The objectives, analyses, and results presented in the introduction, methods, results, and discussion sections.

There is also a certain degree of overlap between the two papers in the introduction, methods, results, and discussion sections.


**LETTERS TO THE EDITOR**

We strongly disagree with your conclusion that we are guilty of duplicate publication. The objectives, analyses, and results presented in the two papers in *Sexually Transmitted Infections* (paper 1) and *Sexually Transmitted Diseases* (paper 2) are completely different and do not resemble each other at all. The aim of paper 1 was to determine the value of currently published screening criteria for asymptomatic populations as selection criteria for the general population. A literature review was performed to identify criteria for women. Criteria for men were not available. These criteria were then applied to the female participants in the Amsterdam Screening Study. The diagnostic accuracy of these criteria was then found to be poor. That led to the second research question, which was addressed in paper 2: Could suitable new criteria for selective screening of females and males be derived from our own study population? In paper 2 we report on the development of this new set of selective screening criteria and their diagnostic accuracy. In addition, detailed prevalence data and the results for both men and women non-residents in the Amsterdam Screening Study were presented.

The papers did not contain references to each other. This was not through intent, but because of the simultaneous process of submission for publication. At the time of submission, there was simply no other “paper” to refer to. When checking the proofs of the papers we should have added “in press” to the references, which we neglected to do. We sincerely apologise for this and will remediate to do so in future.

In summary, we believe your verdict of redundancy is unjust and your sanction to be too harsh for the omission of cross references.

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ADRIAAN J C VAN DEN BRULE
WALTER DEVILLE
CHRIS J L M MEIJER
LEX M BOUTER

**Prevalence of Chlamydia trachomatis IgG antibody in antenatal patients from Trinidad**

**EDITOR**—A recent study in Jamaica by Dowe et al using cell culture and a direct fluorescence antibody (DFA) assay showed a prevalence of *Chlamydia trachomatis* infection in 47% of gynaecological patients. 1 Unfortunately, there are no comparable data for cell culture and DFA in Trinidad. Moreover, we cannot find any reports on serological studies for *C. trachomatis* IgG antibody in the West Indies. In an attempt to shed more light on prevalence of *C. trachomatis* IgG antibody in pregnant women in Trinidad, we collected 56 serum specimens (mean age of patients 27 years) with ethics committee approval from one clinic at the general hospital, Port of Spain. As well as testing these sera by an in-house ELISA method based on that described by Ossewaarde et al, 2 we also used a commercial ELISA test specific for *C. trachomatis* IgG (Savyon Diagnostics, Israel) and the whole inclusion immunofluorescence (WHIF) test as previously described by Richmond and Caul. 3

All collected sera were stored at −70°C until analysis. Samples were subsequently coded and tested blind in duplicate in laboratories in Sheffield and Bristol. Details of the in-house ELISA test methodology and interpretation of readings using microimmunofluorescence (MIF) serum positive and negative controls were described in Keay et al. 4 The commercial ELISA was performed according to the manufacturer’s instructions. The WHIF test consisted of chlamydial inclusions of infected mammalian cells with LGV2 mounted on a glass slide or coverslip. The WHIF titre is described as the highest dilution of antibody where the inclusion can be clearly seen by fluorescence staining.

For the ELISA tests, results were recorded as positive, equivocal, negative, or equivocal. For the WHIF test, titres between 1:64 and 1:256 were recorded as such; a low titre was ≤1:64 and a high titre ≥1:512.

The latter finding is of note. It is accepted that *C. trachomatis* is an established pelvic pathogen and in a recent study of 34 women positive for *C. trachomatis* IgG (1:128) by ELISA, at laparoscopy 31 (91.2%) were diagnosed as having tubal disease. 5 It is likely that significant damage could be occurring in these patients as a previous study looking at high *C. trachomatis* IgG titres showed 46% positive and 8% positive in infertile women with damaged and normal tubes, respectively. 6

Although these findings are based on relatively small numbers, they are of significant concern if combined with the other most recent study. 7 It would appear that the prevalence rates for *C. trachomatis* may well be high and that data presented here suggest possible future PID development and resultant sequelae. It is clear that further studies are warranted and that screening and treatment strategies may be required urgently to curtail considerable morbidity in Trinidad and throughout the West Indies in general.

**Table 1** Comparison of ELISA and WHIF tests showing the Chlamydia trachomatis IgG antibody titre distribution

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<tr>
<th>WHIF test</th>
<th>Commercial ELISA</th>
<th>In-house ELISA</th>
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<tr>
<td>≥512</td>
<td>15</td>
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<tr>
<td>256</td>
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<td>≤64</td>
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Table 1

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*WHIF* = whole inclusion immunofluorescence.

High prevalence of *C. trachomatis* IgG antibodies in antenatal patients in Trinidad

Prevalence rates of *C. trachomatis* in Trinidad are similar to those from Jamaica

Good correlation of in-house and commercial ELISA tests with WHIF test

Urgent need for screening and treatment strategies for *C. trachomatis* in West Indies

Financial support was provided by the University of Sheffield and Bristol Public Health Laboratory.

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Implications of random measurement error in studies adjusting for sexual behaviours

EDITOR.—In their recent review of methodological issues in sexual behaviour research, Fenton et al provide a comprehensive overview of the major types of sexual behaviour research, the sources of measurement error which may affect such research, and different approaches to measuring various forms of measurement error. We would like to provide an important footnote on the implications of the poor measurement of sexual behaviours in their analyses from studies of sexually transmitted infections (STIs) which attempt to adjust for sexual behaviours in their analyses.

The role of systematic measurement errors in study design and analysis, as described by Fenton et al, is widely recognised. Given their impact on inferences of association, great care is taken in most studies to avoid these biases. The effects of random measurement error on non-differential misclassification, on epidemiological inference typically receive less attention. Most researchers realise that non-differential misclassification of exposure and/or outcome measures will lead to an attenuation of the resulting measure of association.

However, the fact that random measurement error in potential confounding variables may have an influence on the inferences which are made from study results is seldom acknowledged. The non-differential misclassification of a dichotomous confounding variable may lead to inadequate statistical adjustment (often referred to as residual confounding) and the false appearance of statistical interaction when none is present.1 When confounders are measured as polymorphic or continuous variables (for example, condom use never/sometimes/always or number of sexual partners), random measurement error can bias the adjusted measure of association unpredictably—in some instances making the adjusted measure of association less accurate than the crude.1,4 These forms of misclassification are generally of greatest concern when the true exposure-disease association is relatively weak compared with the exposure-confounder and outcome-confounder relation,6 as is the case in most research around STIs. Even small random errors can have important effects on adjusted measures of association, and the unpredictability of the effects of random error in confounding may be compounded in multivariate analyses.7

With this in mind, Fenton et al’s review of the difficulties involved in the accurate measurement of sexual behaviour has powerful implications for studies attempting to control for covariates associated with risk for STIs. Studies which attempt to adjust during statistical analysis for numbers and types of sexual partners, frequency of sexual contacts, or condom use practices, are likely to encounter some degree of random measurement error. Although perhaps perceptible if there is differential with respect to exposure or outcome, this mismeasurement may lead to unpalatable biases and/or mis-specified analyses, and in turn, spurious inferences.

In summary, the inadequate measurement of sexual behaviour requires special consideration in any study attempting to adjust for the confounding role of sexual behaviours in associations involving STIs. We hope that Fenton et al’s review of the challenges posed by the collection of sexual behaviour data helps to draw attention to this frequently overlooked methodological aspect of the epidemiology of STIs.

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Accepted for publication 22 May 2001

Is Mycoplasma hominis a vaginal pathogen?

EDITOR.—We would like to comment on the study by Arya and colleagues1 in which they failed to find evidence that Mycoplasma hominis is pathogenic in the vagina, or otherwise contributing to bacterial vaginoses.2 They reported the 21 year old review of Taylor-Robinson and McCormack3 which surmised that M hominis might act in symbiosis with other organisms or as a sole pathogen in BV. They then considered the suggestion of Mardh and colleagues4 that M hominis was associated with a number of genital signs and symptoms and BV. However, they excluded our assertion being that M hominis organisms outside the context of BV would be present in small numbers and, therefore, unlikely to cause a problem. In contrast, the few M hominis organisms in the healthy vagina increase in number, perhaps by 10 000-fold or more, in the vagina of women with BV. This increase, however, occurs only late in the development of BV. Indeed, it is rare to find large numbers in the “intermediate” (grade 2) stage between the normal vaginal flora and “full blown” BV (grade 3). Thus, in the study by Arya and colleagues we have difficulty in understanding why only 35 (48%) of the 73 women with M hominis positive BV had large numbers of organisms (>5 x10³). A Gram stain evaluation should have distinguished women with grade 2 flora from those with grade 3. Be this as it may, the authors contend that because the additional presence of M hominis with G vaginalis and strict anaerobes did not seem to increase the likelihood of the women developing BV, M hominis is not involved. It is clear that M hominis organisms are not essential for the development of BV and unlikely that their initial presence in the vagina increases the likelihood of BV developing. However, if they are present in the vagina initially, then they will multiply as indicated and large numbers will ensue. The data of Arya and colleagues raises the issue of whether large numbers contribute to the disease process or are involved in its persistence. Against this, as they point out, is a study4 in which metronidazole, inactive in vitro against M hominis, cleared BV symptoms. Doxycycline, active against M hominis, did not. However, it should also be remembered that M hominis organisms caused pharyngitis and cervical lymphadenopathy when given orally in large numbers to volunteers,5 indicating the pathogenic potential of the organisms. Furthermore, the M hominis species is heterogeneous, some strains having greater epithelial cell adherance than others. We do not see any data that point to M hominis being a sole pathogen or co-pathogen in the vagina but, equally, we are not convinced by data that purport to show that it is not.

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Accepted for publication 10 May 2001

Response of hepatitis B induced membranoproliferative glomerulonephritis to HAART

EDITOR.—Renal disease occurring in HIV infected individuals is well described.6 HIV associated nephropathy (HIVAN) is the
predominant renal lesion in black patients, whereas immune complex and membranous nephropathy occur more commonly in white patients. Improvements in renal function have been described with highly active antiretroviral therapy (HAART) when the underlying renal lesion is HIVAN or membranous nephropathy. We report here an HIV infected patient in whom renal disease caused by hepatitis B induced membranoproliferative glomerulonephritis improved with HAART.

A 34 year old white homosexual man was found to be HIV-1 antibody positive in August 2000 after he presented with biopsy proved Kaposi's sarcoma. At this time he was also reported 2 months of fatigue and frothy urine. In the past he had been found to be hepatitis BeAg positive in 1996. Examination revealed multiple cutaneous Kaposi's sarcoma, BP was 170/100, no peripheral oedema, and scanty retinal haemorrhages on funduscopy. Investigations showed blood urea = 9.2 (normal = 2.8–7.6) mmol/l, serum creatinine = 178 (normal = 80–133) μmol/l, normal serum, potassium, and sodium. Liver function tests were normal apart from a serum albumin of 29 (normal = 35–50) g/l. The haemoglobin was 9.3 g/dl and white blood cell and platelet counts were normal. The CD4 count was 110 cells ×10⁹/l and HIV viral load was 47 500 copies/ml. Complement C3 was 0.56 (normal = 0.9–1.8) g/l, C4 was 0.07 (normal = 0.1—0.4) g/l. Immunoglobulin quantification showed normal IgA, IgG = 23.2 (normal = 7.0–16.0) mg/l and IgM = 4.4 (normal = 0.4—2.3) g/l. Hepatitis B serology showed HbsAg and HbsAg+ (titre 1:3200). Urinalysis showed blood ++ and +++ protein. Urine protein = 5.8 g/24 hours and creatinine clearance = 66 ml/min. Ultrasound examination showed normal sized kidneys. Histology of a renal biopsy showed membranoproliferative glomerulonephritis. Staining showed marked deposition of hepatitis B core and surface antigens (fig 1).

The patient was managed conservatively. HAART was commenced with efavirenz, didanosine, and stavudine and hypertension was treated with ramipril. After 8 weeks of HAART the CD4 count was 140 cells ×10⁹/l and viral load was 100 copies/ml. The serum creatinine returned to normal and there was no permanent proteinuria.

This case illustrates the importance of considering non-HIV associated pathology in the HIV infected patient presenting with renal disease. It also shows the value of renal biopsy in identifying the precise cause of the presentation. The patient demonstrates that non-HIV hepatitis B associated renal disease may improve with HAART. The exact mechanism for this remains unclear.

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Cervical cytology smears in sexually transmitted infection clinics in the United Kingdom

EDITOR—I found the article by Janet Wilson and Wendy Parsons on behalf of the BCCG, concerning cervical cytology practice in UK genitourinary medicine clinics, comprehensive and reassuring in terms of our practice.

The final statement “there is therefore no evidence from this study to support the practice of additional smears in the presence of an effective national cytology screening programme” is both justified and a case well made.

The paper calls additional smears “opportunistic” and recognises them as being performed in women less than the age of 20, women with genital warts, and in some who have had a normal smear within the previous 3 years.

The OED definition of opportunity is “favourable, appropriate or advantageous combination of circumstances.” There is no evidence to suggest that offering smears in these circumstances fulfils this description. If this is so, then we are depriving women such as teenagers of a valuable health screen and patently this is not the case.

I would like to propose, therefore, that we no longer continue to call these smears “opportunistic” but use the term “unnecessary.”

The recognition of this could be an advance for evidence based practice, help to reduce unnecessary anxiety, and release much needed resources.

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BOOK REVIEW


This is a profound work describing the impact of venereal diseases and conventional morality in the build up to AIDS. It is written by an American, who has been personally affected by the impact of AIDS. He has written a book on topics in history, medicine, morality, and infectious diseases, which have had an impact on the public response to AIDS. Throughout, one senses the author’s very real loss in what to him and many others have been tragic times.

It is interesting to see how different the general public moral climate is in different societies in the developed world. Thankfully, some forms of evangelism do not have the same influence everywhere.

Does the historical part of the book tell the medical historian anything new? The answer is yes. And that is the gap between what has been known on this subject to academics for a long time and what others are only finding out about now. The chapters containing information on the church’s attitude to sexual morality, on syphilis, the early history of syphilis, bubonic plague, and masturbation illustrate the age old story of reactionary view against progress. It is difficult to judge the mores of the past through the views of the present.

It is a pity that the author seems to have given such prominence to those whose views resisted progress. Nothing is mentioned of liberal pioneers in venereal diseases from Van Swieten in the 18th century, through Ricord, Fournier in the next, Abraham Flexner (for the Rockefeller Foundation), Neisser, or indeed the enormous changes brought about by the Royal Commission on Venereal Diseases in Great Britain at the time of the first world war or such notable more recent Americans such as Kampmeier, Stokes, orEarl Moore.

The chapters on America are particularly interesting for Europeans such as Americans such as Kampmeier, Stokes, or Earl Moore.

The chapters on America are particularly interesting from a European point of view. Learning about reactionary views always helps in developing any strategy for public knowledge and education. Well educated AIDS lobbyists have certainly had an impact in Europe as in the United States and are neatly described in this work. The bibliography, 14 pages, is particularly good.

This is a book questioning responses and conventional morality in respect, sorrow, and anguish. It is worthy of merit. It enables the modern reader to learn about difficult aspects of morality in relation to venereal diseases and sexuality which have always had more impact on the public than the practising physician.

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NOTICES

International Herpes Alliance and International Herpes Management Forum
The International Herpes Alliance has introduced a website (www.herpesalliance.org) from which can be downloaded patient information leaflets. Its sister organisation the International Herpes Management Forum (website: www.IHMF.org) has launched new guidelines on the management of herpesvirus infections in pregnancy at the 9th International Congress on Infectious Disease (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@tsp.sheridan.com).

1st Asia Pacific Forum on Quality Improvement in Health Care
The 1st Asia Pacific Forum on Quality Improvement in Health Care will be held from 19–21 September 2001 in Sydney, Australia. Presented by the BMJ Publishing Group (Boston, USA), with the support of the Commonwealth Department of Health and Aged Care (Australia), Safety and 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; website: www.perinatmed2001.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).

International Conference on HIV/AIDS 16–19 December 2001, Mumbai, India
Further details: Dr Chander P Puri, President, Indian Society for Study of Reproduction and Fertility, Institute for Research in Reproduction, Jehangir Merwanji Street, Parel, Mumbai 400012, India (Tel: 4137730 (Direct), 4132111-2-6-7; fax: 091-022-4964853 or 091-022-4139412; e-mail: vichin@bom4.vsnl.net.in OR dirirr@vsnl.com).

10th International Symposium on Human Chlamydial Infection, 16–21 June 2002, in Antalya, Turkey
The scientific programme will encompass the breadth of chlamydial research from clinical and epidemiological studies to molecular and cell biology of all species of Chlamydia. Further details: Professor A Demir Serter, Department of Clinical Microbiology and Infectious Diseases, Ege University, Faculty of Medicine, 35100 Borno, Izmir, Turkey (Fax: 90 232 343 71 30; e-mail: ISHCIX@itasa.ucsdf.edu).

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).

Mechanics for Africa—training school in Africa to bring health awareness into curriculum
Mechanics for Africa is a training school for motor mechanics in Zambia, giving young Africans skills for life. This charitable initiative was recently launched to help impoverished Africans break out of the persistent reliance on outside aid to help them become self reliant. Mechanics for Africa (MFA) will set up a school for motor mechanics in Ndola, Zambia, in association with Milford Baptist Church in Surrey. MFA (charity registration No 1086333) was launched recently by its patron, the Rt Hon Virginia Bottomley, MP.

Part of the holistic curriculum will help introduce the need for health awareness among ordinary local people, particularly with HIV/AIDS and other STIs, diarrhoea and resultant dehydration. Other topics to be covered will include malaria (still the biggest killer, especially among children), nutrition, first aid, hygiene, etc. All this to be part of a balanced “life skills” curriculum which will empower students to improve their lives; and those of their families by inviting them to participate in these studies.

The project asks companies, organisations, and individuals to become financially involved at various levels either through donation, tax reclaimable gifts, or loans.

MFA is the brainchild of Charles and Sharonne Watt who have worked on aid projects in southern Africa for 3 years and had the opportunity to evaluate the needs of local and wider communities.

Apart from offering a 2 year course in motor mechanics and maintenance—leading to an internationally recognised City and Guilds qualification—the aim of the project is to offer a balanced curriculum including health education and basic business administration.

Land and property for training and workshop development has already been purchased on the outskirts of Ndola (population 500 000) in the heart of Zambia’s copperbelt.

The MFA project is designed to eventually become self funding with a commercial service for vehicle maintenance planned to operate independently and in tandem with the charity.

Mechanics for Africa is actively seeking funds and donations. Further details: Mechanics for Africa, Bridian Farm, Alford, Surrey GU6 8HR, UK (tel: 01403 752 384; fax: 01483 421 271; email: charlie,sharonne@bigfoot.com; web: www.mfa-zambia.com).

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Notice of Redundancy

Sex Transm Infect 2001 77: 301
doi: 10.1136/sti.77.4.301

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