Senate Panel Is Skeptical About SCHIP Expansion

Adverse Event

oper Respiratory Tract Infection

BY ALICIA AULT Associate Editor, Practice Trends

WASHINGTON — As a Senate panel opened debate on reauthorization of the State Children's Health Insurance Program, legislators had doubts about expanding coverage to an estimated 9 million children who are eligible but who have not yet been enrolled.

SCHIP is due to expire on Sept. 30, but most states have been straining in the last few years to pay for children already covered by the program, several witnesses said at a meeting of the Senate Finance Committee.

Members of the committee also acknowledged that reality.

"Congress has simply not given [SCHIP] enough funds to meet the current demand for services," said committee chair Max Baucus (D-Mont.), who estimated that the program would need \$12 billion-\$15 billion over the next 5 years to maintain current coverage and \$45 billion to bring all eligible children into SCHIP.

A last-minute deal signed into law at the end of 2006 allocated \$271 million to cover anticipated shortfalls for a dozen or so states, but at least 14 more states will run out of SCHIP funds for fiscal 2007 if Congress does not enact another bailout by mid-May, said Sen. Baucus.

In 2007, states will spend an estimated \$6.3 billion on SCHIP, but only \$5 billion has been allotted, said Cindy Mann, ex-

Pioglitazone 30 mg + metformin

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Postmarketing reports of new onset or worsening diabetic macular edema with decreased visual acuity have also been received (see **PRECAUTIONS, General** *Pioglitazone hydrochloride*).

Pioglitazone 45 mg + metformin

n (% 6 (13

20 (4.1

22 (5.3) 22 (5.3) 21 (5.0) 20 (4.8) 47 (11.3)

ment of the health care professional (see **PRECAUTIONS, General:** *Pioglitazone hydrochloride* and **ADVERSE REACTIONS**, Serum Transaminase Levels). Initial and periodic monitoring of hematologic parameters (e.g., hemoglo-bin/hematocrit and red blood cell indices) and renal function (serum creatinne)

Initial and periodic monitoring of hematologic parameters (e.g., hemoglo-bin/hematocrit and red blood cell indices) and renal function (serum creatinne) should be performed, at least on an annual basis. While megaloblastic anemia has rarely been seen with metformin therapy, if this is suspected, vitamin B₁₂ deficiency should be excluded. **Information for Patients** Patients should be instructed regarding the importance of adhering to dietary instructions, a regular evercise program, and regular testing of blood glucose and A1C. During periods of stress such as fever, trauma, infection, or surgery, medication requirements may change and patients should be reminded to seek medical advice promptly. The risks of lactic acidosis, its symptoms and conditions that predispose to its development, as noted in the WARNINGS, *Metformin hydrochioride* and PRE-CAUTIONS, General: *Metformin hydrochioride* sections, should be explained to patients, Patients should be advised to discontinue ACTOPLUS MET immediately and to promptly notify their health care professional if unexplained hyperventilation, myalgia, malaise, unusual sommence or other nonspecific symptoms occur daturing initiation of ACTOPLUS MET immediately and to gromptly notify their health care professional funexplained hyperventilation, myalgia, malaise, unusual sommence or other nonspecific symptoms. Although gastrointestinal symptoms that occur after stabilization are unlikely to be drug related, such an occurrance of symptoms should be evaluated to be drug related, such an occur after stabilization are unlikely to be drug related, such an occur after stabilization are unlikely to be drug related, such an occur after stabilization are unlikely to be drug related, such an occur after stabilization are unlikely to be drug related, such an occur after stabilization are unlikely to chermine while receiving ACTOPL US MET.

determine if it may be due to lactic acidosis or other serious disease. Patients should be counseled against excessive alcohol intake, either acute or chronic, while receiving ACTOPLUS MET. Patients who experience an unusually rapid increase in weight or edema or who develop shortness of breath or other symptoms of heart failure while on ACTOPLUS MET should immediately report these symptoms to their physician. Patients should be told that blood tests for liver function will be performed prior to the start of therapy and periodically thereafter per the clinical judgment of the health care professional. Patients should be told to seek immediate medical advice for unexplained nausea, vomiting, abdominal pain, fatigue, anorexia, or dark urine. Patients should be informed about the importance of regular testing of renal function and hematologic parameters when receiving treatment with ACTOPLUS MET.

ACTOPLUS MET. Therapy with a TZD, which is the active pioglitazone component of the ACTOPLUS MET. Tablet, may result in ovulation in some premenopausal anovulatory women. As a result, these patients may be at an increased risk for pregnancy while taking ACTOPLUS MET. Thus, adequate contraception in pre-menopausal women should be recommended. This possible effect has not been investigated in clinical studies so the frequency of this occurrence is not known. Combination antihyperglucemic therapy may cause hypoglycemia. When initi-ating ACTOPLUS MET, the risks of hypoglycemia, its symptoms and treatment, and conditions that predispose to its development should be explained to patients. Patients should be tooli to take ACTOPLUS MET as prescribed and instructed that any change in dosing should only be done if directed by their physician. Prun Intercentione

Drug Interactions

azone hydrochloride Pioglitazone hydrochloride In vivo drug-drug interaction studies have suggested that pioglitazone may be a weak inducer of CYP450 isoform 3A4 substrate. An enzyme inhibitor of CYP2C8 (such as gemfibrozi) may significantly increase the AUC of pioglitazone and an enzyme inducer of CYP2C8 (such as rifampin) may significantly decrease the AUC of pioglitazone. Therefore, if an inhibitor or inducer of CYP2C8 is started or stopped during treatment with pioglitazone, changes in diabetes treatment may be needed based on clinical response.

diabetes treatment may be needed based on clinical response. Metformin hydrochloride <u>Furosemide</u>: A single-dose, metformin-furosemide drug interaction study in healthy subjects demonstrated that pharmacokinetic parameters of both compounds were affected by co-administration. Furosemide increased the metformin plasma and blood C_{max} by 22% and blood AUC by 15%, without any significant change in metformin renal clearance. When administered with metformin the C_{max} and AUC of furosemide were 31% and 12% smaller, respectively, than when administered alone and the terminal haff-life was decreased the 32% without any significant change in furosemide renal

Introdumini, the C_{max} and AGC to individent where 31% and 12% Similar 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 co-administered chronically. <u>Nifedipine</u>: A single-dose, metformin-nifedipine drug interaction study in normal healthy volunteers demonstrated that co-administration of nifedipine increased plasma metformin C_{max} and AUC by 20% and 9%, respectively, and increased the amount excreted in the urine. T_{max} and half-life were unaffected. Nifedipine appears to enhance the absorption of metformin. Metformin had minimal effects on nifedipine. Cationic drugs (e.g., amiloride, digoxin, morphine, procainamide, quinidine, quinine, ranitidine, triamterene, trimethoprim, and vancomycin) that are eliminated by renal tubular secretion theoretically wave the potential for interaction with metformin by competing for common renal tubular transport systems. Such interaction between metformi and oral cimetidine, triamterene, does, metformin-cimetidine drug interaction studies with a 60% 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 adjustment of ACTOPLUS MET and/or the interfering drug is recommended in patients who are taking cationic medications that are excreted via the proximal renal tubular secretory system.

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Carcinogenesis, Mutagenesis, Impairment of Fertility ACTOPLUS MET No animal studies have been conducted with ACTOPLUS MET. The following data are based on findings in studies performed with pioglitazone or met-formin individually. *Pioglitazone hydrochloride* A two-yeer carcinogenicity study was conducted in male and female rats at oral doses \leq 63 mg/kg (~14x the maximum recommended human oral dose of 45 mg based on mg/m²). Drug-induced tumors were not observed in any organ except for the urinary bladder. Bengin and/or malignant transitional cell neoplasms were observed in male rats at \geq 4 mg/kg/day (~ the maximum rec-

ADVERSE REACTIONS The most common adverse events reported in ≥5% of patients in the con-trolled 16-week clinical trial between placebo plus metformin and pioglitazone 30 mg plus metformin were upper respiratory tract infection (15.6% and 15.5%), diarrhea (6.3% and 4.8%), combined edema/peripheral edema (2.5% and 6.0%) and headcahe (1.9% and 6.0%), respectively. The incidence and type of adverse events reported in ≥5% of patients in any combined treatment group from the 24-week study comparing pioglitazone 30 mg plus metformin and pioglitazone 45 mg plus metformin are shown in Table 2; the rate of adverse events resulting in study discontinuation between the two treatment groups was 7.8% and 7.7%, respectively. Table 2. Adverse Events That Occurred in ≥5% of Patients in Any Treatment Group During the 24-Week Study

² ommended human oral dose based on mg/m²). A two-year carcinogenicity study was conducted in male and female mice at oral doses ≤100 mg/kg/day (-11x the maximum recommended human oral dose based on mg/m²). No drug-induced tumors were observed in any organ. During prospective evaluation of urinary cytology involving >1800 patients receiving pioglitazone in clinical trials ≤ one year in duration, no new cases of bladder tumors were identified. In two 3-year studies in which pioglitazone was compared to placebo or glyburide, there were 16/3656 (0.44%) (Poorts of bladder cancer in patients taking pioglitazone compared to 5/3679 (0.14%) in patients not taking pioglitazone. After excluding patients in whom exposure to study drug was < one year at the time of diagnosis of bladder cancer, there were six (0.16%) cases on pioglitazone and two (0.05%) on placebo. Pioglitazone HCI was not mutagenic in a battery of genetic toxicology studies, including the Ames bacterial assay, a mammalian cell forward gene mutation assay (CHO/HPRT and ASS2/XPRT), an *in vitro* cytogenetics assay using CHL cells, an unscheduled DNA synthesis assay, and an *in viro* micronucleus assay. No adverse effects upon fertility were observed in male and female rats at oral doses s40 mg/kg joiglitazone HCI daily norior to and throughout mating and gestation (-9x the maximum recommended human oral dose based on mg/m²). Metformin hydrochoride

tation (-9x the maximum recommended human oral dose based on mg/m²). Metformin hydrochloride Long-term carcinogenicity studies have been performed in rats (dosing duration of 104 weeks) and mice (dosing duration of 91 weeks) at doses ≤900 mg/kg/day and 1500 mg/kg/day, respectively. These doses are both ~4x a human daily dose of 2000 mg of the metformin component of ACTOPLUS MET based on body surface area comparisons. No evidence of carcinogenicity with met-formin was found in either male or female mice. Similarly, there was no tumorigenic potential observed with metformin in male rats. There was, how-ever, an increased incidence of benign stromal uterine polyps in female rats treated with 900 mg/kg/day. There was no evidence of mutagenic potential of metformin in the following *in vitro* tests: Arnes test (*S. typhimurium*), gene mutation test (mouse lym-phoma cells), or chromosomal aberrations test (human lymphocytes). Results in the *in vivo* mouse micronucleus test were also negative. Fertility of male or female rats was unaffected by metformin when administered at doses as high as 600 mg/kg/day. Which is ~3x the maxi-mum recommended human daily dose of the metformin component of ACTOPLUS MET based on body surface area comparisons. Animal Toxicoloox
 Weight intereased
 12
 (2.9)
 28
 (6.7)

 Most clinical adverse events were similar between groups treated with pioglitazone in combination with metformin and those treated with pioglitazone devices events reported in 5% of patients in controlled clinical trials between placebo and pioglitazone monotherapy included myalgia (2.7% and 5.4%), tooth disorder (2.3% and 5.3%), diabetes mellitus aggravated (8.1% and 5.1%) and pharyngitis (0.8% and 5.1%), respectively.
 In U.S. double-blind studies, anemia was reported in 2.2% of patients treated with pioglitazone plus metformin (see **PRECAUTIONS, General:** *Pioglitazone hydrochloride*).

 hydrochloride, in monotherapy studies, edema was reported for 4.8% (with bloces from 7.5 mg to 45 mg) of patients treated with pioglitazone st.2% of placebo-treated patients. Most of these events were considered mild or moderate in intensity (see **PRECAUTIONS, General:** *Pioglitazone hydrochloride*).

 Postmarkeling reports of new onset or worsening diabetic macular edema with

ACI OPLUS MET based on body surface area comparisons. **Animal Toxicology Pioglitazone hydrochioride** Heart enlargement has been observed in mice (100 mg/kg), rats (\geq 4 mg/kg) and dogs (3 mg/kg) treated orally with the pioglitazone HCI component of ACTOPLUS MET (-11, 1, and 2x the maximum recommended human oral dose for mice, rats, and dogs, respectively, based on mg/m²). In a one-year rat study, drug-related early death due to apparent heart dysfunction occurred at an oral dose of 160 mg/kg/day (-35x the maximum recommended human oral dose based on mg/m²). Heart enlargement was seen in a 13-week study in monkeys at oral doses based on mg/m²), but not in a 52-week study at oral doses based on mg/m²).

Pregnancy: Pregnancy Category C ACTOPLUS MET

ACTOPLUS MET Because current information strongly suggests that abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital anomalies, as well as increased neonatal morbidity and mortality, most experts recommend that insulin be used during pregnancy to maintain blood glucose levels as close to normal as possible. ACTOPLUS MET should not be used during the static blood glucose the exterior blood glucose to be the static blood glucose.

Postmarketing reports of new onset or worsening diabetic macular edema with decreased visual acuity have also been received (see PRECAUTIONS, General: *Pioglitazone hydrochloride*).
Laboratory Ahoromalities
Laboratory Ahoromalities
Heimatologic: Pioglitazone may cause decreases in hemoglobin and hematocrit. The fall in hemoglobin and hematocrit with pioglitazone appears to be dose related. Across all chincal studies, mean hemoglobin values declined by 2%-4% in patients treated with pioglitazone. These changes generally occurred within the first 4-12 weeks of therapy and remained relatively stable thereafter. These changes may be related to increased plasma volume associated with pioglitazone therapy and have rarely been associated with any significant hematologic clinical effects (see PRECAUTIONS, General: *Pioglitazone* typerachioride). In controlled clinical trials of metformin at 29 weeks' duration, a decrease to subnormal levels of previously normal serum vitamin Bt₁₂ elseviels, without clinical manifestations, was observed in ~7% of patients. Such decrease, possibly due to interference with Bt₁₂ absorption from the Bt₂-intrinsic factor complex, is, however, very rarely associated with pioglitazone type and the serversible with discontinuation of metformin or vitamin Bt₁₂ supplementation (see PRECAUTIONS, General: Metformin hydrochloride). Serum Transaminase Levels: During all clinical studies in the US, 14/4780 (.30%) patients treated with pioglitazone, mean values for bilirubin, AST, ALT, alkine phosphatase, and GGT were decreased at the final visit compared with baseline. Fewer than 0.9% of patients treated with pioglitazone hydrochloride). CPK Levels: During required laboratory testing in clinical trials with pioglitazone therapy and hase are of the set of the set patient scontinued to receive pioglitazone were observed. An isolated elevation is not the time phosphokinase levels (CPK) were observed. An isolated elevation is not the time phosphokinase levels (CPK) were observed. An isolated elev

recommend that insulin be used during pregnancy to maintain blood glucose levels as close to normal as possible. ACTOPLUS MET should not be used during pregnancy unless the potential benefit justifies the potential risk to the fetus. There are no adequate and well-controlled studies in pregnant women with ACTOPLUS MET or its individual components. No animal studies have been con-ducted with the combined products in ACTOPLUS MET. The following data are based on findings in studies performed with piglitazone or metformin individually. *Ploglitazone hydrochloride* Ploglitazone hydrochloride Ploglitazone was not teratogenic in rats at oral doses ≤80 mg/kg or in rabbits given ≤160 mg/kg during organogenesis (~17 and 40x the maximum rec-ommended human oral dose based on mg/m², respectively). Delayed par-turition and embryotoxicity (as evidenced by increased postimplantation losses, delayed development and reduced fetal weights) were observed in rats at oral doses of ≥40 mg/kg/dg/ ~10x the maximum recommended human oral dose based on mg/m²). No functional or behavioral toxicity was observed in offspring of rats. In rabbits, embryotoxicity was observed at an oral dose of 160 mg/kg (~40x the maximum recommended human oral dose based on mg/m²). No functional or behavioral toxicity econsended human oral dose based on mg/m². Metformin was observed in offspring or rats at oral doses of ≥10 mg/kg during late gestation and lactation periods (~2x the maximum recommended human oral dose based on mg/m²). Metformin was not perioden in rats at oral dose based on mg/m². Metformin was not periodenein periods (~2x the maximum recommended human oral dose based on mg/m²). Metformin was not periodenein periods (~2x the maximum recommended human oral dose based on mg/m²). Metformin was not periodenein periods (~2x the maximum recommended human or in rats at oral doses based on mg/m²).

recommended numan oral dose based on mg/m²). Metformin hydrochloride Metformin was not teratogenic in rats and rabbits at doses up to 600 mg/kg/day. This represents an exposure of about two and 6x a 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.

placental varies of measurement. **Nursing Mothers** No studies have been conducted with the combined components of ACTOPLUS MET. In studies performed with the individual components, both pioglitazone and metformin are secreted in the milk of lacating rats. It is not known whether pioglitazone and/or metformin is secreted in human milk. Because many drugs are excreted in human milk. ACTOPLUS MET should not be administered to a breastfeeding woman. If ACTOPLUS MET is discontinued, and if diet alone is inadequate for controlling blood glucose, insulin therapy should be considered.

Pediatric Use Safety and effectiveness of ACTOPLUS MET in pediatric patients have not been established.

Elderly Use

Elderly Use Pioglitazone hydrochloride ~500 patients in placebo-controlled clinical trials of pioglitazone were ≥65. No significant differences in effectiveness and safety were observed between these patients and younger patients. Metformin hydrochloride Controlled dinical studies of metformin did not include sufficient numbers of elderly patients to determine whether they respond differently from younger existent of the study of the

Controlled clinical studies of metformin did not include sufficient numbers of elderty patients to determine whether they respond differently from younger patients, although other reported clinical experience has not identified differ-ences in responses between the elderly and young patients. Metformin is known to be substantially excreted by the kidney and because the risk of serious adverse reactions to the drug is greater in patients with impaired renal function, ACTOPLUS MET should only be used in patients with normal renal function (see **CONTRAINDICATIONS**, **WARNINGS**, **Metformin hydrochloride**). Because aging is associated with reduced renal function, ACTOPLUS MET 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. Generally, elderly patients should not be titrated to the maximum dose of ACTOPLUS MET (see **WARNINGS**, **Metformin hydrochloride**).

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OVERDOSAGE

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 OVERDOSAGE

 Pioglitazone hydrochloride

 During controlled clinical trials, one case of overdose with pioglitazone was reported. A male patient took 120 mg per day for four days, then 180 mg per day for seven days. The patient denied any clinical symptoms during this period. In the event of overdosage, appropriate supportive treatment should be initiated according to patient's clinical signs and symptoms. Metformin hydrochloride has occurred, including ingestion of amounts >50 grams. Hypoglycemia was reported in ~10% of cases, but no causal association with metformin hydrochloride). Lactic acidosis has been reported in ~32% of metformin is dialyzable with a clearance of ≤170 mL/min under good hemodynamic conditions. Therefore, hemodialysis may be useful for removal of accumulated metformin from patients in whom metformin overdosage is suspected.

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ecutive director of the Georgetown University Center for Children and Families. Without an influx of federal cash, 37 states will run out of funds this year, she testified.

As of fiscal 2005, SCHIP had 6 million enrollees, according to a Government Accountability Office (GAO) report released at the Finance Committee hearing. Enrollment grew fast during the early years of the program but recently leveled off.

Georgia Gov. Sonny Perdue testified that there has been no slowing of enrollment in his state, with an average 19% per month increase since June 2005. About 273,000 children are covered in Georgia, making it the fourth-largest SCHIP program in the country, he said. The Centers for Medicare and Medicaid Services had projected that only 130,000 children were eligible in Georgia, he said.

But, because of SCHIP rules, states that cover more children end up receiving a

According to a Government **Accountability** Office report, seven states were covering families with incomes at 300% of the poverty level or higher.

smaller allotment for the following year. "The successful implementation of SCHIP in any state automatically undermines maintaining funding to keep these kids enrolled in the program," Gov. Perdue testified, arguing for a change

in the SCHIP funding formula.

Some senators questioned whether states' flexibility should be reined in, saying that some initiatives might be diluting the program's intent-to cover low-income children. Generally, federal law allows states to cover children in families with incomes up to 200% of the poverty level or 50 percentage points above the Medicaid eligibility standard as of 1997. According to the GAO report, seven states were covering families with incomes at 300% of the poverty level or higher. Thirty-nine states require some cost sharing by families, but 11 states charge no premiums or copayments.

Fifteen states cover adults-generally parents of Medicaid- or SCHIP-eligible children, pregnant women, or childless adults. The Health and Human Services department has granted waivers for those states, said Kathryn G. Allen, director of health care at the GAO.

Sen. Charles Grassley (R-Iowa), ranking minority member of the Finance Committee, said he was interested in giving states flexibility but not in extending coverage to adults.

"The issue is whether SCHIP funds used to cover adults has drained resources targeted by Congress for kids," he said.

Ms. Mann counseled senators to keep adult coverage in perspective, noting that only 600,000 of the 6 million SCHIP enrollees are adults. She added that it has been shown that when parents and children have health insurance, the whole family benefits.