# Aetna Defends Its Preferred Rating System

BY ALICIA AULT

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SAN FRANCISCO — Speaking at the insurance industry's annual meeting, an Aetna executive defended the company's performance-based physician networks, saving that they were a way to keep costs down and to let patients know which physicians offered the best and most cost-effective care.

Dr. Gerald Bishop, senior medical director for Aetna's West division, spoke at the AHIP Institute, at a conference sponsored by America's Health Insurance

Preferred provider networks have been the subject of legal challenges around the country, most recently in Massachusetts and Connecticut. Physicians have claimed that the networks use inappropriate methodology to rate their performance.

In 2007, New York Attorney General Andrew Cuomo struck a settlement with several insurers in which they agreed to publicly disclose rating methods and how much of the ratings is based on cost, and to retain an independent monitoring board to report on compliance. Aetna was one of the first insurers to sign on to that settlement, and has continued to comply, said Dr. Bishop.

He noted, for instance, that Aetna reviews and updates its provider list every 2 years and notifies each physician in writing if there has been any change in his or her status. Physicians have the opportuni-

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ty to appeal if there is an error-before any data are made public, he said.

The company also encourages physicians to submit any relevant information from medical records if they have a question about the rating.

Aetna first began developing its Aexcel network in 2002, said Dr. Bishop. The goal was to mitigate rising costs, ensure patient access to specialists, and find a way to recognize the variations in costs and practices in each individual market, he said. The company found that 12 specialties represented 70% of spending on specialists and 50% of the overall spending: cardiology, cardiothoracic surgery, gastroenterology, general surgery, neurology, neurosurgery, obstetrics/gynecology, orthopedics, otolaryngology, plastic surgery, urology, and vascular surgery.

When considering which physicians were eligible for the network, Aetna looks at the number of Aetna cases managed over a 3-year period (there was a 20-case minimum). The company also uses nationally recognized performance measures to gauge clinical performance. Physicians who score statistically significantly below their peers are excluded.

The company also uses the Episode Treatment Group methodology to evaluate 3 years of claims for cost and utilization patterns. A physician is considered efficient if his or her score is greater than the mean for that specialty and that market, said Dr. Bishop.

The Aexcel network now exists in 35 markets, covering 670,000 members. Aetna members in most, though not all, those areas can log onto a secure patient Web site and see costs for various procedures and information on why his or her physician has been designated a preferred provider.

Dr. Bishop said that Aetna has determined that physicians in the Aexcel network typically perform 1%-8% more efficiently than their peers. Each client could save up to 4% of annual claim costs if all its covered workers used the network, he said.

Although some physicians have been unhappy with the designations, "amazingly few physicians balk at this," said Dr. Bishop.

### actos

adequate contraception in premenopausal women should be recommended. This possible effect has not been investigated in clinical studies so the frequency of this occurrence is not known.

In vivo drug-drug interaction studies have suggested that pioglitazone may be a weak inducer of CYP 450 isoform 3A4 substrate.

betes treatment may be needed based on clinical response.

Carcinogenesis, Mutagenesis, Impairment of Fertility
A two-year carcinogenicity study was conducted in male and female rats at oral doses up to 63 mg/kg (approximately 14 times 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. Benign and/or malignant transitional cell neoplasms were observed in male rats at 4 mg/kg/day and above (approximately equal to the maximum recommended human oral dose based on mg/m²). A two-year carcinogenicity study was conducted in male and female mice at oral doses up to 100 mg/kg/day (approximately 11 times 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 more than 1800 patients receiving ACTOS in clinical trials up to one year in duration, no new cases of bladder tumors were identified. In two 3-year studies in which ploglitazone was compared to placebo or glyburide, there were 16/3656 (0.44%) reports 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 less than 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 HCl 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 AS52/XPRT), an in vitro cytogenetics assay using CHL cells, an unscheduled DNA synthesis assay, and an in vivo micronucleus assay.

No adverse effects upon fertility were observed in male and female rats at oral doses up to 40 mg/kg pioglitazone HCl daily prior to and throughout mating and gestation (approximately 9 times the maximum recommended human oral dose based on mg/m²).

Animal Toxicology

human oral dose based on mg/m²).

Animal Toxicology

Heart enlargement has been observed in mice (100 mg/kg), rats (4 mg/kg and above) and dogs (3 mg/kg) treated orally with pilogitazone HCl (approximately 11, 1, and 2 times 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 (approximately 35 times the maximum recommended human oral dose based on mg/m²). Heart enlargement was seen in a 13-week study in monkeys at oral doses of 8.9 mg/kg and above (approximately 4 times the maximum recommended human oral dose based on mg/m²), but not in a 52-week study at oral doses up to 32 mg/kg (approximately 13 times the maximum recommended human oral dose based on mg/m²).

Preunancy

Pregnancy
Pregnancy Category C. Pioglitazone was not teratogenic in rats at oral doses up to 80 mg/kg or in rabbits given up to 160 mg/kg during organogenesis (approximately 17 and 40 times the maximum recommended human oral dose based on mg/m², respectively). Delayed parturition and embryotoxicity (as evidenced by increased postimplantation losses, delayed development and reduced fetal weights) were observed in rats at oral dose of 40 mg/kg/day and above (approximately 10 times 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 (approximately 40 times the maximum recommended human oral dose based on mg/m²). Delayed postnatal development, attributed to decreased body weight, was observed in offspring of rats at oral doses of 10 mg/kg and above during late gestation and lactation periods (approximately 2 times the maximum recommended human oral dose based on mg/m²). There are no adequate and well-controlled studies in pregnant women. ACTOS should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

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.

Nursing Mothers

Pioglitazone is secreted in the milk of lactating rats. It is not known whether ACTOS is secreted in human milk Regause many drugs erecented.

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no is secreted in the milk of lactating rats. It is not known whether ACTOS is secreted in human milk
many drugs are excreted in human milk, ACTOS should not be administered to a breastfeeding woman.

fety and effectiveness of ACTOS in pediatric patients have not been established

ely 500 patients in placebo-controlled clinical trials of ACTOS were 65 and over. No significant

ADVERSE REACTIONS

Over 8500 patients with type 2 diabetes have been treated with ACTOS in randomized, double-blind, controlled clinical trials. This includes 2605 high-risk patients with type 2 diabetes treated with ACTOS from the PROactive clinical trial. Over 6000 patients have been treated for 6 months or longer, and over 4500 patients for one year or longer. Over 3000 patients have received ACTOS for at least 2 years.

The overall incidence and types of adverse events reported in placebo-controlled clinical trials of ACTOS monotherapy at doses of 7.5 mg, 15 mg, 30 mg, or 45 mg once daily are shown in Table 2.

Placebo-Controlled Clinical Studies of ACTOS Monotherapy: Adverse Events Reported at a Frequency  $\geq 5\%$  of Patients Treated with ACTOS

(% of Patients)				
·		Placebo	ACTOS	
		N=259	N=606	
Upper Respiratory Tract Infection		8.5	13.2	
Headache		6.9	9.1	
Sinusitis		4.6	6.3	
Myalgia		2.7	5.4	
Tooth Disorder		2.3	5.3	
Diabetes Mellitus Aggravated		8.1	5.1	
Dhoryngitio		Λ0	5.1	

For most clinical adverse events the incidence was similar for groups treated with ACTOS monotherapy and hose treated in combination with sulfonylureas, metformin, and insulin. There was an increase in the occurrence f edema in the patients treated with ACTOS and insulin compared to insulin alone. In a 16-week, placebo-controlled ACTOS plus insulin trial (n=379), 10 patients treated with ACTOS plus insulin rial (n=379).

o-week, placebor-unioned Action plus insulin that (1=373), 10 patients teated with Actios plus insulin bed dyspine a and also, at some point during their therapy, developed either weight change or edema of these 10 patients received diuretics to treat these symptoms. This was not reported in the insulin plus

Seven of these 10 patients received diuretics to treat these symptoms. This was not reported in the insulin plus placebo group. The incidence of withdrawals from placebo-controlled clinical trials due to an adverse event other than hyperglycemia was similar for patients treated with placebo (2.8%) or ACTOS (3.3%). In controlled combination therapy studies with either a sulfonylurea or insulin, mild to moderate hypoglycemia, which appears to be dose related, was reported (see PRECAUTIONS, General, Hypoglycemia). In U.S. double-blind studies, anemia was reported in ≤ 2% of patients treated with ACTOS plus sulfonylurea, metformin or insulin (see PRECAUTIONS, General, Hematologic). In monotherapy studies, edema was reported for 4.8% (with doses from 7.5 mg to 45 mg) of patients treated with ACTOS corone 1.0% of the patients treated that in the combination therapy studies, edema was reported for

with ACTOS versus 1.2% of placebo-treated patients. In combination therapy studies, eder

7.2% of patients treated with ACTOS and sulfonylureas compared to 2.1% of patients on sulfonylureas alone. In combination therapy studies with metformin, edema was reported in 6.0% of patients on combination therapy compared to 2.5% of patients on metformin alone. In combination therapy studies with insulin, edema was reported in 15.3% of patients on combination therapy compared to 7.0% of patients on insulin alone. Most of these events were considered mild or moderate in intensity (see **PRECAUTIONS**, **General**, <u>Edema</u>). In one 16-week clinical trial of insulin plus ACTOS combination therapy, more patients developed congestive heart failure on combination therapy (1.1%) compared to none on insulin alone (see **WARNINGS**, **Cardiac Failure and Other Cardiac Effects**).

Prospective Pioglitazone Clinical Trial In Macrovascular Events (PROactive)
In PROactive, 5238 patients with type 2 diabetes and a prior history of macrovascular disease were treated with ACTOS (n=2605), force-titrated up to 45 mg daily or placebo (n=2633) in addition to standard of care. Almost all subjects (95%) were receiving cardiovascular medications (beta blockers, ACE inhibitors, ARBs, calcium channel blockers, nitrates, diuretics, aspirin, statins, fibrates). Patients had a mean ago of 61.8 years, mean duration of diabetes 9.5 years, and mean HbA<sub>1c</sub> 8.1%. Average duration of follow-up was 34.5 months. The primary objective of this trial was to examine the effect of ACTOS on mortality and macrovascular morbidity nation patients with type 2 diabetes mellitus who were at high risk for macrovascular events. The primary efficacy variable was the time to the first occurrence of any event in the cardiovascular composite endpoint (see Table 3 below). Although there was no statistically significant difference between ACTOS and placebo for the 3-year incidence of a first event within this composite, there was no increase in mortality or in total macrovascular events with ACTOS.

lable 3						
Number of First and Total Events for Each Component within the Cardiovascular Composite Endpoint						
		Placebo N=2633		ACTOS N=2605		
Cardiovascular Events	First Events (N)	Total Events (N)	First Events (N)	Total Events (N)		
Any event	572	900	514	803		
All-cause mortality	122	186	110	177		
Non-fatal MI	118	157	105	131		
Stroke	96	119	76	92		
ACS	63	78	42	65		
Cardiac intervention	101	240	101	195		
Major leg amputation	15	28	9	28		
Leg revascularization	57	92	71	115		

Postmarketing reports of new onset or worsening diabetic macular edema with decreased visual acuity have lso been received (see PRECAUTIONS, General, Macular Edema). aboratory Abnormalities

also been received (see PRECAUTIONS, General, Macular Edema).

Laboratory Abnormalities

Hematologic: ACTOS may cause decreases in hemoglobin and hematocrit. The fall in hemoglobin and hematocrit with ACTOS appears to be dose related. Across all clinical studies, mean hemoglobin values declined by 2% to 4% in patients treated with ACTOS. These changes generally occurred within the first 4 to 12 weeks of therapy and remained relatively stable thereafter. These changes may be related to increased Jasma volume associated with ACTOS therapy and have rarely been associated with any significant hematologic clinical effects.

Serum Transaminase Levels: During all clinical studies in the U.S., 14 of 4780 (0.30%) patients treated with ACTOS had LT values 2 of times the upper limit of normal during treatment. All patients with follow prove patients are versible elevations in ALT. In the population of patients treated with ACTOS, mean values for bilirubin, AST, ALT, alkaline phosphatase, and GGT were decreased at the final visit compared with baseline. Fewer than 0.9% of patients treated with ACTOS were withdrawn from clinical trials in the U.S. due to abnormal liver function tests.

In pre-approval clinical trials, there were no cases of idiosyncratic drug reactions leading to hepatic failure (see PRECAUTIONS, General, Hepatic Effects).

CPK Levels: During required laboratory testing in clinical trials, sporadic, transient elevations in creatine phosphokinase levels (CPK) were observed. An isolated elevation to greater than 10 times the upper limit of normal was noted in 9 patients (values of 2150 to 11400 IU/L). Six of these patients continued to receive ACTOS, two patients had completed receiving study medication at the time of the elevated value and one patient discontinued study medication due to the elevation. These elevations resolved without any apparent clinical sequelae. The relationship of these events to ACTOS therapy is unknown.

During controlled clinical trials, one case of overdose with ACTOS 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

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