological features of all vulval conditions. The accompanying photographs of histology are also well produced and would serve to make this text a useful addition to the bookshelf of all general pathologists who are required to report on vulval biopsies. There are twelve chapters entitled introduction, cysts, maculae, papillae, papules, plaques, tumours, ulcers, verrucae, vesicles, paediatrics and trauma. Some conditions do not sit happily in their chosen chapter, for example, lichen planus, lichen sclerosus and vestibulitis are considered "maculae" whereas eczema and lichen simplex appear in the chapter on "plaques". A number of sections would be improved by more detail, for example, in the section on lichen planus, desquamative vaginitis is mentioned as an important differential diagnosis but no further information is provided. In addition, the information given, particularly for recommended treatments and "progressive therapeutic options", are not always in keeping with clinical practice in the UK. The suggestion that all patients with genital warts should be observed closely on a long-term basis for evidence of dysplastic and neoplastic growth is somewhat questionable as is the statement that a significant disparity exists between the size of the partners erect penis and the patient's introitus in women with vulvar vestibulitis. There are other similar minor quibbles with other sections. The list of references at the end of the book is good but unfortunately no mention is made of these through the text.

In summary, this is a well produced atlas with very good sections on pathology. More detailed and accurate clinical information would make this an excellent text.

CHRIS SONNEX

NOTICES

Cellular and Molecular Biology. 2nd World Congress, Ottawa, Canada, 1-7 September 1996

For information, contact 2nd World Congress Secretariat, Tel: (613) 247-1344, Fax: (613) 247-2187, Email: mhamelin@ottawa.net.

International Congress of Sexually Transmitted Diseases

12th Meeting of the International Society for Sexually Transmitted Diseases Research (ISSTDR) held jointly with the International Union Against Venereal Diseases and Treponematoses (IUVDT) 19-22 October 1997, Sevilla, Spain.

For further information contact: ICSTD Congress Secretariat, Apdo 6077, 41080-Sevilla, SPAIN. Fax. 95.4377413.

EUROGIN Conference: Herpes virus in Genital Pathology, 23-25 October 1996 EUROPEAN IUVDT CONGRESS ON STDs, 24-25 October 1996

Scientific Secretary: Dr Monsonego, 25 bvd Saint Jacques, 75014 Paris, France. Tel: (1) 40 78 26 71, Fax: (1) 45 89 74 05.

3rd International Conference on Home and Community Care for persons living with HIV/AIDS, 21-24 May 1997, RAI Congress Centre, Amsterdam, The Netherlands

Conference address: Bureau PAOG Amsterdam, Tafelbergweg 25, 1105 BC Amsterdam, The Netherlands. Mr Clemens Walta/Ms Mariska Timmers.

DIARY OF EVENTS

- | | |
|-----------------|---|
| 11-14 Sept 1996 | Third European Chlamydia Meeting, Vienna, Austria. |
| 15-18 Sept 1996 | Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). New Orleans, USA. |
| 18-20 Sept 1996 | Society for Social Medicine. Dundee, UK. |
| 3-7 Nov 1996 | 3rd International Congress on Drug Therapy in HIV Infection. Birmingham, UK. |
| 1-5 Dec 1996 | International Papillomavirus Workshop, Queensland, Australia. |

CURRENT PUBLICATIONS

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

Gonorrhoea
Chlamydia
Candidiasis
Hepatitis
Herpes
Human papillomavirus infection
Cervical cytology and colposcopy
Microbiology and Immunology
Dermatology
Miscellaneous

Gonorrhoea

The frequency of co-infection with *Neisseria gonorrhoeae* and *Chlamydia trachomatis* in men and women in Eastern Sydney

JW TAPSALL, M KINCHINGTON. *Pathology* 1996; 28:84-9.

Signs and symptoms of prevalent and incident cases of gonorrhoea and genital chlamydial infection among female prostitutes in Kinshasa, Zaire

M ALARY, M LAGA, B VUYLSTEKE, et al. *Clin Infect Dis* 1996;22:477-84.

***Neisseria* sialyltransferases and their role in pathogenesis**

RF REST, RE MANDRELL. *Microbial Pathogen* 1995;19:379.

A Tn1545-like transposon carries the tet(M) gene in tetracycline resistant strains of *Bacteroides ureolyticus* as well as *Ureaplasma urealyticum* but not *Neisseria gonorrhoeae*

B DEBARBEYRAC, M DUPON, P RODRIGUEZ, et al. *J Antimicrob Chemother* 1996;37:223-32.

Susceptibility of *Neisseria gonorrhoeae* to protegrins

XD QU, SSL HARWIG, A OREN, et al. *Infect Immun* 1996;64:1240-58.

Quinolone-resistant *Neisseria gonorrhoeae*: correlation of alterations in the GyrA subunit of DNA gyrase and the ParC subunit of topoisomerase IV with antimicrobial susceptibility profiles

T DEGUCHI, M YASUDA, M NAKANO, et al. *Antimicrob Agents Chemother* 1996;40:1020-3.

Quinolone-resistant *Neisseria gonorrhoeae* in Hong Kong

KM KAM, RW WONG, MM CHEUNG, et al. *Sex Transm Dis* 1996;23:103-8.

Chlamydia

The epidemiology of *Chlamydia trachomatis* within a sexually transmitted diseases core group

RC BRUNHAM, J KIMANI, J BWAYO, et al. *J Infect Dis* 1996;173:950-6.

Is urine leukocyte esterase test a useful screening method to predict *Chlamydia trachomatis* infection in women?

JM CHOW, J MONCADA, D BROOKS, et al. *J Clin Microbiol* 1996;34:534-6.

Evaluation of vaginal tampons for collection of specimens for detection of chlamydial infection

BL SMITH, MC CUMMINGS, S BENES, WM MCCORMACK. *Sex Transm Dis* 1996;23:127-30.

Comparison of DNA amplification methods for the detection of *Chlamydia trachomatis* in first-void urine from asymptomatic military recruits

A STARY, S TAOZICALLEN, B CHOUREIRI, et al. *Sex Transm Dis* 1996;23:97-102.

Detection of *Chlamydia trachomatis* in genitourinary tract specimens using an automated enzyme-linked fluorescent immunoassay

J GUNMUNRO, J MAHONY, K LUINSTR, et al. *Sex Transm Dis* 1996;23:115-9.

Comparison of PCR nucleic acid hybridization and EIA for the detection of *Chlamydia trachomatis* in different populations in a regional centre

DJ FARRELL, MV HARAN, BW PARK. *Pathology* 1996;28:74-9.

Detection of *Chlamydia trachomatis* infections in women by AmpliCor PCR: comparison of diagnostic performance with urine and cervical specimens

R PASTERNAK, P VUORINEN, A KUUKANKORPI, et al. *J Clin Microbiol* 1996;34:995-1002.

Susceptibility of *Chlamydia trachomatis* to protegrins and defensins

B YASIN, SSL HARWIG, RI LEHRER, EA WAGAR. *Infect Immun* 1996;64:709-13.

Accelerated development of genital *Chlamydia trachomatis* serovar E in McCoy cells grown on microcarrier beads

PB WYRICK, DG GERBIG, ST KNIGHT, et al. *Microbial Pathogen* 1996;20:31-40.

Candidiasis

Symptomatic vulvovaginitis due to fluconazole-resistant *Candida albicans* in a female who was not infected with human immunodeficiency virus

JD SOBEL, JA VAZQUEZ. *Clin Infect Dis* 1996;22:726.

***Candida glabrata*: in vitro susceptibility of 84 isolates to eight antifungal agents**

A ARIAS, MP AREVALO, A ANDREU, et al. *Chemotherapy* 1996;42:107-11.

Most frequent scenarios for recurrent candida vaginitis is strain maintenance with "substrain shuffling": demonstration by sequential DNA fingerprinting with probes Ca3, C1 and CARE2

SR LOCKHART, BD REED, CL PIERSON, DR SOLL. *J Clin Microbiol* 1996;34:767-9.

Hepatitis

Risk factors for hepatitis B virus infection among heterosexuals attending a sexually transmitted diseases clinic in Italy: role of genital ulcerative diseases

R CORONA, F CAPRILLI, A GIGLIO, et al. *J Med Virol* 1996;48:262-6.

Hepatitis B: new approaches for antiviral chemotherapy

SA LOCARNINI, GM CIVITICO, JE NEWBOLD. *Antiviral Chem Chemother* 1996;7:53-64.

Herpes

Asymptomatic maternal shedding of herpes simplex virus at the onset of labor: relationship to preterm labor

ZA BROWN, J BENEDETTI, S SELKE. *Obstet Gynecol* 1996;87:483-7.

Detection of viral DNA to evaluate outcome of antiviral treatment of patients with recurrent genital herpes

F DIAZMITOMA, M RUBEN, S SACKS, et al. *J Clin Microbiol* 1996;34:657-74.

Effect of age and route of inoculation on outcome of neonatal herpes simplex virus infection in guinea pigs

CS MANI, FJ BRAVO, LR STANBERRY, et al. *J Med Virol* 1996;48:247-52.

Asymptomatic vaginal herpes simplex virus infections in mice: virology and pathohistology

J PODLECH, F HENGERER, M FLECK, et al. *Arch Virol* 1996;141:263-74.

Comparison of effects of famciclovir and valaciclovir on pathogenesis of herpes simplex virus type 2 in a murine infection model

AM THACKRAY, HJ FIELD. *Antimicrob Agents Chemother* 1996;40:846-919.

Seroprevalence of and risk factors for antibodies to herpes simplex viruses, hepatitis B and hepatitis C among Southwestern Hispanic and non-Hispanic white women

TM BECKER, F LEE, JR DALING, AJ NAHMAS. *Sex Transm Dis* 1996;23:138-44.

DNA immunization against experimental genital herpes simplex virus infection

N BOURNE, LR STANBERRY, DI BERNSTEIN, D LEW. *J Infect Dis* 1996;173:800-7.

Activity of penciclovir in antiviral assays against herpes simplex virus

TH BACON, BA HOWARD, LC SPENDER, et al. *J Antimicrob Chemother* 1996;37:303-14.

Anti-idiotypic antibodies mimicking glycoprotein D of herpes simplex virus identify a cellular protein required for virus spread from cell to cell and virus-induced polykaryocytosis

TM HUANG, G CAMPADELLIFUMI. *Proc Natl Acad Sci USA* 1996;93:1836.

The protein kinase activity of the large subunit of herpes simplex virus type 2 ribonucleotide reductase (ICP10) fused to the extracellular domain of the epidermal growth factor receptor is ligand-inducible

CC SMITH, JH LUO, L AURELIAN. *Virology* 1996;217:425-52.

Human papillomavirus infection

Human papillomavirus infection—pathogenesis suggests new strategies for preventing and treating chemical dysplasia and cancer

JF HINES, SJ GHIM, AB JENSON. *BMJ* 1996;312:522.

Can papillomavirus testing be used to improve cervical cancer screening?

D JENKINS, C SHERLAW-JOHNSON, S GALLIVAN. *Int J Cancer* 1996;65:768–73.

Human papillomavirus—the most significant risk determinant of cervical intraepithelial neoplasias

K KJAER, AJC VANDENBRULE, JE BOCK, *et al.* *Int J Cancer* 1996;65:601–6.

Determinants of persistent detection of human papillomavirus DNA in the uterine cervix

J BRISSON, I BAIRATI, C MORIN, *et al.* *J Infect Dis* 1996;173:794–9.

Serologically diagnosed infection with human papillomavirus type 16 and risk for subsequent development of cervical carcinoma: nested case-control study

M LEHTINEN, J DILLNER, P KNEKT, *et al.* *BMJ* 1996;312:537–8.

Association between human papillomavirus type and clonal status of cervical squamous intraepithelial lesions

TW PARK, RM RICHART, XW SUN, *et al.* *J Nat Cancer Inst* 1996;88:355–8.

Human papillomavirus infection in cervical biopsies from Norwegian gynecological in-patients

A JENKINS, E KRISTIANSEN, E ASK, *et al.* *APMIS* 1996;104:30–4.

Prevalence of human papillomavirus in cervical scrapes as analysed by PCR, in a population-based sample of women with and without cervical dysplasia

K GJOEN, AO OLSEN, P MAGNUS, *et al.* *APMIS* 1996;104:68–74.

Rapid detection and typing of human papillomaviruses by consensus polymerase chain reaction and enzyme-linked immunosorbent assay

M POLJAK, K SEME. *J Virol Meth* 1996;56:231.

Human papillomavirus and p53 over expression in carcinomas of the uterine cervix, lower uterine segment and endometrium

T HACHISUGA, N MATSUO, T IWASAK, *et al.* *Pathology* 1996;28:28–31.

Interferon response depends on viral transcription in human papillomavirus containing lesions

I ARANY, A GOEL, SK TYRING. *Anticancer Res* 1995;15:2865–70.

Chronic estrogen-induced cervical and vaginal squamous carcinogenesis in human papillomavirus type 16 transgenic mice

JM ARBEIT, PM HOWLEY, D HANAHAN. *Proc Nat Acad Sci USA* 1996;93:2930–52.

Two novel genital human papillomavirus types, HPV68 and HPV70, related to the potentially oncogenic HPV39

M LONGUIT, S BEAUDENON, G ORTH. *J Clin Microbiol* 1996;34:738–44.

Primary keratinocytes can be infected with natural isolates of genital human papillomavirus

A VENUTI, A DILONARDO, L STANDOLI, *et al.* *Inter Virol* 1995;38:264–8.

Genomic cloning and characterization of the nonoccupied allele corresponding to the integration site of human papillomavirus type 16 DNA in the cervical cancer cell line SiHa

R BAUERHOFMANN, C BORGHOUTS, E AUVINEN, *et al.* *Virology* 1996;217:33–57.

A single element mediates glucocorticoid hormone response of HPV18 with no functional interactions with AP1 or hbrm

O MEDINAMARTINEZ, N MORALESPEZA, M YANTIV, *et al.* *Virology* 1996;217:392–406.

Identification of a differentiation-inducible promoter in the E7 open reading frame of human papillomavirus type 16 in raft cultures of a new cell line containing high copy numbers of episomal HPV-16 DNA

K GRASSMAN, B RAPP, H MASCHKEK, *et al.* *J Virol* 1996;70:2339–49.

The serine proteases inhibitors TLCK and TPCK react with the RB-binding core of HPV-18 E7 protein and abolish its RB-binding capability

H STOPPLER, MC STOPPLER, A ADDUCI, *et al.* *Virology* 1996;217:542.

Cervical cytology and colposcopy

Cervical neoplasia in Pap smears: risk of cervical intra-epithelial neoplasia after negative or no prior smears in a population without a mass screening programme

S FORSMO, BK JACOBSEN, H STALSBERG. *Int J Epidemiol* 1996;25:53–58.

Cancer diagnosis after a report of negative cervical cytology

HS MITCHELL, GG GILES. *Med J Aust* 1996;164:270–2.

Loop electrosurgical excision procedure for squamous intraepithelial lesions of the cervix: advantages and potential pitfalls

A FERENCZY, D CHOUKROUN, J ARSENEAU. *Obstet Gynecol* 1996;87:332–7.

Multiple recurrences of cervical intraepithelial neoplasia in women with the human immunodeficiency virus

RG FRUCHTER, M MAIMAN, A SEDLIS, *et al.* *Obstet Gynecol* 1996;87:338–43.

Microbiology

Streptococcus agalactiae: a vaginal pathogen?

AN MANIATIS, J PALERMOS, M KANTZANO. *J Med Microbiol* 1996;44:199–202.

Dermatology

Vulval cicatricial pemphigoid may mimic lichen sclerosus

P MARREN, V WALKDEN, E MALLON, F WOJNAROWSKA. *Br J Dermatol* 1996;134:522–4.

Miscellaneous

Recent advances in the pathogenesis of reactive arthritis

J SIEPER, G KINGSLEY. *Immunol Today* 1996;17:160–2.

Sonographic evaluation of acute intrascrotal pathology

JM BERMAN, TR BEIDLE, LE KUNBERGER, JG LETOURNEAU. *Am J Roentgenol* 1996;166:857–62.

Continuing transmission of sexually transmitted disease among patients infected with HIV-1 attending genitourinary medicine clinics in England and Wales

MA CATCHPOLE, DE MERCEY, A NICOLL, *et al.* *BMJ* 1996;312:539–41.

Urethritis associated with disseminated microsporidiosis: clinical response to albendazole

GD CORCORAN, JR ISAACSON, C DANIELS, *et al.* *Clin Infect Dis* 1996;22:592.

Chronic pelvic pain: prevalence, health-related quality of life and economic correlates

SD AMTHIAS, M KUPPERMANN, RF LIBERMAN, *et al.* *Obstet Gynecol* 1996;87:321–7.

Comparison of spermicides on vulvar, vaginal and cervical mucosa

AN POIUNDEXTER, H LEVINE, H SANGIHAGHPEYKAR, *et al.* *Contraception* 1996;53:147–54.

Does additional lubrication reduce condom failure?

M GABBAY, A GIBBS. *Contraception* 1996;53:155–8.

Female genital blastomycosis: case report and review

EL MOUZIN, MA BEILKE. *Clin Infect Dis* 1996;22:718.

Epidemiology of menstruation and its relevance to women's health

SD HARLOW, SA EPHROSS. *Epidemiol Rev* 1996;17:265–86.

Pregnancy in adolescence

IF LITT. *JAMA* 1996;275:1030.