Survey: Use of Temporary Physicians on the Rise

BY NASEEM S. MILLER

emand for temporary physicians, known as "locum tenens" positions, is rising, according to a survey of temporary physicians and the hospitals and health groups that employ them.

The findings suggest that there has been a shift in the reasons for hiring staff on a temporary basis.

"Historically, locum tenens doctors have been used to hold a place for ill, vacationing, or otherwise absent doctors pending their return. Today, national doctor shortages have prompted hospitals, medical groups, and others to use temporary doctors to maintain services in lieu of permanent doctors, who may be difficult to find," according to the survey, which was conducted by Staff Care Inc., a company that matches temporary health care providers with medical institutions.

The number of facilities using locum tenens physicians rose from 72% in 2009 to 85% in 2010. Meanwhile, a slightly higher percentage of locum tenens physicians (33%) reported having less than 1 year of experience in 2010, compared with those in 2009 (30%), suggesting that locum tenens is attracting new physicians, according to the survey.

Demand was higher for physicians in certain specialties, especially in behavioral health, which topped the list for the type of temporary physicians requested most by health care groups, at 22%.

Primary care physicians were the next most requested (20%), and temporary physicians were used to fill internal medicine slots in 12% of the cases.

The company surveyed 626 locum tenens physicians and 105 groups that

KOMBIGLYZE XR (saxagliptin and metformin HCl extended-release) tablets **R**ONLY Brief Summary of Prescribing Information. For complete prescribing information consult official package insert.

Lactic acidosis is a rare, but serious, complication that can occur due to metformin accumulatior The risk increases with conditions such as sepsis, dehydration, excess alcohol intake, hepati impairment, renal impairment, and acute congestive heart failure.

The onset of lactic acidosis is often subtle, accompanied only by nonspecific symptoms such a malaise, myalgias, respiratory distress, increasing somnolence, and nonspecific abdominal distress Laboratory abnormalities include low pH, increased anion gap, and elevated blood lactate. If acidosis is suspected, KOMBIGLYZE XR (saxagliptin and metformin HCI extended-release) shoul be discontinued and the patient hospitalized immediately. [See Warnings and Precautions.]

INDICATIONS AND USAGE

KOMBIGUYZ RR is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus when treatment with both saxagliptin and metformin is appropriate. [See *Clinical Studies* (14) in Full Prescribing Information.]

Important Limitations of Use

KOMBIGLYZE XR should not be used for the treatment of type 1 diabetes mellitus or diabetic ketoacidosis. KOMBIGLYZE XR has not been studied in combination with insulin.

CONTRAINDICATIONS

 Renal impairment (e.g., serum creatinine levels ≥1.5 mg/dL for men, ≥1.4 mg/dL for women, or abnormal creatinine clearance) which may also result from conditions such as cardiovascular collapse (shock), acute myocardial inflarction, and septicemia. Hypersensitivity to metformin hydrochloride.

Acute or chronic metabolic acidosis, including diabetic ketoacidosis. Diabetic ketoacidosis should be treated with insulin

Weated with insumit. KOMBIGLYZ XR should be temporarily discontinued in patients undergoing radiologic studies involving intravascular administration of iodinated contrast materials because use of such products may result in acute alteration of renal function [see Warnings and Precautions]. WARNINGS AND PRECAUTIONS

Lactic Acidosis

Lactic Acidosis is a rare, but serious, metabolic complication that can occur due to metformin accumulation during treatment with KOMBIGLYZE XR; when it occurs, it is fatal in approximately 50% of cases. Lactic acidosis may also occur in association with a number of pathophysiologic conditions, including diabetes mellitus, and whenever there is significant tissue hypoperfusion and hypoxemia. Lactic acidosis is characterized by elevated blood lactate levels (>5 mmol/L), decreased blood pH, electrolyted disturbances with an increased anion gap, and an increased lactate/pyruvate ratio. When metformin is implicated as the cause of lactic acidosis, metformin plasma levels >5 µg/mL are generally found.

with an increased anion gap, and an increased lactate/pyruvate ratio. When metformin is implicated as the cause of lactic acidosis. metformin plasma levels >5 gu/mL are generally found. The reported incidence of lactic acidosis in patients receiving metformin hydrochloride is very low (approximately 0.03 cases/1000 patient-years, with approximately 0.015 fatal cases/1000 patient-years). In more than 20,000 patient-years exposure to metformin in clinical trials, there were no reports of lactic acidosis. Reported cases have occurred primarily in diabetic patients with significant renal insufficiency, including both intrinsic renal disease and renal hypoperfusion, often in the setting of multiple concomitant medical/surgical problems and multiple concomitant medications. Patients with congestive heart failure requiring pharmacologic management, in particular those with unstable or acute congestive heart failure he significantly decreased by regular monitoring of renal function in patients taking metformin and by use of the minimum effective dose of metformin. In particular, treatment of the elderly should be accompanied by careful monitoring of renal function. In patients thating metformin and by use of age unless measurement of creatiline clearance demonstrates that renal function is not reduced, as these patients are more susceptible to developing lactic acidosis. In addition, metformin, should be promptly withheld in the presence of any condition associated with hypoxemia, dehydration, or sepsis. Because impaired hepatic function may significantly limit the ability to clear lactate. Patients should be catoline avoided in patients with clinical or laboratory evidence of hepatic disease. Patients helferts of metformin hydrochloride on lactate metabolism. In addition, metformin should be temporarily discontinued prior to any unitarvascular radiocontrast study and for any surgical procedure [see Warnings and Precautions].

intravascular radiocontrast study and for any surgical procedure [see Warnings and Precautions]. The onset of lactic acidosis often is subtle and accompanied only by nonspecific symptoms such as malaise, myalgias, respiratory distress, increasing somnolence, and nonspecific abdominal distress. There may be associated hypothermia, hypotension, and resistant bradyarthythmias with more marked acidosis. The patient and the patient's physician must be aware of the possible importance of such symptoms and the patient should be instructed to notify the physician immediately if they occur [see Warnings and Precautions]. Metformin should be wintdrawn until the situation is claffied. Serum electrolytes, ketones, blood glucose, and if indicated, blood pH, lactate levels, and even blood metformin levels may be useful. Once a patient is stabilized on any dose level of metformin, gastrointestinal symptoms, which are common during initiation of therapy, are unlikely to be drug related. Later occurrence of gastrointestinal symptoms could be due to lactic acidosis or other serious disease.

Levels of fasting venous plasma lactate above the upper limit of normal, but less than 5 mmol/L, in patients

actions or other serious disease. Levels of fasting venous plasma lactate above the upper limit of normal, but less than 5 mmol/L, in patients taking metformin do not necessarily indicate impending lactic acidosis and may be explainable by other mechanisms, such as poorly controlled diabetes or obesity, vigorous physical activity, or technical problems in sample handling. [See *Warnings and Precautions*.] Lactic acidosis should be suspected in any diabetic patient with metabolic acidosis lacking evidence of ketoacidosis (ketonuria and ketonemia). Lactic acidosis is a medical emergency that must be treated in a hospital setting. In a patient with lactic acidosis who is taking metformin, the drug should be discontinued immediately and general supportive measures promptly instituted. Because metformin hydrochordie is dialyzable (with a clearance of up to 170 mL/min under good hemodynamic conditions), prompt hemodialysis is recommended to correct the acidosis and renove the accumulated metformin. Such management often results in prompt reversal of symptoms and recovery [see *Contraindications* and *Warnings and Precautions*]. **Assessment of Renal Function** Metformin is substantially excreted by the kidney, and the risk of metformin accumulation and lactic acidosis increases with the degree of impairment of renal function. Therefore, KOMBIGLYZE XR is contraindicated in patients with renal impairment [see *Contraindications*]. Before initiation of KOMBIGLYZE XR, and at least annually thereafter, renal function should be assessed and verified as normal. In patients in whom development of renal impairment is anticipated (e.g., elderly), renal function should be assessed more frequently and KOMBIGLYZE XR discontinued if evidence of renal impairment is present.

impairm nt is present Impaired Hepatic Function

Metformin use in patients with impaired hepatic function has been associated with some cases of lactic acidosis. Therefore, KOMBIGLYZE XR is not recommended in patients with hepatic impairment.

 $\label{eq:hyperbolic} when participation with negative impairment.$ In controlled clinical trials of metformin of 29-week duration, a decrease to subnormal levels of previously normal serum vitamin B_{12} levels, without clinical manifestations, was observed in approximately 7% of patients. Such decrease, possibly due to interference with B_{22} absorption from the B_{12}-intrinsic factor complex, is, however, very rarely associated with anemia and appears to be rapidly reversible with discontinuation of metformin or vitamin B_{12} supplementation. Measurement of hematologic parameters on an annual basis is advised in patients on KOMBIGLYZE XR and any apparent abnormalities should be appropriately investigated and managed [see Adverse Reactions].

Certain individuals (those with inadequate vitamin B_{12} or calcium intake or absorption) appear to be predisposed to developing subnormal vitamin B_{12} levels. In these patients, routine serum vitamin B_{12} measurements at 2- to 3-year intervals may be useful. Alcohol Intake

Alcohol Intake Alcohol potentiates the effect of metformin on lactate metabolism. Patients should be warned against excessive alcohol intake while receiving KOMBIGLYZE XR (saxagliptin and metformin HCl extended-release).

Excessive alcohol intake while receiving KUMBIGLYLE XH (saxagliptin and metformin HCI extended-release). Surgical Procedures Use of KOMBIGLY2E XR should be temporarily suspended for any surgical procedure (except minor procedures not associated with restricted intake of food and fluids) and should not be restarted until the patient's oral intake has resumed and renal function has been evaluated as normal. Change in Clinical Status of Patients with Previously Controlled Type 2 Diabetes A patient with type 2 diabetes previously well controlled on KOMBIGLYZE KN who develops laboratory abnormalities or clinical illness (especially vague and poorly defined illness) should be evaluated promptly for evidence of ketoacidosis or lactic acidosis. Evaluation should include serum electrolytes and ketones, blood glucose and, if indicated, blood pH, lactate, pyruvate, and metformin levels. If acidosis of either form occurs, KOMBIGLYZE XR must be stopped immediately and other appropriate corrective measures initiated. Use with Medications Known to Cause Hypoglycemia Saxagliptin

Saxagliptin Insulin secretagogues, such as sulfonylureas, cause hypoglycemia. Therefore, when used in combination with saxagliptin, a lower dose of the insulin secretagogue may be required to reduce the risk of hypoglycemia. [See Adverse Reactions.] Metformin hydrochloride

Metformin hydrochloride Hypoglycemia does not occur in patients receiving metformin alone under usual circumstances of use, but could occur when caloric intake is deficient, when strenuous exercise is not compensated by caloric supplementation, or during concomitant use with other glucose-lowering agents (such as sulfonylureas and insulin) or ethanol. Elderly, debilitated, or malnourished patients and those with adrenal or pituitary insufficiency or alcohol intoxication are particularly susceptible to hypoglycemic effects. Hypoglycemia may be difficult to recognize in the elderly and in people who are taking beta-adrenergic blocking drugs.

be difficult to recognize in the elderly and in people who are taking beta-adrenergic blocking drugs. Concomitant Medications Affecting Renal Function or Metformin Disposition Concomitant medication(s) that may affect renal function or result in significant hemodynamic change or may interfere with the disposition of metformin, such as cationic drugs that are eliminated by renal tubular secretion [see Drug Interactions], should be used with caution. Radiologic Studies with Intravascular Iodinated Contrast Materials Intravascular contrast studies with iodinated materials can lead to acute alteration of renal function and have been associated with lactic acidosis in patients receiving metformin [see Contraindications]. Therefore, in patients in whom any such study is planned, KOMBIGLYZE XR should be temporarily discontinued at the time of or prior to the procedure, and withheld for 48 hours subsequent to the procedure and reinstituted only after renal function has been re-evaluated and found to be normal.

Hypoxic States Cardiovascular collapse (shock), acute congestive heart failure, acute myocardial infarction, and other conditions characterized by hypoxemia have been associated with lactic acidosis and may also cause prerenal acotemia. When such events occur in patients on KOMBIGLYZE XR therapy, the drug should be Macrovascular Outcomes

There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with KOMBIGLYZE XR or any other antidiabetic drug. ADVERSE REACTIONS

Clinical Trials Experience 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.

Monotherapy and Add-On Combination Therapy Metformin hydrochloride

Metrorinin Injurce.invoice In placebo-controlled monotherapy trials of metformin extended-release, diarrhea and nausea/vomiting were reported in >5% of metformin-treated patients and more commonly than in placebo-treated patients (9.6% versus 2.6% for diarrhea and 6.5% versus 1.5% for nausea/vomiting). Diarrhea led to discontinuation of study medication in 0.6% of the patients treated with metformin extended-release.

Saxagliptin In two placebo-controlled monotherapy trials of 24-week duration, patients were treated with saxagliptin 2.5 mg daily, saxagliptin 5 mg daily, and placebo. Three 24-week, placebo-controlled, add-on combination therapy trials were also conducted: one with metformin immediate-release, one with a thizablidinedione (pioglitazone or rosiglitazone), and one with glyburide. In these three trials, patients were randomized to add-on therapy with saxagliptin 2.5 mg daily, saxagliptin 5 mg daily, or placebo. A saxagliptin 10 mg treatment arm was included in one of the monotherapy trials and in the add-on combination trial with metformin immediate.release Saxagliptin

arm was included in one of the monotherapy trials and in the adu-on company trained in the adu-on company trials and the two incompany trials, the add-on to metformin immediate-release trial, the add-on to thiazolidinedione (TZD) trial, and the add-on to glyburide trial, the overall incidence of adverse events in patients treated with saxagliptin 2.5 mg and saxagliptin 5 mg was similar to placebo (72.0% and 72.2% versus 70.6%, respectively). Discontinuation of therapy due to adverse events loccurred in 2.2%, 3.3%, and 1.8% of patients receiving saxagliptin 5 mg, saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 2.5 mg or at least 2 patients treated with saxagliptin 5 mg, and 9.5% or patients treated with saxagliptin 5 mg, and 0.5% versus 0.4%, and 0.5% versus 0.4%, and 0.5% versus 0.4%, and 0.2% versus 0.4% and 0.5% versus 0.4%, and 0.5% versus 0.4% and 0.5% or patients treated with saxagliptin 5 mg, and more commonly than in patients treated with placebo are shown in Table 1.

Adverse Reactions (Regardless of Investigator Assessment of Causality) in Placebo-Controlled Trials* Reported in \geq 5% of Patients Treated with Saxagliptin 5 mg and More Commonly than in Patients Treated with Placebo

	Number (%) of Patients	
	Saxagliptin 5 mg N=882	Placebo N=799
Upper respiratory tract infection	68 (7.7)	61 (7.6)
Urinary tract infection	60 (6.8)	49 (6.1)
Headache	57 (6.5)	47 (5.9)

*The 5 placebo-controlled trials include two monotherapy trials and one add-on combination therapy trial with each of the following: metformin, thiazolidinedione, or glyburide. Table shows 24-week data regardless of glycemic rescue.

regardless of glycemic rescue. In patients treated with saxagliptin 2.5 mg, headache (6.5%) was the only adverse reaction reported at a rate \geq 5% and more commonly than in patients treated with placebo. In this pooled analysis, adverse reactions that were reported in \geq 2% of patients treated with saxagliptin 2.5 mg or saxagliptin 5 mg and \geq 1% more frequently compared to placebo included: sinustits (2.9% and 2.6% versus 1.6%, respectively), abdominal pain (2.4% and 1.7% versus 0.5%), gastroenteritis (1.9% and 2.3% versus 0.9%), and vomiting (2.2% and 2.3% versus 1.3%). The incidence rate of fractures was 1.0 and 0.6 per 100 patient-years, respectively, for saxagliptin (pooled analysis of 2.5 mg, 5 mg, and 10 mg) and placebo. The incidence rate of fracture events in patients who received saxagliptin did not increase over time. Causality has not been established and nonclinical studies have not demonstrated adverse effects of saxagliptin on bone. An event of thrombocytopenia, consistent with a diagnosis of idiopathic thrombocytopenic purpura, was observed in the clinical program. The relationship of this event to saxagliptin is not known.

48

WARNING: LACTIC ACIDOSIS

use temporary physicians, via e-mail, from August to November of 2010.

Staff Care estimates that 30,000-40,000 physicians worked on a locum tenens basis in 2010

"This number could grow significantly in the next several years as health reform and other challenges push physicians to seek alternative practice styles," according to the survey.

Dr. Robert T. London, who has been practicing psychiatry for 35 years, said that he regularly receives calls from staffing agencies for locum tenens opportunities.

"It pays very [well]. They provide you with room and board and sometimes a car. ... Some people seem to like it," he said in an interview.

Dr. London, who practices in New York City and is not a locum tenens physician, said that being a temporary physician is sometimes a good opportunity for older physicians who no longer want to work full time.

Among surveyed locum tenens physicians, the top reasons for working on a temporary basis were the ability to have freedom and flexibility and not to have to deal with medical politics.

Being away from home and the uncertainty of the assignments were the top two drawbacks.

Groups that hired temporary physicians listed continuity of care and prevention of revenue loss as the top two benefits of bringing in locum tenens providers.

Cost and lack of familiarity with the department or practice were the top two drawbacks.

Among the other survey findings were the following:

▶ In all, 41% of facilities were seeking locum tenens physicians in 2010, up

Adverse Reactions Associated with Saxagliptin Coadministered with Metformin Immediate-Release in Treatment-Naive Patients with Type 2 Diabetes Table 2 shows the adverse reactions reported (regardless of investigator assessment of causality) in ≥5% of patients participating in an additional 24-week, active-controlled trial of coadministered saxagliptin and metformin in treatment-naive patients.

Table 2:	Coadministration of Saxagliptin and Metformin Immediate-Release in Treatment-
	Naive Patients: Adverse Reactions Reported (Regardless of Investigator Assessment
	of Causality) in ≥5% of Patients Treated with Combination Therapy of Saxagliptin 5 mg
	Plus Metformin Immediate-Release (and More Commonly than in Patients Treated with
	Metformin Immediate-Release Alone)

	Number (%) of Patients		
	Saxagliptin 5 mg + Metformin* N=320	Placebo + Metformin* N=328	
Headache	24 (7.5)	17 (5.2)	
Nasopharyngitis	22 (6.9)	13 (4.0)	

* Metformin immediate-release was initiated at a starting dose of 500 mg daily and titrated up to a maximum of 2000 mg daily.

In patients treated with the combination of saxagliptin and metformin immediate-release, either as saxagliptin In patients treated with the combination of saxagiliptin and metformin immediate-release, either as saxagiliptin add-on to metformin immediate-release therapy or as coadministration in treatment-naive patients, diarrhea was the only gastrointestinal-related event that occurred with an incidence >5% in any treatment group in both studies. In the saxagiliptin add-on to metformin immediate-telease trial, the incidence of diarrhea was 9.9%, 5.8%, and 11.2% in the saxagiliptin 2.5 mg, 5 mg, and placebo groups, respectively. When saxagiliptin and metformin immediate-release were coadministered in treatment-naive patients, the incidence of diarrhea was 6.9% in the saxagiliptin 5 mg + metformin immediate-release group and 7.3% in the placebo + metformin immediate-release group.

Hypersensitivity Reactions

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Infections

Saxadilptin Saxadilptin In the unblinded, controlled, clinical trial database for saxagliptin to date, there have been 6 (0.12%) reports of tuberculosis among the 4959 saxagliptin-treated patients (1.1 per 1000 patient-years) compared to no reports of tuberculosis among the 2868 comparator-treated patients. Two of these six cases were confirmed with laboratory testing. The remaining cases had limited information or had presumptive diagnoses of tuberculosis. laboratory testing. The remaining cases had limited information or had presumptive diagnoses of tuberculosis. None of the six cases occurred in the United States or in Western Europe. One case occurred in Canada in a patient originally from Indonesia who had recently visited Indonesia. The duration of treatment with asxaliptin until report of tuberculosis ranged from 144 to 929 days. Post-treatment bymphocyte counts were consistently within the reference range for four cases. One patient had lymphopenia prior to initiation of saxagliptin that remained stable throughout saxagliptin treatment. The final patient had an isolated lymphocyte count below normal approximately four months prior to the report of tuberculosis. There have been no spontaneous reports of tuberculosis associated with saxagliptin use. Causality has not been established and there are too few cases to date to determine whether tuberculosis is related to saxagliptin use. There has been one case of a potential opportunistic infection in the unblinded, controlled clinical trial database to date in a saxagliptin therapy. There have been no spontaneous reports of opportunistic infections associated with saxagliptin use. **Vital Signs**

Vital Signs

Saxagliptin No clinically meaningful changes in vital signs have been observed in patients treated with saxagliptin alone or in combination with metformin.

Laboratory Tests

Absolute Lymphocyte Counts

Absolute Lymphocyte Counts Saxagliptin There was a dose-related mean decrease in absolute lymphocyte count observed with saxagliptin. From a baseline mean absolute lymphocyte count of approximately 2200 cells/microL, mean decreases of approximately 100 and 120 cells/microL with saxagliptin 5 mg and 10 mg, respectively, relative to placebo were observed at 24 weeks in a pooled analysis of five placebo-controlled clinical studies. Similar effects were observed when saxagliptin 5 mg and metformin were coadministered in treatment-naive patients compared to placebo and metformin. There was no difference observed for saxagliptin 2.5 mg relative to placebo. The proportion of patients who were reported to have a lymphocyte count <750 cells/microL was 0.5%, 1.5%, 1.4%, and 0.4% in the saxagliptin 2.5 mg, 5 mg, 10 mg, and placebo groups, respectively. In most patients, recurrence was not observed with repeated exposure to saxagliptin although some patients had recurrent decreases upon rechallenge that led to discontinuation of saxagliptin. The decreases in lymphocyte count were not associated with clinically relevant adverse reactions. The clinical significance of this decrease in lymphocyte count relative to placebo is not known. When clinically indicated, such as in settings of unusual or prolonged infection, lymphocyte count should be measured. The efficience of saxagliptin on lymphocyte counts in patients with lymphocyte abnormalities (e.g., human immunodeficiency virus) is unknown.

Saxagliptin

залациунии Saxagliptin did not demonstrate a clinically meaningful or consistent effect on platelet count in the six, double-blind, controlled clinical safety and efficacy trials.

Vitamin, controlled childcal safety and efficacy thals. Vitamin B₁₂ Concentrations Metformin hydrochloride Metformin may lower serum vitamin B₁₂ concentrations. Measurement of hematologic parameters on an annual basis is advised in patients on KOMBIGLYZE XR (saxagliptin and metformin HCI extended-release) and any apparent abnormalities should be appropriately investigated and managed. [See Warnings and Precautions.]

DRUG INTERACTIONS

Strong Inhibitors of CYP3A4/5 Enzymes Saxagliptin

Saxagliptin Ketoconazole significantly increased saxagliptin exposure. Similar significant increases in plasma concentrations of saxagliptin are anticipated with other strong CYP3A4/5 inhibitors (e.g., atazanavir, clarithromycin, indinavir, itraconazole, nefazodone, nelfinavir, ritonavir, saquinavir, and telihtromycin). The dose of saxagliptin should be limited to 2.5 mg when coadministered with a strong CYP3A4/5 inhibitor. [See Dosage and Administration (2.2) and Clinical Pharmacology (12.3) in Full Prescribing Information.]

Cationic Drugs Metformin hydrochloride Cationic drugs (e.g., amiloride, digoxin, morphine, procainamide, quinidine, quinine, ranitidine, triamterene, trimethoprim, or vancomycin) that are eliminated by renal tubular secretion theoretically have the potential for interaction with metformin by competing for common renal tubular transport systems. Such interaction between metformin and oral cimetidine has been observed in healthy volunteers. Although such interactions remain theoretical (except for cimetidine), careful patient monitoring and dose adjustment of KOMBIGLYZE XR (saxagliptin and metformin HCI extended-release) and/or the interfering drug is recommended in patients who are taking cationic medications that are excreted via the proximal renal tubular secretory system.

Use with Other Drugs Metformin hydrochlorida Some medications can

Some medications can predispose to hyperglycemia and may lead to loss of glycemic control. These medications include the thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, meucauous include the thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, estrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blockers, and isoniazid. When such drugs are administered to a patient receiving KOMBIGLYZE XR, the patient should be closely observed for loss of glycemic control. When such drugs are withdrawn from a patient receiving KOMBIGLYZE XR, the patient should be observed closely for hypoglycemia. USE IN SPECIFIC POPULATIONS

Pregnancy

Pregnancy Category B Pregnancy Category B There are no adequate and well-controlled studies in pregnant women with KOMBIGLYZE XR or its individual components. Because animal reproduction studies are not always predictive of human response, KOMBIGLYZE XR, like other antidiabetic medications, should be used during pregnancy only if clearly needed. Coadministration of saxagliptin and metformin, to pregnant rats and rabbits during the period of organogenesis, was neither embryolethal nor teratogenic in either species when tested at doses yielding systemic exposures (AUC) up to 100 and 10 times the maximum recommended human doses (MRHD); saxagliptin 5 mg and metformin 2000 mg), respectively, in rats; and 249 and 1.1 times the MBHDs in rabbits. In rats, minor developmental toxicity was limited to an increased incidence of wavy ribs; associated maternal toxicity was limited to weight decrements of 11% to 17% over the course of the study, and related reductions (12 of 30), resulting in death, moribundity, or abortion. However, among surviving mothers with evaluable litters, maternal toxicity was limited to marginal reductions in body weight vert the course of gestation days 21 to 29; and associated developmental toxicity in these litters was limited to fetal body weight decrements of 7%, and a low incidence of delayed ossification of the fetal hyoid. Saxagliptin Pregnancy Category B There are no adequate

Saxagliptin Saxagliptin was not teratogenic at any dose tested when administered to pregnant rats and rabbits during periods of organogenesis. Incomplete ossification of the pelvis, a form of developmental delay, occurred in rats at a dose of 240 mg/kg, or approximately 1503 and 66 times human exposure to saxagliptin and the active metabolite, respectively, at the MRHD of 5 mg. Maternal toxicity and reduced fetal body weights were observed at 7966 and 328 times the human exposure at the MRHD for saxagliptin and the active metabolite, respectively. Minor skeletal variations in rabbits occurred at a maternally toxic dose of 200 mg/kg,

metabolite, respectively. Minor skeletal variations in rabots occurred at a maternally toxic dose of 200 mg/kg, or approximately 1432 and 992 times the MRHD. Saxagliptin administered to female rats from gestation day 6 to lactation day 20 resulted in decreased body weights in male and female offspring only at maternally toxic doses (exposures \geq 1629 and 53 times saxagliptin and its active metabolite at the MRHD). No functional or behavioral toxicity was observed in offspring of rats administered saxagliptin at any dose. Saxagliptin crosses the placenta into the fetus following dosing in pregnant rats.

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Partial placental parties to ineutoninit. Nursing Mothers No studies in lactating animals have been conducted with the combined components of KOMBIGLYZE XR. In studies performed with the individual components, both saxagliptin and metformin are secreted in the milk of lactating rats. It is not known whether saxagliptin or metformin are secreted in human milk. Because many drugs are secreted in human milk, caution should be exercised when KOMBIGLYZE XR is administered to a nursing woman.

Pediatric Use Safety and effectiveness of KOMBIGLYZE XR in pediatric patients have not been established.

Geriatric Use KOMBIGLYZE XR Elderly patients are more likely to have decreased renal function. Because metformin is contraindicated in patients with renal impairment, carefully monitor renal function in the elderly and use KOMBIGLYZE XR with caution as age increases. [See Warnings and Precautions and Clinical Pharmacology (12.3) in Full Prescribing

Saxagliptin In the six, double-blind, controlled clinical safety and efficacy trials of saxagliptin, 634 (15.3%) of the 4148 randomized patients were 65 years and over, and 59 (1.4%) patients were 75 years and over. No overall differences in safety or effectiveness were observed between patients =65 years old and the younger patients. While this clinical experience has not identified differences in responses between the elderly and younger patients, greater sensitivity of some older individuals cannot be ruled out.

patients, greater sensitivity of some older individuals cannot be ruled out. Metformin hydrochloride Controlled clinical studies of metformin did not include sufficient numbers of elderly patients to determine whether they respond differently from younger patients, although other reported clinical experience has not identified differences in responses between the elderly and young patients. Metformin is known to be substantially excreted by the kidney. Because the risk of lactic acidosis with metformin is greater in patients with impaired renal function, KOMBIGLYZE XR should only be used in patients with advanced age due to the potential for decreased renal function in this population. Any dose adjustment should be based on a careful assessment of renal function. [See Contraindications, Warnings and Precautions, and Clinical Pharmacology (12.3) in Full Prescribing Information.] **DVERDOSAGE** OVERDOSAGE

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Saxagnptin In a controlled clinical trial, once-daily, orally-administered saxagliptin in healthy subjects at doses up to 400 mg daily for 2 weeks (80 times the MRHD) had no dose-related clinical adverse reactions and no clinically meaningful effect on QTc interval or heart rate. In the event of an overdose, appropriate supportive treatment should be initiated as dictated by the patient's clinical status. Saxagliptin and its active metabolite are removed by hemodialysis (23% of dose over 4 hours).

clinical status. Saxagliptin and its active metabolite are removed by hemodialysis (23% of dose over 4 hours). Metformin hydrochloride Overdose of metformin hydrochloride has occurred, including ingestion of amounts greater than 50 grams. Hypoglycemia was reported in approximately 10% of cases, but no causal association with metformin hydrochloride has been established. Lactic acidosis has been reported in approximately 32% of metformin overdose cases [see Warnings and Precautions]. Metformin is dialyzable with a clearance of up to 170 mL/min under good hemodynamic conditions. Therefore, hemodialysis may be useful for removal of accumulated drug from patients in whom metformin overdosage is suspected.

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from 40% in 2009. The slight uptick may suggest "that the downturn in physician utilization caused by the recession may be reversing," according to the survey.

► Locum tenens physicians are mostly accepted by patients, colleagues, and administrators.

▶ Of groups that hired locum tenens physicians, 84% said that bringing them to their facility was "worth the cost," compared with 79% in 2009.

▶ Some 55% of health care groups reported using one to three locum tenens physicians in a typical month; 37% reported using none, 7% reported using four to six, and 1% reported using seven or more.

▶ Of the physicians who were surveyed, 80% said that they find working

The number of locum tenens physicians 'could grow significantly in the next several years as health reform and other challenges push physicians to seek alternative practice styles.'

on a locum tenens basis to be as satisfying as or more satisfying than conventional practice.

▶ Overall, 60% of the physicians said they plan to practice on a locum tenens basis for more than 3 years.

▶ The largest percentage of locum tenens physicians (28%) reported primary care as their specialty.

▶ In all, 68% of the physicians reported having 21 or more years of experience; 16% had 11-20 years; 7% had 6-10 years; 7% had 1-5 years, and 2% had less than 1 year.

► Some 63% of the physicians surveyed reported taking on one to three locum tenens assignments per year, 19% reported taking on four to six assignments annually, and 18% took on seven or more.



PRACTICE TRENDS 49