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HIV PREVENTION IN THE CLINICAL SETTING

LITHOUGH many HIV infections are not reported to public health until years after the event, the annual incidence can be approximated using the date of the patient's first positive test. By this metric, the number of new HIV diagnoses increased in Oregon from 2 in 1981 to 544 in 1991, then declined rapidly until 1997. Since 1997, approximately 300 new cases are diagnosed per year (Figure).

Highly active anti-retroviral therapies (HAART) have improved life for persons with HIV. Nevertheless, each new infection represents a projected loss of 7–11 quality-adjusted years of life and lifetime medical costs of \$154,000–\$195,000.⁴ In Oregon, sex between men continues to be the most common mode of transmission: 65% of all reported cases first diagnosed during 2002–2004 occurred among men who have sex with men (MSM). In this epistle, we review data on risky sex and strategies for HIV prevention.

Oregon HIV and AIDS Cases by Year of First HIV Diagnosis



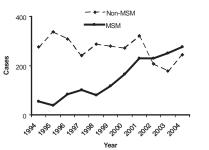
RISKY SEX

Ironically, prevention may be more difficult because of the success of HAART. By the end of 2004, more than 4000 Oregon residents were living with HIV, and are increasingly able to sustain an active sex life. HAART does reduce the risk of HIV transmission for any given episode of unprotected sex,⁵ but this salutary

effect seems to have been offset by an increase in unsafe sex.⁶ In San Francisco, MSM with AIDS treated with HAART were 4.1 times as likely to acquire an STD than were men with AIDS not treated with HAART.⁷

Unfortunately, the uninfected may also have become less concerned about HIV. In San Francisco, unprotected anal intercourse among MSM increased and condom use declined from 1996-1999.6 In Oregon, a recent survey found that 45% of MSM had engaged in unprotected anal intercourse at their last sexual encounter, and only 30% of MSM who had sex with more than one partner in the previous two months always used condoms.8 Syphilis and gonorrhea are both markers of highrisk sex and cofactors for HIV transmission.9 During 2002-2004, an average of 37 primary, secondary and early latent syphilis cases occurred among MSM in Oregon —up from 3.5 such cases during 1994-2001. A similar rise in gonorrhea among MSM has been observed (Figure). Anecdotes also suggest that increasing combined use of methamphetamine and phosphodiesterase inhibitors (i.e., sildenafil, tadalafil, vardenafil) go hand-inhand with unprotected sex and multiple partners.¹⁰

Gonorrhea Among Males by Sexual Lifestyle — Oregon, 1994–2004



WHAT CAN WE DO ABOUT IT?

Recent evidence-based guidelines recommend strategies for incorporating HIV prevention into the medical care of HIV-infected persons. (Box, *verso*).¹

TESTING

Many HIV infections are still diagnosed late. Since 2002, about 40% of Oregonians newly diagnosed with HIV infection have had AIDS at or within 12 months of diagnosis. In a retrospective review of 221 new cases in one medical system, all had risk factors, symptoms or signs that should have triggered earlier HIV testing. Patients unaware of their HIV infection may unknowingly transmit it. Clinicians of all specialties should consistently ask patients about HIV risks and initiate testing upon minimal provocation.

RISK ASSESSMENT AND COUNSELING

Physicians should regularly address risk reduction with their HIV-infected patients, but many do not. One survey found that only 10% of the infectious-disease-trained and 21% of non-ID-trained physicians reported always talking to their patients about condom use. ¹² One out of every four HIV-positive men surveyed reported never having received safer sex counseling from their healthcare provider. ¹³

PARTNER NOTIFICATION

Confidential notification of sex and needle-sharing partners after HIV diagnosis presents a great opportunity to test and counsel others who may be at risk, and to identify new cases for early referral to treatment. However, a randomized trial of partner notification found that newly diagnosed patients aren't reliable in this matter: they notified only 7% of their named partners (each named about

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4); but when the task was assigned to the local health department or shouldered by an intrepid health-care provider, 50% of partners were notified. Overall, 23% of partners tested positive.¹⁴

MEDICAL MORBIDITY MONITORING PROJECT (MMP)

Oregon is one of 20 states participating in this new surveillance designed by CDC and HRSA to gather representative statewide data on clinical care—including healthcare access, unmet needs, transmission risk behavior and outcomes—of patients with HIV. Approximately 40 HIV care facilities and practices and 400 HIV patients in Oregon will be selected randomly during each of the next 3 years. If your practice is selected, we ask that you participate, as this is Oregon's first opportunity to gather these needed data. For more information contact Rochelle Lynam, Project Coordinator; or Sean Schafer, MD, Oregon Principal Investigator, in the HIV/STD/TB Program, 971/673-0153.

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CD SUMMARY

October 18, 2005 Vol. 54, No. 21 PERIODICALS
POSTAGE
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Steps You Can Take to Reduce HIV Transmission in Oregon

Testing

- Test all patients in high-risk settings for HIV such as sexually transmitted disease clinics, or healthcare locations where significant numbers of men who have sex with men or injection drug users are treated.
- Test patients with HIV risk factors in all settings.

Risk Assessment and Counseling

- · Ask HIV-infected patients about sex and drug use at every visit.
- Talk to patients about ways to reduce their risk of transmitting HIV to, or acquiring a new strain from sex or drug partners
- Reinforce incremental changes to safer sex or drug use behaviors
- Refer patients for assistance like substance abuse treatment or counseling to reduce risky sex. (Assistance with behavior change, substance abuse, and diagnosis and treatment of other sexually transmitted diseases may be available from your local health department. Find the number at http://oregon.gov/DHS/ph/lhd/CountyDirectory.pdf.)

Diagnose and treat other sexually transmitted diseases

- Refer patients to local health departments for assistance with partner notification, counseling and testing; or offer to do it yourself. (Voluntary, confidential partner counseling and referral is available through your local health department or by contacting the Oregon HIV/STD/TB Program at 971/ 673-0153.)
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