**HEPP NEWS**

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**ABOUT HEPP**

HEPP News, a forum for correctional problem solving, targets correctional administrators and HIV/AIDS care providers including physicians, nurses, outreach workers, and case managers. Published monthly and distributed by fax, HEPP News provides up-to-the-moment information on HIV treatment, efficient approaches to administering HIV treatment in the correctional environment, national and international news related to HIV in prisons and jails, and changes in correctional care that impact HIV treatment. Continuing Medical Education credits are provided by the Brown University Office of Continuing Medical Education to physicians who accurately respond to the questions on the last page of the newsletter.

**EDITORS**

Anne S. De Groot, M.D.
Director, TB/HIV Research Lab, Brown Medical School

Frederick L. Altice, M.D.
Director, HIV in Prisons Program, Yale University AIDS Program

Joseph Bick, M.D.
Director, HIV Treatment Services, California Medical Facility, California Department of Corrections

**Faculty Disclosure**

In accordance with the Accreditation Council for Continuing Medical Education Standards for Commercial Support, the faculty for this activity have been asked to complete Conflict of Interest Disclosure forms. Disclosures are listed at the end of articles. All of the individual medications discussed in this newsletter are approved for treatment of HIV unless otherwise indicated. For the treatment of HIV infection, many physicians opt to use combination antiretroviral therapy which is not addressed by the FDA.

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**SEXUALLY TRANSMITTED DISEASE IN PEOPLE INFECTED WITH HIV**

Matthew R. Golden MD, MPH*, Univ. of Washington, Dept. of Medicine and Public Health - Seattle & King County

Sexually transmitted diseases (STDs) constitute an important source of morbidity in incarcerated patients. In addition, the presence of an STD is a clear sign of HIV risk behavior. The presence of an STD in an inmate should (1) stimulate a discussion of HIV risk behaviors; (2) prompt a discussion of the need for follow-up HIV testing; and (3) provide an opportunity to teach inmates about the facilitating role some STDs play in HIV transmission. This article reviews the diagnosis and treatment of common STDs and highlights differences in the clinical presentation or management of STDs in the HIV infected patient.

**Epidemiology**

Numerous studies have documented high rates of incident STDs in people with HIV (1,2). Though STD rates in people with HIV declined in the early years of the HIV epidemic (3,4), recent reports of rising numbers of cases of gonorrhea, chlamydial infection and syphilis mandate a state of vigilance, particularly among inmates who have participated in unsafe sexual practices (5). These rising STD rates are concerning not only because they suggest increased levels of unsafe sexual behavior, but also because gonorrhea, syphilis, HSV, and other STDs are associated with increased HIV shedding in genital secretions and, consequently, increased HIV transmission (6).

**STDs in Prisons and Jails**

Limited information on the prevalence of STDs among prison and jails inmates is available. One study, however, estimated that approximately 210,000-345,000 (2.6-4.3%) of inmates released from prisons and jails in 1997 had syphilis at the time of release, 184,000 (2.3%) had chlamydia, and 70,000 (1%) had gonorrhea (7). Studies of women in New York City jails found a much higher prevalence of STDs; 35% of jailed women had syphilis, and 70,000 (1%) had gonorrhea (8). In a separate study, the rate of syphilis infection was determined to be 1000 times higher among women admitted to New York City jails in 1997 (6.5 infections per 100 woman-years) than the rate of syphilis among women in the surrounding community (New York City) (8).

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**Figure 1. Syphilis (RPR+) Prevalence Among Incarcerated Men and Women in Select States (1997)**

[Adapted from the CDC report: Local and State STD Control Programs; Regional Infection Prevention Programs.]

**TREATMENT OF STDs IN HIV-INFECTED PATIENTS**

**Syphilis**

Case reports and case series early in the course of the AIDS epidemic suggested that patients with HIV may be prone to more rapid progression of syphilitic disease and atypical clinical presentations. (See figure 1) In particular, patients with HIV were reported to have early ocular or neurological involvement, gummatous lesions, ulcerative skin lesions and persistent chancres. More recently, a large prospective study of 101 HIV-infected and 440 HIV-uninfected patients with syphilis found that patients with HIV were more likely to have multiple chancres and a slow serologic response to therapy, but were not more likely to have early ophthalmic or neurosyphilis (10).

The laboratory evaluation of syphilis can be altered by HIV. Typically, this evaluation consists of non-treponemal screening tests (RPR) and confirmatory testing with specific treponemal tests (MHA-TP, TPHA, or FTA) when the RPR is positive. Patients with HIV may have atypical results from all of these tests. Among injection drug users with or without HIV, biological false positive results on non-treponemal serological tests (RPR or VDRL) are more common.
STDs…(continued from page 1) mon (thus a positive RPR or VDRL is always followed by a more specific test). In addition, people with HIV are more likely to revert to a negative treponemal test following treatment (11).

In cases where syphilis infection is present (a positive RPR and confirmatory test such as an FTA), clinicians should carefully evaluate the patient and stage the infection. Which patients require lumbar puncture (LP) for presumed tertiary syphilis is controversial. CDC recommends that LP be performed on HIV- and syphilis-infected patients with neurological or ocular symptoms, those with late latent syphilis (>1 years duration), and those who experience a rise in titer following treatment or fail to have at least a 2-dilution decline in serum titer within 6-12 months following therapy. Clinicians should consider performing treponemal tests on cerebrospinal fluid (CSF) for patients with HIV, as other signs of tertiary syphilis (elevated CSF protein and pleocytosis) may be associated with HIV infection and may obscure results. (12)

Case reports of treatment failure, the delayed serological response to therapy, and the recognition of the role typically played by the cellular immune response in controlling syphilis have raised concerns about the adequacy of standard syphilis treatment regimens in HIV patients. To date, prospective studies have not demonstrated that conventional treatment is associated with an elevated risk of treatment failure and CDC treatment recommendations for syphilis do not differ for patients with HIV (see HIV 101, page 7)(13). However, even the largest published study was not adequately powered to exclude the possibility that HIV patients are at significantly elevated risk of treatment failure. Consequently, extra vigilance is required in monitoring HIV patient’s response to therapy and repeat serological testing should be performed 3, 6, 9, 12 and 24 months after treatment.

Herpes simplex virus (HSV)
Genital herpes simplex virus (HSV) infections are extremely common in incarcerated HIV-infected patients. Typical manifestations of genital herpes include pustules, vesicles, ulcers and crusted genital lesions. However, viral shedding in the absence of symptoms or with only mild symptoms such as genital tingling, itching or numbness is common. HSV can also cause urethritis, cervicitis, atypical appearing perianal ulcers and fissures, and proctitis. Diagnosis is usually made clinically but can be confirmed by direct fluorescent antibody testing or viral culture of specimens taken from lesions using a Dacron swab.

In people with HIV, herpes can cause extremely painful and severe lesions that are slow to respond to therapy. Clinical occurrences of HSV reactivation, both symptomatic and asymptomatic, increase in frequency and duration at lower CD4 counts. CDC recommendations for the treatment of genital herpes in patients with HIV do not differ from those without HIV. However, because response to therapy can be delayed, treatment should be continued beyond the standard 10 days if ulcers have not healed or if new lesions continue to appear. Chronic suppressive therapy with anti HSV agents such as Acyclovir (or derivatives such as Famcyclovir or Valacyclovir) have been shown to decrease the frequency and duration of symptomatic outbreaks of genital HSV as well as asymptomatic HSV shedding in patients with HIV. Suppressive treatment should be considered in patients with frequent or severe recurrences (14). While acyclovir resistance has very seldom been a problem in immunocompetent patients, resistance does occur in the context of HIV associated immunosuppression and, resistance testing should be performed in HIV-infected patients who fail to respond to therapy. Foscarnet is the drug of choice to treat resistant virus.

Human Papillomavirus (HPV)
More than 100 different human papillomaviruses (HPV) have been detected and, combined, these viruses are the most common STD. Current studies suggest that over 50% of sexually active adults have been infected with one or more HPV types (15). Most often, HPV infection causes genital warts, however some types of HPV infection are linked to cancer. While overlap in clinical manifestations exists, HPV types 16, 18, 31 and 35 are responsible for most cases of cervical and anal cancer, whereas types 6 and 11 are the most common causes of genital warts.

Anogenital warts most commonly present as verruous (cauliflower appearing) or papular lesions (condyloma acuminata). Less frequently, warts can be keratotic (like palmar warts), smooth (dome-shaped), or flat. Flat warts are more common within the vagina. Warts can occur anywhere in the anogenital area and usually are asymptomatic, though some patients complain of rectal discomfort, itching, burning or discharge, symptoms that they frequently attribute to hemorrhoids. HIV patients with CD4 counts below 50 are more likely to have diffuse condylomata. At higher CD4 counts, extensive warts and the prevalence of HPV of low oncogenic potential do not appear to be increased (16).

Therapy for genit al warts can be divided into patient applied-treatments and provider applied or administered treatments (see HIV 101, page 7). An excellent review of these treatments was recently published (17). CDC recommendations for wart treatment do not differ for people with HIV. No consensus exists regarding a single best approach, therefore decisions regarding care need to factor in patient preference, patient ability to follow application instructions, wart location and accessibility, and cost. Referral to a specialist is indicated if no improvement is seen after 3 treatments, complete clearance has not occurred after 6 treatments, or continued treatment would extend beyond the duration recommended by manufactures of patient applied therapy. Over treatment should be avoided. Unfortunately, recurrence of warts following treatment is extremely common. Patients with more extensive disease or those who are prone to recurrence. Treatment with HAART has been associated with a significant decline in wart recurrence (18).

HIV-related immunosuppression is associated with an elevated risk of genital shedding of oncogenic HPV types, cervical and...
Dear Colleagues,

Whenever I see a patient with a sexually transmitted disease in my prison HIV practice, my mind invariably travels back to a prison for women in Framingham, Massachusetts, where an STD nurse by the name of Virginia Cram reigned the intake facility. Ginny never lost an opportunity to teach her "girls" about the link between STDs and HIV infection. Every time she discovered an STD, she pushed her patient to agree to get tested for HIV infection because, as she said, "if you got that infection - just imagine what else could have been sashaying around down there..." She taught the women in her care that STDs are linked to HIV - not only because they are chummy fellow travelers, but also because STD infections can increase the risk of acquisition of HIV. Ginny's style of intervention was extremely effective - many of her girls did get tested for HIV infection, and I like to believe that some of the Framingham women may have avoided HIV infection as a result of her effort to use every STD treatment as an educational opportunity.

The importance of screening for STDs in prison and jail settings and treating those infections cannot be overemphasized. Screening for syphilis has been shown to be a cost-saving public health intervention in jails - and screening for other STDs is extremely cost effective particularly in locations where STD prevalence is high. Rapid tests such as the Stat RPR and rapid chlamydia screening tests have facilitated the treatment of STDs, making their management completely feasible, even in the high turnover setting of a city jail. Implementation of the Stat RPR in the Cook County jail system in Chicago has had a tremendous impact on overall syphilis rates in Chicago, underscoring, once again, the impact of prison and jail interventions on public health.

After reviewing this issue of HEPP News, readers should be able to describe the epidemiology and treatment of syphilis, chlamydia, trichomonas, herpes, and warts in an HIV-infected patient.

Next month, Kris Herfkens from North Carolina will discuss mental health issues in treating HIV infected patients, and HEPP News will provide tools for diagnosis of mental health conditions.

We are pleased to announce that as of Friday, December 22, Continuing Medical Education (CME) credit will be available online through HEPP News at www.HIVcorrections.org! Try it out this week!

And finally, we wish you all a happy and safe holiday!

Sincerely,

Anne S. De Groot, M.D.

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Subscribe to HEPP News and/or HIV Inside

Fax to 401.863.1243 for any of the following: (please print clearly or type)

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- Yes, I would like to sign up the following colleague to receive a complimentary subscription of HEPP News fax newsletter.
- Yes, I would like to order the following back issues (please include volume/issue/date).
- Yes, I would like my HEPP News to be delivered in the future as an attached PDF file in an e-mail (rather than have a fax).
- Yes, I would like to add my contact information for my complimentary subscription of HIV Inside.

NAME: ____________________________________________

FACILITY: ______________________________________ (Optional) # of HIV Infected Inmates: ______

CHECK ONE:   O Physician  O Physician Assistant  O Nurse Practitioner  O Nurse/Nurse Administrator
               O Pharmacist  O Medical Director/Administrator  O HIV Case Worker/Counselor  O Other

ADDRESS: _______________________________________

CITY: ____________________________ STATE: ____________ ZIP: _______________

FAX: ____________________________ PHONE: ___________________ E-MAIL: ____________

SIGNATURE: ______________________ DATE: _____________

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Senior Advisors
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Ned E. Heltzer, R.Ph., M.S.  Prison Health Services, Inc.
Ralf Jürgens
Canadian AIDS Law Legal Network
David P. Paar, M.D.  University of Texas Medical Branch
Joseph París, Ph.D., M.D.  CCHP Georgia Dept. of Corrections
Khurram Rana, Pharm. D.  University of RI College of Pharmacy
David Thomas, J.D., M.D.  Florida Dept. of Corrections
Lester Wright, M.D.  New York State Dept. of Corrections

Associate Editors
Betty Rider, M.A., M.S.  North Carolina Division of Prisons
Anne C. Spaulding, M.D.  Brown Medical School
Stephen Tabet, M.D., M.P.H.  Univ. of Washington Division of Infectious Disease Seattle HIVNET
David A. Wohl, M.D.  University of North Carolina

Managers
Dennis Thomas  HIV Education Prison Project
Michelle Gaseau  The Corrections Connection

Layout
Kimberly Backlund-Lewis  The Corrections Connection

Promotion and Distribution
Amanda Butler  Cimon Consulting Group

Managing Editor
Elizabeth Stubblefield  HIV Education Prison Project

The editorial board and contributors to HEPP News include national and regional correctional professionals, selected on the basis of their experience with HIV care in the correctional setting and their familiarity with current HIV treatment. We encourage submissions, feedback, and correspondence from our readership.
STDs... (continued from page 2)

anal dysplasia, invasive cervical cancer and possibly anal cancer. Incarcerated women with HIV infection should have regular Pap screening. Many correctional institutions have set guidelines for performing Pap smears every 6 months for incarcerated women as they belong to a very high risk group with limited access to healthcare outside correctional facilities. Care is then based on Pap smear results as detailed in published guidelines (19). While some authorities have advocated anal Pap smears be done on men with HIV, the natural history of anal dysplasia remains ill-defined and the utility of Pap smears in preventing cancer is controversial. Current guidelines do not recommend anal Pap smears for men (20). However, clinicians should have a low threshold for performing biopsies on suspicious lesions.

Gonorrhea and Chlamydial Infection
Neisseria gonorrhoeae and Chlamydia trachomatis are common causes of STD in people with HIV. Gonococcal urethritis is symptomatic in over 80% of cases, however, chlamydial urethritis is asymptomatic in as many as 50% of cases, and most cervical, pelvic and anorectal infections with both pathogens are asymptomatic. Urethral Gram stain is 95% sensitive in detecting gonorrhea, but rectal and cervical testing are much less sensitive, and culture or DNA amplification testing are generally required to make a diagnosis. Laboratory tests for detecting Chlamydia trachomatis vary in sensitivity from 30-98% (21). DNA amplification testing is most sensitive and is recommended when available. HIV is not known to affect the natural history of these infections in men, however, pelvic inflammatory disease in women with HIV may be more protracted and the risk of tubo-ovarian abscess may be increased (22). Recommended treatment of these infections is the same as for non-HIV infected persons.

Vaginal discharge: Trichomonas, Candida, and "Bacterial Vaginosis"
Trichomonas vaginalis, a protozoan STD, is a common cause of vaginal discharge, may increase the risk of transmission of HIV, and may also predispose pregnant HIV-infected women to premature rupture of membranes and early labor. Diagnosis is difficult, since the symptoms of trichomoniasis mimic those of other STDs and detection methods lack precision. Although current treatment protocols involving nitroimidazoles are curative, reinfection is common among incarcerated women. Yeast (Candida albicans) infections are also extremely common among HIV-infected women and recurrent vaginal yeast infections may be the first presentation of HIV infection. Topical treatment is usually effective, however chronic suppression with oral fluconazole is necessary in some cases of frequent recurrence. Resistance may occur. Bacterial vaginosis, the most common cause of vaginal discharge or malodor, is caused by mixed flora including anaerobic bacteria, Gardnerella vaginalis, and Mycoplasma hominis. Metronidazole is effective.

STD Screening in Incarcerated Populations of People with HIV
A major challenge for STD treatment is related to the high population turnover rate - more than 50% of arrestees are released within a 48 hour period (8, 22). This high turnover rate makes STDS screening an even more important public health intervention. However, despite widespread knowledge about the high STD prevalence among newly incarcerated women and men, less than half of city and county jails surveyed in a CDC study had implemented "routine STD screening" policies. Most facilities polled for the study said that STD testing was performed only if a patient requested the test or if the patient presented with STD symptoms (see Table 1) (23).

In light of these challenges, correctional facilities should develop routine STD screening programs, especially for persons with HIV (24). STD screening should be performed fairly regularly after incarceration (in conjunction with Pap smears) as both HSV and Trichomonas have been noted to be increased in HIV-infected incarcerated women.

Chlamydia and Gonorrhea
The CDC recommends chlamydial screening for all sexually active women under age 20, women 20-24 with either more than one partner in the preceding 60 days or a history of inconsistent use of barrier contraception, and women 25 and over with both of these risk factors. Many recently incarcerated women would qualify for gonorrhea, syphilis, and chlamydia screening by these criteria.

Over the last decade, chlamydial screening programs have been established in some correctional facilities in the U.S, though most US city and county jails test for STDs only if inmates present for symptoms (25). The prevalence of chlamydia infection detected by jail based screening programs has generally vastly exceeded that seen in non-incarcerated populations (26).

Human Papillomavirus (HPV)
HPV-associated cervical cancer can be prevented by routine Pap screening. Among HIV-infected incarcerated women, 6-monthly or annual pelvic exams for Pap smears are already part of routine HIV care.

Syphilis
Screening for syphilis in jail populations has been shown to be cost-saving, however, screening is still not routine in many facilities (Table 1) (23). Screening should be routine for all incarcerated HIV-infected patients at the time they initiate care for HIV (if not already performed at intake). The RPR test should be repeated annually, regardless of whether or not patients are released to the community and return to prison (27). Clinicians should maintain a low threshold for repeating the RPR test in the assessment of patients with genital ulcers, new rashes of uncertain etiology and changes in mental status.

A study at the Cook County Jail in Chicago (CCJ) demonstrates the public health importance of syphilis screening in corrections. CCJ used the "stat RPR" test to screen for syphilis. As a result, the number of cases identified at the CCJ increased from 10% of Chicago's total to 22%. After implementation of the Stat RPR protocol in the CCJ, cases of early syphilis rates for women in the Chicago actually decreased by 24%. This certainly suggests that declining syphilis morbidity in the city might be related to increased screening and improved treatment (24).

Another approach, implemented in NYC, involved developing an algorithm for triaging patients based on RPR tests and city records. Use of this algorithm led to an increase in the number of patients treated for syphilis from 7% to 84% of women and 88% of pregnant women. Seven out of eight babies, who might otherwise have required treatment for congenital syphilis did not need to be treated because their mothers were adequately treated while incarcerated (8).

Screening for STDs in men
Very little data on screening for STDs in HIV infected incarcerated men currently exists. Given the important role that asymptomatic prevalent STDs may play in HIV transmission, it seems reasonable to err on the side of extra screening as data accumulates. One approach is to screen at least annually for rectal gonorrhea and chlamydial infection by culturing all men who may have engaged in receptive anal intercourse, screen all recently incarcerated men for urethral chlamydial infection, and culture the pharynx for gonorrhea in patients who may have engaged in receptive oral sex (28).

Conclusion: Counseling is Key for Prevention
Counseling about safer sexual habits should be a routine part of the screening process. Providers should emphasize that adopting safer behaviors is important not only to prevent HIV transmission, but also to safeguard the patient's individual health. It is important to use every STD clinic visit as an opportunity to educate the patients about well recognized and common STDs (gonorrhea, chlamydial infection, syphilis, herpes, warts) as well as diseases that many patients may not generally associate with sexual transmission, such as cervical and anal cancer, Kaposi's sarcoma, and, possibly, drug-resistant HIV. In cases of bacterial STDs and HIV, providers should emphasize the importance of notifying sex partners and, when needed and possible, should request the assistance of public health authorities to do so.

References on page 5
STDs... (continued from page 4)

*Nothing to disclose.

REFERENCES:
A Year of Updates...
(continued from page 5)

220 protocols. Investigators conducting 26 research protocols were allowed to continue currently enrolled prisoner subjects in “the interest of their health or well-being.” (5) The OHRP requested that UTMB provide a detailed list of suspended protocols and re-review a number of protocols under the full IRB. Lastly, the prisoner research protocol suspension was required to remain in place until UTMB had a new prisoner advocate (according to UTMB, the new representative was recently accepted by OHRP), and until UTMB re-reviewed those protocols requesting inclusion of prisoners.

Glaxo Wellcome’s HIV studies in Prisons
Glaxo Wellcome had at least two studies involving prisoners as human subjects when the OHRP began their investigation of prison research this year. NZTA4006, 4007 studied genotypic patterns after virologic failure. The second study reviewed adherence among inmates on compact triple nucleoside therapy. Glaxo research sites included correctional facilities in Florida, Rhode Island, Texas, South Carolina, and Arkansas, under a central IRB. According to company spokespersons, no problems were found in Florida, Rhode Island, South Carolina, or Arkansas. In Texas, new enrollment in those studies was suspended. Some of the subjects in NZTA4007 were “rolled over” into another protocol (ESS4005) which includes patients inside and outside the correctional system (6).

Results from the studies performed in Texas, Florida, and Rhode Island were presented at the 5th International Congress on Drug Therapy in HIV Infection (Glasgow, UK 22-26 October 2000) (7,8), and a manuscript is in preparation. Some of the subjects in NZTA4007 were “rolled over” into another protocol (ESS40005) which includes patients inside and outside the correctional system.

For-profit companies can obtain IRB approval for studies involving human subjects from for-profit (and not-for-profit) IRBs. These boards are required to review the studies according to FDA regulations (see FDA regulations in Table 1). If, however, the institution has “multiple project assurance” (MPA) with HHS and has indicated that it will review all research in accordance with that assurance, regardless of whether the research is supported or conducted by the Department, then the IRB is bound to review and approve or reject protocols in accordance with OHRP regulations.

Expanding the Review Process
The new HHS investigative branch, OHRP, found that Rhode Island, Texas, Florida and Connecticut responded appropriately to the OHRP investigations. The need for research involving prison inmates, however, continues to grow, adding to what HHS secretary Donna Shalala recognizes is an already overwhelmed IRB system. In a letter to the New England Journal of Medicine, Shalala underscores the need for IRBs and research institutions to adhere to existing HHS regulations and strengthen current IRB review processes (NEJM, September 14, 2000: 343(11): 808-810, also available at http://www.nejm.org/content/2000/0343/0011/0808.asp). Shalala writes, “Aggressive recruiting by researchers who have been offered money or other inducements [for recruiting subjects] may be contributing to the erosion of informed consent.” The new OHRP intends to clear up possible violations of HHS regulations and ensure that IRBs closely follow these guidelines. According to Shalala, “Much brilliant biomedical research is being done in universities and academic health centers... and we [the federal government] have a responsibility to make sure the money we invest...is not used in ways that harm people participating [in that research].” (9)

The complete reports from the Conference on Clinical Trials in Corrections in Providence, Rhode Island October 13-15, 1999 have been published in the Journal of Medicine and Health, Rhode Island. For copies contact the Rhode Island Medical Society at 401.331.3207.

References:
1. Letter, August 28, 2000, from Sanford Leikin, MD, Compliance Oversight coordinator, Division of Human Subjects Protections, to Peggy McGill, Office of Research Administration-Lifespan, The Miriam Hospital, Providence, Rhode Island.
3. Letter, July 27, 2000 from Carol J. Weil, JD, Compliance Oversight Director, Division of Human Subject Protection, Health and Human Services to Dr. Alison F Richard, Provost, Yale University.
4. Letter, July 31, 2000 from Sanford Leikin, MD, Compliance Oversight coordinator, Division of Human Subjects Protections, to Norman Altman, University of Miami, FL; Ira Clark, Public Health Trust, Miami FL; and Gus Godoy, VA Medical Center, Miami FL.
5. Letter, July 10, 2000, from Michael A. Carome, Chief, Compliance Oversight Branch, Division of Human Subject Protections, OHRP to Dr. Dorothea Wilson, Vice President for Research, UTMB.
### Treatment of STDs Commonly Seen with HIV

<table>
<thead>
<tr>
<th>TREATMENT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chlamydia Trachomatis</strong></td>
<td>none</td>
</tr>
<tr>
<td>First episode</td>
<td>Genital Acyclovir 200 mg po 5x/day or 400 mg po tid or Famciclovir 250 mg po tid or Valacyclovir 1 mg po bid. All regimens should be given 7-10 days or until clinical resolution.</td>
</tr>
<tr>
<td>Recurrent episodes</td>
<td>Immunosuppressed patients such as those with HIV can benefit from the use of Acyclovir.</td>
</tr>
<tr>
<td>Prophylaxis</td>
<td>Recommendations are (see comments):</td>
</tr>
<tr>
<td>a. Urethral, endocervical, rectal, pharyngeal</td>
<td>Acyclovir 400 mg po bid or Valacyclovir 500 mg po bid or Famciclovir 250 mg po bid or 1 gm po qd or 250 mg po bid</td>
</tr>
<tr>
<td>b. Disseminated GC</td>
<td>Ceftiraxone 1 gm IV or IM qd</td>
</tr>
<tr>
<td><strong>Neisseria Gonorrhoeae</strong></td>
<td>Concurrent treatment of presumed C. trachomatis: Doxycycline* 100 mg po bid x 7 days or Azithromycin 1 gm po x 1</td>
</tr>
<tr>
<td>Alternatives for Disseminated GC:</td>
<td>Cefotaxime 1 gm IV q8h or Ceftizoxime 1 gm IV q8h or Spectinomycin 2 gm IM q12h</td>
</tr>
<tr>
<td>Duration:</td>
<td>Parenteral therapy until 24-48 hrs after symptoms resolve, then Ceftizime 400 mg po bid or Ciprofloxacin* 500 mg po bid to complete &gt;1 wk treatment</td>
</tr>
<tr>
<td><strong>Syphilis</strong></td>
<td>Penicillin is drug of choice.</td>
</tr>
<tr>
<td>Primary, secondary, early latent (&lt;1 year):</td>
<td>Lumbar puncture recommended for late latent or syphilis of unknown duration (Some authorities recommend LP for all HIV positive patients with early syphilis either at outset or 6 months after therapy.)</td>
</tr>
<tr>
<td>Benzathine penicillin 2.4 mu IM x 1</td>
<td>For Neurosyphilis, repeat LP is required every 6 months until CSF cell count is decreased</td>
</tr>
<tr>
<td>Late latent or syphilis of unknown duration:</td>
<td>Penicillin G 18-24 mu IV qd, divided q4h x 10-14 days</td>
</tr>
<tr>
<td>Benzathine penicillin 2.4 mu IM q week x 3</td>
<td><strong>Patient Applied Therapy</strong></td>
</tr>
<tr>
<td>Neurosyphilis</td>
<td>Podoflox</td>
</tr>
<tr>
<td>Penicillin G 18-24 mu IV qd, divided q4h x 10-14 days</td>
<td>40-82% total clearance within 4-6 weeks</td>
</tr>
<tr>
<td><strong>Warts</strong></td>
<td>4-33% recurrences</td>
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<tr>
<td>Provider-Administered Therapy</td>
<td>Imiquimod</td>
</tr>
<tr>
<td>Cryotherapy</td>
<td>37-85% total clearance</td>
</tr>
<tr>
<td>60-97% clearance at 3-6 weeks</td>
<td>13-19% recurrences</td>
</tr>
<tr>
<td>20-79% recurrence</td>
<td>Cannot be used on mucosal surfaces</td>
</tr>
<tr>
<td>Podophyllin</td>
<td>Tetracycline, fluoroquinolones contraindicated in pregnancy</td>
</tr>
<tr>
<td>Use only for &lt;10cm² area</td>
<td>Important Note: Providers should review this information and evaluate the risk-benefit ratio of treating warts in pregnant women.</td>
</tr>
</tbody>
</table>
Recommended Correctional Clinical

National Public Radio's series on
"The Price of Punishment"
Boston public radio station WBUR
has produced a series of stories on
prisons and jails in Massachusetts
and nationwide. The series discusses
various topics including the
increasing number of women
behind bars, the stresses of over-
populated prisons (MCI Framingham
is currently 125% over capacity),
and a few personal stories.
Visit their site online at
http://wbgr.org/prison/women.shtml

National Commission on
Correctional Health Care: Draft
Recommended Correctional Clinical
Guidelines
http://www.ncchc.org/clinicaldrafts/
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http://ohrp.osophs.dhhs.gov/

Food and Drug Administration
http://www.fda.gov

Institutional Review Board
Guidebook, 1993
http://ohrp.osophs.dhhs.gov/irb/
irb_guidebook.htm

Code of Federal Regulations Title
45 Part 46 Protections for Human
Subjects:
http://ohrp.osophs.dhhs.gov/humansubjects/guidance/45cfr46.htm

STD Websites:
CDC's Center for STD Prevention
http://www.cdc.gov/nchstp/dstd/
dstdp.html

DHHS Treatment Guidelines
http://www.hivatis.org

MMWR 1998 Guidelines for
Treatment of Sexually Transmitted
Diseases
http://www2.cdc.gov/mmwr

Internet Grateful Med
http://igm.nlm.nih.gov/

Mediconsult
http://www.mediconsult.com

Resources

News Flashes

MMWR reports on 1999 TB Outbreak in
South Carolina Prisons
Thirty-one cases of tuberculosis (TB) were
confirmed among HIV-infected male inmates and
parolees who had resided in the same
dormitory designated for HIV-infected inmates
in a South Carolina prison. The outbreak origi-
nated with an inmate who had infectious TB
that was undiagnosed for at least two months.
This outbreak demonstrates that the rapid
spread of TB among incarcerated individuals
and their health care providers acna be a con-
sequence of segregated housing for HIV-
infected inmates. (CDC. MMWR 11/24/00;
49(46): 1041-1044).

Higher Prevalences of STDs Reported at
STD Conference
For the first time in twenty years, Gonorrhea
incidence is on the rise, according to CDC
data presented at the National STD
Prevention Conference, December 4-7, 2000,
Milwaukee, WI. CDC's Ronald O. Valdiserri
attributes the increase in part to better tests
and more widespread screening. The national
rate of gonorrhea infection is 133 cases per
100,000 people, 849 cases per 100,000
African Americans, 75 per 100,000 Hispanics,
and 28 per 100,000 whites. The CDC reported
that chlamydia is more common than both
gonorrhea and syphilis, with 254 cases per
100,000 last year. Human papillomavirus is
the most common STD, and strain HPV-16 is
responsible for about half of all cervical
cancers. The good new is, however, that syphilis
cases continue to fall. The rate of infection is
2.5 cases per 100,000, and 79% of the coun-
try's 3,115 counties reported no new cases in
1999. (Brown, David. "Gonorrhea Decline
Reverses: Cases Up 9%. Washington Post,
www.washingtonpost.com).

New Formulations of Interferon-alpha better
at fighting HCV
A new version of interferon alpha, "pegylated
interferon," fights hepatitis C much better than
its predecessor. Two recent reports in the New
England Journal of Medicine compared
Hoffmann-La Roche's "Pegasys" to the com-
pany's standard interferon, Roferon-A

2001 ACA Winter Conference
January 22-24, 2001
Nashville, Tennessee
Call: 1-800-222-5646, ext. 1922
Fax: 1-301-918-1900
Visit: www.corrections.com/aca

8th Conference on Retroviruses and
Opportunistic Infections
February 4-8, 2001
Sheraton Chicago Hotel and Towers, Chicago, IL
Call: 703.535.6862
Fax: 703.535.6899
E-mail: info@retroconference.org
Visit: www.retroconference.org

Visit: http://www.corrections.com/aca

FDA Approves Trizivir (ABC/AZT/3TC)
The FDA has approved Trizivir for the treat-
ment of HIV in adults and adolescents. The
recommended dose is one tablet twice a day.
Each dose of Trizivir is a fixed-dose combi-
ation of Ziaen (abacavir/ABC), Retrovir
(zidovudine/AZT), and Epivir (lamivudine/3TC),
three nucleoside reverse transcriptase
inhibitors (NRTIs) already approved by FDA.

Save the Dates

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Brown Medical School designates this educational activity for 1 hour in category 1 credit toward the AMA Physician's Recognition Award. To be eligible for CME credit, answer the questions below by circling the letter next to the correct answer to each of the questions. A minimum of 70% of the questions must be answered correctly. This activity is eligible for CME credit through Dec. 22, 2001. The estimated time for completion of this activity is one hour and there is no fee for participation.

CME is now available ONLINE at www.hivcorrections.org

1. Which of the following statements are true about the laboratory evaluation of syphilis in an HIV infected patient?
   a) HIV does not alter the laboratory evaluation of syphilis.
   b) Evaluation consists of non-treponemal screening tests (RPR or VDRL).
   c) A positive evaluation should be confirmed with specific treponemal tests (MHA-TP, TPHA, or FTA).
   d) b and c
   e) all of the above

2. An HIV patient receiving treatment for syphilis should undergo repeat serologic testing to monitor the patient's response to syphilis therapy. How often should serologic testing be performed?
   a) 3, 6, 9, 12 and 24 months after treatment.
   b) Every 6 months until CSF cell count is decreased.
   c) Every 6 months for two years
   d) b and c

3. Which of the following statements are true concerning Herpes simplex (HSV) in an HIV infected patient?
   a) Acyclovir resistance can occur in patients with HIV associated immunosuppression.
   b) Because response to therapy can be delayed, HSV treatment should be continued beyond the standard 10 days if ulcers have not healed or if new lesions continue to appear.
   c) Foscarnet may be used to treat resistant virus.
   d) b and c
   e) all of the above

4. CDC guidelines recommend that which of the following populations of women should be screened for chlamydia infection?
   a) sexually active women under 20
   b) women 20-24 with more than one sexual partner in the preceding 60 days
   c) women 20-24 with a history of inconsistent use of barrier contraception
   d) b and c
   e) All of the above

5. What percentage of chlamydia cases are asymptomatic?
   a) >80%
   b) 50%
   c) >40%
   d) 35%

6. Which of the following STDs may cause pelvic inflammatory disease among women?
   a) Syphilis
   b) Trichomonas
   c) Human Papillomavirus (HPV)
   d) Gonorrhea
   e) b and c
   d) All of the above

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