

ectopic pregnancy overall the number of women hospitalised decreased from 1204 to 1192, a decrease in annual rates from 14.3 [13.5 to 15.1] to 12.6 [11.9 to 13.3] per 1000 births (p trend < 0.001) but this decrease was mostly in women aged between 25 to 44 years. There was no appreciable fall in hospitalisations for ectopic pregnancy in women aged 15 to 24 years (13.1 [11.5 to 15.0] to 13.1 [11.4 to 15.0] per 1000 births; p trend = 0.9; see Abstract P1-S3.01 figure 1B).

Conclusions Among women aged 25 to 44 years decreases in hospitalisations for ectopic pregnancy and increases in hospitalisations for infertility were observed. The relationships between chlamydia prevalence, testing and notifications do not appear to be straightforward.

P1-S3.02 THE ECONOMIC BURDEN OF CHLAMYDIA AND GONORRHOEA IN CANADA

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Background The latest estimate of the economic burden of chlamydia and gonorrhoea in Canada was modelled with data from 1990 and was published in 1992 by Ron Goeree and Paul Gully. Given the changes that have occurred since in diagnostic testing technology, the availability of new data sources and increasing rates of the two infections, a new model using updated data from 2000 is called for.

Methods Diagnostic test costs were estimated using provincial laboratory data on the number of diagnostic tests performed for *Chlamydia trachomatis* (CT) and *Neisseria gonorrhoeae* (GC) for the year 2000. Direct costs of CT and GC from drugs, hospitals, and physician billings were estimated using the Economic Burden of Illness in Canada (EBIC) data. Direct costs of associated sequelae of each infectious disease were also included in the model. Indirect costs estimated in the model included production losses from both infectious diseases and their associated sequelae. Sensitivity analyses were conducted to provide upper, base and lower-bound estimates of the total cost.

Results The preliminary combined estimate for both direct and indirect costs of CT and GC (in 2000 dollars) ranges from approximately \$31.5 to \$178.4 million (CAD).

Conclusions Further work is required to improve data access and estimates of the burden of infection in Canada. A top priority should be to improve the data infrastructure by expanding data linkages within and among provinces around laboratory tests. The majority of costs related to CT and GC are attributable to drug, hospital and physician costs, suggesting that much of the burden of these two infections can be reduced through implementation of effective prevention programs. The number of CT infections has increased exponentially since 2000, warranting further modelling considering current incidence rates and inflation costs.

P1-S3.03 MORTALITY AMONG MEN WHO HAVE SEX WITH MEN SEEN IN STD CLINIC PATIENTS: HIGH RATES OF SUICIDE AND LOW RATES OF ANAL CANCER DEATH

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Background Because men who have sex with men (MSM) are not identifiable at a population level, there are few data on cause-specific

mortality rates among MSM. MSM are more likely to report suicide attempts than heterosexuals, but it is not known if suicide mortality is higher among MSM. Likewise, although anal cancer is more common among MSM than among heterosexuals, the absolute risk of anal cancer death among MSM is not known. We compared suicide and anal cancer mortality rates among MSM and heterosexual males and females in an STD clinic population.

Methods We enumerated all Public Health-Seattle and King County STD Clinic attendees from 1993-2007 ($n=86,807$). Using 1993-2008 mortality data from Washington State ($n=702,850$), we identified STD clinic attendees who had died and their underlying cause of death. We calculated suicide and anal cancer mortality rates for MSM, heterosexual men, and women, and standardised these rates using the age, race, and gender distribution of King County residents (US Census, 2000). We calculated adjusted incidence rate ratios (IRR) among STD clinic attendees using Poisson regression. To compare mortality rates among STD clinic attendees to the general population, we calculated rates in King County.

Results Among STD clinic attendees, 14% were MSM, 52% were heterosexual men, and 34% were women. For the period between 1993 and 2008, we matched 1901 Washington state deaths to STD clinic attendees for an overall unadjusted mortality rate of 1.8 deaths per 1000 person-years. The standardised suicide mortality rate among MSM was 0.20 per 1000 person-years, compared with 0.11 among heterosexual men and 0.09 among all women. Adjusted for age and race, among STD clinic attendees, MSM were 1.6 times more likely to die from suicide than heterosexual men (IRR_{adj}=1.6, 95% CI 1.02 to 2.61) and nearly four times more likely than women (IRR_{adj}=3.9, 95% CI 2.14 to 7.24). The suicide mortality rate among MSM in the STD clinic was higher than the rate among all men in King County (standardised rate ratio=1.5), adjusted for age and race. We identified no deaths due to anal cancer in any subpopulation (95% CI 0 to 0.4 per 100,000 person-years).

Conclusions These data suggest that, at least among STD clinic attendees, MSM are approximately twice as likely to die from suicide as heterosexual men, and these rates are higher than the general population. Anal cancer death rates among King County MSM appear to be low.

P1-S3.04 DEATH IN THE ERA OF HAART: NOT ALL ABOUT AIDS

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Background Mortality from AIDS has dramatically reduced since the introduction of effective antiretroviral therapy. Nevertheless, HIV infected individuals remain at higher risk of early death. We investigate all causes of deaths among HIV diagnosed adults reported nationally in the HAART era.

Methods Analyses of data from national HIV surveillance linked to the Office National Statistics. Deaths among all adults (≥ 15) diagnosed between 1997 and 2008 in England and Wales (E&W) were reviewed and grouped by cause of death (COD) and risk information. Death rates were calculated using a census of all persons accessing HIV care in 2008 (SOPHID).

Results The crude mortality rate among HIV-infected individuals (15-59 yrs) fell from 21.8 to 8.2 per 1000 persons living with diagnosed HIV in 2008. A total of 3640 (5.6%) persons diagnosed over the 12-year period were reported to have died [3544 had a cause of death]. The overall median age at death was 41 years [IQR: 35-50 years]. AIDS related mortality accounted for 56% of all deaths: 51% among MSM, 61% among heterosexuals and 34% among IDUs. AIDS-related respiratory infection (including PCP) was the most common COD in MSM and heterosexuals whereas