Primary Care Improves in 2010 Resident Match

BY MARY ELLEN SCHNEIDER

ore U.S. medical students are choosing primary care residencies, according to new data from the National Resident Matching Program.

Interest in family medicine saw a spike in this year's resident match, with 9% more U.S. medical school seniors choosing that specialty than last year. Overall, 2,608 family medicine residency posi-

tions were offered this year. Of those, 91.4% were filled, with 44.8% filled by U.S. medical school graduates. The overall fill rate is a record for family medicine and the percentage of U.S. medical graduates matching to the specialty is the highest since 2002, according to the American Academy of Family Physicians.

But the number of U.S. seniors who matched in internal medicine rose only slightly over 2009. This year, 4,999 posi-

tions were offered and 99% were filled, 54.5% by U.S. medical graduates. In 2009, 4,922 slots were offered, 98.6% were filled, and 53.5% went to U.S. graduates.

Officials at the American College of Physicians said the small increase is not enough to make a dent in the shortage of primary care physicians. In a statement, the ACP called for reforms to make primary care more attractive to medical students, including increasing Medicare and Medicaid payments to primary care physicians and increased support for primary care training programs.

For family medicine, the upsurge in this year's resident match could signal a turnaround, said Dr. Lori Heim, president of the AAFP. During the past decade, the number of U.S. medical school graduates choosing family medicine fell by half.

Dr. Heim attributed this year's increase in part to the spotlight on family medicine during the debate on health care reform. "In virtually every discussion about improving quality of care, people pointed to the need to rebalance our system on a foundation of primary care," she said in a statement. "Add in the heightened awareness of the patientcentered medical home, and students began to understand that family physicians will be able to practice the kind of medicine they envisioned when they decided to become a doctor."

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But this is just a first step, she said. In order to close the primary care physician gap, schools need to train twice as many family physicians as they are today.

Pediatrics and obstetrics-gynecology both retained their popularity. More than 70% of pediatrics positions were filled by U.S. graduates. In obstetrics-gynecology, more than 77% of slots were filled by U.S. graduates, up from 74% in 2009.

U.S. medical students maintain a strong interest in specialties with a heavy procedural focus, such as neurological surgery, orthopedic surgery, and otolaryngology.

Overall, this was the largest Match Day in the program's history, with 30,543 applicants, up 655 from last year, according to the National Resident Matching Program. The increase included 432 more U.S. medical school seniors than last year. There were more students with osteopathic degrees in this year's match, and more physicians who had previously graduated from medical school.

- VERBATIM -

'The attention given to autoimmune diseases is not nearly proportional to the magnitude of the problem.'

Dr. Noel R. Rose, on the lack of research and treatments for autoimmune diseases, p. 46.

LIPITOR® (Atorvastatin Calcium) Tablets Brief Summary of Prescribing Information

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CONTRAINDICATIONS: Active liver disease, which may include unexplained persistent elevations in hepatic transaminase levels. Hypersensitivity to any component of this medication. Pregnancy—Women who are pregnant or may become pregnant. LIPITOR may cause fetal harm when administered to a pregnant woman. Serum cholesterol and triglycerides increase during normal pregnancy, and cholesterol or cholesterol derivatives are essential for fetal development. 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. There are no adequate and well-controlled studies of LIPITOR use during pregnancy; however in rare reports, congenital anomalies were observed following intrauterine exposure to statins. In rat and rabbit animal reproduction studies, atorvastatin revealed no evidence of teratogenicity. LIPITOR SHOULD BE ADMINISTERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHLY UNLIKELY TO CONCEIVE AND HAVE BEEN INFORMED OF THE POTENTIAL HAZARDS. If the patient apprised of the potential hazard to the fetus [see Use in Specific Populations in full prescribing information]. Nursing mothers—it is not known whether atorvastatin is excreted into human milk; however a small amount of another drug in this class does pass into breast milk. Because statins have the potential hazard to the fetus [see Use in Specific Populations in full prescribing information].

WARNINGS AND PRECAUTIONS: Skeletal Muscle—Rare cases of rhabdomyolysis with acute renal failure

serious adverse reactions in nursing infants, women who require LIPITOR treatment should not breastfeed their infants (see *Use in Specific Populations* in full prescribing information).

WARNINGS AND PRECAUTIONS: Skeletal Muscle—Rare cases of rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with LIPITOR and with other drugs in this class. A history of renal impairment may be a risk factor for the development of rhabdomyolysis. Such patients merit closer monitoring for skeletal muscle effects. Atorvastatin, like other statins, occasionally causes myopathy, defined as muscle aches or muscle weakness in conjunction with increases in creatine phosphokinase (CPK) values >10 times UI.N. The concomitant use of higher doses of atorvastatin with certain drugs such acyclosporine and strong CYPSA4 inhibitors (e.g., clarithromycin, itraconazole, and HIV protease inhibitors) increases the risk of myopathy/rhabdomyolysis. Myopathy should be considered in any patient with diffuse references or weakness, and/or marked elevation of CPK. Patients should be according to the considered of the continuation of th

Table 1. Drug Interactions Associated with Increased Risk of Myopathy/Rhabdomyolysis

Interacting Agents	Prescribing Recommendations
Cyclosporine	Do not exceed 10 mg atorvastatin daily
Clarithromycin, itraconazole, HIV protease inhibitors (ritonavir plus saquinavir or lopinavir plus ritonavir)	Caution when exceeding doses > 20mg atorvastatin daily. The lowest dose necessary should be used.

LIPITOR therapy should be temporarily withheld or discontinued in any patient with an acute, serious condition suggestive of a myopathy or having a risk factor predisposing to the development of renal failure secondary to rhabdomyolysis (e.g., severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders, and uncontrolled seizures).

condition suggestive of a myopathy or having a risk factor predisposing to the development of renal failure secondary to rhabdomyolysis (e.g., severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders, and uncontrolled seizures).

Liver Dysfunction—Statins, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function. Persistent elevations (5.3 times the upper limit of normal [UKI) occurring on 2 or more occasions) in serum transaminases occurred in 0.7% of patients who received LIPITOR 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 (LFT) 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. Eighteen of 30 patients with persistent LFT elevations continued treatment with a reduced dose of LIPITOR. It is recommended that liver function tests be performed prior to and at 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 LIPITOR. Patients who develop increased with caution in patients who consume substantial quantities of alcohol and/or have a history of liver disease. Active liver disease or unexplained persistent transaminase elevations are contraindications in full prescribing information. Endocrine Function—Statins interfere with cholesterol synthesis and theoretically might blunt adrenal and/or gonadal steroid production. Clinical studies have shown that LIPITOR does not reduce basal plasma corrisol concentration or impair adrenal reserve. The effects of statins of male fertility have not been studied in adequate numbers

prescribing information].

ADVERSE REACTIONS: The following serious adverse reactions are discussed in greater detail in other sections of the label: Rhabdomyolysis and myopathy [see Warnings and Precautions in full prescribing information]. Liver enzyme abnormalities [see Warnings and Precautions in full prescribing information]. Clinical Trial Adverse Experiences—Because clinical trials are conducted under widely varying conditions the adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. In the LIPITOR placebo-controlled clinical trial database of 16,066 patients (3755 LIPITOR vs. 7311 placebo, age range 10–33 years, 93% women, 91% Caucasians, 3% Blacks, 2% Asians, 4% other) with a median treatmen duration of 53 weeks, 9.7% of patients on LIPITOR and 9.5% of the patients on placebo discontinued due to adverse reactions regardless of causality. The five most common adverse reactions in patients treated with LIPITOR that led to treatment discontinuation and occurred at a rate greater than placebo were: myalgia (0.7%), diarrhea (0.5%), nausea (0.4%), alanine aminotransferase increase (0.4%), and hepatic enzyme increase (0.4%). The most commonly reported adverse reactions (incridence 2.2% and greater than placebo pregardless of causality, in patients treated with LIPITOR in placebo controlled trials (1.6.75%), navier that placebo services are a read greater than placebo controlled trials.

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Table 2. Clinical adverse reactions occurring in \geq 2% of patients treated with any dose of LIPITOR and at an incidence greater than placebo regardless of causality (% of patients). Adverse Reaction 8.3 12.9 5.3 7.0 4.2 8.2 Arthralgia 6.9 8.9 11.7 10.6 4.3 6.5 Urinary tract infection 6.9 3.3 4.3 5.9 7.1 3.8 3.5 Musculoskeletal 5.1 2.3 3.6 Muscle Spasms 4.6 4.8 5.1 2.4 3.0 2.7 3.1 Myalgia 2.8 2.9 Pharyngolaryngeal 2.3 pain

*Adverse Reaction $\geq 2\%$ in any dose greater than placebo

Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT)—In ASCOT [see Clinical Studies in full prescribing information] involving 10,305 participants (age range 40–80 years, 19% women; 94.6% Caucasians, 2.6% Africans, 1.5% South Asians, 1.3% mixed/other) treated with LIPITOR 10 mg daily (n=5,168) or placebo (n=5,137), the safety and tolerability 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.

Collaborative Abrovastain Dinbetes Study (CARDS)—In CARDS [see Clinical Studies in full prescribing information] involving 2838 subjects (age range 39–77 years, 32% women; 94.3% Caucasians, 2.4% South Asians, 2.3% Afro-Caribbean, 1.0% other) with type 2 diabetes treated with LIPITOR 10 mg daily (n=1,428) or placebo (n=1,410), there was no difference in the overall frequency of adverse reactions or serious adverse reactions between the treatment groups during a median follow-up of 3.9 years. No cases of rhabdomyolysis were reported.

Incremental Decrease in Endpoints through Aggressive Lipid Lowering Study (IDEAL)—In IDEAL (see Clinical Studies in full prescribing information) involving 8888 subjects (age range 26-80 years, 19% women; 99.3% Caucasians, 0.4% Asians, 0.3% Blacks, 0.0% other) treated with LIPITOR 80 mg/day (n-4439) or simwastatin 20-40 mg daily (n-4449), there was no difference in the overall frequency of adverse reactions or serious adverse reactions between the treatment groups during a median follow-up of 4.8 years.

Stroke Prevention by Aggressive Reduction in Cholesterol Levels (SPARCL)—In SPARCL involving a 731 subjects (age range 21–92 years, 40% women; 93.3% Caucasians, 3.0% Blacks, 0.6% Asians, 3.1% other) without clinically evident CHD but with a stroke or transient ischemic attack (TIA) within the previous 6 months treated with LIPITOR 80 mg (in-2365) or placebo (in-2366) for a median follow-up of 4.9 years, ther was a higher incidence of persistent hepatic transaminase elevations (a.5 x ULI) without within 4–10 days) the atorvastatin group (0.1%) compared to placebo (0.1%). Elevations of CK (>10 x ULI) were rare, but whigher in the atorvastatin group (0.1%) compared to placebo (0.0%). Diabetes was reported as an advers reaction in 144 subjects (6.1%) in the atorvastatin group and 89 subjects (3.8%) in the placebo group [see Warnings and Precautions in full prescribing information].

In a post-hoc analysis, LPITOR 80 mg reduced the incidence of ischemic stroke (218/2365, 9.2% vs. 274/2366, 11.6%) and increased the incidence of hemorrhagic stroke (55/2365, 2.3% vs. 33/2366, 1.4%) compared to placebo. The incidence of fatal hemorrhagic stroke was similar between groups (17 LIPITOR vs. 18 placebo. The incidence of non-fatal hemorrhagic stroke was significantly greater in the atorvastatin group (38 non-fatal hemorrhagic strokes) as compared to the placebo group (16 non-fatal hemorrhagic strokes). Subjects who entered the study with a hemorrhagic stroke appeared to be at increased risk for hemorrhagic stroke [7 (16%) LIPITOR vs. 2 (4%) placebo].

There were no significant differences between the treatment groups for all-cause mortality, 216 (9.1%) in the LIPITOR 80 mg/day group vs. 211 (8.9%) in the placebo group. The proportions of subjects who experienced cardiovascular death were numerically smaller in the LIPITOR 80 mg group (3.3%) than in the placebo group (4.1%). The proportions of subjects who experienced noncardiovascular death were numerically larger in the LIPITOR 80 mg group (5.0%) than in the placebo group (4.0%).

Postmarketing Experience—The following adverse reactions have been identified during postapproval use of LIPITOR. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Adverse reactions associated with LIPITOR therapy reported since market introduction, that are not listed above, regardless of causality assessment, include the following: anaphylaxis, angioneurotic edema, bullous rashes (including erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis), rhabdomyolysis, fatique, tendon rupture, hepatic failure, dizziness, memory impairment, depression, and peripheral neuropathy.

OVERDOSAGE: There is no specific treatment for LIPITOR overdosage. In the event of an overdose, the patient should be treated symptomatically, and supportive measures instituted as required. Due to extensive drug binding to plasma proteins, hemodialysis is not expected to significantly enhance LIPITOR clearance.

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Please see full prescribing information for additional information about LIPITOR.

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