

POLICY & PRACTICE

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Mexican-Americans at Risk

About half of 1,787 Mexican American adults, surveyed because they were obese, reported never receiving advice from a health care provider to eat less fatty food (52% informed) or exercise more (45% informed). "Given the seriousness of obesity-related health risks and the increasing prevalence of overweight status and obesity among Mexican Americans, it is vital that providers are involved in finding ways to effectively educate and/or treat overweight patients," the authors wrote in the American Journal of Health Promotions. The survey showed that men, respondents with little education, those who preferred to speak Spanish at home, and nonmarried respondents were least likely to receive advice on exercise and diet. Respondents with comorbidities were more likely than others to have gotten diet and exercise advice (79% vs. 43%).

New Drug Reviews Expected

The largest pharmaceutical company in Japan, Takeda Pharmaceuticals, has resubmitted applications for two type 2 diabetes drugs to the U.S. Food and Drug Administration. The FDA is expected to review the drugs within the next 6 months, according to the company. The applications are for alogliptin and a combination of alogliptin and pioglitazone. Both therapies are for adults and intended as adjuncts to diet and exercise. Interim results from a study of possible cardiovascular risks from alogliptin, a selective dipeptidyl peptidase IV inhibitor (DPP-4i), should satisfy FDA concerns in that area, said Dr. David Recker, a senior vice president for research and development at Takeda, in a company news release. "If approved, alogliptin/pioglitazone will be the first type 2 diabetes treatment option in the U.S. to include both a DPP-4 inhibitor and a thiazolidinedione in a single tablet," he added. Alogliptin was rejected by the FDA in 2009, which asked for more data on its cardiovascular effects.

Managers Face Challenges

Managers of group practices say that preparing for risk-based reimbursement and implementing electronic health records are their biggest challenges, according to a survey from the Medical Group Management Association. Dealing with rising operating costs and implementing an accountable care organization or a patient-centered medical home are also significant challenges, according to the MGMA survey. Electronic health records and other technologies are increasingly problematic, said MGMA President and CEO William Jessee. "The pressure to adopt technology and the morass our members face in determining the best systems for their practices, and then complying with the various government programs to receive incentives and avoid penalties, are proving to be of particular concern," he said in a statement.

Food Makers Pan Guidelines

Food manufacturers charged that voluntary guidelines proposed by the federal government ignore the industry's progress on responsible marketing of food to children. The proposal from the Federal Trade Commission says that only foods that contribute to a healthful diet should be marketed to children and offers

targets for saturated fat, trans fat, added sugars, and sodium in such food. In a letter to the FTC, the FDA, and other agencies, 150 state, regional, and national food groups and manufacturers argue that there's no evidence the proposed restrictions would contribute to long-term changes in eating behavior or solve childhood obesity. Separately, the National Restaurant Association called for the voluntary standards to be withdrawn because they could become mandatory.

FDA May Change Consumer Ads

The FDA is considering changing how it

regulates direct-to-consumer drug ads to reflect results of agency studies of how patients perceive and recall ad information. The research found that people better understood the "brief summary" section of prescription drug ads that are presented in a format similar to the simpler labels on over-the-counter drugs. Prescription drug ads use densely packed, small-type paragraphs to describe risks. The studies also found that noting a serious risk or providing extra details on side effects didn't hinder consumers' understanding of overall risk information.

-Naseem S. Miller

NovoLog® (insulin aspart [rDNA origin] injection)

BRIEF SUMMARY. Please consult package insert for full prescribing information

INDICATIONS AND USAGE: Treatment of Diabetes Mellitus: NovoLog® is an insulin analog indicated to improve glycemic control in adults and children with diabetes mellitus.

CONTRAINDICATIONS: NovoLog® is contraindicated during episodes of hypoglycemia and in patients with hypersensitivity to NovoLog® or one of its excipients.

in patients with hypersensitivity to NovoLog® or one of its excipients.

WARNINGS AND PRECAUTIONS: Administration: NovoLog® has a more rapid onset of action and a shorter duration of activity than regular human insulin. An injection of NovoLog® should immediately be followed by a meal within 5-10 minutes. Because of NovoLog® should immediately be followed by a meal within 5-10 minutes. Because of NovoLog® should duration of action, a longer acting insulin should also be used in patients with type 1 diabetes and may also be needed in patients with type 2 diabetes. Glucose monitoring is recommended for all patients with diabetes and is particularly important for patients using external pump infusion therapy. Any change of insulin dose should be made cautiously and only under medical supervision. Changing from one insulin product to another or changing the insulin strength may result in the need for a change in dosage. As with all insulin preparations, the time course of NovoLog® action may vary in different individuals or at different times in the same individual and is dependent on many conditions, including the site of injection, local blood supply, temperature, and physical activity. Patients who change their level of physical activity or meal plan may require adjustment of insulin dosages. Insulin requirements may be altered during illness, emotional disturbances, or other stresses. Patients using continuous subcutaneous insulin infusion pump therapy must be trained to administer insulin by injection and have alternate insulin therapy available in case of pump failure. Needles and NovoLog® FlexPen® must not be shared. Hypoglycemia: Hypoglycemia is the most common subcutaneous insulin infusion pump therapy must be trained to administer insulin by injection and have alternate insulin therapy available in case of pump failure. Needles and Novolog® FlexPen® must not be shared. Hypoglycemia: Hypoglycemia is the most common adverse effect of all insulin therapies, including Novolog®. Severe hypoglycemia may lead to unconsciousness and/or convulsions and may result in temporary or permanent impairment of brain function or death. Severe hypoglycemia requiring the assistance of another person and/or parenteral glucose infusion or glucagon administration has been observed in clinical trials with insulin, including trials with Novolog®. The timing of hypoglycemia usually reflects the time-action profile of the administered insulin formulations. Other factors such as changes in food intake (e.g., amount of food or timing of meals), injection site, exercise, and concomitant medications may also alter the risk of hypoglycemia. As with all insulins, use caution in patients with hypoglycemia unawareness and in patients who may be predisposed to hypoglycemia (e.g., patients who are fasting or have erratic food intake). The patient's ability to concentrate and react may be impaired as a result of hypoglycemia. This may present a risk in situations where these abilities are especially important, such as driving or operating other machinery. Rapid changes in serum glucose levels 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 longstanding diabetes, diabetic nerve disease, use of medications such as beta-blockers, or intensified diabetes control. These situations may result in severe hypoglycemia (and, possibly, loss of consciousness) prior the patient's awareness of hypoglycemia (and, possibly leading to hypokalemia that, if potassium from the extracellular to intracellular space, possibly leading to hypokalemia that, if left untreated, left untreated, may cause respiratory paralysis, ventricular arrhythmia, and death. Use caution in patients who may be at risk for hypokalemia (e.g., patients using potassium-lowering medications, patients taking medications sensitive to serum potassium concentrations, and patients receiving intravenously administered insulin). Renal Impairment: As with other insulins, the dose requirements for NovoLog® may be reduced in patients with renal impairment. Hepatic Impairment: As with other insulins, the dose requirements for NovoLog® may be reduced in patients with hepatic impairment. Hypersensitivity and Allergic Reactions: Local Reactions - As with other insulin therapy, patients may experience redness, swelling, or liching at the site of NovoLog® injection. These reactions usually resolve in a few days to a few weeks, but in some occasions, may require discontinuation of NovoLog®. In some instances, these reactions may be related to factors other than insulin, such as irritants in a skin cleansing agent or poor injection technique. Localized reactions and generalized myalgias have been reported with injected metacresol, which is an excipient in NovoLog®. Systemic Reactions - Severe, life-threatening, generalized allergy, including anaphylaxis, may occur with any insulin product, including NovoLog®. Anaphylactic reactions with NovoLog® have been reported post-approval. Generalized allergy to insulin may also cause whole body rash (including pruritus), dyspnea, wheezing, hypotension, tachycardia, or diaphoresis. In controlled clinical trials, allergic reactions were reported in 3 of 735 patients (0.4%) treated with regular human insulin and 10 of 1394 patients (0.7%) treated with NovoLog®. Increases in anti-insulin antibody served more frequently with NovoLog®. Increases in anti-insulin antibody served more frequently with NovoLog® than with regular human insulin and insulin aspart treatment groups observed with NovoLog®. Increases in anti-insulin antibodies are observed more frequently with NovoLog® than with reg

absorbed through skin and have a shorter duration of action. Prompt identification and correction of the cause of hyperglycemia or ketosis is necessary. Interim therapy with subcutaneous injection may be required [see Warnings and Precautions]. NovoLog® should not be exposed to temperatures greater than 37°C (98.6°F). NovoLog® that will be used in a pump should not be mixed with other insulin or with a diluent [see Warnings and Precautions].

ADVERSE REACTIONS: *Clinical Trial Experience:* Because clinical trials are conducted under widely varying designs, the adverse reaction rates reported in one clinical trial may not be easily compared to those rates reported in another clinical trial, and may not reflect the be easily compared to those rates reported in another clinical trial, and may not reflect the rates actually observed in clinical practice. https://dx.doi.org/linicalty-ial. (Insulin initiation and glucose control has been associated with a transitory, reversible ophthalmologic refraction disorder, worsening of diabetic retinopathy, and acute painful peripheral neuropathy. However, long-term glycemic control decreases the risk of diabetic retinopathy and neuropathy. However, long-term use of insulin, including NovoLog®, can cause lipodystrophy at the site of repeated insulin injections or infusion. Lipodystrophy includes lipohypertrophy (thickening of adipose tissue) and lipoatrophy (thinning of adipose tissue), and may affect insulin absorption. Rotate insulin injection or infusion sites within the same region to reduce the risk of lipodystrophy. <a href="Weight gain: Weight gain: Weight gain can occur with some insulin therapies, including NovoLog®, and has been attributed to the anabolic effects of insulin and the decrease in glucosuria. Peripheral Edema: Insulin may cause sodium retention and edema, particularly if previously poor metabolic control is improved by intensified insulin therapy. Frequencies of adverse drug reactions (The frequencies of adverse publicus are listed in the tables below.

Table 1: Treatment-Emergent Adverse Events in Patients with Type 1 Diabetes

Table 1: Treatment-Emergent Adverse Events in Patients with Type 1 Diabetes Mellitus (Adverse events with frequency $\geq 5\%$ and occurring more frequently with NovoLog $^{\otimes}$ compared to human regular insulin are listed)

	NovoLog® + NPH N= 596		Human Regular Insulin + NPH N= 286	
Preferred Term	N	(%)	N	(%)
Hypoglycemia*	448	75%	205	72%
Headache	70	12%	28	10%
Injury accidental	65	11%	29	10%
Nausea	43	7%	13	5%
Diarrhea	28	5%	9	3%

*Hypoglycemia is defined as an episode of blood glucose concentration <45 mg/dL with or without

Table 2: Treatment-Emergent Adverse Events in Patients with Type 2 Diabetes Mellitus (except for hypoglycemia, adverse events with frequency $\geq 5\%$ and occurring more frequently with NovoLog® compared to human regular insulin are

	NovoLog® + NPH N= 91		Human Regular Insulin + NPH N= 91	
	N	(%)	N	(%)
Hypoglycemia*	25	27%	33	36%
Hyporeflexia	10	11%	6	7%
Onychomycosis	9	10%	5	5%
Sensory disturbance	8	9%	6	7%
Urinary tract infection	7	8%	6	7%
Chest pain	5	5%	3	3%
Headache	5	5%	3	3%
Skin disorder	5	5%	2	2%
Abdominal pain	5	5%	1	1%
Sinusitis	5	5%	1	1%

*Hypoglycemia is defined as an episode of blood glucose concentration <45 mg/dL, with or without

Postmarketing Data: The following additional adverse reactions have been identified during postapproval use of NovoLog®. Because these adverse reactions are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency. Medication errors in which other insulins have been accidentally substituted for NovoLog® have been identified during procedure review. been identified during postapproval use.

OVERDOSAGE: Excess insulin administration may cause hypoglycemia and, particularly when given intravenously, hypokalemia. 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 glucagon or concentrated intravenous glucose. Sustained carbohydrate intake and observation may be necessary because hypoglycemia may recur after apparent clinical recovery. Hypokalemia must be corrected appropriately

More detailed information is available on request.

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Manufactured by Novo Nordisk A/S, DK-2880 Bagsvaerd, Denmark

For information about NovoLog® contact: Novo Nordisk Inc., Princeton, New Jersey 08540 1-800-727-6500 www.novonordisk-us.com

FlexPen® and NovoLog® are registered trademarks of Novo Nordisk A/S.

NovoLog® is covered by US Patent Nos. 5,618,913, 5,866,538, and other patents pending. FlexPen® is covered by US Patent Nos. 6,582,404, 6,004,297, 6,235,004, and other patents

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