Year: 1995

Differences in progression of HIV infection between men and women

Egger, Mattias; Twisselmann, Wiebke; Ledergerber, Bruno

DOI: https://doi.org/10.1136/bmj.310.6984.941a

Posted at the Zurich Open Repository and Archive, University of Zurich
ZORA URL: https://doi.org/10.5167/uzh-124469
Published Version

Originally published at:
DOI: https://doi.org/10.1136/bmj.310.6984.941a
In Evans and colleagues’ study 44% of the practitioners either carried a nebuliser or said that one was available in their surgery. The difference in proportions of practices with a nebuliser is 54% (95% confidence interval 45% to 62%) between their study and ours. Similarly, 54% of the practitioners in Evans and colleagues’ study carried a peak flow meter and the difference in proportions is 19% (9% to 29%). The differences in the proportions are therefore significant, with more practices having nebulisers yet fewer practitioners usually taking meters on house calls in Northern Ireland. Although this may reflect the different methods and emphases of the two surveys, it suggests that important inter-regional differences in asthma care by general practitioners may exist. This has important implications for research into asthma care by general practitioners because we cannot assume that care in one geographical region is representative; any attempt to draw generalisable conclusions will require a national sample.

R K MCKINLEY
Senior lecturer
Department of General Practice,
University of Leicester,
Leicester General Hospital,
Leicester LE5 4PW

W K STEELE
Senior lecturer
Department of General Practice,
Queen’s University of Belfast,
Dundie Health Centre,
Belfast BT9 1HR

1 Evans SA, Stone J, Hardy C. Are general practitioners equipped to manage acute severe asthma? BMJ 1994;309:1486. (3 December.)


The study in 1989 was conducted while R K McKinley held a research fellowship from the Department of Health and Social Security (Northern Ireland) in the department of general practice at the Queen’s University of Belfast, and the study in 1994 was financed by a grant from the National Asthma Campaign.

Chickenspox in the tropics

Editor,—In their editorial on immunisation against chickenpox Lainie Friedman Ross and John D Lantos fail to recognise that chickenspox is more severe in the tropics than in temperate climates.1 The reason for this lies in the differences in the age specific incidence of chickenspox between the regions.

In Singapore the peak incidence of chickenspox occurs in adolescence and young adulthood2 and is associated with low herd immunity to chickenspox in the young adult population.3 In recent times this trend has also been observed in populations living in temperate regions.4 Although chickenspox is benign in childhood, in adults it is associated with more severe disease. In pregnant women it is also associated with the risk of chickenspox in the unborn fetus and newborn infant. The social cost of the disease would also be expected to be higher than those estimated for populations in which chickenspox occurs mainly in childhood. It is therefore erroneous to assume that chickenspox is benign in all populations.

Since vaccination against chickenspox is most efficacious in childhood, a universal immunisation programme should be targeted at young children. The epidemiology of chickenspox and its age specific incidence should be taken into consideration when the issue of mass chickenspox in a particular population is addressed. In this regard, universal immunisation programs in populations in the tropics may be justified.

R W LIEB
Associate professor
Department of Paediatrics,
National University of Singapore,
Singapore 0511

AY S STAN
Senior registrar
Department of Paediatrics,
National University Hospital,
Singapore 0511

1 Ross LF, Lantos JD. Immunisation against chickenspox. BMJ 1995;310:2-3. (7 January.)


Differences in progression of HIV infection between men and women

Editor,—Alessandro Cozzi Lepri and colleagues report little difference in progression of HIV infection between men and women in the Italian seroconversion study.1 We have examined this issue in the Italian HIV cohort study, one of the largest continuing studies of a seroconvertent cohort (a cohort of people with HIV infection in whom the date of seroconversion is not known). The study has enrolled over 6000 participants from all transmission groups, including nearly 2000 women.2 In the Swiss survey there was no evidence for differences between the sexes in either progression to different degrees of CD4 lymphocytopenia or progression to death when differences in DC4 cell counts at entry were taken into account in the analysis.3

The authors emphasise the importance of incident cohorts (cohorts in which the date of seroconversion is known) for analysis of differences in the progression of HIV infection. The similar results that we obtained from a seroconvertent cohort indicate, however, that time since infection may have no independent prognostic importance when CD4 cell counts are considered in the analysis. Indeed, this conclusion was reached in analyses of several incident cohorts, including the Italian seroconversion study.4 Therefore, while incident cohorts are indispensable for answering several important questions, seroconvertent cohorts may offer advantages in other situations. One advantage is the generally larger sample size, and therefore greater statistical power; this is needed to detect or exclude smaller differences in the progression of disease. For example, the study by Cozzi Lepri and colleagues included 954 men, based on 854 patients and 42 deaths, could not exclude the possibility of a 79% increase in mortality from AIDS among women compared with men. Conversely, an analysis of the Swiss HIV cohort study based on 2871 patients and 761 deaths showed that such substantial differences can be excluded with confidence.5

The only difference between the sexes found by Cozzi Lepri and colleagues related to AIDS defining cytomegalovirus infection. The authors conclude, on the basis of four cases among women and none among men (P = 0.01), that this infection may be a more common AIDS defining event among women. We have examined this supposition in the Swiss study by analysing the incidence of disseminated cytomegalovirus infection in participants who were infected either by injecting drugs or heterosexually and who were free of AIDS at registration. Both uni-variate and multivariate analyses indicate that there is no significant difference between women and men in the occurrence of disseminated cytomegalovirus infection over a mean follow up of three years—if anything, there was a trend in the opposite direction (table). This analysis thus fails to confirm the results of Cozzi Lepri and colleagues. Because of the large number of AIDS-defining conditions tested, their finding may be a false positive result due to a type I error. Indeed, applying a Bonferroni-type correction renders their P value non-significant.

In conclusion, the examples presented here show how analyses of incident and seroconvertent cohorts can sensibly complement each other.

MATTHIAS EUGER
Senior lecturer in epidemiology
Department of Social and Preventive Medicine,
University of Berne,
Berne, Switzerland

1 Cozzi Lepri A, Pozzoni P, Dormuci M, Phillips AN, Rezza G, and the Italian Seroconversion Study. HIV disease progression in European women and men through injecting drug use and heterosexual sex and followed for up to nine years from seroconversion, BMJ 1994;309:1537-42. (10 December.)


Heart muscle disease related to HIV infection

Editor,—We agree with Peter F Currie and colleagues that the aetiology of heart muscle disease in HIV infection is unknown.1 Given that most HIV infection occurs in the developing world, conditions such as rheumatic heart disease may contribute to cardiac complications in HIV infection even though a significant interaction has not yet been noted.2 We report a case of rheumatic heart disease characterised by this unusual clinical presentation and laboratory features in a man positive for HIV.

A 28 year old African immigrant presented with...