UPCOMING MEETINGS

Infectious Diseases Society for Obstetrics and Gynecology American Society for Colposcopy and Cervical Pathology **Pacific Dermatologic Association**

Alzheimer's Association: Annual Dementia Care Conference **World Congress of Surgery World Congress of Cardiology European Society for Dermatological Research**

We Are There For You

Cigna Tops List of Payers

BY ALICIA AULT

Associate Editor, Practice Trends

n 2006, Cigna Healthcare moved from fifth place to top ranking among national payers, and Aetna moved from fourth place to second, according to the second annual assessment of overall payment performance conducted by one of the nation's largest physician revenue management companies.

Not surprisingly, near the bottom of

the list were state Medicaid programs.

The performance rankings were compiled for the second year in a row by AthenaHealth, a company based in Watertown, Mass., that collects about \$2 billion a year on behalf of medical providers.

AthenaHealth used claims data from 8,000 providers, representing 28 million 'charge lines," or line items. The medical services were billed in 33 states. The ranking included national payers that had at least 120,000 charge lines as well as regional payers with at least 20,000 charge lines.

In 2005, Humana was the top-ranked payer, followed by Medicare. A year later, Medicare held the third position, while Humana dropped to fourth. Rounding out the top eight national payers were UnitedHealth Group, WellPoint, Coventry Health Care, and CHAMPUS/Tricare.

According to AthenaHealth, there were several trends observed from year to year. In 2006, days in accounts receivable (DAR) dropped by 5%, from 36.2 days to 34.4 days. Blue Cross & Blue Shield of Rhode Island had the lowest DAR at 16.8 days. New York's Medicaid plan had the highest,

Payers are also asking patients to pay more up front, which places a greater collections burden on physicians. Last year, there was a 19% increase in the amount of billed charges transferred to patients, according to AthenaHealth.

The overall ranking was based on how often claims were resolved on the first pass, the denial rate, denial transparency, percentage of noncompliance with national coding standards, and percentage of claims requiring medical documentation.

Denial rates ranged from a low of 4% at Cigna's southern plan to a high of 48% at Louisiana's Medicaid program. The Medicaid programs were laggards on all performance measures.

The Illinois Medicaid program paid medical claims on the first attempt only about 30% of the time, and was the second slowest payer overall, with an average 103 days to pay a claim. In Texas, physicians resubmitted denied claims at least twice 47% of the time, according to AthenaHealth.

"We are seeing disturbing administrative process breakdowns with some state Medicaid plans that are resulting in a growing number of physicians no longer accepting new Medicaid patients," said Jonathan Bush, who is chairman and CEO of AthenaHealth.

The company said that some states have experimented with managed care as a solution to Medicaid's administrative difficulties. But in Georgia, that may have backfired.

A year after patients were moved into managed care, the Medical Association of Georgia "has had to troubleshoot more than 500 complaints from physicians, most of which should have been eliminated by the Care Management Organizations shortly after the start-up," said Dr. S. William Clark, III.

The performance rankings are posted at www.athenapayerview.com.

References: 1. Weyer C, Heise T, Heinemann L. Insulin aspart in a 30/70 premixed formulation: pharmacodynamic properties of a rapid-acting insulin analog in stable mixture. Diabetes Care. 1997;20:1612-1614. 2. Raskin P, Allen E, Hollander P, et al, for the INITIATE Study Group. Initiating insulin therapy in type 2 diabetes: a comparison of biphasic and basal insulin analogs. Diabetes Care. 2005;28:260-265. 3. Garber AJ, Wahlen J, Wahl T, et al. Attainment of glycaemic goals in type 2 diabetes with once-, twice-, or thrice-daily dosing with biphasic insulin aspart 70/30 (the 1-2-3 study). Diabetes Obes Metab. 2006;8:58-66. 4. Data on file. Novo Nordisk Inc, Princeton, NJ. 5. IMS Health Inc. Q3 2005 IMS formulary focus data, interstudy lives. Valid as of December 2006.



70% insulin aspart protamine suspension and 30% insulin aspart injection, (rDNA origin)

BRIEF SUMMARY. PLEASE CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION.

NOICATIONS AND USAGE
NovoLog Mix 70/30 is indicated for the treatment of patients with diabetes mellitus for the control of hyperglycemia.

CONTRAINDICATIONS

NovoLog Mix 70/30 is contraindicated during episodes of hypoglycemia and in patients hypersensitive to NovoLog Mix 70/30 or one of its excipients.

WARNINGS

Because NovoLog Mix 70/30 has peak pharmacodynamic activity one hour after injection, it should be administered

NovoLog Mix 70/30 should not be administered intravenously NovoLog Mix 70/30 is not to be used in insulin infusion pumps.

NovoLog Mix 70/30 should not be mixed with any other insulin

Hypoglycemia is the most common adverse effect of insulin therapy, including NovoLog Mix 70/30. As with all insulins, the timing of hypoglycemia may differ among various insulin formulations.

Glucose monitoring is recommended for all patients with diabetes.

Any change of insulin dose should be made cautiously and only under medical supervision. Changes in insulin strength, manufacturer, type (e.g., regular, NPH, analog), species (animal, human), or method of manufacture (rDNA versus animal-source insulin) may result in the need for a change in dosage.

PRECAUTIONS
General
Hypoglycemia and hypokalemia are among the potential clinical adverse effects associated with the use of all insulins. Because of differences in the action of NovoLog Mix 70/30 and other insulins, care should be taken in patients in whom such potential side effects might be clinically relevant (e.g., patients who are fasting, have autonomic neuropathy, or are using potassium-lowering drugs or patients taking drugs sensitive to serum potassium level).

Fixed ratio insulins are typically dosed on a twice daily basis, i.e. Fixed ratio insulins are typically dosed on a twice daily basis, i.e before breakfast and supper, with each dose intended to cover two meals or a meal and snack. The dose of insulin required to provide adequate glycemic control for one of the meals may result in hyper- or hypoglycemia for the other meal. The pharmacodynamic profile may also be inadequate for patients (e.g., pregnant women) who require more frequent meals.

Adjustments in insulin dose or insulin type may be needed during illness, emotional stress, and other physiologic stress in addition to changes in meals and exercise.

The pharmacokinetic and pharmacodynamic profiles of all insulins may be altered by the site used for injection and the degree of vascularization of the site. Smoking, temperature, and exercise contribute to variations in blood flow and insulin absorption. These and other factors contribute to inter- and intra-patient variability.

Lipodystrophy and hypersensitivity are among other potential clinical adverse effects associated with the use of all insulins.

Hypoglycemia - As with all insulin preparations, hypoglycemic reactions may be associated with the administration of NovoLog Mix 70/30. Rapid changes in serum glucose concentrations may induce symptoms of hypoglycemia in persons with diabetes, regardless of the glucose value. Early warning symptoms of hypoglycemia may be different or less pronounced under certain conditions, such as long duration of diabetes, diabetic nerve disease, use of medications such as beta-blockers, or intensified diabetes control.

Renal Impairment - Clinical or pharmacology studies with NovoLog Mix 70/30 in diabetic patients with various degrees of renal impairment have not been conducted. As with other insulins, the requirements for NovoLog Mix 70/30 may be reduced in patients with renal impairment.

Hepatic Impairment - Clinical or pharmacology studies with NovoLog Mix 70/30 in diabetic patients with various degrees of hepatic impairment have not been conducted. As with other insulins, the requirements for NovoLog Mix 70/30 may be reduced in patients with hepatic impairment.

Allergy - Local Reactions - Erythema, swelling, and pruritus at the injection site have been observed with NovoLog Mix 70/30 as with other insulin therapy. Reactions may be related to the insulin molecule, other components in the insulin preparation including protamine and cresol, components in skin cleansing agents, or injection techniques.

Systemic Reactions - Less common, but potentially more serious, is generalized allergy to insulin, which may cause

rash (including pruritus) over the whole body, shortness of breath, wheezing, reduction in blood pressure, rapid pulse, or sweating. Severe cases of generalized allergy, including anaphylactic reaction, may be life threatening. Localized reactions and generalized myalgias have been reported with the use of cresol as an injectable excipient.

the use of cresol as an injectable excipient.

Antibody production - Specific anti-insulin antibodies as well as cross-reacting anti-insulin antibodies were monitored in the 3-month, open-label comparator trial as well as in a long-term extension trial. Changes in cross-reactive antibodies were more common after NovoLog Mix 70/30 than with Novoline 70/30 but these changes did not correlate with change in HbA1c or increase in insulin dose. The clinical significance of these antibodies has not been established. Antibodies did not increase further after long-term exposure (>6 months) to NovoLog Mix 70/30.

Information for patients - Patients should be informed about potential risks and advantages of NovoLog Mix 70/30 therapy including the possible side effects. Patients should also be offered continued education and advice on insulin therapies, injection technique, life-style management, regular glucose monitoring, periodic glycosylated hemoglobin testing, recognition and management of hypo- and hyperglycemia, adherence to meal planning, complications of insulin therapy, timing of dose, instruction for use of injection devices, and proper storage of insulin. Information for patients - Patients should be informed

Female patients should be advised to discuss with the physician if they intend to, or if they become, pregnar because information is not available on the use of NovoLog Mix 70/30 during pregnancy or lactation (see PRECAUTIONS, Pregnancy).

Laboratory Tests - The therapeutic response to NovoLog Mix 70/30 should be assessed by measurement of serum or blooglucose and glycosylated hemoglobin.

Drug Interactions - A number of substances affect glucose metabolism and may require insulin dose adjustment and particularly close monitoring. The following are examples of substances that may increase the blood-glucose-lowering effect and susceptibility to hypoglycemia: oral antidiabetic products, ACE inhibitors, disopyramide, fibrates, fluoxetine, monoamine oxidase (MAO) inhibitors, propoxyphene, salicylates, somatostatin analog (e.g., octreotide), sulfonamide antibiotics.

The following are examples of substances that may reduce the blood-glucose-lowering effect: corticosteroids, niacin, danazol, diuretics, sympathomimetic agents (e.g., epinephrine, salbutamol, terbutaline), isoniazid, phenothiazine derivatives, somatropin, thyroid hormones, estrogens, progestogens (e.g., in oral contraceptives).

Beta-blockers, clonidine, lithium salts, and alcohol may eith potentiate or weaken the blood-glucose-lowering effect of

Pentamidine may cause hypoglycemia, which may sometimes be followed by hyperglycemia.

In addition, under the influence of sympatholytic medical products such as beta-blockers, clonidine, guanethidine, and reserpine, the signs of hypoglycemia may be reduced or absent.

Mixing of Insulins
NovoLog Mix 70/30 should not be mixed with any other
insulin product.

Carcinogenicity, Mutagenicity, Impairment of Fertility Standard 2-year carcinogenicity studies in animals have not been performed to evaluate the carcinogenic potential of NovoLog Mix 70/30. In 52-week studies, Sprague-Dawley rats were dosed subcutaneously with NovoLog®, the rapidacting component of NovoLog Mix 70/30, at 10, 50, and 200 U/kg/day (approximately 2, 8, and 32 times the human subcutaneous dose of 1.0 U/kg/day, based on U/body surface area, respectively). At a dose of 200 U/kg/day, NovoLog increased the incidence of mammary gland tumors in females when compared to untreated controls. The incidence of mammary tumors for NovoLog was not significantly different than for regular human insulin. The relevance of these findings to humans is not known. NovoLog was not genotoxic in the following tests: Ames test, mouse lymphoma cell forward gene mutation test, human peripheral blood lymphocyte chromosome aberration test, in vivo micronucleus test in mice, and in ex vivo UDS test in rat liver hepatocytes. In fertility studies in male and female rats, NovoLog at subcutaneous dose up to 200 U/kg/day (approximately 32 times the human subcutaneous dose, based on U/body surface area) had no direct adverse effects on male and female fertility, or on general reproductive performance of animals.

Pregnancy—Teratogenic Effects— Carcinogenicity, Mutagenicity, Impairment of Fertility

general reproductive performance of animals.

Pregnancy-Teratogenic Effects—
Pregnancy Category C

Animal reproduction studies have not been conducted with NovoLog Mix 70/30. However, reproductive toxicology and teratology studies have been performed with NovoLog (the rapid-acting component of NovoLog Mix 70/30) and regular human insulin in rats and rabbits. In these studies, NovoLog was given to female rats before mating, during mating, and throughout pregnancy, and to rabbits during organogenesis. The effects of NovoLog did not differ from those observed with subcutaneous regular human insulin. NovoLog, like human insulin, caused pre- and post-implantation losses and

visceral/skeletal abnormalities in rats at a dose of 200 U/kg/day (approximately 32-times the human subcutaneous dose of 1.0 U/kg/day, based on U/body surface area), and in rabbits at a dose of 10 U/kg/day (approximately Hrnee times the human subcutaneous dose of 1.0 U/kg/day, based on U/body surface area). The effects are probably secondary to maternal hypoglycemia at high doses. No significant effects were observed in rats at a dose of 50 U/kg/day and rabbits at a dose of 3 U/kg/day. These doses are approximately 8 times the human subcutaneous dose of 1.0 U/kg/day for rats and equal to the human subcutaneous dose of 1.0 U/kg/day for rats and equal to the human subcutaneous dose of 1.0 U/kg/day for rabbits based on U/body surface area.

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It is not known whether NovoLog Mix 70/30 can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. There are no adequate and well-controlled studies of the use of NovoLog Mix 70/30 or NovoLog in pregnant women. NovoLog Mix 70/30 should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers - It is unknown whether NovoLog Mix 70/30 is excreted in human milk as is human insulin. There are no adequate and well-controlled studies of the use of NovoLog Mix 70/30 or NovoLog in lactating women.

Pediatric Use - Safety and effectiveness of NovoLog Mix 70/30 in children have not been established.

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Geriatric Use - Clinical studies of NovoLog Mix 70/30 did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently than younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy in this population.

ADVERSE REACTIONS

Clinical trials comparing NovoLog Mix 70/30 with Novolin 70/30 did not demonstrate a difference in frequency of adverse event between the two treatments.

Adverse events commonly associated with human insulin therapy include the following:

Body as whole: *Allergic reactions* (see PRECAUTIONS, Allergy).

Skin and Appendages: Local injection site reactions or rash or pruritus, as with other insulin therapies, occurred in 7% of all patients on NovoLog Mix 70/30 and 5% on Novolin 70/30. Rash led to withdrawal of therapy in <1% of patients on either drug (see PRECAUTIONS, Allergy).

Hypoglycemia: see WARNINGS and PRECAUTIONS.

Other: Small elevations in alkaline phosphatase were observed in patients treated in NovoLog controlled clinical trials. There have been no clinical consequences of these laboratory

OVERDOSAGE

Hypoglycemia may occur as a result of an excess of insulin relative to food intake, energy expenditure, or both. Mild episodes of hypoglycemia usually can be treated with oral glucose. Adjustments in drug dosage, meal patterns, or exercise, may be needed. More severe episodes with coma, seizure, or neurologic impairment may be treated with intramuscular/subcutaneous glucoagon or concentrated intravenous glucose. Sustained carbohydrate intake and observation may be necessary because hypoglycemia may recur after apparent clinical recovery.

More detailed information is available on request.

Rx only

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