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Prenatal Diagnosis of Fetal Cytomegalovirus (CMV) Infection
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Introduction: The objectives were: 1. to present our preliminary experience in sixteen pregnant women undergoing a prenatal evaluation to assess for fetal infection; 2. to estimate the reliability of CMV-specific IgM as an indicator of fetal infection using polymerase chain reaction (PCR) for amplification of DNA. Patients: Sixteen patients were referred for prenatal diagnosis of suspected fetal cytomegalovirus infection (CMV). Two women had documented positive IgG and IgA titres in the first trimester of pregnancy and two in the second trimester. Twelve patients were evaluated because of abnormal ultrasonographic examinations under suspicion of fetal infection.

Methods: Mother’s serum was assayed for the presence of CMV-specific IgM by an enzyme-linked immunosorbent assay (ELISA). Four methods of fetal diagnosis were employed involving a combination of amniocentesis, fetal blood sampling, prenatal paracentesis and thoracocentesis. Six fetuses underwent fetal intervention at a median gestational age (range 28 to 30 weeks). Five out of sixteen cases had bilateral pleural effusions and hydrops. DNA was extracted from cultures of mother’s blood and urine, amniotic fluid, fetal cord blood, pleural effusions and ascetic fluid. For the detection of CMV DNA in DNA preparations the nested-PCR test constructed in the Center of Microbiology and Virology IAS and PCR based TaKaRa (Japan) Human Cytomegalovirus infection was used.

Results: Out of twelve patients evaluated because of abnormal ultrasonographic examinations suggestive fetal CMV infection serological methods (positive IgG and negative IgM) in three cases DNA studies confirmed the presence of fetal CMV infection. Out of four patients with positive serological tests in one case with positive IgG, IgM and IgA DNA studies documented the presence of fetal infection and in three patients results suggested most likely a false-positive IgM.

Investigation of the Immune and Interferon Systems in Patients With Various HPV Type
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Introduction: Human papillomavirus (HPV) 16 and 18 has the most frequent causal contribution to the origin of cervical cancer. Since development of most cancers connect with an incompetence of immune and interferon (IFS) systems, the objective of the study was investigation of immune and IFS systems in patients with various HPV types.

Materials and Methods: We studied immune and IFS status in 117 patients with HPV detected by traditional and modern diagnostic technologies (PCR and DNA HPV Hybrid Capture). The using of DNA HPV Hybrid Capture let us separate the patients into two groups: high-risk HPV (1) and low-risk HPV (2). The third group (control) consisted of 43 women without HPV infection. We have detected lymphocytic subpopulations composition peripheral blood by cytofluorimetry methods with using monoclonal antibodies (Beckton Dickinson, USA).

Results: In the group with high-risk HPV the significant immune and IFN systems changes were detected in comparison to the group with low-risk HPV and among the controls. Statistic analysis of the lymphocytic subpopulations composition data shows significant differences in lymphocytic markers expression in both groups compared to controls. Amount of CD8+ lymphocytes increased in the high-risk HPV group and consequently CD4+/CD8+ ratio decreased. Marker CD69+ was detected (after in vitro cell stimulation) in 65.8% cells in group (1) at that time, in group (2) and control patients it was 55.4% and 53.6% cells respectively. The indexes of α-IFN decreased 4-6 times and those of γ-IFN decreased 6-8 times in comparison to control group. A dramatic elevation of serum and spontaneous IFN was found.

Conclusion: Diseases of the lower genital system caused by HPV develop in the presence of suppression of immune and interferon systems, reliable decrease of gamma-interferon followed by an increase of serum interferon, and suppression of T-cellular chain activity which is expressed by an increase of CD8+ leukocytes and a decrease in CD4+/CD8+ ratio. This study leads to an individual choice of immunocorrectors for a patient in accordance with individual therapeutic approach, based on the individual hyperactivity.

Vaginal Microflora in Women Using Oral Anticonception
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Introduction: A normal vaginal flora can be defined as a lactobacillus dominant ecosystem of microorganisms that prevent endogenous cohabitants and pathogens to proliferate.

Materials: Women presenting in the vulvovaginitis clinic, Gasthuisberg University Hospital Leuven, Belgium.

Methods: Fresh vaginal fluid microscopy (lactobacillary grades), composite criteria according to Amsel (BV) vaginal pH and vaginal lactate in 113 oral anticonception (OAC) users versus 124 control women not using any anticonception (16 of whom had undergone tubal ligation), presenting in the vulvovaginitis clinic.

Results: A healthier flora was seen in the OAC users. Lactobacillary grade III (grossly abnormal) was present in 24% of OAC users, versus 33% in controls. Bacterial vaginosis (BV) and aerobic vaginitis (AV) were both present in 11% of OAC users and in respectively 15.4% and 18.5% (P=0.058) of the controls. Lactate concentration was not different in both groups (mean 114 mg/dl in OAC users vs 95 mg/dl in controls). Mean pH was lower in OAC users (P=0.05). OAC users were younger than the controls (P=0.001).

Conclusion: OAC use does not cause deterioration of the vaginal lactobacillary flora and may rather protect women against BV and AV.
ABSTRACTS

Apparent Failure of One Injection of Benzathine Penicillin G for Syphilis During Pregnancy in HIV Seronegative African Women

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Objectives: Is one injection of 2.4 million units of benzathine penicillin G sufficient treatment for early syphilis during pregnancy (CDC guidelines 1993)?

Study Design: Outcome of pregnancy was prospectively analysed after 0 to 3 weekly intramuscular injections of benzathine penicillin G in 180 of 212 HIV seronegative black urban women with syphilis in Pretoria, South Africa.

Results: One hundred and eight women receiving two or three weekly intragluteal injections of benzathine penicillin G had a favourable pregnancy outcome. However, after only one injection, lower birth weight, increased immaturity, prematurity, and total delivery rate resulted in two infants. Lower birth weight, increased prematurity, and total delivery rate after one injection were less than 3 weeks. These results were comparable to treatment with two intramuscular injections of benzathine penicillin G at least one week apart. One hundred and eight women receiving two or three weekly intragluteal injections of benzathine penicillin G had a favourable pregnancy outcome. However, after only one injection, lower birth weight, increased immaturity, prematurity, and total delivery rate resulted in two infants. Lower birth weight, increased prematurity, and total delivery rate after one injection were less than 3 weeks. These results were comparable to treatment with two intramuscular injections of benzathine penicillin G at least one week apart. Higher than 16.

Conclusion: One intramuscular injection of 2.4 million units of benzathine penicillin G for syphilis during pregnancy is insufficient.

Cytometric DNA Analysis of Condyloma Acuminatum With Two Different Treatment Approaches

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Condyloma acuminatum is a sexually transmitted disease with high recurrence rates. The aim of this study was to study the recurrence of this disease before using two different treatment modalities by flow cytometric DNA analysis. Twenty-seven patients with vulvar condyloma acuminata were randomly divided into 2 groups. The treatment modalities were CO2 laser and intralesional interferon. Before treatment, each patient was evaluated with flow cytometry to determine the presence of aneuploidy, DNA index, and S phase. The features of flow cytometry of the recurrent cases were analysed. The recurrence rate of patients treated with CO2 laser and interferon treatment were 25% (4/16) and 9% (1/11), respectively. Flow cytometric DNA analysis revealed 18.5% diploidy and 81% aneuploidy in 2 patient groups. The presence of aneuploidy, DNA index, and S phase were not statistically different in both treatment modalities and in recurrent and nonrecurrent patients.

The results of this study showed that the prediction of the recurrence of condyloma acuminatum cannot be possible with flow cytometric DNA analysis.

Analysis of the Selected Intraspaces and Species Features of Strains From Vaginal Ontocnosis of Women With Diabetes Mellitus

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Introduction: The objective of the study was the analysis of the fermentation properties and the ability of carbon assimilation from chemical compounds by fungal strains isolated from vaginal ontocnosis of women with diabetes mellitus.

Materials and Methods: The fungal strains were isolated from vaginal ontocnosis of 72 women with diabetes mellitus whose mean glucose values did not exceed 5.27 mmol/L (95 mg/dl). 30 morphological (vegetative cells, blastospores, pseudohyphae), formation of ascospores (Gorodcov's medium), and biochemical features of each of 63 axenic strains were described for species identification. The strains were identified using API 20C and API 20C AUX tests according to the principle of numerical identification (Analytic Profile Index, bioMerieux, Lyon 1990).

Results: Out of 63 fungal strains, 53 were presented by C. albicans, 4 by C. glabrata, 3 by C. tropicalis, 1 by C. parapsilosis and 2 by S. cerevisiae. There were 4 codes identified for C. albicans (2576174 - 76.6%, 657174 - 1.6%, 2776174 - 4.8%, 2572174 - 2.7%), 2 codes for C. tropicalis (25763750-1.6%, 2576177-2.7%) and 1 code separately for C. glabrata (2000040-6.4%), C. parapsilosis (6756135-1.6%) and S. cerevisiae (2040070-2.7%). The chemical compounds showing taxonomic value for subspecific discrimination of species was glycerol, xylitol, 2-keto-3-glucosinolate, and L-methyl-a-glucoside.

Conclusion: I. In spite of the repeated typical morphological characteristics (macroscopic and microscopic) of C. albicans, there are significant biochemical intraspaces differences. 2. Intraspaces biochemical differentiation may explain the potential pathogenic abilities of the fungal strains isolated from vaginal ontocnosis of pregnant women with diabetes mellitus.

Correlation Between Clinical Symptoms of Candidosis and Selected Morphological and Biochemical Features of Candida Strains Isolated From Ontocnosis of Vagina and Oral Cavity of Pregnant Diabetic Women

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Abstract: The objective of the study was to evaluate the correlation between clinical data and 50 characteristics of Candida strains isolated from two ontocnosis of pregnant diabetic women with different types of diabetes mellitus. The relationship between clinical symptoms and different fungal features was searched according to their own scheme. Data were collected in a special computer program. The fungal strains were isolated from 100 women with gestational
Pathogenesis of Bacterial Vaginitis
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Aim: To determine the relationships between microscopic findings on wet mounts and results of vaginal culture, lactate and succinate content of the vagina and selected cytokines.

Methods: From 631 women presenting at an obstetrics/gynaecology outpatient clinic vaginal fluid was obtained for wet mount, pH measurement, culture and measurements of lactate, succinate, IL-1-beta, IL-8, leukemia inhibitory factor (LIF) and interleukin-1 receptor antagonist (IL-1-RA).

Results: Increasing disturbance of the lactobacillary flora (lactobacillary grade (LBG) I, II, III) was highly correlated with the presence of Gardnerella vaginalis, Trichomonas vaginalis, enterococci, group B streptococci and Escherichia coli. Vaginal pH, IL-8 and IL1 beta increased linearly with increasing LBG, while lactate concentrations and the presence of epithelial cell lysis decreased. A similar pattern of associations with increasing leukocyte count was clear, but, in addition, there was an increase in LIF concentration. The IL1-beta/IL-1-RA ratio remained stable, except when vaginal leukocytosis increased. In its severe form, with more than 10 leukocytes per epithelial cell present, a decomposition of the vaginal flora with collapsing IL1-beta and IL1-RA concentrations was seen, but with a concurrent sharp increase in LIF concentration. This pattern was completely different from the course of the cytokine concentrations associated with an LBG increase.

Discussion: There was a remarkably linear increase in cytokines when either leukocytosis or LBG became more severe. When leukocytosis was extreme, IL-1-beta was no longer produced, but LIF became more severe. We speculate that in extreme inflammation the body tries to limit the damage that can be done by exaggerated cytokine production.

Peroxyde Oxidation of Proteins (Oxidizing Modification of Protein) in Pregnancy Taking Its Physiological Course
Ivanov II
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The aim of the work was to study the state of peroxide oxidation of proteins in healthy pregnant women. 20 healthy pregnant women aged 18 to 25 within 34-40 weeks of gestation were under observation. As a result of investigations it has been established that in healthy pregnant women, compared to healthy nonpregnant women, there is observed lowering of the level of processes of protein oxidation, excluding the rate of oxidizing processes, i.e., the level of metabolic processes is increased.

Unasyn Prophylaxis at Obstetrical Operations
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There is different opinion about antibiotic prophylaxis in obstetrics and gynaecology. Some doctors suggest the Metronidazole-infusion at caesarean sections, but many obstetricians use other preparations. We had tried Metronidazole infusion previously in the Postgraduate Medical School of Hungary, but in the past two years we began to give Unasyn for prophylaxis. There was given 2g Unasyn once before the operations. The results showed that the number of complications decreased from 12 to 7.8%. It is our opinion that Unasyn can be used with good results for prophylaxis.

Sensitivity to Antibiotics of Group B Streptococcus Isolated From Vaginal Specimens of Pregnant Women
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Over a period of 20 months we investigated 1366 vaginal specimens from pregnant women for GBS (group B streptococci carrier in three microscopic patterns, evaluated by Nugent score system). More frequently we isolated GBS in gr(4-6 score) — 20.8%, (when Lactobacillus Spp. is missing (67.4%), without or associated with GBS strains showed sensitivity to ampicillin and carbenicillin. Good sensitivity was found to cefazolin (92.4%) and to cefuroxim (94.2%). The strains showed 13.7% resistance to erythromycin and 4.1% to clindamycin.

Infectious Factor in Premature Labour and Neonatal Fates
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Introduction: Although the frequency of premature labour in highly developed countries is established in only 6-8% of all labours, it is the cause of perinatal mortality in about 75%. It is known that the beginning of the labour is a very complicated process, involving both mother and fetus, but...
one of the most important factors to be regarded is the infectious factor. Bacteria and their endotoxins induce increased prostaglandin synthesis, which stimulate uterine contracting activity.

**Materials, Methods and Results:** Between 1997-01-01 and 1999-07-31 in the Septic Ward of the Department of Obstetrics and Gynecology, Jagiellonian University Hospital in Krakow, 727 labors took place. 151 of all labors were premature (20.7%). Premature rupture of membranes was identified in 38 pregnant women (5.2%). At the time of admission on the ward the dilation of the external os was as follows: no dilatation in 78 pregnant women (50.03%), less than 1 cm, 42 (27.81%) from 1 to 3 cm, 19 (12.58%), from 3 to 5 cm, 8 (5.29%), and more than 5 cm, 6 (3.97%). In spite of tocolitic management (Partutisten, magnesium sulphate), between 24 and 37 weeks of gestation, 151 women laboured., in which 87 cases (57.61%) it was spontaneous labour, in 20 (12.6%) the cause was premature rupture of membranes, and 34 (21.24%) from the 3rd trimester, in which 9 had congenital malformations, 55 neonates (48.68%), 5–7 points, 24 (21.24%), less than 5 points, 34 (30.10%).

**Conclusion:** Premature labour is associated with high rate of perinatal mortality and congenital defects.

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**Evaluation of Thyroid Functions In Pregnant Women**

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**Objective:** In our study, held in liili Etfal Teaching and Research Hospital, Third Gynecology and Obstetric Clinic, we aimed to evaluate the thyroid functions in different periods of pregnancy, disorders of thyroid functions found during pregnancy and their effects on maternal-fetal morbidity and mortality. We also aimed to evaluate the goiter cases during pregnancy.

**Materials and Methods:** We assessed 41 pregnant women in the first trimester and 118 in the third trimester. We also evaluated the thyroid function results of 150 women in reproductive period that applied to our hospital biochemistry department. Serum T3, T4, FT4 and TSH values were measured for all pregnant and nonpregnant women.

**Results:** First trimester FT4 values were significantly higher than the values of third trimester and nonpregnant women ($P<0.001$). The progressive increase in T3 and T4 values during pregnancy were significant when compared with nonpregnant and first trimester values ($P<0.001$). When we evaluated the 105 women in active labor the incidence of complications (preterm delivery and IUUD) was significantly higher in women with disorder of thyroid functions ($P<0.05$ and $P<0.01$ respectively). We found 33 goiter cases among 159 pregnant women.

**Conclusion:** Changes in thyroid functions during pregnancy were consistent with the findings of other authors. We have also shown that the women with thyroid function disorders were under serious pregnancy risk (especially preeclampsia and IUGR) and under the risk of poor neonatal outcome. The frequency of thyroid enlargement-goiter cases probably indicates the deficiency of iodine intake that increases during pregnancy. Thus, it would be appropriate to evaluate all goiter cases before and during the pregnancy period and to start the necessary treatment and supplementation.

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**An Ovarian Pregnancy Case**

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**Ovarian pregnancy is a rare form of ectopic pregnancies. Among all the pregnancies that have attended in our outpatient clinic, the ectopic pregnancy ratio was 1/8000 with one ovarian case (1.25%) in a total of 80 ectopic pregnancies diagnosed. The differential diagnoses of ovarian pregnancy is difficult, the symptoms and signs are like other ectopic pregnancies. C. luteum hematoma is seen frequently. The diagnosis is made mostly during laparotomy and even after the operation during the pathological investigation. In the medical history of this ovarian pregnancy case, 4 pregnancies, one delivery (6 years ago, cesarean section), right salpingectomy because of endometriosis 12 years previously, and a history of PID were seen. There was no usage of IUD. In the literature it is seen that, unlike tubal pregnancies, ovarian pregnancy usually does not have any relation to PID and infertility and the most important risk factor for ovarian pregnancy is IUD usage. In contrast, in our ovarian pregnancy case there was no usage of IUD but a history of PID was seen. Since ovarian pregnancy is a rare form of ectopic pregnancies, we aimed to present this ovarian pregnancy case seen in our clinic.

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**The Bacterial Flora of the Vagina in Healthy Turkish Women and in Turkish Women With Bacterial Vaginosis**

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The aim of this study was to determine the bacterial flora of the vagina in healthy women (HW) and in women with bacterial vaginosis (BV). The vaginal samples of 100 HW and samples of 100 women that were determined to have BV by clinical symptoms shown in microscopic exams of their Gram-stained vaginal smears were studied. The facultative microorganisms and the anaerobic microorganisms were isolated and identified. The results were confirmed by API and SCEPTOR panels. The number of each microorganism was evaluated and for hypothesis testing the Mantel Haenszel test for linear association of ordinal data was used. The value $<0.05$ was considered statistically significant.

The isolation rate of facultative bacteria and anaerobic bacteria which grew in a high concentration and which showed a significant difference between the two flora (HW and BV) with a $P$ value $<0.01$ was as follows: Gardnerella vaginalis 75% in BV, 25% in HW; Parvimonas micra 71% in BV, 25% in HW, Ureaplasma urealyticum 84% in BV, 33% in HW, viridans streptococci 78% in BV 32% in HW and Lactobacillus sp 0% in BV, 53% in HW, Prevotella bivia 85% in BV, 8% in HW, Edansis 83% in BV, 5% in HW, Fusobacterium nucleatum 69% in BV, 0% in HW, Peptostreptococcus prevoti 68% in BV, 17% in HW, Pasaccharotyticus 66% in BV, 10% in HW, Pmagnus 79% in BV, 0% in HW, Mobiluncus curtisol 14% in BV, 0% in HW, Mmulleri 11% in BV and 0% in HW.

As a result we think that because of the recognized role of the endogenous vaginal flora in complications of pregnancy and infections of the upper genital tract it is important to...
gain a better understanding of the composition of this system in our population.

Laparoscopic Diagnosis and Therapy of Salpingitis
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Objectives: Salpingitis has a complex etiology dominated by Chlamydia trachomatis (Ct) and by Neisseria gonorrhoeae (Ng), however, the particular pathogen is difficult to identify, even in laparoscopically obtained specimens, since results from the lower genital tract do not always correlate with those from tubal swab samples. Several techniques have been described, including one invented in 1980 using a specially designed swab instrument directly inserted through the working channel of the laparoscope.

Study design: The microbiological results of tubal swab specimens are compared with those from urethral and cervical swabs of patients with laparoscopically diagnosed salpingitis. Ct was identified by means of PCR and/or LCR, Ng (and other bacteria) by standard cultures.

Results: Between 9/93 and 12/99 141 out of 321 patients with suspected PID were laparoscopically diagnosed to suffer from acute salpingitis due to the following bacteria:

|                | Brihmer '89 | Brunham '88 | Hoyme '88 |
|----------------|-------------|-------------|-----------|
| N              | 141         | 64          | 36        | 71        |
| C. trachomatis |             |             |           |
| Cervix         | 4           | 36          | 4         | 11        |
| Urethra        | 4           | n.d.        | n.d.      | 10        |
| Tubes          | 31          | 12          | 2         | 8         |
| Tubes only     | 27          | 0           | 1         | 3         |
| All            | 35          | 36          | 5         | 17        |
| N. gonorrhoeae |             |             |           |
| Cervix         | 0           | 15          | 18        | 5         |
| Urethra        | 2           | 2           | 6         | 0         |
| Tubes          | 1           | 0           | 0         | 0         |
| All            | 1           | 15          | 18        | 5         |

Conclusion: Besides the multitude of bacterial species involved, the difficulty in gaining access to the fallopian tubes is the major obstacle in microbiologic evaluation of salpingitis. However, a large proportion of Ct positive cases would be missed if laparoscopy was not performed.

Management of Uncomplicated (Postoperative) Urinary Tract Infections
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Cystitis or lower urinary tract infection (UTI) is estimated to occur at least once in 20% of all women in their lifetime. It increases from about 5% incidence in the reproductive age group to about 10% by the early postmenopausal years. UTI in the gynecological patient is also associated with medical, surgical and gynecological problems. The prevalence of infection is reported to be 15 to 25% in women with uterovaginal prolapse, 10 to 100% in patients with cervical carcinoma or 80 to 100% after surgery with catheterization and up to 30% without catheterization. The prevalence of postoperative bacteriuria is correlated with the procedure performed, with vaginal and periurethral traumatization as well as with duration of catheter placement.

The spectrum of pathogens in UTI is Escherichia coli 76%, Proteus 2%, Pseudomonas 1%, Klebsiella 1%, Staphylococcus spp 7%, Streptococcus/enterococcus spp 12%. For treatment, short-term and single-dose regimens are used in patients with uncomplicated or postoperative UTI since these infections involve only the superficial mucosal epithelium layers. The indications are as follows: Symptoms for less than one week, reproductive age women, women with iatrogenic infection, exclusion of predisposing disorders, no anatomical abnormalities, no diabetes, opportunity of clinical control, reliable patient.

In our own prospectively randomized studies we treated women with postoperative UTI by nitrofurantoin, trimethoprim/sulfamethoxazole and ciprofloxacin for two days or by single dose in comparison to established conventional therapy regimen: The efficacy of single-dose administration of 480/2400 mg trimethoprim/sulfamethoxazole (85%, n = 82 vs. 92%, n = 83; n.s., r2-test) and 250 mg ciprofloxacin (94%, n = 62 vs. 95%, n = 65; n.s.) was as good as traditional policy. However, cure rates following two days of nitrofurantoin were demonstrated to be inferior (normal 69%, n = 67 vs. 86%, n = 65; P < 0.05; macrocrystals 73%, n = 91 vs. 85%, n = 99; P < 0.05), This is likely explained by the poor tissue penetration of this antimicrobial substance.

In another prospectively randomized study, ciprofloxacin given to outpatients with uncomplicated UTI as 250 mg single dose versus 250 mg b.i.d. for 3 days led to cure rates of 18% and 91% (P < 0.05). The high failure rate in the single dose group was mainly due to persistence of E. coli and reinfec tion with enterococci.

The benefits of short-term/single dose therapy of UTI are as follows: efficacy, excellent compliance, few side effects, low cost, limited emergence of resistant bacteria, identification of patients at risk by treatment failure.

Reduction of Prematurity by pH-Screening—The '98 State Study
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Objectives: Bacterial vaginosis (BV) increases the relative risk of prematurity. In these cases the preterm birth rate can be reduced by early intervention with antimicrobial substances such as clindamycin.

Study design: Women seeking prenatal care in one of 29 outpatient offices in the city beginning 10/96 were informed and requested to practice self-measurement of the vaginal pH every three days in order to screen for BV: Care Plan VpH gloves (Selfcare, Oberhachingen) were used in identifying patients at risk by means of a pH > 4.7. These women were instructed to see their physician immediately to have BV possibly confirmed and treated with clindamycin cream (Sobelin, Upjohn, Erlangen) i.vag. initiated, otherwise lactobacilli 10/estriol 0.03mg (Gynoflor, Nourypharma, Oberschleibheim) were administered i.vag. for 6 days. Patients of 18 not participating local obstetricians and woman not consenting to participate in the study served as controls.

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Results: Up to 12/98, 73 of 381 women in the intervention group were identified with a pH > 4.4. 58 were treated with lactobacilli, 24 additionally with clindamycin cream because of BV and 3 had no therapy. In this ongoing study the preterm rate was 8.1% in the intervention group vs. 12.3% in controls (n=2.341; P < .05). 0.3 vs. 3.3% of the neonates were born at < 32 gestational weeks (P<0.01). PROM was registered in 22.8% vs. 30.8% (P < 0.01) respectively.

Conclusion: Self-measurement of vaginal pH at close intervals according to Saling seems to identify women at risk for prematurity. Earliest possible intervention either with lactobacilli or in case of confirmed BV with clindamycin appears to result in a reduction of preterm birth and in particular of newborns less than 32 weeks.

A Case of Septic Shock, Resulting in Death After Operative Delivery
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Septic shock is a life threatening disorder which can be associated with obstetric conditions. Successful management is of ultimate importance and depends on early identification and aggressive treatment. We report here a young woman who has developed septic shock after operative delivery in week 32 of pregnancy. Clinical features, treatment modalities, and prognosis of this high mortality rate disorder are presented and discussed.

Case Report: A 27-year-old woman, gravida 2, para 1, was admitted to our emergency service with the complaint of nausea, vomiting, and diarrhea which had started one to two hours after elective abortion that was performed earlier that day. She had fever of 38.5°C, mild tachypnea and mild dyspnea. After a thorough physical examination and laboratory evaluation it was found that she had mild suprapubic tenderness, prolonged prothrombin time and elevated liver enzymes, fibrin degradation products and low platelet count. Her arterial blood gas measurement showed hypoxemia. The patient was diagnosed with sepsis and disseminated intravascular coagulation and admitted to the intensive care unit of our hospital. After blood and urine cultures were taken, aggressive management included volume repletion, antibiotics and positive inotropic therapy. Since the patient had a persistent fever and unimproved laboratory values despite these therapies for 72 hours, the uterus and ovaries were thought to be the source of sepsis and total abdominal hysterectomy and bilateral salpingo-oophorectomy was performed. Four days after the operation, all the clinical and laboratory parameters were improved and on the postoperative tenth day she was discharged from hospital with oral antibiotic therapy and estrogen replacement therapy.

The Prevalence of Urinary Infections in Women With Intrauterine Devices(IUD)
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Introduction: IUD is a reversible and the most effective contraception method used in Turkey. 18.8% of women in the reproductive period use IUDs.

Materials and Methods: 30 women admitted to the Clinic of Family Planning between the dates 3-14 August, 1999 for IUD controls without any complaint of bleeding were included in the study. Urine cultures were obtained by Nelaton catheter. The specimens were transferred to the Bloody and EMB agar. Antibiograms were prepared according to the Kirby-Bauer diffusion method. The direct microscopy of vaginal discharge was evaluated by saline and potassium hydroxide solution.

Results: In four of 30 cases urine cultures were positive (13%). The bacteria in question were determined to be Klebsiella spp., Enterobacter spp., Coagulase negative staphylococcus and E. coli. Cases with positive cultures complained of inguinal pain. In only two of the cases dysuria and pollakuria were noted. There was no clinical complaint in five of 26 cases with negative cultures. In 14 of these cases inguinal pain, in 12 dysuria, in 1 pollakuria and in 10 nocturia were recorded.

Conclusion: The prevalence of urinary infection in IUD users is no different than the normal population.

Policresulen in the Therapy of Recidivant Colpitis
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Introduction: The objective of the study is to fortify subjective and clinical improvement of the condition in the patients with recidivant colpitis, after the treatment with Policresulen vaginal suppositories, and to fortify the influence of the therapy in the finding of “satisfactory but
limited with inflammation" PAP, which is very frequent in such patients.

Materials and Methods: Fifty-seven patients in the therapy group and 44 patients in the control group with symptoms and clinical findings of recidivant colpitis were included in this study. All patients were of reproductive age and HIV negative. Protocol for clinical assessment and questionnaire with "Discomfort score system" (0—3 Insignificant discomfort, 4—6 Moderate discomfort, 7—9 Hard discomfort) was used. Ten days treatment with Albothyl (Polycresulen 90mg, BVC GULDEN), with control of symptoms and clinical picture after 3 weeks was performed. PAP was reviewed before and three months after the treatment.

Results: Table 1. Distribution of a type of recidivant colpitis and mean discomfort scores (MDS) before treatment in the therapy and control groups:

| Type of Recidivant Colpitis | Therapy Group | Control Group |
|----------------------------|---------------|---------------|
| Bacterial colpitis         | 7.1%          | 19%           |
| C. trichomonas             | 19%           | 43%           |
| Candida colpitis           | 9%            | 21%           |
| Total                      | 44%           | 100%          |

There were overall 19 (43%) findings of "satisfactory but limited with inflammation" in previous PAP in the therapy group. After the treatment, complete improvement of the clinical picture with improvement of MDS is observed in: 22 (88%), (MDS=0.31) in therapy group with Bacterial colpitis, compared with 9 (47%) in control group (Fisher's Exact test P = 0.0065); 19 (95%) (MDS=3.6) in therapy group with Trichomonas colpitis, compared with 8 (50%) in control group (Fisher's Exact test P = 0.0046) and 7 (58%) (MDS=3.7) in therapy group with Candida colpitis, compared with 3 (33%) in control group (Fisher's Exact test P = 0.39). Repeated PAP three months after treatment revealed "satisfactory but limited with inflammation” cytology in 11 (19%) of the patients in therapy group.

Conclusion: Therapy with Polycresulen vaginal suppositories presents statistically significant improvement of the clinical picture and symptoms of recidivant bacterial and Trichomonas colpitis and improvement of recidivant Candida colpitis which is not statistically significant. The therapy significantly decreases the percent of "satisfactory but limited with inflammation" PAP findings in the patients with recidivant colpitis, that decreases the risk of false-negative PAP in this group of patients.

The treatment was Diflucan for 76 girls, 150 mg given once and the bacterial investigation was made after a week of the treatment.

HPV 16 and 18 Infection in Patients With Cervical Intraepithelial Neoplasia and in Women Without Cervical Pathology

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Background: During the past few years the number of studies dealing with human papillomaviruses (HPV) has increased rapidly as the discovery of new molecular methods made a more precise detection of virus DNA possible. But despite numerous studies, the role of HPV in the development of the neoplastic process remains unclear.

Methods: The aim of our study was to compare the incidence of HPV 16 and 18 infection in patients with cervical intraepithelial neoplasia (CIN) and in women without cervical pathology. In 246 patients treated for CIN with conization, prior to surgery cytologic material was collected for in situ hybridization (ISH) to prove HPV infection. The control group comprised 106 women without cervical pathology. In these women cytologic material for ISH was collected as well.

The incidence of HPV 16 and 18 infection was also compared in individual CIN stages. The t test was used to calculate statistically significant differences.

Results: Among 246 patients with CIN, HPV (16 and/or 18) infection was present in 80 (32.5%). HPV 16 infection was assessed in 38 (15.4%), HPV 18 infection in 25 (10.2%) patients. Both virus types were present in 17 (6.9%) patients with CIN. In the control group, HPV infection was present in 80 (33.0%) women. HPV 16 infection was assessed in 18 (17.0%), HPV 18 infection in 14 (13.2%) and infection with both HPV types in 3 (2.8%) women.

Conclusion: There is no statistically significant difference between HPV (16 and/or 18) infection in patients with CIN and the control group. There is also no statistically significant difference between both groups as regards the incidence of infection with HPV 16 only and HPV 18 only. On the basis of our results obtained with the ISH method it is not possible to confirm the etiologic role of HPV 16 and 18 infection in CIN pathogenesis.

Preventive Effect of an Estradiol Releasing Vaginal Ring (Estring) on Recurrent Urinary Tract Infections (UTI) in Postmenopausal Women

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Introduction: An estradiol-releasing vaginal ring (Estring) containing 2 mg of estradiol is available for the local treatment of postmenopausal urogenital symptoms. The primary objective of this study was to detect any difference in time to the first recurrence of UTI during treatment with Estring compared with no estrogen treatment in postmenopausal women.

Material and Methods: This was a multicenter, randomised, open, parallel group study. A total of 108 postmenopausal women with recurrent symptomatic, bacteriologically confirmed UTI were randomly assigned, 53 to the Estring group and 55 to the control group. One ring was carried vaginally for 12 weeks. The duration of treatment was 36 weeks for...
the Estring group and either 36 weeks or until the first recurrence for the control group. The primary variable was analysed by survival analysis with the Kaplan-Meier method for estimating the survival density function. To compare the survival curves for the 2 treatment groups a log-rank test was performed for time until first recurrence.

Results: The cumulative proportion of women remaining free of UTI was significantly higher in the Estring group than in the control group ($P<0.008$). After 36 weeks of study the cumulative likelihood of remaining free of disease was approximately 45% in the women with the vaginal ring compared with approximately 20% in the control group. Estring lowered vaginal pH, and the time to first recurrence was effectively prolonged by Estring treatment. Vaginal and, to a lesser extent, urethral mucosal cells were significantly more mature in the Estring group. No unexpected adverse events were found.

Conclusion: Estring is useful to prolong the time to next recurrence among postmenopausal women with recurrent UTI and to decrease the number of recurrences per year. The silicone vaginal ring also has a clinically significant ability to alleviate other postmenopausal urogenital symptoms. Estring is safe and well tolerated.

Serological Status of HBV, HCV, and HIV Among Pregnant Women
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In this study, we aimed to determine the seroprevalence of hepatitis B virus (HBV), hepatitis C virus (HCV) and human immunodeficiency virus (HIV) infections among 644 pregnant women (mean age of 27.92 ± 5.2 years) evaluated in Gazi University Hospital Central Diagnostic Immunology Laboratory by means of tests ordered by their doctors in the Department of Obstetrics and Gynaecology during the last 18 months. Not all tests below were ordered for each woman by obstetricians. All tests were performed by means of a very sensitive, automatic paramagnetic chemiluminescent immunoassay system. Our results may be summarised as follows:

Table 1: HBV, HCV, and HIV seropositivity among 644 pregnant women

| Serological marker | Total (n) | Positive |
|--------------------|----------|----------|
| HBsAg              | 632      | 20 (3.2%)|
| Anti-HBs           | 246      | 93 (37.8%)* |
| Anti-HCV           | 168      | 0        |
| Anti-HIV           | 213      | 1 (0.5%)* |

*Anti-HBs titers equal or above 10 mIU/ml were accepted as positive for protection against HBV infection. Of these 93 anti-HBs (+) women, mean antibody titer was 235. 10 ± 212.13 mIU/ml (minimum 12 mIU/ml, maximum 650 mIU/ml).

** This patient was tested twice for anti-HIV antibody in our laboratory and both results were positive. According to legal regulations, patient was transferred to a governmental reference laboratory for confirmation by Western Blot; final result there was reported as "negative".

Table 2: HBV, HCV, and HIV serology of the 168 pregnant women

| Serology                          | Number | Percent |
|-----------------------------------|--------|---------|
| HBsAg(-), anti-HBs(+), anti-HCV(-), anti-HIV(+) | 1      | 0.6%    |
| HBsAg(-), anti-HBs(+), anti-HCV(-), anti-HIV(+) | 5      | 3.0%    |
| HBsAg(-), anti-HBs(+), anti-HCV(-), anti-HIV(+) | 56     | 33.3%   |
| HBsAg(-), anti-HBs(-), anti-HCV(-), anti-HIV(+) | 106    | 63.1%   |
| TOTAL                            | 168    | 100%    |

It is seen that in routine followup of pregnant women usually only HBsAg among above markers was ordered. Thinking of the dramatic outcome of any possible HCV or HIV infection in pregnancy, we suggest that anti-HIV antibody and anti-HCV antibody tests should also be included to prevent any risk to the fetus; and that it would be better (from both an immunological and economical point of view) to test at first anti-HBs total antibody (both IgM and IgG against core antigen of HBV), where it is available, rather than HBsAg alone or HBsAg and anti-HBs together to show any sign of exposure to HBV. If anti-Hbc total is found to be negative; there will be no need for further tests; however, if it is found to be positive, then it would be better to investigate the whole serologic panel for HBV.

Scientific Medical Diagnostic Centre's “Astar” (LVIV, Ukraine) Four-Years Work Report
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Scientific Medical Diagnostic Centre “ASTAR” works as the STD centre dealing with diagnostics and treatment of the STIs. It is the first and the only centre in the area of the Western Ukraine working in this field. The Centre's staff consists of 14 persons. Since the beginning of work the centre has had more than 4000 visitors.

During the period of work the Centre has had an increasing number of patients. Chlamydia trachomatis has been diagnosed in 65% of them. Trichomonas vaginalis in - 41%. These two STIs are the most widespread in the Western Ukraine. Mixed STIs are more often (89%) than monoinfections. 65% of the Centre's visitors are women. Many of the women are victims of trafficking in women and victims of rape.

The centre is looking for the possibility of cooperation and developing joint activities with foreign STI centres.

HBV Prevalence in Patients With Gynecologic Malignancy
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The incidence of Hepatitis B virus (HBV) is reported in normal population and various risk groups in Turkey. In our study

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we searched HBV incidence in the patients with gynecologic malignancy, who were relatively less studied.

Sera samples were obtained between January 1999 and September 1998 in SSK Ege Obstetrics and Gynecology Hospital. HBs Ag and HBs Ab were detected by Vidas ELFA technique. HBs Ag positivity was found in 21 (6.6%) and HBs Ab in 115 (36.4%) of 316 patients. 180 (57%) patients were found seronegative for HBV.

The incidence was found to be the same as normal population.

Histopathologic Changes of the Fallopian Tube in Women Using an Intrauterine Contraceptive Device (IUCD)

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The use of IUCD is becoming more widespread. It has been a reliable and reversible contraceptive alternative for more than 30 years. By preventing the spermatozoa from reaching the fallopian tube, ovum transport and fertilization; it is a means of protection against pregnancy.

The aim of this study was to investigate and evaluate the histopathological changes in the fallopian tube in women using the IUCD (multiload Cu375 & T Cu380A) for a long period of time. Isthmic portions of the fallopian tubes were obtained from 20 healthy women by tubal ligation, using the Pomeroy technique. Specimens were fixed in 10% formalin and followed in a routine manner. Sections were stained with Hemoxylin-Eosin (H.E.) and Toluidin blue; then evaluated under the light microscope.

Using a light microscope, a pronounced reduction of ciliated cells in the epithelium of fallopian tube, increased number of mast cells, and inflammatory cell infiltration were found in the lamina propria in IUCD users as compared to nonusers, in the same menstrual period. Mast cells are known to contain potent biological mediators and these may be responsible for local inflammatory reactions. These findings may be a factor in the pathogenesis of pelvic inflammatory disease and ectopic pregnancies that occur in IUCD.

Epidemiological Features and Microbial Etiology in Turkish Women With Cervicitis

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Objective: Cervicitis is one of the most frequent genital infections among women of the reproductive age. The aim of this study was to evaluate microbial etiology and epidemiological features in Turkish women with cervicitis.

Materials and Methods: 40 randomly selected women presenting with cervicitis to the Family Planning Clinic of HNSH were included in this study. Patients under 18 and over 50 years of age, women who had received antimicrobial drugs within the prior month, and menstruating women were excluded. Cervical smears, vaginal and endocervical specimens, and gram-stains were obtained from all patients.

Results: The average age of the patients was 29.2 years (range 20-40). The average number of pregnancies was 4.1 (range 1-11) and the average number of living children was 2.7 (range 1-6). The most common complaints were leucorrhoea (82.5%), lower abdominal pain (42.5%), lombalgia (17.5%), postcoital bleeding (7.5%), dyspareunia (5%), urinary symptoms (2.5%) and pruritus (2.5%). 10% of the patients had no complaint. 39 of the smear results were normal (Class I), with one Class II result. 42.5% of the patients had an IUD, 27.5% practiced coitus interruptus, 15% used condoms, 5% oral contraceptives, and 7.5% used other methods. The microbial flora revealed Chlamydia trachomatis (7.5%), Neisseria gonorrhoeae (7.5%), Ureaplasma urealyticum (35%), Mycoplasma hominis (17.5%), bacterial vaginosis (25%), Proteus mirabilis (5%), Trichomonas vaginalis (2.5%) and streptococci (12.5%) as etiological agents. All patients were married and had apparently just one sexual partner.

Conclusion: Cervicitis is of importance especially because of its association with serious infections. Considering that all women apparently had only one sexual partner, the overall rate of microbial etiology capable of resulting in PID was higher than we expected.

Hepatitis B Screening Results in Pregnant Women

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Objective: To investigate hepatitis B carriers among pregnant women.

Materials and Methods: Among 294 pregnant women who have attended to Ilii Efhal Hospital 3. Obstetrics and Gynecology Clinic, Istanbul, Turkey.

Objective: We aimed to investigate hepatitis B carriers among pregnant women.

Results: Among 294 pregnant women HBsAg was positive in 22 women (7.48%), antiHBs was positive in 44 women (14.96%). In 22 pregnant women in whom HBsAg was positive, antiHBe was also found positive. Conclusion: Since hepatitis B virus can cause serious medical problems, we aimed to point out the importance of hepatitis B screening for the health of the mother and newborn and so that it should not be forgotten during routine laboratory testing of pregnant women.
ABSTRACTS

the epidemiology of PID (the analysis of the medical history of 126 hospitalized PID patients with tuboovarian abscesses) are included.

Results: 26.6% of women in Latvia have started their sexual activity prior to the age of 17, 24.5% of sexually active women in the age group of 15–19 have had 4 or more sexual partners. The number of IUD users among the patients hospitalized due to PID was two times higher than among the control group (P<0.005). 40.48% of patients with tuboovarian abscesses stated that the first episode of PID was related to an induced abortion.

Conclusion: The early sexual activity of young people and lack of knowledge about safe sex increases the incidence of PID and is to be considered a serious health care hazard and an educational problem in Latvia. IUD should be recommended after the risk of STD has been evaluated, the screening of urogenital chlamydioidis is recommended. Patients under the age of 25 who come for an induced abortion are to be screened for urogenital chlamydioidis before the abortion or preventive doxycycline treatment is to be prescribed.

Clindamycin Cream Versus Oral Metronidazole in the Treatment of Bacterial Vaginosis

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Objective: Bacterial vaginosis (BV) is characterized by the replacement of the vaginal flora which is normally dominated by lactobacillus species by Gardnerella vaginalis and anaerobic bacteria. BV is the most common vaginal complaint among women of reproductive age and is associated with serious complications. The objective of this study was to compare the efficacy of 2% clindamycin vaginal cream versus oral metronidazole in the treatment of BV.

Materials and Methods: 60 patients diagnosed as BV with clinical criteria supported by gram-stain as two equal groups. One group received oral metronidazole 500 mg twice a day for 7 days and the second group 2% clindamycin vaginal cream 5 gm once a day for 7 days. Cure rates and side effects were evaluated by a return visit on the 15th day.

Results: There was no significant difference (P>0.05) between the cure rate of oral metronidazole and clindamycin vaginal cream (86.7% and 83.3% respectively). Side effects were nausea (13.3%), metallic taste (6.7%), candidal vaginitis (3.3%) for oral metronidazole and vaginal irritation (30%) and candidal vaginitis (13.3%) for clindamycin cream.

Conclusion: Clindamycin vaginal cream (2%) is a safe and effective alternative to oral metronidazole for treatment of BV.

Prevalence of Mobiluncus Species in Turkish Patients With Gynecologic and Obstetric Infections

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Mobiluncus species are especially found in the vaginal flora of women with bacterial vaginosis (BV) and their presence in the vaginal samples were accepted as a good indicator of BV. These microorganisms may occasionally ascend to the upper genital tract of females and they have been isolated from cases of endometritis and salpingitis.

The aim of this study was to determine the prevalence of Mobiluncus sp. in 364 specimens from vaginal smears which microscopic exams revealed flora compatible with BV investigated in the period between

Table 1: TORCH seropositivity among pregnant women

| Specific antibodies | Total (n) | Positive |
|---------------------|----------|---------|
| Toxoplasma IgM      | 394      | 11 (2.8%) |
| Toxoplasma IgG      | 690      | 214 (31%) |
| Rubella IgM         | 271      | 5 (1.8%)  |
| Rubella IgG         | 670      | 627 (93.6%) |
| HSV-I IgM           | 80       | 6 (7.5%)  |
| HSV-II IgM          | 79       | 6 (7.6%)  |
| EBV IgM             | 47       | 1 (2.1%)  |
| CMV IgM             | 109      | 0 (0%)    |
| CMV IgG             | 148      | 137 (92.6%) |

Table 2: IgG and IgM results for rubella, toxoplasma and CMV

| TORCH       | TOTAL (n) | IgM (+)/ IgG (-) | IgM (+)/ IgG (+) | IgM (-)/ IgG (+) | IgM (-)/ IgG (-) |
|-------------|-----------|-----------------|-----------------|-----------------|-----------------|
| Toxoplasma  | 361       | 252 (69.8%)     | 1 (0.3%)        | 96 (26.6%)      | 12 (3.3%)       |
| Rubella     | 246       | 21 (8.5%)       | -               | 223 (90.7%)     | 2 (0.8%)        |
| CMV         | 84        | 4 (4.8%)        | -               | 80 (95.2%)      | -               |

As seen in Table 2. IgM and IgG seropositivity may occur at the same time during course of infections. Therefore, we suggest that all pregnant women should be evaluated for TORCH IgM's as well as TORCH IgG's in the first visit to their obstetricians (especially for toxoplasma and rubella) otherwise it is possible to not notice an acute TORCH infection in pregnancy if only TORCH IgG's are tested because the patient may be asymptomatic although the complications on fetus may be revealed later. However, IgM seropositivity does not always mean an acute toxoplasma infection that started during pregnancy. In this case, the use of toxoplasma IgG avidity test has been suggested recently for differentiation of an acute infection during pregnancy.
May 1996 and May 1999. Mobiluncus strains were isolated in Schaedler agar and in RLK agar at anaerobic atmosphere and were identified using their biochemical characteristics. The results were confirmed with API 20 A and SCEPTOR anaerobic ID panels.

The prevalence of Mobiluncus sp. in pus of 102 vulvovaginal abscesses was found to be 2% (2 strains of M. curtisi), the prevalence in 42 specimens of endometrial cultures was found to be 4.7% (2 strains of M. curtisi) and in 26 specimens of pus from tubes of cases with salpingitis was found 3.8% (1 strain of M. curtisi). The prevalence in 194 vaginal samples was found 77.2% using Gram staining and after their isolations this prevalence was 49% (70 strains were M. curtisi and 25 strains were M. mulieris.)

As a result of this research we determine that Mobiluncus species which are frequently found in the vagina of women with BV can be one of the important agents to cause vulvovaginal abscesses, endometritis, and salpingitis.

Is Vaginal Douching a Risk Factor For Bacterial Vaginosis?
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Aim: To investigate the relationship between vaginal douching (VD) and bacterial vaginosis (BV) and to determine if it is a risk factor to promote this infection.  
Study Design: This is a control-case study. Four hundred one (401) women with vaginal discharge were studied at the Control Infectious Diseases Section of HIGA Eva Perón, from Jan 1997 to Dec 1998. We selected 103 of them with BV or Normal Flora (NF) and they were separated in two prospective groups: BV (group 1, n=40) and NF (group 2, n=63). We excluded the pregnant women, patients with local or systemic antimicrobial therapy, other local therapy and other genital tract infection. The VD was studied as a primary variable and contraceptive methods, number of partners and sexual behaviours as secondary variables. Statistical analysis was performed with EPI INFO version 6.2, odds ratio (OR) and the 95% confidence intervals (CI) for the difference between proportions as well as p values for probability test were calculated. P< 0.05 was considered significant.  
Results: No statistical differences were found between both groups in age, contraceptive methods and sexual behaviour, the only exception was the primary variable studied. The VD were present in 29/40 (72.5%) and absent in 11/40 (27.5%) of women with BV and in 20/63 (31.7%) and 43/63 (68.3%) respectively, of NF group (P <0.0001, OR : 5.67 and 95% CI : 2.19-15.04).  
Conclusion: The multifactorial pathogenesis of BV is a problem in an attempt to control this genital tract infection. Because the VD was significantly associated with BV women, it would be considered a risk factor for this infection, probably due to normal flora alterations and clearance of Lactobacillus spp. The other factors considered had no influence on this group of women.

STD Infections in Women of Central Asia: Preliminary Results of WHO Surveys
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In the last decade countries in the former Soviet Union have experienced a dramatic increase in the incidence of STDs. Population based surveys have been performed, both in Tajikistan and Turkmenistan, initiated by the governments, WHO and UNFPA.

In Tajikistan nearly 400 women from the same village in the rural region of Khaton were examined, and in nearly 40% of the cases different STDs were discovered. These were Trichomonas 25.3%, Chlamydia trachomatis 14.9%, gonorrhoea 0.2%, syphilis 5.6%.

In Turkmenistan 600 women have been studied, including pregnant women, women are applying for abortion, teenagers, and women with chronic pelvic pain. The preliminary results were alarming, showing a very high rate of STDs including syphilis, gonorrhoea, trichomoniasis, chlamydia, and hepatitis B and C in each group. In both countries and the other states of Central Asia there is a urgent need to increase the population's awareness of STDs. Knowledge, education and perception of STDs are important. Up to date laboratory facilities and availibility of medication are cornerstones in combating the arising epidemic.

The Value of Transvaginal Color Doppler in the Assessment of Pelvic Inflammatory Disease
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Objective: To compare transvaginal color Doppler, laparoscopic and clinical findings in 102 women with proven pelvic inflammatory disease (PID).  
Materials and Methods: All the patients were examined by transvaginal Color and pulsed Doppler ultrasound (Aloka SSD 2000).  
Results: In patients with acute PID (N=72), increased endometrial thickness was detected. Increased endometrial vascularity (RI=0.50±0.05) was the only uterine abnormality demonstrated in 49 (68%) patients. Color signals were obtained from septal parts or external margins in 56 (75.7%) patients presenting with complex adnexal masses. Tubal arteries were identified in 12 (54.6%) patients with tubular anechoic adnexal structures. In the early phase of PID ovarian parenchymal blood flow was characterized with low-to-moderate resistance to blood flow (RI=0.53±0.09). In the chronic stage the RI was increased (RI=0.71±0.09, P<0.05).  
Conclusions: Transvaginal color and pulsed Doppler is a useful additional tool in diagnosis and treatment monitoring of patients with PID. This method may be useful in differentiating hydrosalpinx from dilated veins in patients suffering from pelvic congestion syndrome, or pyosalpinx from hematosalpinx in patient with ectopic pregnancy.

Prevention of Congenital Toxoplasmosis
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Toxoplasma infections are widespread and occur all over Europe. Exposure to infections varies regionally. From 30 to 90 percent of pregnant woman are nonimmune and susceptible to primary infection, 1-5 per 1000 women acquire infection during pregnancy, while the overall fetal transmis-
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Chronic Toxoplasmosis and Its Treatment During Pregnancy
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Epidemiological evidence suggests that 25-50% of the world's population have been infected by *Toxoplasma gondii*. The seropositivity can be as high as 90% especially in countries consuming raw meat such as Turkey. The cyst form is responsible for persistence of latent infection in multiple organs as brain, heart muscle, and skeletal muscle where they persist throughout the life of the host. In immunocompromised carriers such as HIV patients, malignancy or in the absence of maternal immune response in pregnancy, reactivation of the infection may occur and parasitemia is seen. This leads to disruption of tissuc cysts and release of trophozoites into the circulation. Fetal infection can be observed during the primary infection in pregnancy. The passage is usually seen in the last trimester but the damage caused by the infection is smaller. Fetal infection usually leads to fetal demise in the first trimester or may cause multiple organ defects. Reactivation of toxoplasmosis usually presents with habitual abortion, preterm labor and fetal demise. There is evidence that some chronically infected mothers have foci of *Toxoplasma gondii* in the uterus. In patients with above mentioned pathologies the possibility of a reactivation during pregnancy must be kept in mind. We have been studying chronic toxoplasmosis during pregnancy since 1975. After ruling out all reasons for the above mentioned pathologies, the treatment of patients with toxoplasmosis remarkably increased the rate of live births. In the beginning of this study, Sabin-Feldman dye test and indirect fluorescence antibody tests were utilized for the diagnosis of toxoplasmosis. Recently we have been using polymerase chain reaction (PCR) to detect the active infection. Due to reactivation of the CNS, toxoplasmosis in AIDS cases of chronic disease gained greater interest which led to discussion of new diagnostic tools such as PCR and new treatment modalities. Treatment is only indicated when a clear therapeutic benefit can be demonstrated. We have been using pyrimethamine since 1975 for the treatment of toxoplasmosis during pregnancy. Although it has teratogenic potential we have not observed any teratogenic effects of the therapy in our series. The success of the therapy depends on the timing of the treatment and the treatment must be initiated as early as weeks 7 or 8 of pregnancy. Due to the known side effects of high dose pyrimethamine therapy we developed our "attack" treatment. The schema of treatment (Dincer formula) is as follows: 3×25 mg for the first 3 days, 2×25 mg for the following three days and 1×25 mg for 1 month. This drug is combined with folinic acid since pyrimethamine is a folic acid antagonist. The treatment was monitored with IgG titers at week 20 of pregnancy. If the titers were high then spiramycin was administered as a new line of therapy.

Feminine Hygiene Practice Among Health Care Personnel in Turkey
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Aim: Research in the area of feminine hygiene practice of Turkish women is limited. In the present study information related to feminine hygiene practices among nurses was searched.

Method: A descriptive research design was used to examine feminine hygiene practices among 250 nurses who were 20 years of age or older, working at the Ankara Numune Research and Training Hospital. A questionnaire containing 28 questions about feminine hygiene was developed after a literature review.

Results: All the participants were Muslim. 71% were married, 18% divorced and 11% single. 26% reported that they took a shower everyday, 62% took a bath every 2-3 days, whereas 1% used a tub for bathing and 98% used a handheld shower. 22% of the participants reported never douching vaginally whereas 29% doused sometimess and only 49% always used an internal douche. 12.5% of the participants washed their hands before and after changing their pads or tampons. When they used sanitary napkins 57% of them changed them at least every 2-4 hours, if they used tampons 50% of the responders washed their hands before and after changing their pads or tampons. 1% used atubforbathing and 98% used a hand-dryer. 49% always used an internal douche. 12.5% of the participants washed their hands before and after changing their pads or tampons. 1% used atubforbathing and 98% used a hand-dryer.

Conclusion: Resultsofthestudyshowthatevenifthepar-entsusedpantylinersduringintermenstrualperiod,whereas1%usedatubforbathingand98%usedahand-
dryer, 18% divorced and 11% single. 26% reported that they

Transvaginal Sonography in Detection of Pelvic Inflammatory Disease

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Objective: To assess the value of B-mode transvaginal sonography in the evaluation of the patients with laparoscopically proven pelvic inflammatory disease.

Materials and Methods: Seventy-two patients with acute symptoms of pelvic inflammation, 11 patients with chronic pelvic pain and 19 patients with infertility suspected of tubal etiology were admitted to our department. Endometrial thickness and morphology were evaluated together with ovarian measurements and morphological appearance. The equipment used in the study was Aloka SSD 2000 with transvaginal transducer of 5 MHz.

Results: Endometrial morphology suggestive of endometritis was demonstrated in 72 patients (70.6%). Free fluid in the cul-de-sac was demonstrated in 39 (38.2%) patients. Ovarian enlargement as the only finding was demonstrated in 6 (5.9%) patients, while 22 (21.6%) presented tubular adnexal structures. In 74 (72.5%) patients transvaginal sonography detected complex adnexal mass.

Conclusions: Transvaginal sonography is a useful tool in detection of patients with pelvic inflammatory disease. In acute stages one can detect both uterine and adnexal findings (increased endometrial thickness and echogenicity, ovarian enlargement and/or complex adnexal mass). However, in chronic stages the most common finding is tubular adnexal structure presenting dilated tube without changes in uterine and ovarian morphology.

Prevalence of Bacterial Vaginosis in Patients With Various Gynecological Complaints

Petek Deniz Uçkan, Fadil Kara, Salim Erkaya, Serdar Erğaçmak

ABSTRACTS
ABSTRACTS

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Bacterial vaginosis is the most prevalent vaginal infection in reproductive women. A group of microorganisms are present concurrently in high concentrations in the vagina of women with bacterial vaginosis. The major members of the group are *Gardnerella vaginalis*, Bacteroides species, Peptostreptococcus species, Mobiluncus species, Prevotella species and genital Mycoplasmas. The objective of this clinical trial was investigation of bacterial vaginosis in 313 patients presenting with various gynecological complaints. In 74 (24%) patients clue cells and whiff test were positive and *G. vaginalis* was isolated. All these patients had profuse, homogenous and malodorous discharge and took the diagnosis of bacterial vaginosis. The major members of the group were Gardnerella vaginalis, Bacteroides species, Peptostreptococcus species, Mobiluncus species, Prevotella species and genital Mycoplasmas. The increase in the presence of *G. vaginalis* is significantly increased risk of salpingitis, particularly following abortion, and of vaginal cuff and wound, or infection after hysterectomy. Hence, bacterial vaginosis is a curable disease; diagnosis and treatment are essential to prevent complications.

Pelvic Tuberculosis

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Aim: Even if it is not common, pelvic tuberculosis is still a health problem in developing countries. In the present study our aim was to search the clinical and laboratory findings of these patients.

Materials and Method: Retrospectively the files of the patients in which pelvic tuberculosis was diagnosed (n: 78) during the years 1979–1999 were analyzed.

Results: Twenty-nine percent of the patients were over 40 years of age. The most common complaints were infertility (n:34, 43.5%), abdominal or pelvic pain (n:25, 32%) and abnormal uterine bleeding (n: 12, 15.3%). Only 2 patients had past or family history of pulmonary tuberculosis. The physical examination was normal in 31.6% of the patients. The chest X-ray was normal in 81% of the patients. Blocked tubes were present in 32 of 34 patients who had hysterosalpingograms. Even if the diagnosis can be made from a histopathologic examination, hysterosalpingography is also a very useful aid in establishing a diagnosis. The most common site of infection was the tubes. Reconstructive surgery was performed in nine patients. Only one pregnancy was found in the present study without any medical or surgical treatment of pelvic tuberculosis. In one patient with habitual abortion endometrial tuberculosis was also found as a cause.

Conclusion: Pelvic tuberculosis is a serious but rare disease in our population. However it must be in mind in infertile population. Although the diagnosis is made by endometrial biopsies in all the patients with infertility, in 94% of them tubes were found to be blocked. Therefore it is unnecessary to check them by HSG and they are candidates for IVF after medical treatment.

Serious Consequences of Bacterial Vaginosis

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Bacterial vaginosis (BV), an imbalance in the vaginal ecosystem, is the most commonly diagnosed vaginal “infection” in the United States, although up to 50% of patients may be asymptomatic. It is important to screen and treat for this condition, as it has been associated with a number of adverse outcomes.

In nonpregnant women, those with BV frequently have evidence of upper genital tract disease, including histologic evidence of endometritis. BV organisms are isolated in most cases of pelvic inflammatory disease, and patients with BV have an increased incidence of postabortal infection and of cuff cellulitis following hysterectomy. BV has also been associated with an increased risk of cervical dysplasia. Trials to study the efficacy of treatment in preventing these complications are lacking.

In the pregnant patient, the presence of BV or BV organisms has been linked to an increased risk of infectious complications, including intra-amniotic infection and postpartum endometritis. BV organisms are frequently isolated in these peripartum infections. The risk of preterm birth (PTB) is also increased 3 to 7 fold in the presence of BV. Treatment trials in pregnant women reveal that systemic treatment of BV decreases the risk of PTB in women who are at high risk for this complication. The benefit of BV treatment in women at low risk for PTB is less clear, as is the impact on the incidence of infectious complications.

In conclusion, BV is a common condition with myriad consequences. Screening for and treatment of bacterial vaginosis is an important part of gynecologic and obstetric care.

Genital Mycoplasmas

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Mycoplasmas are the smallest free-living organisms. They lack a rigid cell wall that renders them poorly stainable by Gram method, resistant to cell wall-acting antimicrobials (such as penicillins, cephalosporins, etc.) and display extreme pleomorphism. Of the mycoplasms species that can be encountered in the normal human genital tract, *Ureaplasma urealyticum*, *Mycoplasma hominis*, and *Mycoplasma genitalium* are considered important.

*Ureaplasma urealyticum* and *M. hominis* can be isolated from healthy persons in high percentages; 40–50% of healthy females and 30–40% of healthy men include these microorganisms as part of their resident genital flora. Genital mycoplasmas constitute a smaller part of all female genital tract infections than is supposed. The association of genital mycoplasmas with female genital tract are categorized in three groups; cases in which genital mycoplasmas are proved to be as definitive causative agents, cases in which they are deemed to be probable causative agents, and cases in which it is shown that they are not the causative agents.

Although there are considerable findings that *U. urealyticum* may play a role in repeated spontaneous abortion, stillbirth and Reiter syndrome, and *M. hominis* in abscess of Bartholin’s gland, further studies are still needed to ascertain these findings. Genital mycoplasmas are not causes of vaginitis and cervicitis.
Doxycycline is the preferred drug in the treatment of NGU. In cases that are resistant to tetracyclines, macrolides or quinolones may be used.

The ABC’s of Hepatitis in Pregnancy
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Viral hepatitis is a frequent complication of pregnancy, usually in its chronic form. A review of the different types of viral hepatitis follows. The incidence and prognosis of hepatitis A is not different in pregnancy. It is not teratogenic, and is very rarely vertically transmitted. A vaccine, which is safe in pregnancy, is currently available.

Most pregnant patients with hepatitis B are chronic carriers. Since most seropositive pregnant women have no risk factors for infection, routine screening for this infection is recommended for all pregnant women in the United States. Babies of women with hepatitis B are given HBIG and hepatitis B vaccine at the time of birth, while babies of seronegative women are administered the vaccine alone. Breast feeding does not increase the risk of vertical transmission. The most prevalent form of viral hepatitis in pregnancy is hepatitis C, although 25–50% of infected women have no risk factors for infection. The risk of vertical transmission is not high (probably <10%), although it is increased if the mother is also HIV-infected or has circulating HCV RNA. The long term neonatal outcome following perinatal hepatitis C infection is not known. Breast feeding does not appear to increase the risk of vertical transmission, although scant data are available.

Hepatitis D is present only in conjunction with acute or chronic hepatitis B infection. Measures to prevent spread of hepatitis B will also be effective in curtailting hepatitis D. Hepatitis E is usually diagnosed on clinical grounds, and causes a mild and self-limited illness in most cases. In developing countries, there appears to be a higher attack rate and higher case-fatality rate during pregnancy. Vertical transmission can occur, but it is not known how frequently.

Vaccination in Pregnancy
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As people realized that childhood vaccine program is insufficient to eliminate some vaccine preventable diseases, adolescent and adult vaccine scheme were found to be important. On the other hand, the beginning of childbearing age of women was accepted as about 15. Thus, the period of pregnancy and routine vaccination program may coincide. Vaccination of woman whose pregnancy is not known may cause serious problems. Also, pregnant women may need vaccination for epidemics, travel, occupational and environmental exposure, etc. Because of unknown but theoretical risk to the fetus, immunization of pregnant women is generally avoided. Tetanus vaccine has a special importance. To avoid puerperal and neonatal tetanus, all the pregnant women non- or inadequately immunized before have to be vaccinated by tetanus vaccine. Inactivated, recombinant, polysaccharide vaccines (hepatitis B, hepatitis A, influenzae, meningococcal vaccine, pneumococcal vaccine, rabies, inactivated polio vaccine) can be administered safely to pregnant women if there is a necessity. However, live vaccines (oral polio vaccine, measles, mumps, rubella, yellow fever, varicella vaccine) are certainly contraindicated for pregnant women. Although, oral polio vaccine and yellow fever vaccine are live vaccines, they may be applied to pregnant women in very exceptional situations. Immune globulins are safe for pregnant women.

Continued Decreased Vertical Transmission With Combination Antiretroviral Therapy in Pregnancy
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Objectives: To review our experience with regard to maternal safety and infant outcome in HIV-infected women treated with triple combination therapy during gestation.

Design: Retrospective, single-center study.

Methods: A chart review is being conducted of women who initiated triple therapy with combivir and nelfinavir or combivir and indinavir usually at 20 weeks gestation and who have delivered their infants. Virologic follow-up data on infant status is obtained from the Baylor College of Medicine Pediatric Department of Allergy and Immunology, as it becomes available.

Results: Data on 98 women who delivered between 21 July 1997 and 1 August 1999 are summarized. Treatment was well tolerated; there were no unusual symptoms reported, and no increased frequency of symptoms normally seen in this patient population. Early nausea was felt to be due to pregnancy and not drugs. All patients received intrapartum zidovudine, in cases prior to membrane rupture. Eighty-four (84) deliveries were vaginal, including delivery of 6 sets of twins; and fourteen (14) by cesarean section including one premature delivery of 29 weeks due to chronic hypertension and severe pregnancy-induced hypertension. Ninety-six patients had viral load determinations done during gestation at their initial prenatal visit, ranging between undetectable (Digne <25 copies/ml) and 189,923 copies/ml. All patients had CD4 levels done during gestation, ranging between 8 and 1,107 cells/mm³; CD4 levels at delivery were done on patients and ranged between 11 and 964 cells/mm³. No fetal anomalies were observed at birth, suggesting that they will likely prove to be uninfected. Updated virologic data on infants delivered to date as well as clinical results for additional deliveries will be presented. At this time 1 infant is positive.

Conclusions: Triple combination therapy including combivir and nelfinavir or combivir and indinavir are well tolerated during pregnancy and was not associated with any fetal abnormalities in the small cohort described here. The transmission rate is less than 2% with combination therapy at the time of this abstract.

Cervicovaginal Microbiology, Enzymes, and Preterm Labor
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ABSTRACTS

Introduction: Lower reproductive tract infections, such as cervicitis or vaginitis, may play a major role in the pathogenesis of preterm labor, premature rupture of membranes and preterm birth.

Objective: To investigate the relationship between cervicovaginal infections and related events as assessed by expression of bacterial enzymes and alterations in vaginal pH with preterm labor.

Materials and Methods: We identified cervicovaginal infections using three different diagnostic tools: 1) cervicovaginal microbiology in 1830 patients; 2) assessment of vaginal pH in 100 patients; 3) detection of bacterial enzymes in 50 patients. Then we correlated these events to perinatal outcome. We evaluated women in pregnancy at first trimester and during gestation week 30–34. Vaginal fluid was taken for wet mount, Gram stain, pH measurement, bacterial enzymes such as sialidase, and microbiological test. Endocervical swab was sampled by using a cotton-tipped swab. Vaginal pH values were obtained by colorimetric strips carried by index finger of the special gloves. A cut-off point of pH 4.5 was selected.

Results: In 1830 patients who have undergone microbiological test, we found 30% microbiological positivity. Among these, 52% developed threatening preterm labor. In 100 patients we detected a pH greater than 4.5 in 35% of all cases. Among microbiologically-positive patients (40%), vaginal fluid pH was positive especially in 74% cases of BV. Sialidase activity in cervicovaginal fluid was associated with presence of ureaplasma, GBS, gardnerella and chlamydia.

Conclusion: Screening and treating cervicovaginal infections may be the best way to prevent adverse perinatal outcome such as preterm labor, PROM and preterm birth.

Chlamydia Infection and Perinatal Outcome

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Objective: We evaluated the importance of Chlamydia trachomatis infection in the etiopathogenesis of adverse perinatal outcome such as preterm labor, premature rupture of membranes, and preterm birth.

Materials and Methods: At first trimester and during gestation week 30–34, specimens were collected by inserting a sterile speculum into the vagina and wiping the vaginal discharge from the ectocervix. Endocervical material was sampled by using a cotton-tipped swab.

Results: The C. trachomatis infection rate was 8.8%. PROM occurred in 35% of the cases; the frequency of threatening preterm labor was 10%, significantly higher in C. trachomatis-positive patients.

Conclusion: Every pregnant woman, and not only those at high risk, should be screened for C. trachomatis infection in order to prevent adverse perinatal outcome.

Inflammatory Reactions in Cervico-Vaginal Smears

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Aim: To investigate the rate of inflammation in cervico-vaginal smears taken from asymptomatic women to screen against cervical cancer.

Methods: 390 cervico-vaginal smears taken from women without any complaints in 1998 were studied for inflammatory reactions in Terminal Medical Center. All cervico-vaginal smears prepared from cells removed from the posterior fornix of the vagina or from the squamous epithelium that lines the cervix and the portio of the cervix from the epithelial lining of the endocervical canal. Cervico-vaginal smear of collection of a vaginal pool and cervical surface sampled by brush. They were fixed by spray fixative. All smears were stained by Papanicolaou staining technique. Pathological inflammatory processes within the lower genital tract are bacterial, fungal, parasitic or viral origin.

Results: 238 (61.1%) cervico-vaginal smears showed normal cytologic findings. Inflammatory reactions were found in 152 (38.9%) of them. The cocci are the most common causative bacterial agents and found in 103 women (26.4%). Candida was the most common fungus associated with vaginitis and cervicitis found in 17 cases (4.3%). Trichomonas vaginalis was found in 7 cases (1.8%). Gardnerella was found in 11 cases (2.8%). Viral agents herpes genitalis and human papilloma virus infections were the most important and found in 11 cases (2.8%).

Conclusion: The cervicovaginal smears taken from asymptomatic women are useful to diagnose inflammations in asymptomatic cases or early infections.

Perinatal Group B Streptococcal Colonization and Intrapartum Antibiotic Prophylaxis

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Objective: Group B Streptococcus (GBS) is a common cause of serious maternal and neonatal infections. The aim of this study was to identify the incidence of rectovaginal colonization of GBS in pregnant women in our hospital and to evaluate the outcome of culture positive patients who had received intrapartum antibiotic prophylaxis according to recommendations of American Academy of Pediatrics.

Methods: Pregnant women followed at Marmara University Hospital, Obstetrics and Gynecology outpatient clinic were screened at week 35–37 of gestation for GBS colonization. The rectovaginal samples were processed in a selective culture medium for GBS. The patients with positive culture results received intravenous ampicillin in the intrapartum period and both the patients and their newborns were evaluated for complications.

Results: Out of 100 patients between 18–41 years of age, 57 patients (57%) were multipara and 43 patients (43%) were primipara. Ten patients (10%) (6 patients multipara, 4 patients primipara) had GBS growth in their rectovaginal cultures whereas 1 patient had urinary tract infection secondary to GBS. The multipara patients had not had any infectious complications in their previous pregnancies. All but two patients with GBS colonization received intrapartum antibiotic prophylaxis as well as treatment of urinary tract infection when present. One of the GBS (+) patients had emergency cesarean section delivery for fetal distress and could not receive intrapartum antibiotic prophylaxis. The culture result of the other patient was not known during the labor so she could not receive intrapartum antibiotic prophylaxis as well.
Intrapartum Prophylaxis for Perinatal Group B Streptococcal Disease: Do the CDC Guidelines Apply Everywhere? The Rambam Experience

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Objective: To establish whether to adopt the new guidelines from the CDC for the prevention of perinatal group B streptococcal disease in our region.

Design: A retrospective chart review of all neonates born during 1993–1997, with group B streptococcal colonization at any culture site. All rectovaginal cultures taken from group B streptococci in parturients with preterm premature rupture of membranes and preterm labor during 1993–1997 were reviewed.

Results: During the 10 study years, 45,968 neonates were evaluated, 12 neonates developed early onset group B streptococcal sepsis (0.26/1000). 8 neonates with a positive culture of group B streptococcus died, but only 2 of them had septicemia. 6 deaths, including the 2 with septicaemia, could have been attributed to other factors. During the years 1993–1997, rectovaginal cultures unscreened for group B streptococcus for 259 parturients with preterm premature rupture of membranes or preterm labor. Only 18(7%) were positive, none of their babies developed early onset group B streptococcal sepsis.

Conclusion: The low carrier rate in our high risk patients and the low incidence of neonatal early onset group B streptococcal disease in our population lead us to reject the new guidelines from the CDC.

Sexually Transmitted Diseases Incidence In Entertainment Business In Ankara

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Objective: This survey has been planned to investigate the foreign (mainly Russian and Romanian) and local women in entertainment business, as possible focus of gonorrhea, syphilis, hepatitis B & C, HIV, as well as trichomonasiasis, candidiasis, bacterial vaginosis, ureaplasmosis and mycoplasmosis.

Method: 74 women were sampled bacteriologically and serologically for the mentioned sexually transmitted diseases and have been asked to fill out a questionnaire.

Results: No cases of chlamydia, trichomonas, HIV, and hepatitis C were identified. The incidences of other infections were found as: candidiasis (5.4%), bacterial vaginosis (12.16%), ureaplasmosis (16.2%), mycoplasmosis (16.2%), gonorrhea (5.4%), syphilis (1.35%), and hepatitis B (2.7%).

Conclusion: There has been an insidious increase in STD in Turkish population as stated and supported by various other researches. We tried to open a less clearly visible source of STD and highlighted some of the unknown risk factors present in entertainment business in Ankara region.

Evaluation of 62 Tubo-Ovarian Abscesses: Risk Factors, Clinical Features, and Treatment

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Objective: Evaluation of risk factors, clinical features and treatment in tubo-ovarian abscess which is one of the early complications of pelvic inflammatory disease with a prevalence as many as 34% of women with PID.

Material and Methods: 62 patients who were treated at the Obstetrics and Gynecology Department of Ankara Numune Education and Research Hospital between 1995 and 1999 were evaluated, retrospectively.

Results: The patients ranged in age between 20–54 with a mean of 36.16 ± 8.36. All of the patients were married. The parities were between 0–5 with a mean of 2.06 ± 1.54.

In our study, the most important risk factor was IUD usage (58.06%). The most frequent symptom was abdominal pain (90.3), the other symptoms were foul smelling vaginal discharge (69.3%) and vaginal bleeding (29.03%). On pelvic examination bilateral adnexial masses were found in 16 (25.8%) of the patients, left adnexial mass was found in 28 (45.16%), and right adnexial mass was found in 18 (29.03%) of the patients. The fever was more than 38°C in 38 (61.3%) patients. The mean leucocyte count was 15.793 ± 5032.75. There was a correlation with ultrasound examination in 40 of 62 (64.5%) patients. Clindamycin and gentamicin treatment was performed to all patients. After 48 hours 17 (27.4%) patients responded to medical treatment. The other 45 (72.5%) patients were treated with surgical methods. There was 25.8% rupture and 35.4% generalized peritonitis. In our cases we had no complications, mean duration of hospitalization was 11.03 ± 5.1 days.

Acute Appendicitis in Pregnancy

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Objective: Acute appendicitis in pregnancy is the most common nonobstetric complication warranting emergency laparotomy. The goal of this study is the evaluation of clinical manifestations, diagnosis and management of acute appendicitis in pregnancy.

Material and Methods: 25 pregnant patients to whom performed laparotomy for suspected acute appendicitis in Gynecology Department of Ankara Numune Research and Education Hospital between 1995–1999 were evaluated retrospectively.

Results: In 15 (60%) cases, acute appendicitis was proven at laparotomy and by subsequent histopathology. In the confirmed cases, 3 (25%) in the first trimester, 18 (72%) in the second and 4(16%) in the third trimester. Abdominal pain was the most common presenting symptom; the second was vomiting. Abdominal tenderness and rebound tenderness were the most common physical signs, although the latter was less marked in late pregnancy. There was a correlation with USG in 2 (8%) patients. Laparotomy was performed within the
first 24 hours of onset of symptoms in all patients. Perforation of appendix was found in 1(4%) patient. There were 2(8%) preterm labors in the third trimester group (30 and 34 weeks) within the postoperative 48 hours, tocolitic therapy was performed and successful. In our study, there were no fetal and maternal deaths.

How Should We Treat Bacterial Vaginosis in the 1990s?
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The treatment of anaerobic/bacterial vaginosis can sometimes be difficult. To calculate the true four-week cure rate, endpoint analysis should be carried out. The patients not cured after one or two weeks should be added to patients not cured after four weeks (many authors exclude patients not cured at one or two weeks). After a critical review of the literature of all blinded (single or double) studies the cure rate is much lower than expected and is no better than 60–75%.
An analysis shows that nonpublished treatment studies (used by the drug companies in registration files) have a much lower cure rate than the published studies. If the expected cure rate after 4-weeks is so low, how shall we increase the cure rate?

Women visiting for legal abortions will have benefit of preoperative treatment of BV with vaginal clindamycin cream the same as women with intermediate flora. However, women with normal lactobacilli will not have any increased risk of postoperative infection. This will point out that maybe even intermediate flora should be regarded as a pathological flora and should be regarded as pathological as BV and should be treated the same.

Perinatal Group B Streptococcal Colonization and Intrapartum Antibiotic Prophylaxis
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Group B Streptococcus: 1999 Update
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