Restraint Warranted in Pap Management for Teens

BY DIANA MAHONEY New England Bureau

BOSTON — Don't do Pap smears in adolescents under age 21 years or in the first 3 years after their sexual debut "because it can do more harm than good."

"High-grade lesions are rare in teenagers ... and they take years to develop," Dr. Michael S. Policar stressed at a conference on contraceptive technology sponsored by Contemporary Forums. About "91% of low-grade lesions in teens, such as cervical intraepithelial neoplasia 1 [CIN 1] often resolve spontaneously, 6% remain stable, and only 3% progress to high-grade dysplasia." Biopsy-proven CIN 2 lesions often also regress spontaneously, he added.

Recognition of these early cytologic abnormalities on Pap testing could lead to unnecessary intervention and consequent risks, said Dr. Policar of the department of obstetrics, gynecology, and reproductive sciences at the University of California, San Francisco. As such, the American College of Obstetricians and Gynecologists recommends Pap testing should not be initiated until age 21 or 3 years after first intercourse.

Restraint is also warranted in managing teens whose Pap tests show atypical squamous cells of undetermined significance (ASC-US) or low-grade squamous intraepithelial lesions (LSIL). Consensus guidelines call for reflex human papillomavirus (HPV) testing for women with ASC-US and colposcopic examination of the cervix for HPV infection, LSIL, and high-grade squamous intraepithelial lesion (HSIL). But these no longer apply to adolescents and young women, he said, referring to the American Society for Colposcopy and Cervical Pathology guidelines for abnormal cervical screening tests (Am. J. Obstet. Gynecol. 2007; 197:346-55). Those adolescents should undergo a repeat Pap smear in 12 months.

Dr. Policar disclosed that he is a speaker for Graceway Pharmaceuticals LLC, Merck & Co., and TyRx Pharma Inc.

Abnormal Bleeding—SSRIs and SNRIs, including duloxetine, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, warfarin, and other anti-coagulants may add to this risk. Case reports and epidemiological studies (case-control and cohort design) have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding events related to SSRIs and SNRIs use have ranged from ecchymoses, becartere and retoring and retoring the lifethreataning hemorrhages.

hematomas, epistaxis, and petechiae to life-threatening hematomas, epistaxis, and petechiae to life-threatening hematomas, exact with the concomitant use of duloxetine and NSAIDs, aspirin, or other drugs that affect coagulation.

Use of duloxetine and NSAIDS, aspirin, of other drugs that affect coagulation. **Discontinuation of Treatment with Cymbalta**—Discontinuation symptoms have been systematically evaluated in patients taking duloxetine. Following abrupt or tapered discontinuation in placebo-controlled clinical trials, the following symptoms occurred at a rate greater than or equal to 1% and at a significantly higher rate in duloxetine-treated patients compared to those discontinuing from placebo: dizziness, nausea, headache, fatigue, paresthesia, vomiting, irritability, nightmares, insomnia, diarrhea, anxiety, hyperhidrosis and vertice and vertigo. During marketing of other SSRIs and SNRIs (serotonin and norepinephrine reuptake

inhibitors), there have been spontaneous reports of adverse events occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesias such as electric shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia, hypomania, tinnitus, and seizures. Although these events are generally self-limiting, some have been reported to be severe. Patients should be monitored for these symptoms when discontinuing treatment with

Cymbalta. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate.

gradual rate. Activation of Mania/Hypomania—In placebo-controlled trials in patients with major depressive disorder, activation of mania or hypomania was reported in 0.1% (2/2327) of duloxetine-treated patients and 0.1% (1/1460) of placebo-treated patients. No activation of mania or hypomania was reported in DPNP or GAD placebo-controlled trials. Activation of mania or hypomania has been reported in a small proportion of patients with mood disorders who were treated with other marketed drugs effective in the treatment of major depressive disorder. As with these other agents, Cymbalta should be used cautiously in patients with a history of mania Seizures—Duloxetine has not been systematically evaluated in patients with a seizure

disorder, and such patients were excluded from clinical studies. In placebo-controlled clinical trials, seizures/convulsions occurred in 0.04% (3/8504) of patients treated with duloxetine and 0.02% (1/6123) of patients treated with placebo. Cymbalta should be prescribed with care in patients with a history of a seizure disorder. **Effect on Blood Pressure**—In clinical trials across indications, relative to placebo, duloxetine treatment was associated with mean increases of up to 2.1 mm Hg in systolic blood pressure and up to 2.3 mm Hg in diastolic blood pressure. There was no significant difference in the forguare of euceptical trials across indications in the forguare to the forguare for the second trials across the forguare to the forguare of the forguare to the forguare to the forguare of the forguare to the forguare to the forguare of the f

difference in the frequency of sustained (3 consecutive visits) elevated blood pressure. In a clinical pharmacology study designed to evaluate the effects of duloxetine on various parameters, including blood pressure at supratherapeutic doses with an accelerated dose titration, there was evidence of increases in supine blood pressure at doses up to 200 mg BID. At the highest 200 mg BID dose, the increase in mean pulse rate was 5.0 to 6.8 beats and parameters increase the increase in the in

BID. At the highest 200 mg BID dose, the increase in mean pulse rate was 5.0 to 6.8 beats and increases in mean blood pressure were 4.7 to 6.8 mm Hg (systolic) and 4.5 to 7 mm Hg (diastolic) up to 12 hours after dosing. Blood pressure should be measured prior to initiating treatment and periodically measured throughout treatment [see Adverse Reactions, Vital Sign Changes]. **Clinically Important Drug Interactions**—Both CYP1A2 and CYP2D6 are responsible for duloxetine metabolism. <u>Potential for Other Drugs to Affect Cymbalta</u>—*CYP1A2 Inhibitors*—Co-administration of Cymbalta with potent CYP1A2 inhibitors should be avoided [see Drug Interactions]. *CYP2D6 Inhibitors*—Because CYP2D6 is involved in duloxetine metabolism, concomitant use of duloxetine with potent inhibitors of CYP2D6 would be expected to, and does, result in higher concentrations (on average of 60%) of duloxetine [see Drug Interactions].

use of duloxetine with potent inhibitors of CYP2D6 would be expected to, and does, result in higher concentrations (on average of 60%) of duloxetine [see Drug Interactions]. <u>Potential for Cymbalta to Affect Other Drugs</u>—Drugs Metabolized by CYP2D6— Co-administration of Cymbalta with drugs that are extensively metabolized by CYP2D6 and that have a narrow therapeutic index, including certain antidepressants (tricyclic antidepressants [TCAs], such as nortriptyline, amitriptyline, and imipramine), phenothiazines and Type 1C antiarrhythmics (e.g., propafenone, flecainide), should be approached with caution. Plasma TCA concentrations may need to be monitored and the dose of the TCA may need to be reduced if a TCA is co-administered with Cymbalta. Because of the risk of serious ventricular arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine, Cymbalta and thioridazine should not be co-administered [see Drug Interactions]. Drug Interactions). <u>Other Clinically Important Drug Interactions</u>—Alcohol—Use of Cymbalta concomitantly

with heavy alcohol intake may be associated with severe liver injury. For this reason, Cymbalta should ordinarily not be prescribed for patients with substantial alcohol use [see Warnings and Precautions and Drug Interactions]. CNS Acting Drugs—Given the primary CNS effects of Cymbalta, it should be used with caution when it is taken in combination with or substituted for other centrally acting drugs, including those with a similar mechanism of action [see Warnings and Precautions and Drug Interactions].

and Drug Interactions]. Hyponatremia—Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, including Cymbalta. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported and appeared to be reversible when Cymbalta was discontinued. Elderly patients may be at greater risk of developing hyponatremia with SSRIs and SNRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk *[see Use in Specific Populations]*. Discontinuation of Cymbalta should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted.

Cvmbalta® (duloxetine hvdrochloride)

PV 5907 AMP Cymbalta® (duloxetine hydrochloride)

Use in Patients with Concomitant Illness—Clinical experience with Cymbalta in atients with concomitant systemic illnesses is limited. There is no information on the effect that alterations in gastric motility may have on the stability of Cymbalta's enteric coating. In extremely acidic conditions, Cymbalta, unprotected by the enteric coating, may undergo hydrolysis to form naphthol. Caution is advised in using Cymbalta in patients

Country in externetly actinc continuous, cyrinolata, unprotector by the effect counting, may undergo hydrolysis to form naphthol. Caution is advised in using Cymbalta in patients with conditions that may slow gastric emptying (e.g., some diabetics). Cymbalta has not been systematically evaluated in patients with a recent history of myocardial infarction or unstable coronary artery disease. Patients with these diagnoses were generally excluded from clinical studies during the product's premarketing testing. <u>Hepatic Insufficiency</u>—Cymbalta should ordinarily not be used in patients with hepatic insufficiency [see Warnings and Precautions and Use in Specific Populations]. <u>Severe Renal Impairment</u>—Cymbalta should ordinarily not be used in patients with end-stage renal disease or severe renal impairment (creatinine clearance <30 mL/min). Increased plasma concentration of duloxetine, and especially of its metabolites, occur in patients with end-stage renal disease (requiring dialysis) [see Use in Specific Populations]. <u>Controlled Narrow-Angle Glaucoma</u>—In clinical trials, Cymbalta was associated with an increased risk of mydriasis; therefore, it should be used cautiously in patients with controlled narrow-angle glaucoma [see Contraindications]. <u>Glycemic Control in Patients with Diabetes</u>—As observed in DPNP trials, Cymbalta treatment worsens glycemic control in some patients with diabetes. In three clinical trials of Cymbalta for the management of neuropathic pain associated with diabete peripheral neuropathy, the mean duration of diabetes was approximately 12 years, the mean baseline fasting blood glucose vas 176 mg/dL, and the mean baseline hemoglobin A_{1c} (HbA_{1c}) was 7.8%. In the 12-week acute treatment phase of these studies, Cymbalta was associated with a small increase in mean fasting blood glucose as compared to placebo.

Are (nDAte) was robe in the relation action fasting blood glucose as compared to placebo. In the extension phase of these studies, which lasted up to 52 weeks, mean fasting blood glucose increased by 12 mg/dL in the Cymbalta group and decreased by 11.5 mg/dL in the routine care group. HbA_{te} increased by 0.5% in the Cymbalta and by 0.2% in the routine

care groups. **Urinary Hesitation and Retention**—Cymbalta is in a class of drugs known to affect urethral resistance. If symptoms of urinary hesitation develop during treatment with Cymbalta, consideration should be given to the possibility that they might be drug-related. In post marketing experience, cases of urinary retention have been observed. In some instances of urinary retention associated with duloxetine use, hospitalization and/or catheterization has been needed. **Laboratory Tests**—No specific laboratory tests are recommended.

ADVERSE REACTIONS: Clinical Trial Data Sources—The data described below reflect exposure to duloxetine in placebo-controlled trials for MDD (N=2327), DPNP (N=568) and GAD (N=668). The population studied was 17 to 89 years of age; 64.8%, 38.7%, and 64.7% female; and 85.5%, 77.6%, and 84.6% Caucasian for MDD, DPNP, and GAD, respectively. Most patients received doses of a total of 60 to 120 mg per day. The stated frequencies of adverse reactions represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse reaction of the type listed. A reaction was considered treatment-emergent if it occurred for the first time or worsened while receiving therapy following baceline evaluation. Pacetione: reported during the

A reaction was considered treatment-emergent in to occurred for the first time of worsened while receiving therapy following baseline evaluation. Reactions reported during the studies were not necessarily caused by the therapy, and the frequencies do not reflect investigator impression (assessment) of causality. Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Adverse Reactions Reported as Reasons for Discontinuation of Treatment in Placebo-Controlled Trials—Major Depressive Disorder—Approximately 9% (209/2327) of the patients who received duloxetine in placebo-controlled trials for MDD discontinued treatment due to an adverse reaction, compared with 4.7% (68/1460) of the patients receiving placebo. Nausea (duloxetine 1.3%, placebo 0.5%) was the only common adverse reaction reported as a reason for discontinuation and considered to be drug-related (i.e.,

reaction reported as a reason for discontinuation and considered to be drug-related (i.e., discontinuation occurring in at least 1% of the duloxetine-treated patients and at a rate of at least twice that of placebo). <u>Diabetic Peripheral Neuropathic Pain</u>—Approximately 14.3% (81/568) of the patients who received duloxetine in placebo-controlled trials for DPNP discontinued treatment due to an adverse reaction, compared with 7.2% (16/223) for placebo. Common adverse reactions reported as a reason for discontinuation and considered to be drug-related (as defined above) were nausea (duloxetine 3.5%, placebo 0.4%), dizziness (duloxetine 1.6%, placebo 0.4%), somnolence (duloxetine 1.6%, placebo 0.0%), and fatigue (duloxetine 1.1%, nlacebo 0.0%) placebo 0.0%)

placebo 0.0%). <u>Generalized Anxiety Disorder</u>—Approximately 15.3% (102/668) of the patients who received duloxetine in placebo-controlled trials for GAD discontinued treatment due to an adverse reaction, compared with 4.0% (20/495) for placebo. Common adverse reactions reported as a reason for discontinuation and considered to be drug-related (as defined above) included nausea (duloxetine 3.7%, placebo 0.2%), vomiting (duloxetine 1.3%, placebo 0.0%), and dizziness (duloxetine 1.0%, placebo 0.2%). **Adverse Reactions Occurring at an Incidence of 5% or More Among Duloxetine-Treated Patients in Placebo-controlled Trials**—The incidence of treatment-emergent adverse reactions in placebo-controlled trials (N=3563 Cymbalta; N=2178 placebo) for approved indications that occurred in 5% or more of patients treated with duloxetine and with an incidence areater than placebo were nausea dry mouth diarrhea dizziness*

approved indicatoris that occurred in 5% of more of patients treated with dubterine and with an incidence greater than placebo were: nausea, dry mouth, diarrhea, dizziness*, insomnia (includes middle insomnia, early morning awakening, and initial insomnia), fatigue* (includes asthenia), somnolence* (includes hypersomnia and sedation), constipation*, decreased appetite* (includes anorexia), and hyperhidrosis. *Events for which there was a significant dose-dependent relationship in fixed-dose studies, excluding three MDD studies which did not have a placebo lead-in period or dose titration. The most commonly observed adverse reactions in dubyetine-treated patients (incidence

studies which did not have a placebo lead-in period or dose titration. The most commonly observed adverse reactions in duloxetine-treated patients (incidence of 5% or greater and at least twice the incidence in placebo patients) were nausea, dry mouth, somnolence, constipation, decreased appetite, and hyperhidrosis. Adverse Reactions Occurring at an Incidence of 2% or More Among Duloxetine-Treated Patients in Placebo-Controlled Trials—Pooled MDD and GAD Trials—Table 3 in full Pl gives the incidence of treatment-emergent adverse reactions in MDD and GAD placebo-controlled trials (N=2995 Cymbalta; N=1955 placebo) for approved indications that