Unexplained Infertility May Not Warrant Treatment

BY MARY ELLEN SCHNEIDER

New York Bureau

NEW ORLEANS — Women in their 30s with unexplained infertility do not achieve higher live birth rates when treated with unstimulated intrauterine insemination or clomiphene, compared with expectant management, according to results of a study presented at the annual meeting of the American Society for Reproductive Medicine.

The findings suggest that in some groups of women with unexplained infertility, the option of no treatment may be as effective as treatment with clomiphene or unstimulated intrauterine insemination (IUI) in achieving a live birth, said Professor Siladitya Bhattacharya of the University of Aberdeen (Scotland) on behalf of the Scottish Unexplained Infertility Trial Collaborative Group.

"This really is the largest trial on the subject so far," Dr. Bhattacharya said in an interview. The result "does not surprise me at all, because the effectiveness of some treatments is based on tradition rather than empirical evidence," he added.

The study evaluated couples at five centers in Scotland who had experienced infertility for at least 2 years and who had confirmed ovulation, patent fallopian tubes, and motile sperm. Most participants in the study had primary infertility. The three randomized groups included 193 women in the expectant management group, 194 women

who received 50 mg clomiphene on days 2-6 of a cycle, and 193 women who underwent unstimulated IUI over a period of 6 months. Patients in the treatment arms received up to six cycles of treatment.

Median female age, median body mass index, duration of infertility, and percentage with primary infertility were all similar among the different groups. No significant difference in sperm concentration or sperm motility was seen among the groups.

Based on available follow-up data at 16 months, the rate of live births was similar in the three groups. Thirty-three (17%) of the women in the expectant management group, 26 (14%) in the clomiphene group, and 43 (23%) in the IUI group achieved a live birth. Although significantly more women achieved a live birth in the IUI group, compared with the clomiphene group, neither active treatment was superior when compared with expectant management.

Dr. Bhattacharya said that providers tend to ignore the chance of a spontaneous pregnancy occurring in a general population of couples seeking infertility treatment. "This study highlights the potential for spontaneous pregnancy," he said.

Some women probably do benefit from in vitro fertilization (IVF). "[For] those who have tried for a reasonable time and in whom age is an issue, we should think about IVF sooner," he said.

225 mg/kg/day, pinnae detachment and eye opening at 225 mg/kg/day). These doses correspond to 6 times (100 mg/kg) and 22 times (225 mg/kg) the human AUC at 80 mg/day. Rare reports of congenital anomalies have been received following intrauterine exposure to HMG-CoA reductase inhibitors. There has been one report of severe congenital bony deformity, tracheo-esophageal fistula, and and atresis (VATER association) in a baby born to a woman who took lovastatin with dextroamphetamine sulfate during the first trimester of pregnancy. LIPTOR should be administered to women of child-bearing potential only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the woman becomes pregnant while taking LIPTOR, it should be discontinued and the patient advised again as to the potential hazards to the fetus. **Nursing Mothers**—Nursing rat pups had plasma and liver drug levels of 50% and 40%, respectively, of that in their mother's milk. Because of the potential for adverse reactions in nursing infrants, women taking LIPTOR should not breast-feed (see CONTRAINDICATIONS). Pediatric Use—Safety and effectiveness in patients 10-17 years of age with heterozygous familial hypercholesterolemia have been evaluated in a controlled clinical trial of 6 months duration in adolescent boys and postmenarchal girls. Patients treated with LIPTOR had an adverse experience profile generally similar to that of patients treated with placebo, the most common adverse experience sobserved in both groups, regardless of causality assessment, were infections. Doses greater than 20 mg have not been studied in this patient population. In this limited controlled study, there was no detectable effect on growth or sexual maturation in boys or on menstrual cycle length in girls (see CLINICAL PHARMACOLOGY, Clinical Studies section in full prescribing information, ADVERSE REACTIONS, Pediatric Patients (10-17 years of age) in full prescribing information, ADVERSE REACTIONS and PRECAUTIONS, Pregnancy). LIPTOR has not

age groups.

ADVERSE REACTIONS: LIPITOR is generally well-tolerated. Adverse reactions have usually been mild and transient. In controlled clinical studies of 2502 patients, <2% of patients were discontinued due to adverse experiences attributable to atorvastatin. The most frequent adverse events thought to be related to atorvastatin were constipation, flatulence, dyspepsia, and abdominal pain. Clinical Adverse Experiences—Adverse experiences reported in ≥2% of patients in placebo-controlled clinical studies of atorvastatin, regardless of causality assessment, are shown in the following table.

Adverse Fuents in Placebo-Controlled Studies (% of Patients)

Adverse Events in Placebo-Controlled Studies (% of Patients)					
BODY SYSTEM	Placebo	Atorvastatin	Atorvastatin	Atorvastatin	Atorvastatin
Adverse Event		10 mg	20 mg	40 mg	80 mg
	N = 270	N = 863	N = 36	N = 79	N = 94
BODY AS A WHOLE					
Infection	10.0	10.3	2.8	10.1	7.4
Headache	7.0	5.4	16.7	2.5	6.4
Accidental Injury	3.7	4.2	0.0	1.3	3.2
Flu Syndrome	1.9	2.2	0.0	2.5	3.2
Abdominal Pain	0.7	2.8	0.0	3.8	2.1
Back Pain	3.0	2.8	0.0	3.8	1.1
Allergic Reaction	2.6	0.9	2.8	1.3	0.0
Asthenia	1.9	2.2	0.0	3.8	0.0
DIGESTIVE SYSTEM					
Constipation	1.8	2.1	0.0	2.5	1.1
Diarrhea	1.5	2.7	0.0	3.8	5.3
Dyspepsia	4.1	2.3	2.8	1.3	2.1
Flatulence	3.3	2.1	2.8	1.3	1.1
RESPIRATORY SYSTEM	VI .				
Sinusitis	2.6	2.8	0.0	2.5	6.4
Pharyngitis	1.5	2.5	0.0	1.3	2.1
SKIN AND APPENDAG	ES				
Rash	0.7	3.9	2.8	3.8	1.1
MUSCULOSKELETAL S					
Arthra l gia	1.5	2.0	0.0	5.1	0.0
Myalgia	1.1	3.2	5.6	1.3	0.0

Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT)—In ASCOT (see CLINICAL PHARMACOLOGY, Clinical Studies in full prescribing information) involving 10,305 participants treated with LIPITOR 10 mg daily (n=5,168) or placebo (n=5,137), the safety and toterability profile of the group treated with LIPITOR was comparable to that of the group treated with placebo during a median of 3.3 years of follow-up.

norative Atorvastatin Diabetes Study (CARDS)—In CARDS (see CLINICAL PHARMACOLOGY, Clinical Studii prescribing information) involving 2838 subjects with type 2 diabetes treated with LIPTOR 10 mg daily (n=142) sebo (n=1410), there was no difference in the overall frequency of adverse events or serious adverse events and the treatment groups during a median follow-up of 3.9 years. No cases of rhabdomyolysis were reported.

atorvastatin in clinical trials. The events in italics occurred in ≥2% of patients and the events in plain type occurred in <2% of patients.

Body as a Whole: Chest pain, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalized edema. **Diyestive System: Nausea, gastroenterits, liver function tests abnormal, colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, biliary pain, chelitis, duodenal ulcer, dvsphagia, enteritis, melena, gum hemorrhage, stomach ulcer, tenesmus, ulcerative stomatitis, hepatitis, panereatitis, cholestatic jaundice. **Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, astima, epistaxis. **Nervous System: Insommia, dizziness, paresthesia, somnolence, amnesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, racial paralysis, hyperkinesia, depression, hypesthesia, hypertonia, **Museuloskeletal System: Arthritis, leg cramps, bursitis, tenosynovitis, myasthenia, tendinous contracture, myositis, **Skin and Appendages: Pruritus, contact dermatitis, alopecia, dry skin, sweating, acne, urticaria, eczema, seborrhea, skin ulcer. **Uncepital System: Uninary tract infection, hematuria, albuminuria, urinary frequency, cystitis, impotence, dysuria, kidney calculus, nocturia, epididyminis, fibrocystic breast, vaginal hemorrhage, breast enlargement, metrorrhagia, nephritis, urinary incontinence, urinary retention, urinary urgency, abnormal ejaculation, uterine hemorrhage. **Special Senses: Amblyopia, linnitus, cyt yeves, refrection disorder, eye hemorrhage, deafness, glaucoma, parosmia, taste loss, taste perversion. **Cardiovascular System:**Palpitation, vascollatation, syncope, migraine, postural hypotension, phlebitis, arrhythmia, angina pectoris, hypertension. **Metabolic and Mutritional Disorders: Peripheral edema, hyperglycemia, America and lymphatis Cystem: Ecotymosis, anemia, lymphadenopathy, thrombo **OVERDOSAGE:** There is no specific treatment for atorvastatin overdosage. In the event of an overdose, the patien should be treated symptomatically, and supportive measures instituted as required. Due to extensive drug binding to plasma proteins, hemoidalysis is not expected to significantly enhance atorvastatin clearance. se see full prescribing information for additional information about LIPITOR.

Rev. 9, September 2005

LIPITOR® (Atorvastatin Calcium) Tablets

LIPITOR® (Atorvastatin Calcium) Tablets

Brief Summary of Prescribing Information

CONTRAINDICATIONS: Active liver disease or unexplained persistent elevations of serum transaminases. Hypersensitivity to any component of this medication Pregnancy and Lactation — Atherosclerosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hypercholesterolemia. Cholesterol and other products of cholesterol biosynthesis are essential components for fetal development (including synthesis of steroids and cell membranes). Since HMG-CoA reductase inhibitors decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol, they may cause fetal harm when administered to pregnant women. Therefore, HMG-CoA reductase inhibitors are contraindicated during pregnancy and in nursing mothers. ATORVASTATIN SHOULD BE ADMINISTERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHLY UNILKELY TO CONCEIVE AND HAVE BEEN INFORMED OF THE POTENTIAL HAZARDS. If the patient becomes pregnant while taking this drug, therapy should be discontinued and the patient apprised of the potential hazard to the fetus.

ARE HIGHT VOILET TO CONCEVE AND TAKE SEEN INFORMED OF THE POTENTIAL RAZARUS. If the patient hazard to the fetus.

WARNINGS: Liver Dystunction — HMG-CoA reductase inhibitors, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function, Persistent elevations (>3 times the upper limit of normal [UII] occurring on 2 or more occasions) in serum transaminiases occurred in 0.7% of patients who received atorvastatin in clinical trials. The incidence of these abnormalities was 0.2%, 0.2%, 0.6%, and 2.3% for 10, 20, 40, and 80 mg, respectively. One patient in clinical trials developed jaundice. Increases in liver function tests (ITT) in other patients were not associated with jaundice or other clinical signs or symptoms. Upon dose reduction, drug interruption, or discontinuation, transaminase levels returned to or near pretreatment levels without sequelae. Eligitate of 30 patients with persistent LTF elevations continued treatment with a reduced dose of atorvastatin, it is recommended that liver function tests be performed prior to and a 12 weeks following both the initiation of therapy and any elevation of dose, and periodically (e.g., semiannually) thereafter. Liver enzyme changes generally occur in the first 3 months of treatment with atorvastatin, Patients who develop increased transaminase levels should be monitored until the abnormalities resolve. Should an increase in ALT or AST of -3 times ULN persist, reduction of dose or withdrawal of atorvastatin is recommended. Atorvastatin should be used with caution in patients who consume substantial quantities of alcohol and/or have a history of liver disease. Active liver disease course, and the construction of the constructi

Studentis, but teach as the assar alter than such minutioning your prevent use cut there is sever imporative, conditions suggestive of a myphapity or having a risk factor predisposing to the development of renal failure secondary to rhabdomyobjes (eg. severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders, and uncontrolled seizures).

PRECAUTIONS: General — Before instituting therapy with atorestatin, an attempt should be made to control hypercholastroolmen with appropriate diet, exercise, and weight reduction in obese patients, and to treat other underlying medical problems (see INDICATIONS AND USAGE in full prescribing information). Information for Patients—Patients should be advised to report promptly unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever. Drug Interactions — The risk of myopathy during treatment with drugs of this class is increased with concurrent administration of cybosporine, fibric acid derivatives, nice in (inciditic acid), enythoropycin, acid enditingals (see WARNINGS, Skeletal Muscle). Antacid: When atorvastatin and Malayer. To Suspension were cooliministered, plasma concentrations of atorvastatin decreased approximately 35%. However, Dil-C reduction was not aftered. Antipyrine: Because atorvastatin does not affect the pharmacokinetics of intutyring, interactions with other drugs metabolized via the same concentrations with a pharmacokinetic of antipyrine, interactions with other drugs metabolized via the same concentrations are not expected. Colestipol "Hasma concentrations of atorvastatin derived than when either drug was given alone. Cimetidine. Plagoriem Hasmatics of expertation and condensitions of atorvastatin and on an experimental programments. Plagoriem Hasmatics and the programments of a translation of a disensity of the programments. Plagoriem Hasmatics and the programment of the

Parke-Davis

Pizer U.S. Pharmaceuticals

Being Overweight **Decreases Rates** Of Success in IVF

NEW ORLEANS — Overweight is a significant risk factor for poor in vitro fertilization success rates, particularly in African American women, according to the results of a new study.

"It is highly recommended that patients be encouraged to lose weight," advised Dr. Mohamed Mitwally, who presented the findings at the annual meeting of the American Society for Reproductive Medicine.

There is conflicting evidence in the literature regarding the impact of obesity on in vitro fertilization (IVF) success rates, said Dr. Mitwally of Wayne State University, Detroit. But many previous studies have not controlled for confounding risk factors, he said.

His study analyzed 193 consecutive patients undergoing IVF, 161 white and 32 black patients. After controlling for confounding factors, patients with a body mass index (BMI) of 25 kg/m² or less had a clinical pregnancy rate of 51% per cycle, compared with a rate of 35% in patients with higher BMIs. Overweight had a negative impact in both white and black women, but it was more pronounced in the latter group, said Dr. Mitwally. Overweight white women had a pregnancy rate of 38%, compared with a rate of 50% in those who were normal weight, while overweight black women had a pregnancy rate of 19%, compared with 67% in those who were normal weight.

-Kate Johnson