Gynecology OB.GYN. NEWS • May 15, 2005

M. genitalium Infects 11% of Sexually Active Teens

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LOS ANGELES — Mycoplasma genitalium infection had an incidence of 11% in the first study to investigate the epidemiology of this newly recognized sexually transmitted disease in female adolescents, Aneesh K. Tosh, M.D., said at the annual meeting of the Society for Adolescent Medicine.

The study involved 233 female adoles-

cents who were each followed for 27 months, with vaginal samples collected and sexual history interviews conducted every 3 months. Of the study subjects, 85% were sexually active—with an average age of first sexual intercourse of 14 years—and 85% were African American. All lived in an urban area.

During the study, 26 of the 233 subjects tested positive for a M. genitalium infection, said Dr. Tosh of the department of pediatrics at Indiana University. Only one

of those infections was present at the start of the study. Nine of those who tested positive also tested positive on repeated occasions.

None of the participants who was sexually inactive ever tested positive.

Factors that were identified as being associated with infection were a greater number of sexual partners in the prior 3 months and concurrent chlamydia infection. Condom use, or the lack thereof, and concurrent gonorrhea or trichomonas infection were not associated with M. genitalium. There were few non-African Americans in the study, but there was no difference in incidence of M. genitalium infection by race, Dr. Tosh said.

Male sexual partners of the subjects were invited to participate in the study, and 94 partners were enrolled. Four of 17 partners of those females who tested positive for infection also tested positive at some time (25%), and two of 77 partners of uninfected females tested positive (3%).

M. genitalium was first isolated in 1980, Dr. Tosh said. Because it is a small organ-

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ism that is difficult to culture, reliable testing was not available until the advent of laboratory polymerase chain reaction techniques. Until this study, most studies have been conducted with males and

in STD clinics, though infection in females has been implicated in urethritis, cervicitis, salpingitis, and endometritis.

Currently there are no recommendations for treatment, because there is no approved clinical assay, though many believe guidelines of some sort [are likely to become available] soon, Dr. Tosh said.

None of the subjects in the study was treated, because the samples were collected a few years before the subjects were tested for M. genitalium.

26 tested positive for M. genitalium infection. None of

Study Identifies Risk Factors for **HSV-2 Shedding**

ormonal contraception and two Hormon genital tract conditions appear to be among the risk factors for genital tract shedding of herpes simplex virus

In a 12-month study of 330 women who were evaluated every 4 months, independent predictors of genital tract shedding of HSV-2 were HSV-2 seroconversion during the previous 4 months (adjusted odds ratio [OR] 3.0), bacterial vaginosis (adjusted OR 2.3), heavy colonization with group B streptococcus (adjusted OR 2.2), and the use of hormonal contraceptives (adjusted OR 1.8), according to Thomas L. Cherpes, M.D., and his colleagues at the University of Pittsburgh (Clin. Infect. Dis. 2005; 40:1422-8).

Because hormonal contraception is widespread, and bacterial vaginosis and vaginal group B streptococcus colonization are two of the most common genital conditions in women of reproductive age, the associations between these variables and increased genital tract shedding of HSV-2 is of concern.

—Sharon Worcester



Patients should be counseled that this product does not protect against HIV-infection (AIDS) and other sexually transmitted disease

remains to be determined.

Throughout this subling, epidemiological studies reported are of two types: refrospective or case control studies and prospective or ordon't studies. Case control studies provide a measure of the relative risk of a disease namely, a ratio of the incidence of a disease among road contraceptive users to that among noruses. The relative risk of secon provide information on the actual clinical cocurrence of a disease. Dehot studies provide are users of attributable risk, which is the difference in the incidence of disease between oral contraceptive users and nonusers. The attributable risk does provide information about the reader is referred to a text on epidemiological methods.

1. Thromtoembolic Disorders and Other Vascular Problems: Use of Seasonade® provides women with more hormonal exposure on a yearly, basis than conventional monthly oral contraceptives containing similar strength synthetic estrogers and prospective and additional 49 weeks per year). While this addited exposure may pose an additional risk of thrombotic and thromboembolic disease, studies to date will Seasonale have not suggested an increased risk of these discorders.

a. Mycocardial Infanction: An increased risk of mycocardial infanction has been attributed to oral contraceptive use. This risk is primarily in smokers or commany active years and contraceptive uses the endough of the contraceptive uses the endough of the problems of the incidence of the contraceptive and of the period problems of the incidence of the problems of the problems of the incidence of the problems of the incidence of the problems of the problems of the problems of the incidence of the problems of the pr

- Hepatic Neoplasia: Renign hepatic adenomas are associated with oral contrareptive use, although their occurrence is rare in the United States, indirect calculations have estimated the attributable risk to be in the range of 3.5 cases/10,000 for users, a risk that increases after four or more years of use. Rupture of hepatic adenomas may cause death through intra-abdominal hemorrhage.

 Studies from Britain have shown an increased risk of developing hepatocellular carcinoma in long-term (>8 years) oral contraceptive users. However, these cancers are extremely rare in the U.S., and the attributable risk (the excess incidence) of liver cancers in oral contraceptive users approaches less than one per million users.
- iological studies have revealed no increased risk of birth defects in women who have used oral contraceptives prior to preg-so do not suggest a tentogenic effect, particularly in so far as cardiac anomalies and limb-reduction defects are concerned, when y during early repranny (see COMTRABIOLATIONS section), n of oral contraceptives to induce withdrawal bleeding should not be used as a test for pregnancy. Oral contraceptives should

- administered with combination oral contraceptives.

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 radions with Laboratory Tests: Certain endocrine and liver function tests and blood components may be affected by oral contraceptives: Increased protinrombin and factors VIII, VIII, X and X; decreased antithrombin 3; increased protinrombin and factors VIII, VIII, X and X; decreased antithrombin 3; increased protinrombin and factors VIII, VIII, X and X; decreased antithrombin 3; increased protinrombin and factors VIII, VIII, X and X; decreased antithrombin 3; increased protinrombin and factors VIII, VIII, X and X; decreased antithrombin 3; increased and cold thrombin 4; increased and antithrombin 4; increased and antithrombin 3; increased and antithrombin 4; increased and antithrombin 4; increased and antithrombin 4; increased and conticodis; however, free or biologically active levels remain unchanged.

 Triglocrifices may be increased and levels of various other lipids and lipoproteins may be affected.

 Glucose tolerance may be decreased.

 Sex home folder levels may be depressed by oral contraceptive therapy. This may be of clinical significance if a woman becomes pregnant shortly, after discontinuing oral contraceptives.

OSAGE: Serious ill effects have not been reported following acute ingestion of large doses of oral contraceptives by young children. Overdosage use nausea, and withdrawal bleeding may occur in females.

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