# SCHIP Bills Ready for House/Senate Conference

BY MARY ELLEN SCHNEIDER

New York Bureau

s Congress returns from its August recess, the fate of reauthorization of the State Children's Health Insurance Program as well as physician pay relief are both up in the air.

In a month's short time, a House/Senate conference committee must reconcile the vastly different bills passed by each house, and craft the legislation into something that might escape a threatened presidential veto.

Before breaking for its August recess, the Senate overwhelmingly passed S. 1893, which includes a \$35 billion increase for SCHIP The funds would come from an increase in the federal tobacco tax.

However, the approved House legislation (H.R. 3162) contains a number of provisions unrelated to SCHIP. For example, the bill would halt next year's planned 10% cut in the Medicare physician fee schedule, instead putting in a place a 0.5%

increase for 2008 and another for 2009.

In terms of SCHIP funding, the House bill calls for a \$50 billion increase in funding and would pay for it with an increase in the federal tobacco tax and cuts to subsidies given to Medicare Advantage plans.

Officials at the American Academy of Family Physicians favor a final bill that includes SCHIP funding that would cover as many children as possible, 2 years of positive updates to the Medicare physician fee schedule, and a commitment to fixing the sustainable growth rate formula, said Dr. Rick Kellerman, AAFP president.

Two years of positive updates are important, Dr. Kellerman said, because legislators are tired of physicians coming every year to Capitol Hill to talk about this issue.

We think we've got a lot of other important health care issues to deal with." Dr. Kellerman said, adding that a 2-year fix will give Congress time to evaluate the sustainable growth rate (SGR) issue and formulate an alternative. "It's a transitional bill. This gets us through the next 2 years."

The American College of Physicians praised both bills but said they would like to see final legislation that includes some of the Medicare provisions passed by the House, including the temporary pay fix for physicians.

The House bill also outlines a new physician payment structure under Medicare that would set a separate conversion factor for six service categories: evaluation and management for primary care, evaluation and management for other services, imaging, major procedures, anesthesia services, and minor procedures.

The proposed formula would also take prescription drugs out of the spending targets and would take into account Medicare coverage decisions when setting targets, according to Rich Trachtman, American College of Physicians legislative affairs director. But it would still lead to deep payment cuts starting in 2010, so there is an understanding among legislators and leaders in medicine that the updates for 2010 and beyond would require additional action, he said.

The American Academy of Pediatrics praised the passage of the two pieces of legislation as well as the provisions in both that would ease citizenship and identification documentation requirements.

However, although the America's Health Insurance Plans (AHIP) hailed the passage of the Senate legislation, it is opposed to provisions in the House bill that would make cuts to the Medicare Advantage program. The cuts could result in more than 3 million seniors losing Medicare Advantage coverage and having to switch to fee-for-service Medicare, where they would likely pay higher out-ofpocket costs, according to the AHIP.

The House bill shreds the safety net for millions of seniors who depend on Medicare Advantage," Karen Ignagni, the president and CEO of AHIP, said in a statement.

The House bill also includes some protections for Medicare beneficiaries. For example, it would codify protection for six drug classes under Medicare Part D. Starting in 2009, Medicare drug plans would be required to include all or substantially all Part D drugs in each of the following classes: anticonvulsants, antineoplastics, antiretrovirals, antidepressants, antipsychotics, and immunosuppressants.

The bill would also waive cost sharing for Medicare beneficiaries for certain preventive services including diabetes outpatient self-management training services, cardiovascular screening blood tests, diabetes screening tests, screening mammography, screening Pap smear and pelvic exam, and bone mass measurement.

Clinical Trials Experience. The overall incidence of side effects reported in patients receiving sitagliptin and metformin was similar to that reported with patients receiving placebo and metformin.

In a 24-week placebo-controlled trial of sitagliptin 100 mg administered once daily added to a twice-daily metformin regimen, there were no adverse reactions reported regardless of investigator assessment of causality in  $\geq 5\%$  of patients and more commonly than in patients given placebo. Discontinuation of therapy due to clinical adverse reactions was similar to the placebo treatment group (sitagliptin and metformin, 1.9%; placebo and metformin, 2.5%).

The overall incidence of adverse reactions of hypoglycemia in patients treated with sitagliptin and metformin was similar to patients treated with placebo and metformin (100 mg sitagliptin and metformin, 1.3%; placebo and metformin, 2.1%). Adverse reactions of hypoglycemia were based on all reports of hypoglycemia; a concurrent glucose measurement was not required. The incidence of selected gastrointestinal adverse reactions in patients treated with sitagliptin and metformin was also similar to placebo and metformin: nausea (sitagliptin and metformin, 1.3%; placebo and metformin, 0.8%), vomiting (1.1%, 0.8%), abdominal pain (2.2%, 3.8%), and diarrhea (2.4%, 2.5%).

No clinically meaningful changes in vital signs or in ECG (including in QTc interval) were observed with the combination of sitagliptin and metformin.

The most common adverse experience in sitagliptin monotherapy reported regardless of investigator assessment of causality in \$5% of patients and more commonly than in patients given placebo was nasopharyngitis.

The most common (>5%) established adverse reactions due to initiation of metformin therapy are diarrhea, nausea/vomiting, flatulence, abdominal discomfort, indigestion, asthenia, and headache.

## Laboratory Tests.

Stragliptin. The incidence of laboratory adverse reactions was similar in patients treated with sitagliptin and metformin (7.6%) compared to patients treated with placebo and with staggingth and inection in (7.5%). Only parent to patients treated with placeboard metformin (8.7%). In most but not all studies, a small increase in white blood cell count (approximately 200 cells/microL difference in WBC vs placebo; mean baseline WBC approximately 6600 cells/microL) was observed due to a small increase in neutrophils. This change in laboratory parameters is not considered to be clinically relevant.

Metformin hydrochloride. In controlled clinical trials of metformin of 29 weeks 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  $B_{12}$  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 [see Warnings and Pre-autions] and Precautions 1.

**Postmarketing Experience.** The following additional adverse reactions have been identified during postapproval use of sitagliptin, one of the components of JANUMET. Because these reactions are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Hypersensitivity reactions, including anaphylaxis, angioedema, rash, and urticaria

Cationic Drugs. 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 normal healthy volunteers in both single- and multiple-dose metformin-cimetidine drug interaction studies, with a 60% increase in peak metformin plasma and whole blood concentrations and a 40% increase in plasma and whole blood metformin AUC. There was no change in elimination half-life in the single-dose study. Metformin had no effect on cimetidine pharmacokinetics. Although such interactions remain theoretical (except for cimetidine), careful patient monitoring and dose adjustme of JANUMET and/or the interfering drug is recommended in patients who are taking cationic medications that are excreted via the proximal renal tubular secretory system

Digoxin. There was a slight increase in the area under the curve (AUC, 11%) and mean peak drug concentration (C<sub>max</sub>, 18%) of digoxin with the coadministration of 100 mg sitagliptin for 10 days. These increases are not considered likely to be clinically meaningful. Digoxin, as a cationic drug, has the potential to compete with metformin for common renal tubular transport systems, thus affecting the serum concentrations of either digoxin, metformin or both. Patients receiving digoxin should be monitored appropriately. No dosage adjustment of digoxin or JANUMET is recommended.

**Glyburide**. In a single-dose interaction study in type 2 diabetes patients, coadministration of metformin and glyburide did not result in any changes in either metformin pharmacokinetics or pharmacodynamics. Decreases in glyburide AUC and C<sub>max</sub> were observed, but were highly variable. The single-dose nature of this study and the lack of correlation between glyburide blood levels and pharmacodynamic effects make the clinical significance of this interaction uncertain.

Furosemide. A single-dose, metformin-furosemide drug interaction study in healthy subjects demonstrated that pharmacokinetic parameters of both compounds were affected by coadministration. Furosemide increased the metformin plasma and blood C<sub>max</sub> by 22% and blood AUC by 15%, without any significant change in metformin renal clearance. When administered with metformin, the C<sub>max</sub> and AUC of furosemide were 31% and 12% smaller, respectively, than when administered alone, and the terminal half-life was decreased by 32%, without any significant change in furosemide renal clearance. No information is available about the interaction of metformin and furosemide when coadministered obscribed. when coadministered chronically.

Nifedipine. A single-dose, metformin-nifedipine drug interaction study in normal healthy

volunteers demonstrated that coadministration of nifedipine increased plasma metformin  $C_{\text{max}}$  and AUC by 20% and 9%, respectively, and increased the amount excreted in the urine.  $T_{\text{max}}$  and half-life were unaffected. Nifedipine appears to enhance the absorption of metformin. Metformin had minimal effects on nifedipine.

The Use of Metformin with Other Drugs. Certain drugs tend to produce hyperglycemia and may lead to loss of glycemic control. These drugs include the thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, estrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blocking drugs, and isoniazid. When such drugs are administered to a patient receiving JANUMET the patient should be closely observed to maintain adequate glycemic control.

In healthy volunteers, the pharmacokinetics of metformin and propranolol, and metformin and ibuprofen were not affected when coadministered in single-dose interaction studies

Metformin is negligibly bound to plasma proteins and is, therefore, less likely to interact with highly protein-bound drugs such as salicylates, sulfonamides, chloramphenicol, and probenecid, as compared to the sulfonylureas, which are extensively bound to serum

### USE IN SPECIFIC POPULATIONS

## Pregnancy

Pregnancy Pregnancy Category B.

JANUMET. There are no adequate and well-controlled studies in pregnant women with JANUMET or its individual components; therefore, the safety of JANUMET in pregnant women is not known. JANUMET should be used during pregnancy only if clearly needed.

Merck & Co., Inc. maintains a registry to monitor the pregnancy outcomes of women exposed to JANUMET while pregnant. Health care providers are encouraged to report any prenatal exposure to JANUMET by calling the Pregnancy Registry at (800) 986-8999.

No animal studies have been conducted with the combined products in JANUMET to evaluate effects on reproduction. The following data are based on findings in studies performed with sitagliptin or metformin individually.

Sitagliptin, Reproduction studies have been performed in rats and rabbits. Doses of sitagliptin up to 125 mg/kg (approximately 12 times the human exposure at the maximum recommended human dose) did not impair fertility or harm the fetus. There are, however, no adequate and well-controlled studies with sitagliptin in pregnant women.

Sitagliptin administered to pregnant female rats and rabbits from gestation day 6 to 20 organogenesis) was not teratogenic at oral doses up to 250 mg/kg (rats) and 125 mg/kg (rabbits), or approximately 30 and 20 times human exposure at the maximum recommended human dose (MRHD) of 100 mg/day based on AUC comparisons. Higher doses increased the incidence of rib malformations in offspring at 1000 mg/kg, or approximately 100 times human exposure at the MRHD.

Sitagliptin administered to female rats from gestation day 6 to lactation day 21 decreased body weight in male and female offspring at 1000 mg/kg. No functional or behavioral toxicity was observed in offspring of rats.

Placental transfer of sitagliptin administered to pregnant rats was approximately 45% at 2 hours and 80% at 24 hours postdose. Placental transfer of sitagliptin administered to pregnant rabbits was approximately 66% at 2 hours and 30% at 24 hours.

Metformin hydrochloride. Metformin was not teratogenic in rats and rabbits at doses up to 600 mg/kg/day. This represents an exposure of about 2 and 6 times the maximum recommended human daily dose of 2000 mg based on body surface area comparisons for rats and rabbits, respectively. Determination of fetal concentrations demonstrated a partial placental barrier to metformin.

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

Pediatric Use. Safety and effectiveness of JANUMET in pediatric patients under 18 years

**Geriatric Use.** JANUMET. Because sitagliptin and metformin are substantially excreted by the kidney and because aging can be associated with reduced renal function, JANUMET should be used with caution as age increases. Care should be taken in dose selection and should be based on careful and regular monitoring of renal function [see Warnings and Precautions].

Sitagliptin. Of the total number of subjects (N=3884) in Phase II and III clinical studies of No overall differences in safety or effectiveness were observed between subjects 65 years and over and younger subjects. While this and other reported clinical experience have not identified in some content of the co identified differences in responses between the elderly and younger 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 should only be used in patients with normal renal function. The initial and maintenance dosing of metformin should be conservative 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].



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